CRITERION-2.6.1

The objective and outcomes of the subject mentioned in the syllabus have been clearly defined and faculty make efforts to achieve the learning outcomes

DEPARTMENT OF ECONOMICS

HIMACHAL PRADESH UNIVERSITY

[NAAC Accredited 'A' Grade University]

Summer Hill, Shimla-171005

Regulations and Syllabus
Course Work of PhD Economics

[CBCS]

w.e.f. July, 2022

Department of Economics
Syllabus for Course Work for Ph. D in Economics

The following Credit Based Credit Scheme for Course Work for Ph D in Economics has been prepared and proposed by the Department Council for implementation w.e.f. academic session 2022-23 onwards. There shall be two courses of the study and one Thesis.

The Course work is: (i) in addition to the thesis which every Ph.D student is required to complete under the supervision of a thesis supervisor allotted for the purpose, (ii) is compulsory for all students who are admitted to the Ph. D programme after MA (Economics) and iii) is not applicable to students who have successfully completed M. Phil in Economics.

NOTE: Students who have already completed their M. Phil Degree are exempt from course work as per HP University Ordinance.

The following Credit Based Credit Scheme for Course Work for Ph D in Economics prepared and proposed by the Department Council for implementation w.e.f. the academic session 2022-23 onwards was considered and approved by PG BoS on 18/05/2022 and by Faculty of Social Sciences on 15th July, 2022. The scheme is placed before the Academic Council for consideration and approval. .

Table 1: Courses with Codes, Credits, Contact Hours and Marks Scheme for Ph. D in Economics

Duration	Course Code	Nature of Course	Course Name	Credits	Theory Contact Hours (L-5Hrs/Tutorial -1 hour)		Marks Scheme	
					Lecture Credits	Tutorial (Seminar/ Assignment/GD/Quiz) Credits	Theory	Internal Assessment
1st Six Months from Registration	PDEC-11	DSC	Research Methods, and Quantitative Techniques	6	5	1	80	20
	PDEC-12	DSC	Advanced Economic Theory	6	5	1	80	20
	PDEC-13	DSC	Research and Publication Ethics	2	1	1	40	10
			Grand Total* (1+2+3)	**14**	**11**	**3**	**Total Marks = 250**	

I. NOTE: In Reference to Table 1 The Following Points A) and B) are relevant:

A) Course code descriptions: the codes for the course on offer is explained as follows:

1. Discipline Specific Core Courses (DSC), e.g., PDEC-11

Here: In **PDEC**: **PD** denotes Ph.D (Doctor of Philosophy) ; **E** denotes Economics and **C** denotes Compulsory Course. Similarly, **11** represents 1st Semester 1st Course.

2. The student is required to complete the coursework within six months of admission to the Ph.D Programme.

B) This Course work is:

i) compulsory for all students who are admitted to the Ph D programme after MA (Economics) based on entrance test/JRF/any other scholarship as permitted by Himachal Pradesh University i.e., without M. Phil. (Economics). This is in accordance with the provisions of Clause 16.5 (c) of the Ordinance of this University.

ii) not applicable to students who have successfully completed M. Phil in Economics.

iii) in addition to the thesis which every Ph.D student is required to complete under the supervision of a thesis supervisor allotted for the purpose.

C) General Information

1. Number of seats, eligibility, basis of admission, age limit, reservation, fee structure, scheme of examination and qualifying marks will be as per the University rules as prescribed in the Himachal Pradesh University Ordinance and Handbook of Information from time to time.

2. In case of ambiguity or conflict in provisions, the HP University Ordinance/Guidelines adopted by this University shall prevail.

II DURATION

As per HP University Ordinance/ Rules

III SCHEME OF COURSES

Three Core Courses constitute the course work for Ph.D programme in Economics.

Table 2: The number & type of courses to be completed in each semester

Courses	I	Remark
Discipline Specific Core Courses (DSC)	**03**	Course work is to be completed within the first six months of registration in the Ph. D Programme
Total Number of Courses	**03**	

1. **Discipline Specific Core Compulsory Courses (03 Core Courses)**

   1) The syllabi for DSC course code PDEC - 11 and course code PDEC - 12 are specified in five units. Each question paper shall consist of ten questions in all i.e., two from each of the five units. The candidates are required to attempt five questions in all selecting one question from each Unit.
   2) The syllabi for DSC course code PDEC – 13 is specified in five units. First compulsory question will be objective type/ short answer and will carry 8 marks. The other 10 questions will be from five units i.e., two questions from each unit and carry 16 marks each. The candidates are required to attempt five questions in all selecting one question from each Unit.
   3) Duration of each DSC exam will be three (3) hours.

III SCHEME OF EXAMINATION FOR COURSE WORK

MARKS Allotted to each paper:

A) DSC papers (PDEC-11 and PDEC – 12) shall be of 100 marks and **qualifying marks** in then two Courses shall be **50** per cent i.e.:
   i) 40 out of 80 (Theory) and
   ii) 10 out of 20 (Internal Assessment).

B) DSC paper PDEC-13 shall be of 50 marks and qualifying marks in this course shall be 50 percent i.e.,
   i) 20 out of 40 (Theory) and
   ii) 5 out of 10 (Internal Assessment).

Ph.D in Economics

Programme Outcome

Over the duration of study, students are expected to acquire:

- an understanding of the theoretical and practical dimensions of economics.
- the ability to analyse, evaluate and create solutions.
- competence to appraise, critically differentiate, build arguments, defend own view point and formulate creative solutions.
- a professional ethic and be a model both citizen within and outside the country and also a better academician/entrepreneur/researcher/consultant/ trainer/ Financial Analysts/ Economic Advisor etc.
- a research ethic to be intellectually honest and avoid any research & publication misconduct.
- heightened acumen for creative thinking, ability to analyse and evaluate economic issues.

DSC Course Code: PDEC - 11
RESEARCH METHODS AND QUANTITATIVE TECHNIQUES
Course Credits: 6

Maximum Marks: 100
Duration: 3 hours

Course Outcomes

This course is expected to enhance the student's competence by:

- imparting knowledge about various methods in research in economics
- Enhancing knowledge of quantitative techniques used in the empirical analysis of economic relationships.
- inculcating the ability to make practical applications of econometric tools through:
    - creating ability to estimate and interpret linear regression models and explain problems that arise when the assumptions of linear regression model are violated.
    - Explaining various concepts of econometrics such as autocorrelation, homoscedasticity etc. which have very wide significance in economic relations.

Unit - I

Methods of research in economics-descriptive, historical, inductive and deductive methods. Characteristics of, and steps in scientific methods of research. Research design-choice of research problem. Selection of appropriate methods for data collection, observational method, interview method and case study method. Construction of schedule/questionnaire. Guidelines for successful interviewing.

Unit -II

Model formulation, specification and estimation. Evaluation of parameters and classification of variables. Tests of restrictions and forecasting. Simple example and solutions of problems of autocorrelation, multicollinearity and heteroscedasticity (Applications are important, not proofs)

Unit – III

Regression with dummy explanatory variables. Regression with dummy dependent variables. Lagged models- The Koyck model, Nerlovis Partial adjustment and Almon (Polynomial) model. The problem of identification, Formal rule of identification (The order condition and rank condition for identification). Unit Root Test and Co Integration analysis.

Unit-IV

Linear programming: assumption and model of linear programming. The solution of Maximization and Minimization problems by Simplex method. Duality- the dual problem andits economic interpretation.

Input-Output analysis: Basic concepts- assumptions and the technological coefficient matrix. The Hawkins-Simon conditions. Solving an input-output system. Determination of value added. Open and Closed Input-output models.

Unit-V

Extension of the linear regression model to non-linear relationships. Tests of restriction imposed on the relationship of two or more parameters. The Chow test. Specification errors and specification bias. Errors in Variables: their consequences and solutions. Method of inverse least squares.

NOTE: The examination in this course shall be of three-hour duration. Ten questions in all comprising two questions from each unit shall be set by the paper setter. The examinee shall be required to attempt five questions in all, selecting one question from each unit.

SUGGESTED READINGS

- Allen R.G.D, 1959, Mathematical Economics, St. Martin's Press, New York.
- Blitxer C.R., P.B Clark & L.Taylor (eds) 1975. Economy- Wide Models and Development Planning, Oxford University Press, Oxford.
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- Gujarati (2004), Basic Econometrics, Tata Mc-Graw Hill, 4th Edition.
- Hadley G., 1962, Linear Programming. Addison, Wesley, Massachusetts.
- Intriligator D. (1978), Econometric Models, Techniques and Applications. Prentice Hall, Englewood Cliffs.
- Koutsoyiannis (1977), Theory of Econometrics, Macmillan.
- Luce R. D. and R. Raifee, 1957, Games and Decisions, John Wiley, New York.
- Macintyre, Alasdair (1967) A Short History of Ethics. London.
- Maddala (1977), Econometrics. Mc- Graw Hill.
- Nachane Daleep M., Oxford University Press (2006) Econometrics: Theoretical Foundations and Empirical Perspective
- Nagar L. and R.K Das, 1998, Statistics and Econometrics, Oxford University, Delhi.
- Shubik M., 1982, Game Theory in Social Sciences, MIT, Press, Cambridge, Mass.
- Theil (1961), Introduction to Econometrics, Prentice Hall of India, New Delhi.
- Wegner H. M, 1969, Principles of Operations Research, Prentice Hall of India.

DSC Course Code: PDEC - 12
ADVANCED ECONOMIC THEORY
Course Credits: 6

Maximum Marks: 100
Duration: 3 hours

Course Outcomes

This course is expected to enable the student to:

- describe the general methodology used in the microeconomics, with particular attention to construction and verification of economic models.
- identify all scientific theorizing involves the specification of simplified theoretical models within which very complex processes (such as the operation of modern economy) can be isolated and examined.
- appraise several methods that can be used to solve maximization and minimization problems as many economic models start with the assumption that economic agents (individual, firms, government agencies, and so forth) seek maximization of their welfare, given their limited resources.
- demonstrate the role of different variables viz. saving and consumption in growth equilibrium and to contrast the Phelps golden rule of accumulation.
- describe the features of new classical economic and new Keynesian economics in the context of modern economy.

Unit-I

Hick's revision of demand Theory, Neumann Morgenstern method of measuring utility, Consumption under risk and uncertainty. Dynamic version of demand functions, indirect utility functions. The Financial Markets and the Economy. The Behavioral Model of Cryert and March; Clark-Wicksteed-Walras 'Product Exhaustion' Theorem,

Unit - II

Welfare economics; Theory of the second best, social welfare functions and Arrow's impossibility theorem; Rawlsian concept of justice; Equity efficiency trade-off, Criteria of Social Welfare, Maximization of Social Welfare, Determination of the welfare maximization output mix, commodity distribution and resource allocation.

Unit - III

Budget Deficits in the short and long run, Credit Creation, Techniques of Credit Control, Bills Only Doctrine, Availability to Credit Doctrine (Roosa Effect), The Monetarist Counterrevolution, The Financial Crisis and Great Depression. Real Business Cycles and New Keynesian Economics: Effectiveness of stabilization policies in IS LM model in closed & open economy.

Unit - IV

Modern Theories of economic growth: Todaro's model of rural urban migration and unemployment, Schumpeter's Model, J.E. Meade's Model and Jorgenson models. Cambridge models of economic Growth: Kaldor and Robinson, Saving and consumption in growth equilibrium; Phelps Golden Rule. Ricardian and Marxian theories of macro distribution.

Unit - V

Degree of Monopoly theory of Kalecki's, Neo-Keynesian model of Kaldor, the modified model of Pasinetti. The New Keynesian theory of aggregate supply. Phillips Curve; Trade-off and non-trade off aspects, Externalities, the environment and natural resources. Technical progress and income distribution, Optimal Monetary Policy, Poverty, Inequality and Discrimination.

NOTE: The examination in this course shall be of three-hour duration. Ten questions in all comprising of two questions from each unit shall be set by the paper setter. The examinee shall be required to attempt five questions in all, selecting one question from each unit.

SUGGESTED READINGS

- Abel, A., Bernanke, B.& Croushore, D., Macroeconomics,9th ed, Pearson Education, 2020.
- Archibald G. L. (ed.), Readings in the Theory of the Firm, Penguin, 1971.
- Bain J.S., Essays on Price Theory and Industrial Organization, Little Brown & Co., 1972.
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- Chamber, R., Applied Production Analysis: A Dual Approach, Cambridge University Press, 1988.
- Dornbusch, R., Fischer, S., Startz, R., Macroeconomics, 12th ed, McGraw Hill Education, 2018.
- Friedman M.E., and L. J. Savage, The Utility Analysis of Choice Involving Risk, Journal of Political Economy, August 1948.
- Friedman Milton Price Theory, Aldine, Chicago, 1976.
- Friedman Milton, Essays in Positive Economics, Chicago University Press, Chicago 1953.
- Gali, J., Monetary policy, inflation, and the business cycle,2nd ed, Princeton University Press, 2015.
- Hicks J.R., A Revision of Demand Theory, Clarendon Press, Oxford, 1956.
- Jehle, G.A., & Reny, P.J., Advanced Microeconomic Theory, Prentice Hall, 2012.
- Jones, C. (2020). Macroeconomics,5th ed, W.W. Norton, 2020.
- Koutsoyiannis Anna, Modern Microeconomics, Macmillan Publishers Ltd. London, 1985.
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- McEachern and Kaur, Micro Econ: A South Asian Perspective, Cengage Learning India Pvt. Ltd., 2021.
- Mishan E. J., A Survey of Welfare Economics 1939-1959, Economic Journal, 1960.
- Nicholson, W., & Snyder, C., Microeconomic Theory,10th ed, Cengage Learning, 2010.
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- Silberstein, Price Behaviours of Firms, (A Survey Article), Economic Journal, 1970.
- Simon H.A., New Developments of the Theory of Firm, American Economic Review, 1962.
- Uribe, M., & Schmitt-Grohe, S., Open Economy Macroeconomics, Princeton University Press, 2017.
- Varian, H. R., Intermediate Microeconomics: A Modern Approach, 9th ed, New York: W.W. Norton & Company, 2014.
- Von Neumann and O. Morgenstern, Theory of Games and Economic Behavior.
- Walch, C., Monetary Theory & Policy, 4th ed, MIT Express, 2017.
- Wicens, M., Macroeconomic Theory,2nd ed, Princeton University press, 2011.
- Wilson & P.W.S. Andrews (ed.), Studies in the Price Mechanism, Oxford University Press, 1951.

DSC Course Code: PDEC - 13

Research and Publication Ethics
Course Credits: 2

Maximum Marks: 100
Duration: 3 hours

Course Outcomes

- Helping to identify and adhere to ethical practices in conducting, reporting and publishing research.
- Identify research misconduct and predatory publications.
- Illustrate problems that lead to unethical behaviour.
- Appraise Software tool to identify predatory publications
- Develop an understanding of the working of plagiarism software like Turnitin, Urkund and other open-source software tools.

Unit 1 PHILOSOPHY AND ETHICS

Introduction to philosophy: definition, nature and scope, concept, branches; Ethics: definition, moral philosophy, nature of moral judgments and reactions.

Unit 2 SCIENTIFIC CONDUCT

Ethics with respect to science and research; Intellectual honesty and research integrity; Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP); Redundant publications: duplicate and overlapping publications, salami slicing; Selective reporting and misrepresentation of data.

Unit 3 PUBLICATION ETHICS

Publication ethics: definition, introduction and importance; Best practices *I* standards setting initiatives and guidelines: COPE, WAME, etc.; Conflicts of interest; Publication misconduct: definition, concept, problems that lead to unethical behaviour and vice versa, types; Violation of publication ethics, authorship and contributor ship; Identification of publication misconduct, complaints and appeals; Predatory publishers and journals.

Unit 4 OPEN ACCESS PUBLISHING

Open access publications and initiatives; SHERPN/RoMEO online resource to check publisher copyright& self-archiving policies; Software tool to identify predatory publications developed by SPPU; Journal finder *I* journal suggestion tools viz. JANE, Elsevier Journal Finder, Spinger Journal Suggester, etc.

Unit 5 PUBLICATION MISCONDUCT, DATABASES AND RESEARCH METRICS

Subject specific ethical issues, FFP, authorship; Conflicts of interest; Complaints and appeals: examples and fraud from India and abroad; Use of plagiarism software like Turnitin, Urkund and other open-source software tools. **Databases:** Indexing databases; Citation databases: Web of Science, Scopus, etc.; **Research Metrics:** Impact Factor of journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score; Metrics: h-index, g index, i10 index, altimetric.

Suggested Readings

- Bird, A. (2006). Philosophy of Science. Routledge.
- Chaddah P., (2018) Ethics in Competitive Research: Do not get scooped; do not get plagiarized, ISBN:978-
- Indian National Science Academy (INSA), Ethics in Science Education, Research and Govemance (2019),
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- National Academy of Sciences, National Academy of Engineering and Institute of Medicine. (2009). On Being a Scientist: A Guide to Responsible Conduct in Research: Third Edition. National Academies Press.

DEPARTMENT OF ECONOMICS

HIMACHAL PRADESH UNIVERSITY

[NAAC Accredited 'A' Grade University]

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Regulations and Syllabus

M.A. **Business Economics** Programme

Annexure 'B'

[CBCS]

Approved by Board of Studies held on 17.11.2022

Approved by Faculty of Social Sciences

Department of Economics

Syllabus of Master of Arts in Business Economics (MABE Economics)

The following Credit Based Credit Scheme for M.A.B.E. in Economics to be offered by the PG Centre to regular students enrolled in the department only, prepared and proposed by the Department Council for implementation w.e.f. the academic session 2022-23 onwards was considered and approved by PG BoS on 17/11/2022 and by Faculty of Social Sciences on ……. The scheme is placed before the Academic Council/ Executive Council for consideration and approval.

Table 1: Semester wise Courses with Codes, Credits, Contact Hours and Marks Scheme

Semester	Course Code	Nature of Course	Course Name	Credits	Theory Contact Hours (L-4Hrs/Tutorial -2 hour)		Marks Scheme	
					Lecture Credits	Tutorial (Seminar/ Assignment/GD/Quiz) Credits	Theory	Internal Assessment
I	MABE111	DSC	Micro-Economics	6	4	2	80	20
	MABE112	DSC	Elementary Mathematics for Economics	6	4	2	80	20
	MABE113	DSC	International Economics	6	4	2	80	20
	MABE114	DSC	Labour Economics	6	4	2	80	20
			Sub Total -1	**24**	**16**	**8**	**Marks=400**	
II	MABE121	DSC	Macro-Economics	6	4	2	80	20
	MABE122	DSC	Basic Statistics	6	4	2	80	20
	MABE123	DSC	Money and Banking	6	4	2	80	20
	MABE124	DSC	History of Economic Thought	6	4	2	80	20
	MABE125	GE-I	Fundamental Concepts in Economics	4	3	1	80	20
			Sub Total -1	**28**	**19**	**9**	**Marks=500**	
III	MABE231	DSC	Principles of Marketing Management	6	4	2	80	20
	MABE232	DSC	Principles of Management and Organisation Behaviour	6	4	2	80	20
	MABE233	DSC	Principles of Business Finance	6	4	2	80	20
	MABE234	DSE-I	Rural Marketing	6	4	2	80	20
	MABE235	**OR** DSE-II	Advertising Management	6	4	2	80	20
	MABE236	AEC	Contemporary Economic Issues and data handling	4	3	1	80	20
			Sub Total - 3	**24**	**16**	**8**	**Marks=400**	
IV	MABE241	DSC	Project Appraisal and Investment Planning	6	4	2	80	20
	MABE242	DSC	Operation Research in Business Decisions	6	4	2	80	20
	MABE243	DSC	Post Graduate Project	6	-	-	80	20
	MABE244	DSE-III **OR**	Business Environment	6	4	2	80	20
	MABE245	DSE-IV	Industrial Economics	6	4	2	80	20
	MABE246	GE-II	Economy of Himachal Pradesh	4	3	1	80	20
			Sub Total - 4	**28**	**19**	**9**	**Marks=500**	
			Grand Total* (1+2+3+4) [* Grand Total includes only courses offered by the Department of Economics to students enrolled in MABE Economics Course]	**104**	**70**	**34**	**Total Marks = 1800**	

Note: Course code number MABE236 is Non-CGPA Ability Enhancement Course (AEC).

NOTE: In Reference to Table 1 the Following Points A – E Are Relevant:

A) Course code descriptions: the codes for the four types of courses on offer are explained as follows:

1. Discipline Specific Core Courses (DSC), e.g.,MABE111

2. Discipline Specific Elective Courses (DSE) e.g.,MABE234
3. Generic Elective (GE) e.g.,MABE125 & MABE246
4. Ability Enhancement Course (AEC) MABE236

Here: MABE111 denotes Economics 1st year, 1st Semester and 1st Course. Similarly, MABE234 denotes Economics 2nd year, 3rd Semester and 4th Course.

Regarding DSE Courses

1. Semester III: Any one course to be opted from course-DSE-I and DSE-II.
2. Semester IV: Any one course to be opted from course-DSE-III and DSE-IV (except foreign national students as explained in III i) c) below.
3. In case of regular students, the Department will offer only one Elective Course in Semesters III and IV. A second Elective Course will be offered only if there are a minimum of 05 students opting for the same and will further depend upon the availability of faculty.
4. Evaluation of Dissertation and Viva Voce by External Examiner (i.e., from university other than HPU) specifically for MABE243 – i.e., PG Dissertation. Not more than 7 (seven) dissertations to be evaluated by one external examiner.

B) Regarding GE Courses

i. Each student of the M. A. Business Economics in the subject of Economics will complete **two** GE courses during the duration of the degree programme, opting for ***not*** more than one GE course per semester from any other department of the Faculty of Social Sciences or other Faculties as permitted by this University.
ii. This Department shall offer Generic Elective (GE) Courses in the II and IV Semesters.
iii. GE Courses offered in the semesters II and IV respectively of the M. A. Business Economics in the subject of Economics will be opened as interdisciplinary courses to all full-time students registered in any regular master's programme of the Faculty of Social Sciences or other Faculties as permitted by this University.
iv. Such GE Courses offered by the Department of Economics are:
    - open to regular students of the PG Centre only in any regular master's programme of the Faculty of Social Sciences or other Faculties as permitted by this University.
v. The total number of such students accepted in each semester will not exceed the student strength in respective semester of M. A. Business Economics programme.
vi. The criterion admission to GE courses in the Department will be determined by the Department Council or University guidelines that may be issued for this purpose.
vii. GE courses will be offered to private students only by ICDEOL.

II SCHEME OF COURSES

Four categories of Courses are on offer as follows:

Table 2: The number & type of courses to be completed in each semester

Courses	Semester				ALL Semesters
	I	II	III	IV	I - IV
Discipline Specific Core Courses (DSC) including PG Dissertation	**04**	**04**	**03**	**03**	**14**
Discipline Specific Elective Courses (DSE)	**-**	**-**	**01**	**01**	**02**
Generic Elective (GE)	**-**	**01**	**-**	**01**	**02**
Ability Enhancing Compulsory Course (AEC)	**-**	**-**	**01**	**-**	**01**
Total Number of Courses	**04**	**05**	**05**	**05**	**19**

III SCHEME OF EXAMINATION

MARKS Allotted to each paper:

Each DSC, DSE and GE Course shall be of 100 marks and qualifying marks in each Course shall be 40 per cent. The break up is as follows: 32 marks out of 80 ESE (i.e., 40 % of 80) and 8 marks out of 20 internal assessments (i.e., 40 % of 20).

Each AEC shall be of 100 marks and qualifying marks in each Course shall be 40 marks. The break up is as follows: 32 marks out of 80 ESE (i.e., 40 % of 80) and 8 marks out of 20 internal assessments (i.e., 40 % of 20). The Internal Assessment of 20 marks shall comprise of 2.5 marks each for: i) Class Test(s)/Assignment(s) and ii) Presentation(s)/Seminar(s) and 5 marks for attendance.

Assessment (CCA) and End-Semester Examination (ESE), failing which the student shall be considered to have failed in the concerned course and shall have to take the exam for the said course again. In case the student fails the CCA, his form for ESE shall be withheld and a notice put up in the department to the effect. The student, then, shall have to again take a Mid-term (Minor) Test and submit an assignment in the concerned course and pass the same. If the student fails the ESE, he/she shall have to take the concerned end-semester examination again.

Question paper setting for AEC (Ability Enhancement Course) shall be external, under the aegis of the CoE, however the evaluation shall be internal, by the concerned Department.

i) For **regular students** enrolled in M. A. Business Economics course in PG Centre, HPU, Regional Centre of HPU at Dharamsala and Centre for Evening Studies, HPU

a) The distribution of 100 marks for DSC and DSE courses shall be 80 for Theory and 20 for Internal Assessment (except for PG Dissertation IV Semester). The Internal Assessment of 20 marks shall comprise of 5 marks each for: i) Class Test(s), ii) Assignment(s) and iii) Presentation(s)/Seminar(s) and iv) attendance.

Marks for attendance are given as per following criteria:

>75% but < 80%	:	1 Mark
80% to 85%	:	2 Marks
>85% but <90%	:	3 Marks
90% to 95%	:	4 Marks
>95%	:	5 Marks

b) The GE course ***offered to students of other subjects/faculties*** (as permitted by this University) will carry a total of 100 marks distributed as: 80 marks for Theory and 20 marks internal assessment. The Internal Assessment of 20 marks shall comprise of 5 marks each for: i) Class Test(s), ii) Assignment(s) and iii) Presentation(s)/Seminar(s) and iv) attendance.
Marks for attendance are given as per criteria for DSC & DSE specified at a) above.

IV FORMAT OF QUESTION PAPERS

i. For DSC & DSE papers: Compulsory question consists of 10 short answer questions of 2 marks each i.e., total 20 marks. Five long answers questions carrying 12 marks each per unit i.e., total 60 marks.

ii. For GE papers: Compulsory question consists of 10 short answer questions of 2 marks each i.e., total 20 marks. Five long answers questions carry 12 marks per

unit i.e., total 60 marks.

iii. For AEC papers: Compulsory question consists of 10 short answer questions of 2 marks each i.e., total 20 marks. Five long answers questions carrying 12 marks each.

V Duration of DSC, DSE, GE & AEC Papers will be three (3) hours.

VI General Information

1. Number of seats, eligibility, basis of admission, age limit, reservation, fee structure, scheme of examination and qualifying marks will be as per the University rules as prescribed in the Himachal Pradesh University Ordinance and Handbook of Information from time to time.
2. In case of ambiguity or conflict in provisions, the HP University Ordinance shall prevail.
3. The content not covered herein will be covered as per HPU regulations 2022 onwards Choice Based Credit System (CBCS) for Post-Graduate (PG) Classes

Master of Arts in Business Economics (MABE)

Programme Outcome

Since this is a professional course, students of M.A. in Business Economics as an individual entrepreneur/ working in the financial sector or corporate world in a position are expected to be able to apply theoretical knowledge to examine appraise and evaluate specific problems of the business/financial world.

Programme Specific Outcome

- A workforce will be created to join the financial, corporate and industrial sector with appropriate skill set.

DSC Course Code: MABE-111
MICRO-ECONOMICS

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course, students will be able to:

- comprehend consumer behaviour in all its ramifications.
- locate optimum products and factors combinations.
- describe different market conditions so as to understand equilibrium in price and output combinations.
- examine various factors of production and their price determination.
  discuss welfare economics and various criteria to determine the society's welfare.

Unit–I

Role and significance of assumption in economic models, Empirical testing of economic models.: The Slutsky theorem; Compensated demand curves; The revealed preference theory. Duality theory, Dual properties of utility and expenditure function, Shepard's Lema inter-temporal choice in consumption.

Unit-II

Recent developments in the theory of limit pricing; Models of Sylos-Labini. F, Modigliani and Bhagwati; Baumol's theory of contestable markets; Public utility pricing; inter-temporal and intra temporal equity.

Unit-III

Markets with Asymmetric information: Hidden Characteristics adverse selection and Moral hazards in insurance, Banking, Labour market & second-hand product markets. Pricing and output behaviour under oligopoly: Collusive and non-collusive models: Extensions of the oligopoly: models: Models of Baumol, Marris and Williamson,

Unit-IV

Theory of Distribution: The adding up Problem and Euler's theorem. Modern theory of distribution. Theory of Rent: Ricardian and Modern.IS-LM curve theory of interest, Modern theory of wages; wage determination under trade unionism., Marxian and Kalecki's theories of profit.

Unit-V

Welfare Economics: Marshallian and Robbinsian concepts Pigouvian Welfare Economics. New Welfare Economics: Pareto's optimum and externalities; Compensation principle.

SUGGESTEDREADINGS

- American Economic Association (1979). Readings in Welfare Economics,
- American Economic Association (1950), Readings in the Theory of Income Distribution, George Allen and Unwin, London.
- Archibald, G.C., Ed. (1971),Theory of the Firm, Penguin Rooks, Harmonds wroth.
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- Kreps, D.M. (1992).A Course in Micro Economic Theory., Prentice Hall of India, New Delhi.
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- Mishan,E.J.(1969).WelfareEconomics:AnAssessment,North-Holland,Amsterdam.
- Stigler, G. (1966), TheTheoryofPrice,3e, MacmillanCo., New York.
- Varian, H. (1978).Microeconomic Analysis, W.W. Nortion, New York.

DSC Course Code: MABE-112
ELEMENTARY MATHEMATICS FOR ECONOMICS

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course, students will be able to:

- understand the basic rules of matrix algebra and apply the same to solve mathematical models containing systems of simultaneous equations.
- understand and extend the techniques of differential calculus to compute values of variables etc.
- solve the differential and difference equations along with their economic applications to economic models.
- compute the consumer's surplus and producer's surplus by utilising the tools of integral calculus.
- apply linear programming and input-output model to analyse behaviour of economic agents.

Unit –IMATRICES AND DETERMINANTS

Their properties, addition, subtraction, and multiplication of matrices. Transpose of a Matrix. Some special forms of square matrices-Trace, Idempotent matrix, Sub-matrix of a matrix. Inverse of a matrix and solution of equations using both the inverse of a matrix and Cramer's rule. Rank of a Matrix (Numericals relating to inverse of a matrix and Cramer's rule should to be confined to matrix of order 3x3).

Unit-IIDIFFERENTIATION

Derivatives: differentiations of functions of a single variable. Derivative of a composite function, Parametric function, logarithmic function, Exponential, and inverse functions. Concave and convex functions. Derivative of higher order. Partial Derivatives and total derivative Homogenous functions and Euler's Theorem. Maxima and Minima of functions of single variable. Profit maximization and cost minimization. Constrained optimization of function with two variables. Constrained utility maximization, constrained minimization, and the interpretation of the Lagrange multiplier.

Unit –III DIFFERENTIAL AND DIFFERENCE EQUATIONS

Introduction, non-linear and linear differential equations of the first order and first degree. Solutions of differential equations when variables are separable, homogenous equations and non-homogenous equations, exact differential equations and linear equations. Solution of linear differential equations of second with constant coefficient. Finite difference, difference equations. Solutions of homogeneous linear difference equation with constant coefficients, linear first-order difference equations, Linear second order difference equations with constant coefficients.

Application of differential and difference equations in economic models (dynamics of market price, Solow growth model, cob-web model, multiplier-accelerator interaction model, Domar growth model).

Unit –IV ANALYTIC GEOMETRY

Introduction of a Straight Line, section formula, the gradient of a straight in, the equation of a straight line in intercept form, two-point form. Circle: The general equation of a circle, Parabola: equation of a parabola, the points of intersection of line and a parabola. Equation of a rectangular hyperbola. Problems based on applications of analytic geometry in economics.

Integration of function of one variable by parts and substitution. Integration of logarithmic and exponential functions. Definite integral and area between two curves. Simple applications of integration to the relationship between marginal functions and total functions, Consumer's surplus and producer's surplus. Investment and capital formation and the present value of a continuous flow.

Unit-V THE INPUT-OUTPUT MODEL

Its assumptions, technological coefficient matrix, closed and open input –output model, the Hawkins-Simon conditions. Solving the input-output models both open and closed using the inverse matrix.

An Introduction to Linear Programming, Linear equations, slack variables. Feasible and basic solutions. Degeneracy. Solving the primal and Dual with simplex method. Interpretation of the linear programming results.

SUGGESTED READINGS

- Allen.R.G.D. Mathematical Analysis for Economists, MacMillan, India Limited, Delhi.
- Baumol, W.J., Economic theory and Operations Analysis, Prentice Hall, New Delhi
- Berchenhal Chris and Paul Grount, Mathematics for Modern
- Budniek, Applied Mathematics for Business economics and social Sciences, 2nd Ed., McGraw Hill.
- Burmeister, E., and R Dobell, Mathematical Theories of Economic Growth.
- Chiang Alpha C. Fundamental Methods of Mathematical Economic Analysis, McGraw-Hill Bank Company London.
- D. Bose, An Introduction to Mathematical Economics, Himkya Publishing House, Delhi.
- Dorfman, R., Linear Programming and Economic Analysis, McGraw
- Dowling. Mathematics for Economists, McGraw Hill Economics, Heritage Publishers, New Delhi.
- Hadley, G. Linear Programming, Narosa Publishing House, New Hill
- Mukherji Badal and V. Pandit. Mathematical Methods for Economic Analysis, Allied Publishers Pvt.Ltd., New Delhi.
- Nicholson. Mathematics for Business Economics, McGraw Hill. Prentice Hall of India, New Delhi.
- Yamane Taro, Mathematics for Economists: An Elementary Survey.

DSC Course Code: MABE113
INTERNATIONAL ECONOMICS

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course, students will be able to:

- explain theories of international trade and their applications.
- outline the impact of dynamic factors on international trade.
- analyse various policies and role of international organizations to international trade.
- illustrate balance of payment and explain determination of exchange rates.
- identify long and short run capital requirements of developing countries.
- discuss the role of financial institutions like IMF, ADB, IFC and IDA.

Unit-I

Need for a separate theory of international trade. Theories of international trade classical, Neo-classical, Heckscher-Ohlin and Factor price equalization theories. Empirical verification of Classical and Heckscher-Ohlin theories, Factors reversal and Leontief paradox. Emmanuel's theory of unequal exchange.

Unit-II

Impact of dynamic factors on international trade changes in tastes, technology, factor endowments. Rybeznski theorem and transportation costs. Derivation of offer curves-Marshall-Edgeworth, Mill and Meade. Terms of trade and measurement of gains from trade. Secular deterioration in the terms of trade of developing countries. Aid versus trade controversy.

Unit-III

Commercial Policy: Free trade versus protection. Theory of tariffs; partial effects and effects on income distribution. Stolpher-Samuelson theorem. Optimum tariff, nominal and effective tariffs, infant industry tariff. Quotas and other quantitative restrictions. State trading. Multiple exchange rates. Trade policies of developing countries. Theory of custom union – trade creation and trade diversion. The SAARC, NAFTA, BRICS, G8, EU and the WTO framework. The WTO's and the developing countries.

Unit-IV

International Monetary Theory: Balance of payments and its adjustment. Maintenance of internal balance-Elasticities and absorption approaches. Exchange rate determination and adjustments. Foreign trade multiplier. Foreign repercussions and stability problem. Flexible versus fixed exchange rate system.

Unit-V

Capital requirements of developing countries. Development of International Monetary system since the 1970s and its reform, international reserves and problems of liquidity, IMF and the SDRs, ADB, IFC, IDA Short-term International finance-its nature and magnitude; its merits and demerits for the developing countries.

SUGGESTED READINGS

- American Economic Association (1970). Reading in the Theory of International Trade, George Allen and Unwin, London.
- American Economic Association, (1968), Readings in International Economics, Allen and Unwin, London.
- Bhagwati, J. (1968). Theory and Practice of Commercial Policy, Princeton University Press, New York.
- Bhagwati, Jagdish, (1969), Trade Tariff and Growth.
- Brown, W.B. and J.S. Hegendorn, (1994). International Economics: Theory and Context. Addison Wesley Publishing Co., New York.
- Caves, R.E. and Jones (1973) World Trade and Payments: An Introduction, Little Brown Company, Bosten.
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- Chacholiades, M. (1978). International Monetary Theory and Policy, McGraw Hill, New York.
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- Scammell, W.M. (1975), International Monetary Policy, Bretton wood and Alter, MacMillen, London.
- Sodersten, B., (1980), International Economics, 2nd Edition, Macmillian, London.

DSC Course Code: MABE114
LABOUR ECONOMICS

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course, students will be able to:

- examine various factors affecting demand and supply of labour.
- explain unemployment as a source of human capital.
- illustrate wage rate determination in different sectors of the economy.
- classify various methods of the settlement of industrial disputes.
- evaluate the govt. labour policies for the socio-economic upliftment of labour.

Unit – 1 Labour Market

Nature and characteristics of labour markets in developing economics like India. Paradigms of labour market – classical, neo-classical and dualistic; Analysis of demand and supply forces, Demand for labour relating to choose of technology. Supply of labour in relation to growth of labour force. Labour force participation rates.

Unit – II Employment

Employment and development relationship Importance of full employment in the context of poverty in the developing countries. Unemployment – concept and measures. Causes of unemployment, Issues relating to employment rationalization, technological change and modernization. Rural unemployment and educated unemployment. Planning of Human capital.

Unit – III Wage Determination

Various classical, neo-classical and bargaining theories of wage determination. Various concepts of minimum wages and fair living. Problems of implementation of minimum wages. Wage determination by sectors – Urban and Rural, organized and unorganized. Wage and inflation. Productivity and wage relationship. Profit sharing schemes. Causes of wage differentials in terms of firm, industry, occupation and region.

Unit – IV Industrial Relations and Trade Unions

Industrialization and emergence of trade unionism. Growth, structure and pattern of trade unionism. Achievements and failures of trade union movement. Determinants of industrial disputes. Steps to achieve industrial peace. Methods of settlement of industrial disputes: collective bargaining, conciliation, arbitration and labour participation in management.

Unit – V State and Labour in India

Increasing role of State in labour matters. Labour policy of the Government. Social Security and Legislative Measures adopted for Socio-economic upliftment of labour. Social security measures for organized visa-vis unorganized sector of labour. Important labour legislations (industrial dispute act), trade unions act, factories act and employees state insurance act. Problems of rural labour. Government policy towards rural labour and women and child labour. Evaluation of recent employment policy in India.

SUGGESTED READINGS

- Bellante, D. and M. Jackson, (1983). Labour Economics, McGraw-Hill, New York.
- Das, N. (1960). Unemployment Full Employment and India, Asia publishing House, Bombay.
- Deshpande, L. K. & J. C. Sandersara, eds. (1970). Wage Policy and wage determination in India. Bombay University Press, Bombay.
- Deshpandey, I. K., P. K. Employment Policy in a Developing Economy, Vol. I & II, Macmillan, London.
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- Kannapoo, S. (1983). Employment Problems and Urban Labour Markets In Developing Nations, University of Michigan, Ann Arbor, Michigan.
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- Singh, V. R. ed. (1970), Industrial Labour in India, Popular Prakashan, Bombay.
- Thakur Dalip S. (1986). Poverty, Inequality and Unemployment in Rural India. B. R. Publishing Corporation, New Delhi.
- Turner, H. A. (1965). Wage Trends, Wage Policies and collective Bargaining, Cambridge University Press, Cambridge.
- Vaid, K. N. (1970), Labour Welfare in India, Centre for Industrial Relations, Delhi.

DSC Course Code: MABE121

MACRO-ECONOMICS

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course, students will be able to:

- discuss the classical viewpoint about income, output and employment determination and explain various macroeconomic theories of consumer behaviour.
- distinguish between Keynesian and post Keynesian views regarding the income, output and employment.
- understand Money market and related concepts.
- explain various macro-economic growth models elaborate stabilisation policies.

Unit-I

Micro Foundations of Macro Economics. The basic classical model of income and employment determination. The basic Keynesian model; equilibrium in product and money markets. Multiplier process and the different concepts of multiplier; balanced budget theorem. Macro-Economic Theories of Consumption: Keynesian theory; Relative income, Permanent income, and Life cycle income hypotheses. Pigou effect and real balance effect on consumption demand.

Unit-II

Macro-Economic Theories of Investment: The Keynesian Post-Keynesian, New-Keynesian, and the financial theory of investment determination. Lags in investment. Portfolio disequilibrium and the transmission mechanism. The Demand for Money; The classical, Keynesian and Post-Keynesian approaches.

Unit-III

The supply of Money and Definitions of Money Supply: Inside and outside money, the neutrality of money Equilibrium in money market. The classical and Keynesian dichotomies and their resolution by Patinkin's real balance effect and through IS-LM model respectively. Keynesian and post Keynesian theories of rate of interest.

Unit-IV

Growth Models: Harrod-Domar model; Neo – classical model; Golden rule of accumulation; Optimal growth turnpikes. Theories of Trade Cycles: Multiplier-Accelerator interaction model, Kaldor and Hicks' models. Determination of General Price Level; Classical and Keynesian approaches. Theories of Inflation; Demand – pull and cost-push inflation; short and long-run Phillips's curve analysis; The Keynesian, the monetarist and the rational expectations analysis.

Unit-V

Keynesian and monetarist perspectives on monetary, fiscal and income policies. Stabilisation policies: Rules Discretion: lagged effects of policies and role of expectations. Crowding out effect and government budget constraint. Rational expectations and effectiveness of stabilisation policies.

SUGGESTED READINGS

- Aeernogl V. (2019), Macroeconomics, Anamika Pub.& Dis. (P) Ltd.
- Altug S. (2003), Dynamic Macroeconomic Analysis, Cambridge Publishers.
- Bronson, W.H., (1985). Macro-Economic Theory and Policy, Universal Book Stall, New Delhi.
- Chakravarty, S. (1985). Report of the Reserve Bank of India Committee to Review the Monetary System, Reserve Bank of India,
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- Gupta, S.B. (1983). Monetary Economics, S. Chand & Co, Delhi.
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- Roy (2012), Economics of Macro Issues, PEA Publishers.
- Scarfe, B.L. (1977). Cycles, Growth and inflation, McGraw Hill, New York.
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- Shapiro, Edward (1984), Macroeconomic Analysis, Galgotia Publication, New Delhi.
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- Tumandar, P.N. (1972), Investment: Theories and Evidence, McMillion, London.
- Turnovsky, S.J. (1977). Macroeconomic Analysis and Stabilisation Policy. Cambridge University Press, Cambridge.

DSC Course Code: MABE122
BASIC STATISTICS

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course, students will be able to:

- acquire and apply statistical techniques in the empirical analysis of economic relationships.
- understand and infer from the process of data collection and various sampling methods.
- construct and interpret index numbers for economic variables. Measure and evaluate components of time series.
- apply, solve and prove various probability theorems using appropriate probability distributions.
- understand, explain, solve and apply hypothesis testing and selection of appropriate techniques for testing hypotheses.

Unit: I

Measure of Central Tendency, Dispersion, Skewness and Kurtosis. Correlation; Meaning and methods of measuring correlation, Karl Pearson's method, Spearman's Rank Correlation coefficient, Limitations of Correlation analysis. Linear Regression; relation between correlation coefficient and regression coefficients, Fitting of regression equations, Standard error of estimates.

Unit: II

The General Linear Regression Model

An Introduction to the matrix formulation and solution of the general linear regression Model. Solution for a model with one dependent and two independent variables. Prediction for simple regression models of demand, supply, production and cost. Multiple and partial correlations and regressions. Relationship between the measures of multiple correlation and measures of partial correlation, Beta coefficients.

Unit III

Elements of Probability Theory

The Concept of Probability Distribution and a Density function. Mathematical expectation, Binomial distribution, the Normal distribution, Some properties of the normal distribution. Sampling and sample designs: simple random sampling, stratified random sampling, systematic sampling and cluster sampling. Large samples. Tests of significance. Limitation of sampling; procedure of testing hypothesis: Region of acceptance and rejection, two tailed and one tailed tests, Type I and Type II errors. Non-Parametric Tests: The sign test, rank sum test, the Mann-Whitney U test, advantages and limitations of non-parametric tests.

Unit IV

Tests of Significance

Standard error of the mean, Student's "t" distribution and its properties, Use of the "t" distribution to test hypothesis of the population means. Chi Square: general features of Chi

Square (χ^2), chi square as a test of goodness of fit, chi square as a test of independence. Contingency table and Yate's correction for continuity, testing homogeneity of several independent estimates of population variance. Analysis of variance; meaning, assumptions and techniques of analysis of variance, one way and two-way analysis of variance problem. Inter relationship between "t", Chi square and F tests.

Unit V

Analysis of Time Series

Meaning and components of time series, Methods of estimating trend – the semi average method, the moving average method and the least squares method. Fitting of straight line, second- and third-degree equations. Fitting of the modified exponential curve, Gompertz curve and the logistic curve. Measurement of Seasonal, Cyclical and irregular variations.

Index numbers: Meaning, problems in construction of index numbers. Classification of index numbers, unweighted price index numbers, relative of aggregate method and average of price relatives, Weighted price index numbers: Laspeyre's, Paasche's and Fisher's ideal index numbers. Time reversal test and factor reversal test and chain-based index numbers. Uses and limitations of index numbers.

SUGGESTED READINGS

- Cochran, William G., (1977), Sampling Techniques, 3rd edition, Wiley Eastern Limited, New Delhi.
- Croxton F.E., D.J. Cowden and Sidney Klein, (), Applied General Statistics, Prentice Hall of Indian, New Delhi.
- Gujarati Damodar., (), Basic Econometrics, Second Edition, L.R. Klein.
- Nagar A.L. and R.K. Das, (), Basic Statistics, Oxford University Press, New Delhi.
- Snedecar George and W.G. Chockrane, (), Statistical Methods. Oxford & IBH, New Delhi.
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- Walker H.M. and J. Lev. (1953). Statistical Inference, Holt, Rime hart and Winston, Oxford and IBH Publishing Company, Calcutta.
- Yamane Taro, (), Statistics, Harper International.

DSC Course Code: MABE-123

MONEY AND BANKING

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course, students will be able to:

- understand the concept of money and various approaches related to money.
- explain the functioning of money and capital markets, process of credit creation, role of NBFCs etc.
- interpret demand and supply of money, money multiplier and its determinants and role of RBI.
- analyse the working of monetary policy.
- summarize the role of national and international financial institutions.

Unit – 1

Basic Concepts: Different approaches to the definition of money; Types, role and functions of money inside money and outside money; Measures of Money supply. Traditional quantity theory of money Fisher's equation of exchange; Cambridge cash balance approach; Keynes reformulation of quantity theory of money; Modern quantity theory; Friedman's approach.

Unit – II

Theory of Commercial and Central Banking: Money markets and capital markets; commercial banks. Theories of commercial banking; Process of credit creation; non-bank financial intermediaries (NBFI's); Objectives and role of central banks in economic development; The currency and credit schools; Quantitative and qualitative methods of credit-controls. Review of Narsimham committee report (1991 & 1998 Reports), Digitalisation of Indian Banking system.

Unit – III

The Theories of Demand and Supply of Money: Theories of demand for money; Classical Keynesian and Monetarist. Theories of money supply; The H' Theory of money Supply; Money multiplier process and its determinants; Commercial banks and the money multiplier; Factors affecting 'H' RBI analysis of money supply; Control of the money stock; Money stock and interest rates; monetary equilibrium: money in equilibrium and non-equilibrium states; Neutrality of money. Demonetization: concept, logic, impact.

Unit – IV

Principles of Monetary Policy: Monetary Policy: Its meaning, objectives, framework, targets and indicators of monetary policy; Transmission mechanism of monetary. Policy; Restrictive Vs. accommodating monetary policy; Need and effectiveness of monetary policy; Lags in

monetary policy; Role of monetary policy in developing countries; Monetary and credit planning; Monetarist and Keynesian views on monetary policy.

Unit – V

Indian Money Market and International Financial Institutions: India and NBARD. Reserve Bank of India (RBI); Its working, functions, performance and role in the economic development of India; RBI's monetary policy; International Financial Institutions IMF, IBRD (World Bank), Asian Development Bank (ADB). International Development Association (IDA).

SUGGESTED READINGS

- Chandlar, L. V. and S. N. Goldfield (1977). Economics of Money & Banking, 7/e, Harpar and Row, New York.
- Chick, V. (1977). The Theory of Monetary Policy, 2/e, Basil Blackwell, Oxford.
- Culbertson, J. M. (1971). Macro-Economic Theory and Stabilization Policy, McGraw-=Hill, New York.
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DSC Course Code: MABE-124
HISTORY OF ECONOMIC THOUGHT

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course, students will be able to:

- trace the evolution of the subject matter of economics starting with mercantilists.
- draw inferences about the relevance of classical economics, socialist economic thoughts, historical critiques and Marx in the present context.
- demonstrate the relevance of neo-classical economics and identify contribution of Austrian School.
- explain and interpret Keynesian and Post Keynesian Economics.
- understand basic Indian economic thought.

Unit – I

Mercantilism: Main Principles. Theory of economic development; Views of Keynes, Petty, Hume and Cantillon on Mercantilism: Physiocracy: Natural Order, Agriculture and Product net, social classes. *TableauEconomique*.

Unit – II

The Classical Period: Economic Thought of Adam Smith, David Ricardo, and J. S. Mill with special reference to their views on value, distribution international trade and economic development; Malthus theory of population; Says law of market. Ricardo Malthus controversy on Say's law of market.

Unit – III

Socialistic Economic Thought: Socialist critique of classical economic thought with special references to the views of Saint Simon, Sirmondi and Proudhan. The Historical critics of Classicism, Karl Marx method of Economic analysis. Marx analysis of economic crises. Transformation Problem.

Unit – IV

The Neo-Classical Period: Similarity and differences between classical and neo-classical thought; The Marginal Revolution with special reference to the contribution of the Austrian School, Leon Walras, Jevons, Wickshell and Marshall.

Unit – V

Post Marshalling Development in Economic Theory: Contribution of Joan Robinson, E. H. Chamberlin; J. M. Keynes and Post Keynesian developments in economic theory.

Introduction to Indian economic thought: Economic ideas of Kautilya, Thiruvalluvar, BR Ambedkar, Mahatma Gandhi, JL Nehru, VKRV Rao and Amartya K. Sen.

Note:
Special instructions to paper setter: While setting question(s) out of Indian economic thought (Unit – V) care must be taken to set questions to test basic knowledge of candidate w.r.t Indian economic thought.

SUGGESTED READINGS

- Backhouse. R. (1985). A History of Modern Economic Analysis, Basil Blackwell, Oxford.
- Blaug, M. (1988). Economic Theory in Retrospect, 3/e; Cambridge University Press Cambridge.
- Brue Stanley, The History of Economic Thought.
- Dantawala, M.L., (1964), "Economic Ideology of Jawaharlal Nehru", *EPW*, Special Number, July 1964, pp: 1209 – 1211.
- Dasgupta, A. K. (1985). Epochs of Economic Theory, Oxford University
- Eakelund R. B. and R. Rebert (1983). A History of Economic Theory and Method, 2e, McGraw-Hill, New York.
- Gary, A. and A. E. Thompson (1980). The Development of Economic Doctrines, 2e Longman Group, London.
- Gide. C. and G. Rist, (1956). A History of Economic Doctrines, 2e, George Harrop and company, London.
  Press, Delhi.
- Rima, I. (1978). Development of Economic Analysis, 3e, R. D. Irwin, Homewood.
- Roll, E., (1973). A History of Economic Thought, Faber, London.
- Schumpeter, J. A. (1954). History of Economic Analysis, Oxford University Press, New York.

GE Course Code: MABE125
FUNDAMENTAL CONCEPTS IN ECONOMICS

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcome

By the end of the course student will be able to:

- understand basic concepts of economics.
- understand the budget document.
- evaluate the performance of the Indian economy.
- identify and discuss national and global economic issues.

Unit - I

Definition of economics, nature of economic problem, Concepts and measurement of utility, law of diminishing marginal utility-its practical applications and importance Law of demand, elasticity of demand (price, income and cross)-Measurement, practical importance and applications. Law of supply, elasticity of supply and its practical applications.

Unit - II

Theory of Production: Stages of production function; Returns to factor proportions; Return to scale; Elasticity of substitution; Technical progress and production function; Cost and Revenue Analysis (traditional and modern theories of cost).

Unit - III

Equilibrium of the firm-marginal analysis: Optimum factor combination and product combination. Meaning of market, types-Perfect, Monopoly, Oligopoly, Monopolistic (Main features only).

Unit - IV

Concept of Gross Domestic Product, Gross National Product, National Income and Disposable Income. Aggregate demand and supply (Both open and closed economies) Basic concepts of inflation, deflation, stagflation, business cycles and Balance of Payment (with special reference to India's BOP). Reserve Bank of India (RBI); Its working, functions, performance and role in the economic development of India; RBI's monetary policy

Unit - V

Growth and Structure of Indian Economy Since 1950. Growth of Indian economy since 1950. Trends in the nature and magnitude of poverty, inequality and unemployment. Trends in agricultural and industrial production and productivity. India's developmental pattern-Successes and failures.; India's engagement with International Financial Institutions IMF, IBRD (World Bank), Asian Development Bank (ADB). International Development Association (IDA).

SUGGESTED READINGS

- Baumol. W.J. (1982) Economic Theory and Operations Analysis, 4ed, Prentice Hall of India, New Delhi.
- Bronson, W.H., (1985). Macro-Economic Theory and Policy, Universal Book Stall, New Delhi.
- Da Costa, G.C. (1980) . Production, Prices and distribution, Tata Mc Graw Hill, New Delhi
- Deaton, A. S. & J. Muehlhauser(1980). Economics and Consumer Behaviour, Cambridge University Press, Cambridg3.
- Dornbusch, R. and S. Fischer (1987). Macroeconomics, 4e, McGrawHillKogakusha Tokyo.
- Edgmand, M.R. (1983). Macroeconomics: Theory and Policy, Prentice Hall of India, New Delhi.
- Ferguson, C.E. (1968). Microeconomic Theory. Cambridge University Press, London.
- Friedman. M. (1953). Essays in Positive Economics, Chicago University Press, Chicago.
- Gold, J.P. and C.E. Ferguson. Micro Economic Theory, Irwin Homewood.
- Gould, J.P. and C.E. Ferguson. Micro-Economic Theory. Irwin, Homewood, Illinois.
- Gravel H. and R. Rees (1981). Microeconomics, Longman, London
- Green, H.A.J. Consumer Theory. Philips L. Applied Consumption Analysis.
- Henderson, R. and Quandt, R. Micro Economics Theory. McGraw Hill.
- Hirshleifer, J. (1976). Price Theory and Applications., Prentice Hall, New Delhi.
- Jones, H. G. (1976). An Introduction to the Modern Theories of Economic Growth, Mc Grow Hill Koga-Kusha, Tokyo.
- Kapila, U., (Ed.) (1988). Indian Economy Since Independence, Vol. – I, Academic foundation, New Delhi.
- Koutsoyiannis, A. (1985). Modern Microeconomics, Macmillan, London
- Koutsoyiannis, A. (1985). Modern Microeconomics, Macmillan, London.
- Koutsoyiannis, A. (1986). Modern Microeconomics, Macmillan, London.
- Kreps, D.M. (1992). A Course in Micro Economic Theory., Prentice Hall of India, New Delhi.
- McConnell, C.R. and H.C. Gupta (1987). Introduction to Macroeconomics, Tata-McGraw Hill, Delhi.
- Misra S. K. and Puri V. K. (1993). Indian Economy-its Development Experience, Hinday Publishing House (latest Edition).
- Mitra, S. (Ed.) (1970). Money and Banking, Random House, New York.
- N. Aggarwal (1995). Indian Economy Problems of Development and Planning, WishwaParkashan, New Delhi.
- Ruddar Dutt& K.P.M. Sundaram – Indian Economy, S. Chand Publications(latest Edition).
- Shapiro, Edward (1984). Macroeconomic Analysis, Galgotia Publication, New Delhi.

Varian, H. (1978). Microeconomic Analysis, W.W. Nortion, New York.

DSC Course Code: MABE231
PRINCIPLES OF MARKETING MANAGEMENT

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcome

By the end of the course, students will be able to:

- analyse the marketing opportunities and develop the marketing plans and strategies
- evaluate the marketing information system and explain the role of research in the marketing
- examine the marketing decisions related to the product, price, place and promotion
- identify the foreign markets after understanding export-import regulations and procedures
- design advertising and sales promotion strategies and evaluate the performance of sales personnel
- acquire marketing skills.

Unit-I

Analysing marketing opportunities: Concepts, tasks and philosophies. Information analysis for marketing decisions, Marketing
process, Marketing planning and strategy, Analysing market environment. Consumer markets and buying behaviour, Market measurement and forecasting. Market segmentation and targeting.

Unit-II

Organising for Marketing Activity: Business goals and marketing organisation. Marketing planning. Marketing decision making, Marketing research. Information system and research process. Marketing logistics.

Unit-III

Planning programme: Product policy decisions. Price decisions. Marketing channel decisions. Physical distribution decisions. Managing operations. Forecasting for operations. Capacity planning and facility layout.

Unit-IV

Export marketing: Identifying foreign markets. Organising international market intelligence. International channels of distribution. Export pricing. Export-import regulations and procedures. Financing of exports and imports. Export marketing risks (credit and marine insurance). Export—import policy of India. Export marketing institutional infrastructure.

Unit-V

Advertising and sales promotion decisions: Objectives of advertising. Cost of advertising to the consumer. Factors affecting the successful use of advertising. Selection of media. Message design and advertising appeals. Evaluation of advertising effectiveness. Theories of selling, Sales

related marketing policies. Sales force selection and training. Assignment of territories and motivation. Evaluation and supervision of sales personnel.

SUGGESTED READINGS:

Boyd H.P.. R. Westfall and S.P. Starch. Marketing Research- Text and Cases Richard D. Irwin, Homewood II, 1981

Gandhi J.C. Marketing- A Managerial Introduction. Tata McGrow Hill, New Delhi.

Kotler Philip. Marketing Management: Analysis Planning and Control, Prentice Hall of India, New Delhi.

Majumdar, Marketing Research- Text Applications and Case Studies, Willy Eastern, New Delhi.

Stanton W.J. Fundamentals of Marketing. 10/e addition, Tata McGrow Hill, New Delhi.

DSC Course Code: MABE232
PRINCIPLES OF MANAGEMENT and ORGANISATION BEHAVIOUR

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcome

By the end of the course, students will be able to:

- make use of Management Thought and apply Strategic Management in the business world.
- infer Managerial Decision Making and Decision Making under Risk
- analyse individual and Group Behaviour.
- apply Multinational Management in the present world.
- effectively handle conflict, and stress at the workplace
- acquire managerial skills.

Unit-I

Management function; Evolution of Management Thought; Management Approaches; Social and Ethical Issues in Management; Concept, Importance and Process of Strategic Management.

Unit-II

Managerial Decision Making and Control-Significance of Management Information System in Decision Making; Types and Techniques of Managerial Decisions; Decision Making under Risk. Uncertainty and Conflict. Control Techniques; Quality Control.

Unit-III

Concept of and Approaches in Organisational Behaviour; individual and Group Behaviour, Individual Behaviour and Environment; Role of Motivation-Motivation theories (Maslow, Alderfer, Mechwell and Herzberg); stress and behaviour-Sources of Stress, Consequences of Stress, Strategies for coping with stress.

Unit-IV

Organisational Structure and Development; Types and Determinants of Organisational Structure; Change and Organizational Development; Organisational Culture; Need for Development of a Strong, cross-cultural. Organisational Culture; Multinational Management; Management Challenges today.

Unit-V

Leadership and Organisational; Leadership theories; Inter- Group Relations and Conflicts; Nature, Types, Causes and Management of Conflicts; Role of Communication in Organisational Development-Communicational Net-Work Communication Barriers, Guidelines for Effective Communication.

Suggested Readings:

Chandan, S.S. Management-Theory & Practice.

- Chatterjee, S.S. Principles of Management.
- Dass and Miller. Strategic Management.
- Drucler, P. The Practice of Management.
- Lawless, O.J. Organisational Behaviour.
- Luthans, F. Organizational Behaviour.
- Massie, Joseph, L. Essentials of Management. Newman and Summer. Process of Management. Robina, S.P. Organizational behaviour.
- Mersey and Blanchard. Management of Organisational Behaviour. Hude, E.S. Organizational Development and Change.

DSC Course Code: MABE233
PRINCIPLES OF BUSINESS FINANCE

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcome

By the end of the course, students will be able to:

- identify the sources of finance and classify development banks and lending norms
- analyse the financial statements and prepare the budget after administration
- evaluate the dividend theories and policies and apply programming techniques in capital budgeting
- examine the principles of working capital management and formulate plans for working capital and cash/inventory management
- estimate the cash flow and evaluate the optimum credit policy

Unit-I

Scope and objectives of financial management. Sources of business finance in India. Capital markets. Shares debentures and term loans. New capital market instruments, Lease financing. Mergers and acquisitions. Development banks and lending norms.

Unit-II

Financial statements (balance sheet, Profit and loss account, funds flow statement, Cash flow statement). Financial ratio analysis. Cost-volume-profit analysis. Administration and preparation of budgets. Financial forecasting methods.

Unit-III

Present value of bonds and shares. Dividend theories and policy in practice. Firms of dividends. Management of cost of capital. Capital structure theories. Capital budgeting. Risk analysis in capital budgeting. Application of programming techniques in capital budgeting.

Unit-IV

Principles of working capital management. Determinants of working capital. Planning of working capital. Management of cash. Management of inventory. Finance and control of working capital.

Unit-V

Cash flows estimation. Components of cash flows. Managing the cash flows. Determining cost of capital. Cost of equity. Optimum credit policy. Investment timing and duration. Replacement of an existing asset.

SUGGESTED READINGS

Archer S.R. and C.A.D. Ambrosio. Business Finance: Theory and Management, Macmillan London, 1972.

Fama E.F. and M.H. Miller. Theory of Finance, Holt, Rinehart and Winston, New York, 1972.

Francis, Modern Theory of Corporate Finance, McGraw Hill, New York.

Francis. Management of Investments, McGraw Hill, New York.

Khan M.Y. and P.K. Jain. Financial Management, Tata McGraw Hill, New Delhi, 1982.

Kuchhal S.C. Financial Management, Chaitanya Publishing House, Allahabad, 1982.

Pandey I. M. Financial Management, Vikas, New Delhi, 1982.

Soloman E. and J.J. Pingle. Introduction to Financial Management, Prentice Hall of India, New Delhi, 1982.

Van Horne J.C. Financial Management and Policy, Prentice Hall of India, New Delhi, 1982.

DSE Course Code: MABE234

RURAL MARKETING

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcome

By the end of the course student will be able to:

- understand the working of rural economy, rural - Urban disparities and policy interventions required to boost rural economy.
- analyse the characteristics of rural consumers and the process of their buying decision.
- understand the selection of Markets, product strategy and competitive product strategies for rural markets.
- outline the pricing strategy, innovative pricing methods for rural markets and designing right promotion mix.
- identify and discuss issues related to new approaches to reach out rural markets.

Unit – I

Rural Economy - Rural - Urban disparities-policy interventions required - Rural face of Reforms - The rural development exercisesince 1990.

Unit - II

Rural Marketing - Concept and Scope - Nature of rural markets - attractiveness of rural markets - Rural Vs Urban Marketing - Characteristics of Rural consumers - Buying decision process - Rural Marketing Information System - Potential and size of the Rural Markets.

Unit - III

Selection of Markets - Product Strategy - Product mix Decisions - Competitive product strategies for rural markets.

Unit – IV

Pricing strategy - pricing policies - innovative pricing methods for rural markets - promotion strategy - appropriate media - Designing right promotion mix - promotional campaigns. 2

Unit – V

Distribution - Logistics Management - Problems encountered - selection of appropriate channels - new approaches to reach out rural markets – Electronic croupal applications.

SUGGESTED READINGS

- Agarwal A.N, INDIAN ECONOMY, Vikas Publication, New Delhi.
- Dogra Balaram & Karminder Ghuman, RURAL MARKETING: CONCEPT & CASES, Tata McGraw-Hill Publishing Company, New Delhi, 2008
- Dutt Ruddar Sundaram, INDIAN ECONOMY, Tata McGraw Hill. Publishers, New Delhi.

- Kotler Philip, MARKETING MANAGEMENT, Prentice - Hall India Ltd. New Delhi
- Krishnam charylu CSG &Leitha Ramakrishna, - RURAL MARKETING, Pearson Education Asia. 2009
- Singh A.K. & S. Pandey, RURAL MARKETING: INDIAN PERSPECTIVE, New Age International Publishers, 2007

DSE Course Code: MABE235
ADVERTISING MANAGEMENT

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcome

By the end of the course student will be able to:

- understand the concept of advertising and its types, comparative advertising and communication models in advertising.
- analyse the integrated advertising program, analysis of mission &market objective setting and determining target audience.
- understanding message strategy message &copy in advertising, headlines in print & TV advertising and visualization &layout appeals.
- outline the media types &types of media, media selection, media planning and new perspective in media.
- identify and discuss issues related to advertising organization, evolution &history of advertising Agency and the working of advertising department.

Unit -I

Concepts of Advertising the Field of Advertising, Introduction, Integrated Marketing Communication, Advertising and its types, Comparative Advertising, case study, Communication Models in Advertising

Unit -II

Integrated Advertising Program Analysis of Mission & Market Objective Setting & Determining Target Audience, Understanding Segmentation, Positioning, Budget Decision, case study on Budgets

Unit -III

Understanding Message Strategy Message & Copy in Advertising, Headlines in Print & TV Advertising, Visualization & Layout, AD Appeals, Testimonials & Celebrity Endorsement

Unit -IV

Media Types & Decision Types of Media, Media Selection, Media Planning: New Perspective, Media Decision. Campaign Making Three Phases of Campaign Creation, Steps of Effective Advertising, Upsetting the applecart in the scooterette category In Style! Case study, Understanding Campaigns

Unit-V

Advertising Stake Holders – Advertising Organization, Evolution & History of advertising Agency, The working of AD agencies, Organization Structure of Advertising Department, Interface with other Departments, Functions of Advertising Agency

SUGGESTED READINGS

- Chunawalla S. A., Advertising: An Introduction Text, Himalayan Publishing House
- Chunawalla, S.A. KC Sethia Foundations of Advertising, Himalayan Publishing House
- Kotler & Armstrong Principles of Marketing, Prentice-Hall of India
- Varma & Aggarwal Advertising Management, King Books
- Wells Burnett Advertising Principles and Practice, Moriarty, PHI

AEC Course Code: MABE236

CONTEMPORARY ECONOMIC ISSUES AND DATA HANDLING

Credit	Lecture	Tutorial	Practical
4	3	1	0

Course Outcomes

By the end of this laboratory based hands-on practical training course, students will be able to:

- handle data and solve basic algebraic problems using Excel.
- use different logical and statistical functions in Excel to compute descriptive statistics of a univariate and multivariate data set.
- present data using different types of graphs Using solver in excel student will be able to solve linear equation system and LPP and NLPP.
- The course proposes to develop the capacity of students to analyse and appreciate contemporary economic issues and policy pronouncements. The course will start with an introduction to the basic principles of report writing. Subsequent modules will involve inter-active lectures, group discussions, and group presentations.
- By the end of the course student will be able to present their analysis in the form of a written report.

Unit I

Basics of Microsoft Excel: Opening of Excel File-Workbook and worksheet- Rename of the workbook and worksheet. Brief history of Excel workbook- Advantages and disadvantages of the use of excel for statistical analysis. Location of heading/title bar- menu bar, tool bar- Formulae and function- formula space- cell-cell formatting- data entry-data clearing-copy-cut-paste, paste special – paste value-paste formula-paste transpose of the data set.

Unit II

Data Management: Data transformation: arithmetic operation- addition, subtraction, multiplication, log transformation, exponential, squaring and square root, indices. Use of 'If' function- nested if, sum, sum if, count, countifcountifs, average if, text to numeric and numeric to text using if function, max, min, large value of the data set, concatenate. Sort - ascending and descending, A-Z, sort row wise /column wise. Filter of the data set and create sub sample- filter according to text filter data according to numeric values or conditions, saving the filtered data in separate worksheet. Lookup functions.

Unit III

Descriptive Statistics: (i) Univariate Data: Measures of Central Tendency: mean, median, mode, Trim mean, geometric mean, harmonic mean, Measures of Dispersion: Range, quartile deviation, SD, CV, Gini coefficient, Moments and Order statistics: skewness, kurtosis, rank and percentile (ii) Multivariate Data: Covariance and correlation matrix, partial correlation, rank correlation. Graphical Presentation of Data: Different types of charts and their applications, Scatter diagram and Curve fitting.

Unit IV

Guidance for project writing: Identifying the topic, Review of Literature, Writing Project Report – Referencing Styles and use of referencing software.

Unit V

Analysing economics in the news Writing article about contemporary economic event (National &/or Global) using knowledge of economic theory, Analysis of contemporary Indian Economic Data and Policies Economic survey, budget, annual policy data, RBI, Monthly Economic Data - Ministry of Finance.

Suggested Readings:

- Abbott Martin Lee, Understanding Educational Statistics Using Microsoft Excel and SPSS John Wiley& Sons, Inc. 2011.
- Bal Guruswamy E.: Computer oriented statistical and numerical methods. Macmillan.
- Carver Robert H. and Jane Gradwohl Nash, Doing Data Analysis with SPSS, Cengage Learning.
- George Darren and Paul Mallery, SPSS for windows Step by Step, A simple guide and Reference, Pearson Education.
- Levine David M., David F. Stephan, Timothy C. Krehbiel and Mark L. Berenson, Statistics for Managers Using Microsoft Excel, 5ed, Prentice Hall, Pearson 2008.
- Mathew Johan: Numerical Methods, P-III.
- Schmuller Joseph, Statistical Analysis with Excel for Dummies 3RD EDITION, John Wiley & Sons, Inc. 2013.
- Whigham David, Business Data Analysis Using Excel, OUP 2007.
- Economic and Social Classification of the Budget, available at http://finmin.nic.in/reports/FunClass201415.pdf.
- Finance Commission Report - http://finmin.nic.in
- http://www.unionbudget.nic.in
- Mukherjee Pranab (2012), "Budget Making", in K. Basu and A. Maertens (eds), The New Oxford Companion to Economics in India, OUP.
- The Economists, https://www.economist.com/ The Key to Budget Documents, Budget At A Glance, Macroeconomic Framework Statement, Medium Term Fiscal Policy Statement and Fiscal Policy Strategy Statement, all available at indiabudget.nic.in.

DSC Course Code: MABE241
PROJECT APPRAISAL and INVESTMENT PLANNING

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcome

By the end of the course student will be able to;

- become familiar with financial planning, analysis, selection and implementation and review the capital expenditure investments.
- acquaint themselves with the application of mathematical and statistical tools for analysing managerial problems.
- develop the profitability projections
- develop the strategies employed in managing risk.
- practice project management decisions and Control

Unit-I

Project formulation: Project ideas, feasibility studies, project formulation. Project implementation and control. Management information system for control of projects. Time preference for money. Discontinuing and compounding. Net present value.

Unit-II

Private investment criteria (cost-benefit at market prices). Social cost benefit analysis (social objectives shadow pricing identification of costs and benefits and choice of techniques). Comparative overview of OEGD, UNIDO and World Bank approaches copulation of payback period and internal rate of return.

Unit-III

Application of probability in investment decision Uncertainty and capital budgeting. Expected marginal value approach-Utility approach.

Unit-IV

Present value of bonds and shares. Portfolio theory and risk. Diverse portfolio selection and uncertainty international portfolio investment and foreign exchange risks.

Unit-V

Investment evaluation criteria. Determining cash flow for investment analysis. Weighted average cost of capital and investment evaluation. Investment timing and duration. Replacement of existing assets. Investment decisions under capital rationing. Capital budgeting sensitivity analysis. Sequential investment decision. Strategic aspects of investment decision.

SUGGESTED READINGS

- Chandra Prasanna. Project Preparation, Appraisal and Implementation, Tata McGraw Hill, New Delhi 1980
- Fisher Jordon, Security Analysis and Portfolio Management, Prentice Hall. New Delhi.
- Francis. Management t of Investments, McGraw Hill, New York.
- Francis. Modern Theory of Corporate Finance, McGraw Hill, New York.
- Little I. M. D. and J.A. Mirrless. Project appraisal and Planning for Developing Countries, Heinemann, London, 1974.
- P. Das Gupta. S. Marglin and A.K. Sen. Guidelines for Project Evaluation, United Nations, New York, 1972.
- Pandey I.M., Financial Management. Vikas Publishing House, New Delhi.
- PitaleR.L. Project Appraisal Techniques, Oxford & IBH, New Delhi, 1980.
- Raghunathan Barua and Verma. Portfolio Management, Tata McGraw Hill, New Delhi
- Word W. A., B. J. Deren and E.H. Silva. The Economics of Project Analysis: A Practitioner's Guide, Economics of Development Institute of World Bank, Washington, D.C.

DSC Course Code: MABE242

OPERATIONS RESEARCH in BUSINESS DECISIONS

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcome

By the end of the course student will be able to;

- get knowledge about the scope and application of operations research in business and industry.
- use of various scientific tools and models
- identify and develop operational research models from the verbal description of the real system.
- understand the mathematical tools that are needed to solve optimization problems.
- use mathematical software to solve the proposed models.
- develop a report that describes the model and solving technique, analyse the resultsand propose recommendations in language understandable to the decision-makingprocesses in Management Engineering.

Unit-I

Formulation linear models. Solving linear models of profit maximization and cost minimisation (simplex method). Duality problem. Comparison in neoclassical production theory and linear models (marginal products and marginal costs).

Unit-II

Activity analysis in linear model. Sensitivity analysis Multistage models. Multi-objective and goal programming.

Unit-III

Optimising a nonlinear function of a single variable. Quadratic programming. Separable programming Integer programming.

Unit-IV

Optimisation in networks(Transportation problem and shortest-route models). Dynamic Programming (A simple case and a multi-period problem) Multi-period and Recursive planning.

Unit-V

Decision theory: Decisions under risk and uncertainty. Markovian decision process. Game theory: Maximin and Minimax Principle of game theory. Mixed strategies, graphical solution of2xn and mx2 games. Interrelation between game theory and linear programming.

SUGGESTED READINGS

Day, R. H. (1963). Recursive Programming and Production Response, North Holland Publishing company.
Dixit, A.K. (1976). Optimisation in Economic Theory, Oxford University Press.
Hadley, G. (1964). Non-Linear and Dynamic Programming. Addison
Intriligator, M.D. (1971). Mathematical Optimisation and Economic Theory, Prentice Hall, Englewood cliffs, New Jevsey.
Jacobs, L.R. (1967). An Introduction to Dynamic Programming, Chepman and Hall, London.
Mulls, Gordon (1984). Optimisation in Economic Analysis, Heritage Publishers, New Delhi.
Wagner, H.B. (1975). Principles of Operations Research with Applications to Management Decisions, Prentice Hall, New Delhi.

DSC Course Code: MABE-243
POST GRADUATE PROJECT
Course Credits: 6

Course Outcome

By the end of the course, students will be able to:

- prepare a project report
- analyse various aspects of the business environment
- design and administer data collection toolsand conduct primary investigation successfully
- understand business environment

Guidelines for PG Project

Students are encouraged to undertake PG Project work based on a combination of primary and secondary data/information. The project will be confined to courses of study of the III and IV semesters (excluding Industrial Economics) and shall be reported as per standard stylesheet.

1. Project

a) Each student will undertake an individual project ideally of 60-80 pages and will be reported in on A4 size paper in Times New Roman Font. Font size: Main Heading =16; Sub Heading=14 & Text 12. Line spacing 1.5 and margins 1" top, bottom & right margin and 1.5" on left margin. Font size for tables/figures may be suitably adjusted. The project is to be printed on both sides of the paper using mirror margins. **IMPORTANT:** A project of less than 50 pages in this specified format *will not* be accepted for evaluation.

b) The project work will be carried out in consultation with the supervisor allotted to each student for the purpose.

c) A seminar of the project proposal will be presented to the department council and Students to help finalize the topic & methodology of the proposed project prior to its commencement.

d) Pre submission seminar will be presented to the Department Council and only upon approval will the Dissertation be submitted for evaluation.

2. Project – Chapters and Content

i) Introduction- including Need and Objectives
ii) Methods and Materials –Sampling procedure, tools of analysis, figures etc. and Limitations. **IMPORTANT:** At the time of Seminar [1c) above], in place of "Limitations", "Expected Outcome" will be reported.
iii) Data Analysis
iv) –do-
v) Summary and Conclusion
References
Annexure (Annexure I will be the Questionnaire/Interview schedule).

NOTE: The number of Chapters pertaining to data analysis may vary in accordance with the objectives. Here Chapters iv, & v are shown as an example.

DSE Course Code: MABE244
BUSINESS ENVIRONMENT

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcome

By the end of the course student will be able to;

- understand the concept of business environment, interaction between business and environment and classification of environmental factors on business.
- assess the working of economic policies i.e., industrial policies, trade policies, fiscal and monetary policies
- analyse the legal framework of business regulatory institutions- TRAI, SEBI and IRDA.
- understand the Social Responsibilities of Business and Corporate Social Responsibilities
- outline the drivers and effects of globalisation and benefits and problems of MNCs.

Unit-I

Introduction to Business Environment: Definition and Scope – Characteristics of business, business goals – economic, social strategic goals. Meaning and concept of Business Environment – Interaction between business and environment – Classification of environmental factors on business.

Unit-II

Economic Environment – Meaning and critical elements of environment – economic systems – objectives of economic planning. Economic reforms – evaluation of Five-Year plans. Institutional financing – IDBI, SFC, ICICI. Capital Market and its features. Economic Policies – Industrial Policies – Trade policies – Fiscal and Monetary Policies – Economic Development and Role of Government – Small Scale and Cottage industries.

Unit-III

Politico – Legal Environment: – Political Institutions – Legislative – Executive and judiciary – Constitution of India – Fundamental rights – Directive Principles of State policy – Business Responsibilities to Government – Government responsibilities to business – Legal framework of Business Regulatory Institutions- TRAI-SEBI-IRDA.

Unit-IV

Socio-Cultural Environment – Business and Society – Objectives of Business – Social Responsibilities of Business – Corporate Social Responsibilities. Business and culture – Cultural dimensions –Business Ethics – Corporate Governance.

Unit-V

Global Environment – Globalization – Drivers and effects of Globalization – Benefits and problems of MNCs – WTO – Foreign Direct Investment – (FDI) Foreign Institutional Investors (FIIS).

SUGGESTED READINGS

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- Cherunilam Francis, Business Environment Text and Cases, Himalaya Publishing
- Company Limited, 2010.
- Fernando A.C, Business Environment, Dorling Kindersley India Pvt. Ltd, 2011.
- Pailwar Veena Keshav, Business Environment, Prentice Hall of India Private
- Paul Justin Limited, 2014. Business Environment: Text and Cases, Tata McGraw-Hill Publishing Company Limited, 2008.
- Sukumar Nandi, International Business Environment, McGraw-Hill Education
- Worthington Ian and Chris Britton, The Business Environment, Pearson Education Limited, 2014.

DSE Course Code: MABE245
INDUSTRIAL ECONOMICS

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcome

By the end of the course student will be able to;

- understand and distinguish the process of industrialization.
- make use of theoretical construct of firm and pricing and outline welfare implications.
- apply concepts of market structure, industrial concentration, diversification and vertical integration to classify and examine markets with special reference to India.
- outline the theoretical framework for industrial location and regional growth in India. Analyse dimensions of industrial finance in India.
- identify and discuss issues in Indian industry such as industrial sickness, capacity utilization, foreign collaboration etc.

Unit – I

The scope of Industrial Economics. Organization of industry. Changing forms of industrial organization. Process of industrialization

: Rationale, objectives, strategies and polices. Employment implications of industrialization. Appropriate industrial technology for LDSLs. Industrialization and economic development. Patterns and phases of industrial growth and changes in industrial structure.

Unit – II

Theory of firm and pricing. Objectives of the firm: profit and non-profit maximizing models of the firm. Bans theory of limit pricing;

Marginal cost versus full cost pricing; Allocation of costs in case of joint products; Welfare implications of monopoly pricing. Investment decision; conventional and modern approaches; risk, uncertainty and investment decision.

Unit – III

Market structure, conduct and performance and interrelations among them. Industrial concentration: concepts and measurement; Extent, causes and likely effects of concentration. Analysis of diversification, Vertical integration and mergers in industry. Extent of monopoly and concentration in India; Public policy towards industrial concentration and monopoly power in India.

Unit – IV

Industrial location: Theories and factors affecting location; infrastructure for industrialization; Regional growth of industry in India. Tools of public policy. Indian policy for backward areas. Industrial finance in India. Role of term-leading institutions in industrial development of India. Indian capital market.

Unit – V

Issues in Indian industry: Phases of industrial growth and changes in industrial structure n India. Public sector rationale and organization; Public sector pricing policies. The question of efficiency in the context of special constraints; Over-al performance of public sector in India. The concept of joint-sector in India. The problems of industrial sickness; Capacity utilization. Foreign collaborations; Multinationals in Indian joint ventures aboard. The recent

liberalization trends. Large versus small scale industry debate in India.

SUGGESTED READINGS

- Ahluwalia, I. J. (19850. INDUSTRIAL growth in India. Oxford University Press, Delhi.
- Andrews, p. and T. Wilson, Eds, (1951). Studies in the Price Mechanism, Oxford University Press, London.
- Bagchi, A. and M. Banerjee, eds. (1979). Change and Choice in Indian. Industry. Bagchi Publications Calcutta.
- Bain, Joe (1967). Industrial Organization, 2e, John Wiley, New York. Clarkson., K. W. and R. Miller (1985). Industrial organization, Theory
- Barthwal, R. (1984). Industrial Economics, 2e, Wiley Eastern Ltd., New Delhi.
- Bhagwati J. and P. Desai (1972). India: Planning for Industrialization.
- Brahmananda, P. R. & V. R. Panchmukhi (Eds.), (1987). The Development Process of Indian Economy. Himalaya Publishing House, Bombay.
- Byrce D. Marray (1960). Industrial development. A Guide for Accelerating Economic Growth, McGraw Hill Book Company, New York.
- Das, N. (1969). The Public Sector in India, Vora & Company, Bombay.
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- Godbole, M. D. (1973). Industrial Dispersal Policies, Allied Publishers, Bombay.
- Gupta, L. C. (1969). The Changing Structure of Industrial Finance in India, Oxford University Press, Delhi.
- Hannah, L. & Kay, J. (1977). CONCENTRA TION OF modern Industry, Macmillan, London.
- Isard, W. (1956). Location and Space Economy, John Wiley, New York.
- Khan M. I. (1981). Indian Financial Systems. Allied publishers, New Delhi.
- Koutsoyiannis, a. (1979). Modern Microeconomics, 2e, Macmillan, New York.
- Menou, KSV (1979). Development of Backward Areas Through Incentives, Asia Publishing House, Bombay.
- Reserve Bank of India (1985). Foreign Collaboration in Indian Industry. R. B. I. Bombay.
- Sandersara, J. C. (1982). Industrial Growth in India: Performance and Prospects; Lala Lajpatrai College Bombay.
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- Scharer, F. M. (1971). Industrial Market Structure and Economic Performance, Chicago University Press, Chicago.
- Smith, D. M. (1971). Industrial Location: An Economic and Geographic Analysis, John Wiley, New York.
- Thakur, Srinivas V. (1985). Industrialization and Economic Development, Popular Parkashan, Bombay.
- Wiles, P. J. D. (1963). Price-cost and Output, F. Praeger, New York. UNIDO (1972). Guidelines for Project Evaluation, UNIDO, Publication.

GE Course Code: MABE246
ECONOMY OF HIMACHAL PRADESH

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course student will be able to:

- To understand the various socio-economics issues of the economy of Himachal Pradesh
- To examine the problems and prospects of agricultural and horticultural activities of Himachal Pradesh.
- To know the industrial, power, labour welfare and skill development issues related to the Himachal Economy.
- To analyse the role infrastructural and tourism in the economic development of the Himachal Pradesh

Unit I

Features of Himachal Pradesh Economy: Resource endowment - Land, Water, Minerals, Forests, Demographic Trends, Human Development Index. Trends in State income – Structural growth before and after reforms, Sources of State Finances. Targets and Achievements of Plans, Budget. Growth trends in GSDP.

Unit II

Agriculture and Horticulture of Himachal Pradesh: Role of Agriculture and Horticulture in State Domestic Product Cropping pattern, Productivity and yield of major crops, Agricultural marketing, Agricultural finance, Marginalization and Agricultural Diversification in Himachal Pradesh. Trends in Fruit and vegetable Production and Productivity. Critical evaluation of government policies on agriculture and horticulture sector.

Unit III

Industrial and Power Sector of Himachal Pradesh: Trends and patterns in industrial growth, large scale and MSME industries in Himachal Pradesh, Labour Welfare measures and skill development programmes. Trends in hydro power generation in Himachal Pradesh. Environmental issues related to Industrialization and power projects in Himachal Pradesh.

Unit IV

Infrastructure and Tourism of Himachal Pradesh: Transport: road, rail and air. Banking, Housing, Social Welfare, Education and health programmes of the State Government. Role of Tourism in the economic development of Himachal Pradesh. Spillover effect of tourism development.

Unit V

Himachal as a model for hill development. Successes and pitfalls of planned development in Himachal Pradesh. Resource mobilization for this special category state. Growth potential and possibilities of rural modernization. Gender dimension of human capital formation in Himachal Pradesh.

SUGGESTED READINGS

- Balokhra, JM (2021), The Wonderland Himachal Pradesh: An Encyclopedia on a tiny state of Western Himalaya, Vols. I & II, HG Publication, New Delhi
- Economic Survey, Various Issues, Department of Economics and Statistics, GoHP.
- Himachal Pradesh Development Report, Planning Commission. GoI.
- Parmar, Y.S., Years of Challenge and Growth, Rubicon Publishing House.
- Sharma L.R., (2005), Quality of Life in Himalayan Region, Indus Publishing.
- Sharma, L.R. (1987), The Economy of Himachal Pradesh: Growth and Structure: A Study in Development Performance, Mittal Publishing.
- Singh, Mian Govardhan, History, Culture and Economy of Himachal Pradesh, Minerva Book House.
- Tiwari, Ashok Kumar, (2000), Infrastructure and Economic Development in Himachal Pradesh, Indus Publishing.

DEPARTMENT OF ECONOMICS

HIMACHAL PRADESH UNIVERSITY

[NAAC Accredited 'A' Grade University]

Summer Hill, Shimla-171005

Regulations and Syllabus

Post Graduate Diploma in Population Studies

Annexure 'C'

[CBCS]

Approved by Board of Studies held on 17.11.2022

Approved by Faculty of Social Sciences

Department of Economics

Syllabus for Post Graduate Diploma in Population Studies (PGDPS)

The following Credit Based Credit Scheme for Post Graduate Diploma in Population Studies (PGDPS) to be offered by the PG Centreto regular students enrolled in the department only, prepared and proposed by the Department Council for implementation w.e.f. the academic session 2022-23 onwards was considered and approved by PG BoS on 17/11/2022 and by Faculty of Social Sciences on…….The scheme is placed before the Academic Council/ Executive Council for consideration and approval.

Table 1: Semester wise Courses with Codes, Credits, Contact Hours and Marks Scheme

Semester	Course Code	Nature of Course	Course Name	Credits	Theory Contact Hours (L-5Hrs/Tutorial -1 hour)		Marks Scheme	
					Lecture Credits	Tutorial (Seminar/ Assignment/GD/ Quiz) Credits	Theory	Internal Assessment
I	PGDP111	DSC	DEMOGRAPHIC TECHNIQUES	6	4	2	80	20
	PGDP112	DSC	ECONOMIC OF POPULATION	6	4	2	80	20
	PGDP113	DSC	PROJECT	6	4	2	80*	20*
			Sub Total -1	**18**	**12**	**06**	**Marks=300**	
II	PGDP121	DSC	BASIC STATISTICS	6	4	2	80	20
	PGDP122	DSC	POPULATION AND DEVELOPMENT	6	4	2	80	20
			Sub Total -2	**12**	**08**	**04**	**Marks=200**	
			Grand Total* (1+2)	**30**	**20**	**10**	**Total Marks = 500**	

NOTE: In Reference to Table 1 The Following Points A) and B) are relevant:

A) Course code descriptions: the codes for courses on offer is explained as follows:

1. Discipline Specific Core Courses (DSC), e.g., PGDPS111

Here: In **PGDPS**: **PGD** denotes Post Graduate Diploma; PS denotes Population Studies. Similarly, 1**21** represents 1st year, 2nd Semester 1st Course.

2. 80* marks for Dissertation and 20* marks for Viva Voce by External Examiner(s) (i.e., from university other than HPU) specifically for PGDPS113 – i.e., Project.

B) General Information

1. Number of seats, eligibility, basis of admission, age limit, reservation, fee structure, scheme of examination and qualifying marks will be as per the University rules as prescribed in the Himachal Pradesh University Ordinance and Handbook of Information from time to time.
2. In case of ambiguity or conflict in provisions, the HP University Ordinance shall prevail.

II SCHEME OF COURSES

Courses on offer are as follows:

Table 2: The number & type of courses to be completed in each semester

Courses	Semesters		ALL Semesters (I & II)
	I	II	
Discipline Specific Core Courses	**03**	**02**	**05**
(DSC) including Project			
Total Number of Courses	**03**	**02**	**05**

1. **Discipline Specific Core Compulsory Courses (05 Core Courses; {Core})**

   The syllabi for all DSC courses are specified in five units (except Project). Each question paper shall consist of ten questions in all i.e., two questions from each of the five units. The candidates are required to attempt five questions in all, selecting one question from each unit.

A student is required to complete **four** Core Courses and **one** Project over the one year duration of the course.

III SCHEME OF EXAMINATION

MARKS Allotted to each paper:

Each DSC Course shall be of 100 marks and qualifying marks in each Course shall be 40 per cent. The break up is as follows: 32 marks out of 80 (i.e. 40 % of 80) and 8 marks out of 20 (i.e. 40 % of 20).

a) For this course offered only by Department of Economics, PG Centre, HPU for the students enrolled in PGDPS in PG Centre, the distribution of 100 marks for DSC courses shall be 80 for Theory and 20 for Internal Assessment (except for Project in the 1st Semester). The Internal Assessment of 20 marks shall comprise of 5 marks each for:
i) Class Test(s), ii) Assignment(s) and iii) Presentation(s)/Seminar(s) and iv) attendance.

Marks for attendance are given as per following criteria:

>75% but < 80%	:	1 Mark
80% to 85%	:	2 Marks
>85% but <90%	:	3 Marks
90% to 95%	:	4 Marks
>95%	:	5 Marks

b) For students who are working/employed, a shortfall in attendance may be made up by additional assignments and seminar presentations.

c) Project will be:
- supervised by faculty who are teaching PGDPS classes.
- evaluation will be of 80 marks for Dissertation and 20 marks for Viva Voce by an External Examiner (i.e., from university other than HPU) duly recommended by the Department Council and approved by the competent authority, specifically for PGDPS113 – i.e., Project.
- Not more than 7 projects will be evaluated by one external examiner.
- Remuneration for Evaluation of Project, Viva Voce and TA/DA claim of external Examiner(s) will be borne by this University.

IV FORMAT OF QUESTION PAPERS

i. Each question paper shall consist of ten questions carrying equal marks in all i.e.,two questions from each of the five units.

ii. The candidates are required to attempt five questions in all, selecting one question from each unit i.e. 16 marks x 5 questions = 80 marks.

iii. The duration of each paper will be three (3) hours.

Post Graduate Diploma in Population Studies (PGDPS)
Programme Outcome

Over the duration of study, this course is expected to assist the candidate by:

- facilitating promotion of employees and strengthening their bio-data.
- serving as an on-the- job-training to facilitate career advancement.
- inculcating a understanding of concepts, theory and issues in population studies.
- Building confidence to apply these leanings to their subsequent professional places.

DSC Course Code: PGDP111

DEMOGRAPHIC TECHNIQUES

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course, students will be able to:

- measure fertility, mortality and sex ratios
- acquire techniques to make projections for future planning
- measure of migration rates
- systematize delivery of health protection cover
- undertake area analysis

UNIT-1

Components of Population Change, Fertility Levels, Trends and differentials in developing and developed countries, Proximate and socio- economic determinants of fertility, Sources of data and measures of fertility, Birthorder parity, Parity progression ratio, Measures of productivity, Indirect methods of estimation of fertility, Reverse survival method, Rele method, The P/F ratio method and the own children method.

UNIT-II

Mortality: Levels and trends in developing and developed countries, Causes of mortality, Sources of data and measures of mortality, Maternal mortality rate, concepts and construction of life tables, abridged life table and construction of life table from incomplete data, Age-sex composition of population and its determinants, Nuptiality: concepts and sources of data, measures of nuptiality, estimates of nuptiality, Mean age at marriage from censusdata, Estimation of singulate mean age at marriage from the census data by using Hejnal's method and by Agarwal's method.

UNIT-III

Estimation of migration: Levels and trends of migration in developing anddeveloped countries, Determinants and consequences of migration. Lifetime andinternal migration from place of birth data from duration of residence data, fromplace of last residence data and from residence at a time prior date data, Indirect measures of Net Internal Migration: National growth rate method, Vital statistic method and survival ratio method, Problems of base population in estimation of migration.

UNIT-IV

Urbanization: Growth and components of population, Degree and tempo of urbanization, Distribution of urban population by urban locality, size, class, concentration of urban population, Labour force: concepts (dependency, gainful work and labour force or current activity concepts), Sources of data and measures of labour force and its unemployment, Estimation of supply and demand for manpower.

UNIT - V

Population projections: Need and uses of population estimates, Methods of obtaining population estimation, Component method of population estimation, (Mathematical methods, Arithmetic, geometric; second degree, exponential, modified exponential, Gompertz and Logistic methods).

Note for paper setter:

- All proofs in to be avoided, Questions should be application-oriented;
- Student shall be allowed the use of their own calculators with six simple functions;
- Wherever statistical tables are required for reference by the student, the examiner is requested to provide 3 or 4 statistical values.
- The examination in this course shall be of three-hour duration. Ten questions in all, with two questions from each unit shall be set in the examination. The examiners shall be required to attempt five questions in all selecting one question from each unit.

SUGGESTED READINGS

- Agarwal, S.P. (1969), Manpower Supply-Concepts and Methodology, Meenakshi Prakashan, Meerut, India.
- Agarwal, S.P. (1970), Manpower Demand-Concepts and Methodology, Meenakshi Prakashan, Meerut, India.
- Barday, G.W. (1958). Techniques of Population Analysis, John Wiley& Sons, New York.
- Bhende, A. and T. Kanitkar. Principles of Population Studies, HimalayaPublishing House, Bombay.
- Pathak, K.B. and F. Ram. Techniques of Demographic Analysis,Himalaya Publishing House, Bombay.
- Rogue, D. J. (1971). Principles of Demography, John Wiley, New York.
- Shryok, H. and J.S. Siegel, (1976). Methods and Material ofDemography, Academic Press, New York,
- United Nations. Indirect Techniques for Demographic Estimation, U.N. Publications, New York.

DSC Course Code: PGDP112
ECONOMIC OF POPULATION

(Common with M.A. Economics)

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course, students will acquire:

- enhanced general awareness of the relationship between economics and population
- analytical insights and knowledge population processes, structure and distribution
- ability to analyse total and per capital output
- competence to develop plans, policies and strategies of economic development
- deeper insights into economic inequalities and inequities

Unit – I

Early theories of population (Malthus, Ricardo, Marx, J.M. Keynes and others). Effect of Pre- industrial technological and institutional changes onpopulation. Demographic transition. The concept of optimum population.

Unit – II

Economic determinants of fertility: new household economics (Leibenstein theory and Gary Becker's Theory). Alternative economic approaches to fertility theory (Easterlin's and Caldwell's theories).

Unit – III

Cost and values of children and their effects on fertility, Supply of childrenand elements of uncertainty for the parents. economic determinants of Nuptiality (marriages and divorce), Gary Becker's model. Economic determinants of mortality.

Unit – IV

economic determinants of migration (Regenstein's, Lee's and Todaro's Model). Economic consequences of population growth (General views of Malthus, Marx, Simon Kuznets). Economic consequences of population growth (Dual sector models of Lewis, Ranis Fei and Jorgenson's).

Unit – V

Effects of population growth on Savings and investment, population growth and Labour supply, population growth and distribution of income. Effects of population growth on educational and human capital input facilities. Economic consequences of slowing population growth and populationdecline. Policy issues related to population and economic growth.

Note for paper setter:

The Examination in this course shall be of three-hour duration. Ten questions in all, with two questions from each unit, shall be set in the examination. The examiners shall be required to attempt five questions inall, selecting one question from each unit.

SUGGESTED READINGS

- Agarwala, S. N. (1972). India's Population Problem, Tata McGraw Hill,Bombay.
- Bhende, A.A. and T. Kanitkar. Principles of Population Studies, HimalayaPublishing

House, Bombay.

- Boque, D. J. (1971). Principles of Demography, John Willey, New York. 14.Registrar General of India, Census of India, Government of India, New Delhi.
- Coale, A. J., and F.M. Hoover, (1958). Population Growth and Economic Development in Low Income Countries: A Case Study of India's Prospectus, Princeton University Press, Princeton.
- Davis, K. (1972). World Urbanization: 1950-70. Vol. II, Population Monograph Series, No. 9. University of California, Barkley.
- Everett S. Lee, A Theory of Migration Demography, February 1996.10.Books
- Fred Arnold, et. al., The Value of Children, A Cross-National Study, Vol.1 (East-West Population Institute, 1975).
- Gary Becker, an Economic Analysis of Fertility, in National Bureau of Economic Research, Demographic and Economic Change in Developed Countries, (Princeton University Press, 1960), pp. 209-240.
- Gary S. Becker, A Theory of Marriage, in T.W. Schultz, ed., Economics ofthe Family (University of Chicago, 1974), pp. 299-344.
- John C. Caldwell, Towards a Restatement of Demographic Transition Theory, Population and Development Review, Vol. 2, Nos. 3-4, Septemberand December 1976, pp. 321-366.
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- Thomas Malthus, A Summary View of the Principles of Population, in D.V. Glass, ed., An Introduction to Malthus, Watts and Co., London, 1953,pp. 117-181.
- Thomas P. Espenshade, The Value and Cost of Children, PopulationBulletin, Vol. 32, No. 1, 1977, pp. 3-32 only.
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- Weeks, J.R. (1978). Population: An Introduction to Concept and Issues. Wadsworth Publishing Co., Belmont, California.

DSC Course Code: PGDP113
PROJECT
Credit-6

Course Outcome

By the end of the course, students will be able to:

- prepare a project report|
- analyse various aspects of the business environment|
- design and administer data collection tools and conduct primary investigation successfully|
- understand business environment|

Guidelines for PG Project

Students are encouraged to undertake PG Project work based on a combination of primary and secondary data/information.

1. Project

a) Each student will undertake an individual project ideally of 60-80 pages and will be reported in on A4 size paper in Times New Roman Font. Font size: Main Heading =16; Sub Heading=14 & Text 12. Line spacing 1.5 and margins 1" top, bottom & right margin and 1.5" on left margin. Font size for tables/figures may be suitably adjusted. The project is to be printed on both sides of the paper using mirror margins. **IMPORTANT:** A project of less than 50 pages in this specified format *will not* be accepted for evaluation.

b) The project work will be carried out in consultation with the supervisor allotted to each student for the purpose.

c) A seminar of the project proposal will be presented to the department council and Students to help finalize the topic, methodology and latest version of the stylesheet (APA/MLA etc) in respect of the proposed project prior to its commencement.

d) Pre submission seminar will be presented to the Department Council and only upon approval will the Project be submitted for evaluation.

2. Project – Chapters and Content

i) Introduction - including Need, Objectives, Hypothesis
ii) Methodology and Materials – Sampling procedure, tools of analysis, figures etc.) and Limitations. **IMPORTANT:** At the time of Seminar [1c) above], in place of "Limitations", "Expected Outcome" will be reported.
iii) Data Analysis
iv) –do-
v) Summary and Conclusion
References
Annexure (Annexure I will be the Questionnaire/Interview schedule).

NOTE: The number of Chapters pertaining to data analysis may vary in accordance with the objectives. Here Chapters iv, & v are shown as an example.

DSC Course Code: PGDP121
BASIC STATISTICS

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course, students will be able to:

- acquire and apply statistical techniques in the empirical analysis of economic relationships.
- understand and infer from the process of data collection and various sampling methods.
- construct and interpret index numbers for economic variables. Measure and evaluate components of time series.
- apply, solve and prove various probability theorems using appropriate probability distributions.
- understand, explain, solve and apply hypothesis testing and selection of appropriate techniques for testing hypotheses.

UNIT- I

Measure of Central Tendency, Dispersion, Skewness and Kurtosis. Correlation; Meaning and methods of measuring correlation, Karl Pearson's method, Spearman's Rank Correlation coefficient, Limitations of Correlation analysis. Linear Regression; relation between correlation coefficient and regression coefficients, Fitting of regression equations, Standard error of estimates.

UNIT- II

The General Linear Regression Model

An Introduction to the matrix formulation and solution of the general linear regression Model. Solution for a model with one dependent and two independentvariables. Prediction for simple regression models of demand, supply, productionand cost. Multiple and partial correlations and regressions. Relationship betweenthe measures of multiple correlation and measures of partial correlation, Beta coefficients.

UNIT- III

Tests of Significance

Standard error of the mean, Student's "t" distribution and its properties, Use of the "t" distribution to test hypothesis of the population means. Chi Square: general features of Chi Square (χ^2), chi square as a test of goodness of fit, chi square as a test of independence. Contingency table and Yate's correction for continuity, testing homogeneity of several independent estimates of population variance. Analysis of variance; meaning, assumptions and techniques of analysisof variance, one way and two-way analysis of variance problem. Inter relationshipbetween "t", Chi square and F tests.

UNIT- IV

Analysis of Time Series

Meaning and components of time series, Methods of estimating trend – the semiaverage method, the moving average method and the least squares method. Fittingof straight line, second and third degree equations. Fitting of the modified exponential curve, Gompertz curve and the logistic curve. Measurement of Seasonal, Cyclical and irregular variations.

UNIT- V

Index numbers: Meaning, problems in construction of index numbers. Classification of index numbers, unweighted price index numbers, relative of aggregate method and average of price relatives, Weighted price index numbers: Laspeyre's, Paasche's and Fisher's ideal index numbers. Time reversal test and factor reversal test and chain based index numbers. Uses and limitations of indexnumbers.

SUGGESTED READINGS

- Agarwal B.L., (1977). Basic Statistics, New Age International Limited,New Delhi.
- Croxton F.E., D.J. Cowden and Sidney Klein. Applied General Statistics,Prentice Hall of Indian, New Delhi.
- George Snedecar and W.G. Chockrane. Statistical Methods. Oxford &IBH, New Delhi.
- Gujarati Damodar. Basic Econometrics, Second Edition, L.R. Klein.
- Gupta S.P., Statistical Methods, Sultan Chand & Sons, New Delhi.
- Nagar A.L. and R.K. Das. Basic Statistics, Oxford University Press, NewDelhi.
- Singh S.P., (1996). Statistics. S. Chand & Company, New Delhi.
- Spiegel M... Theory and Practice of Probability and Statistics, Schaum'soutline ser es, McGraw Hill.
- Taro Yamane. Statistics, Harper International.
- Walker H.M. and J. Lev. (1953) . Statistical Inference, Holt, Rime hart andWinston, Oxford and IBH Publishing Company, Calcutta.

DSC Course Code: PGDP122

POPULATION AND DEVELOPMENT

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcome

By the end of the course, students will be able to:

- know and be aware of determinants of development
- examine population impact on development processes
- understand impact of population on environment and on health
- formulate policy perspective on migrations and regulation.

UNIT-I

Indicators and determinants of development, Components of population growth, Measures of population change (i.e., growth, structure and distribution). History of World Population Growth, Population trends during ancient to modern times, Regional variations in rates of growth of population by broad regions of the world, Population density in different regimes.

UNIT-II

Population Theory: The classical and neo-classical schools of economics and population theory, Socialist and Marxist writings on population, Optimum Population Theory, The theory of demographic transition.

Modernization and demographic change: Fertility transition, Mortality transition, Modernization and migration, Inter-relationship between population and development: Effects of economic development on demographic parameters (effect on mortality, fertility and migration), Population growth and development: effect of population growth on development.

UNIT-III

Resources and Population: Natural resources: Classification, factors affecting supply of and demand for natural resources, Population and land use,Population and environment, Demographic aspects of saving and investment,technology and development of human resources, Rapid population growth and education and health services, Population growth and productivity, Age – distribution and productivity, Demographic and economic determinants of labour supply, Work participation rate and development, Growth and Structure of labour force with development.

UNIT-IV

Population and Development Planning: Concepts and objectives of planning, need to

view population planning as an integral part of overall development planning, Strategy for planning, Demographic considerations in Planning: Problem, policies and requirements of housing, food production, education, rural development, health, poverty eradiation, urban development and employment.

UNIT-V

Population Policies: Concepts and issues, indicators and principal featuresof population policy, fertility, mortality and migration influencing policies, World population plan of actions, Family Welfare Programme, Population policies and programme in India.

SUGGESTED READINGS

- Bain John, (1990), Demographic Change and Asian Labour Markets in the (1990's) Population and Development Review, Vol. 1(4): 615-645.
- Boserup Easter, "Environment, Population, and Technology in Primitive Societies", Population and Development Review, Vol. 2, No.1, 1976.
- Boserup Easter, The Conditions of Agriculture Growth, Aldine- Atherton, New York, 1965.
- Kuznets Simon, Modern Economic Growth, Yale University Press, New Haven, 1966 (Chapter 2, "Growth of Population and Product").
- Mishra R.S. (1990), Economic of Growth and Developing, Somaiya Publication Pvt. Ltd.
- Ray T. K. and G. Rama Rao (1984), Introduction in Evaluation of Demographic Impact of Family Planning Programme, Himalaya Publishing House, Bombay
- Todaro, M. 1981, Economic Development in the Third World, Longman, London.
- United Nations (1979), The Methodology of Measuring the Impact of Family Planning Programme on Fertility, Manual IX, Population Study, No. 66, New York.
- United Nations, (1993), Population Policies and Programmes, Department of Economics & Social Informal & Policy Analysis, New York.
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DEPARTMENT OF ECONOMICS

HIMACHAL PRADESH UNIVERSITY

[NAAC Accredited 'A' Grade University]

Summer Hill, Shimla-171005

Regulations and Syllabus

M.A. Programme in Economics

Annexure 'A'

[CBCS]

Approved by Board of Studies held on 17.11.2022

Approved by Faculty of Social Sciences

Department of Economics

Syllabus of Master of Arts in Economics (MA Economics)

The following Choice Based Credit System for M.A. in Economics to be offered by the PG Centre to regular students enrolled in the department only, prepared and proposed by the Department Council for implementation w.e.f. the academic session 2022-23 onwards was considered and approved by PG BoS on 17/11/2022 and by Faculty of Social Sciences on ……. The scheme is placed before the Academic Council/ Executive Council for consideration and approval.

Table 1: Semester wise Courses with Codes, Credits, Contact Hours and Marks Scheme

Semester	Course Code	Nature of Course	Course Name	Credits	Theory Contact Hours (L-4Hrs/Tutorial -2 hour)		Marks Scheme	
					Lecture Credits	Tutorial (Seminar/ Assignment/GD/Quiz) Credits	Theory	Internal Assessment
I	ECON111	DSC	Micro-Economics	6	4	2	80	20
	ECON112	DSC	Elementary Mathematics for Economics	6	4	2	80	20
	ECON113	DSC	International Economics	6	4	2	80	20
	ECON114	DSC	Labour Economics	6	4	2	80	20
			Sub Total -1	**24**	**16**	**8**	**Marks=400**	
II	ECON121	DSC	Macro-Economics	6	4	2	80	20
	ECON122	DSC	Basic Statistics	6	4	2	80	20
	ECON123	DSC	Money and Banking	6	4	2	80	20
	ECON124	DSC	History of Economic Thought	6	4	2	80	20
	ECON125	GE-I	Fundamental Concepts in Economics	4	3	1	80	20
			Sub Total -1	**28**	**19**	**9**	**Marks=500**	
III	ECON231	DSC	Agricultural Economics	6	4	2	80	20
	ECON232	DSC	Gender Economics	6	4	2	80	20
	ECON233	DSC	Research Methodology	6	4	2	80	20
	ECON234	DSE-I	Economics of Population	6	4	2	80	20
	ECON235	**OR** DSE-II	Econometrics					
	ECON236	AEC	Contemporary Economic Issues and data handling	4	3	1	80	20
			Sub Total - 3	**24**	**16**	**8**	**Marks=400**	
IV	ECON241	DSC	Indian Economy	6	4	2	80	20
	ECON242	DSC	Public Finance	6	4	2	80	20
	ECON243	DSC	Economics of Development and Planning	6	4	2	80	20
	ECON244	DSE-III **OR**	PG Dissertation	6	-	-	80	20
	ECON245	DSE-IV	Industrial Economics	6	4	2	80	20
	ECON246	GE-II	Economy of Himachal Pradesh	4	3	1	80	20
			Sub Total - 4	**28**	**19**	**9**	**Marks=500**	
			Grand Total* (1+2+3+4) [* Grand Total includes only courses offered by the Department of Economics to students enrolled in MA Economics Course]	**104**	**70**	**34**	**Total Marks = 1800**	

Note: Course code number ECON236 is Non-CGPA Ability Enhancement Course (AEC).

NOTE: **In Reference to Table 1 the Following Points A – E Are Relevant:**

A) **Course code descriptions**: the codes for the four types of courses on offer are explained as follows:

1. Discipline Specific Core Courses (DSC), e.g.,ECON111
2. Discipline Specific Elective Courses (DSE) e.g.,ECON234
3. Generic Elective (GE) e.g.,ECON125 & ECON246
4. Ability Enhancement Course (AEC) ECON236

Here: ECON111 denotes Economics 1st year, 1st Semester and 1st Course. Similarly, ECON234 denotes Economics 2nd year, 3rd Semester and 4th Course.

B) **Regarding DSE Courses**

1. Semester III: Any one course to be opted from course-DSE-I and DSE-II.
2. Semester IV: Any one course to be opted from course-DSE-III and DSE-IV (except foreign national students as explained in III i) c) below.
3. In case of regular students, the Department will offer only one Elective Course in Semesters III and IV. A second Elective Course will be offered only if there are a minimum of 05 students opting for the same and will further depend upon the availability of faculty.
4. Evaluation of Dissertation and Viva Voce by External Examiner (i.e., from university other than HPU) specifically for ECON244 – i.e., PG Dissertation. Maximum 7 (seven) dissertations to be evaluated by one external examiner.

C) **Regarding GE Courses**

i. Each student of the M.A. Programme in the subject of Economics will complete **two** GE courses during the duration of the degree programme, opting for ***not*** more than one GE course per semester from any other department of the Faculty of Social Sciences or other Faculties as permitted by this University.
ii. This Department shall offer Generic Elective (GE) Courses in the II and IV Semesters.
iii. GE Courses offered in the semesters II and IV respectively of the M.A. Programme in the subject of Economics will be opened as interdisciplinary courses to all full-time students registered in any regular master's programme of the Faculty of Social Sciences or other Faculties as permitted by this University.
iv. Such GE Courses offered by the Department of Economics are:
    - Open to regular students of the PG Centre only in any regular master's programme of the Faculty of Social Sciences or other Faculties as permitted by this University.
v. The total number of such students accepted in each semester will not exceed the student strength in respective semester of M.A. Economics programme.
vi. The criterion admission to GE courses in the Department will be as determined by the Department Council or University guidelines that may be issued for this purpose.

vii. GE courses will be offered to private students only by ICDEOL.

II SCHEME OF COURSES

Four categories of Courses are on offer as follows:

Table 2: The number & type of courses to be completed in each semester

Courses	Semester				ALL Semesters
	I	II	III	IV	I - IV
Discipline Specific Core Courses (DSC) including PG Dissertation	**04**	**04**	**03**	**03**	**14**
Discipline Specific Elective Courses (DSE)	**-**	**-**	**01**	**01**	**02**
Generic Elective (GE)	**-**	**01**	**-**	**01**	**02**
Ability Enhancing Course (AEC)	**-**	**-**	**01**	**-**	**01**
Total Number of Courses	**04**	**05**	**05**	**05**	**19**

III SCHEME OF EXAMINATION

MARKS Allotted to each paper:

Each DSC, DSE and GE Course shall be of 100 marks and qualifying marks in each Course shall be 40 per cent. The break up is as follows: 32 marks out of 80 (i.e., 40 % of 80) and 8 marks out of 20 (i.e., 40 % of 20).

Each AEC shall be of 100 marks and qualifying marks in each Course shall be 40 marks. The break up is as follows: 32 marks out of 80 (i.e., 40 % of 80) and 8 marks out of 20 (i.e., 40 % of 20). The Internal Assessment of 20 marks shall comprise of 2.5 marks each for: i) Class Test(s)/Assignment(s) and ii) Presentation(s)/Seminar(s) and 5 marks for attendance.

Assessment (CCA) and End-Semester Examination (ESE), failing which the student shall be considered failed in the concerned course and shall have to take the exam for the said course again. In case the student fails the CCA, his form for ESE shall be withheld and a notice put up in the department to the effect. The student, then, shall have to again take a Mid-term (Minor) Test and submit an assignment in the concerned course and pass the same. If the student fails the ESE, he/she shall have to take the concerned end-semester examination again.

Question paper setting for AEC (Ability Enhancement Course) shall be external, under the aegis of the CoE, however the evaluation shall be internal, by the concerned Department.

NOTE: The pattern of assessment for Distance Education and Open Learning shall follow the same pattern as followed in the PG Dept. However, the component of attendance shall not be counted and the entire internal assessment shall be based on seminar/assignment/term paper. The pattern of assessment for Private candidates shall not have the component of internal assessment. They shall have an End-semester Examination, on the same pattern as Regular and ICDEOL, but of 100 marks.

i) **For regular students** enrolled in MA Economics course in PG Centre, HPU, Regional Centre of HPU at Dharamsala and Centre for Evening

Studies, HPU.

a) The distribution of 100 marks for DSC and DSE courses shall be 80 for Theory and 20 for Internal Assessment (except for PG Dissertation 4th Semester). The Internal Assessment of 20 marks shall comprise of 5 marks each for: i) Class Test(s), ii) Assignment(s) and iii) Presentation(s)/Seminar(s) and iv) attendance.

Marks for attendance are given as per following criteria:

>75% but < 80%	:	1 Mark
80% to 85%	:	2 Marks
>85% but <90%	:	3 Marks
90% to 95%	:	4 Marks
>95%	:	5 Marks

b) PG Dissertation IV Semester will be:
- Supervised by faculty who are teaching PG classes of Economics.
- Evaluation will be of 80 marks for Dissertation and 20 marks for Viva Voce by an External Examiner (i.e., from university other than HPU) duly recommended by the Department Council and approved by the competent authority, specifically for– i.e., PG Dissertation.
- Not more than 7 (seven) dissertations to be evaluated by one external examiner.
- Remuneration for Evaluation of PG Dissertation; viva-voce and TA/DA claim of External Examiner(s) are to be borne by this University.

c) For Foreign Nationals enrolled as regular students, PG Dissertation is compulsory and is to be designated as DSE(ECON244) in place of Industrial Economics. Also, there will be only ONE DSE on offer to foreign national regular students namely ECON 234 i.e., Economics of population.

d) The GE course ***offered to students of other subjects/faculties*** (as permitted by this University) will carry a total of 100 marks distributed as: 80 marks for Theory and 20 marks internal assessment. The Internal Assessment of 20 marks shall comprise of 5 marks each for: i) Class Test(s), ii) Assignment(s) and iii) Presentation(s)/Seminar(s) and iv) attendance.

Marks for attendance are given as per criteria for DSC & DSE specified at a) above.

ii) **For regular students** enrolled in MA (Economics) course in colleges affiliated to HP University, Shimla.

a. The distribution of 100 marks for DSC and DSE courses shall be 80 for Theory and 20 for Internal Assessment (except for PG Dissertation 4th Semester). The Internal Assessment of 20 marks shall comprise of 5 marks each for: i) Class Test (s), ii) Assignment(s) and iii) Presentation(s)/Seminar(s) and iv) attendance.

Marks for attendance are given as per following criteria:

>75% but < 80%	:	1 Mark

80% to 85% : 2 Marks
>85% but <90% : 3 Marks
90% to 95% : 4 Marks
>95% : 5 Marks

b) PG Dissertation for regular students enrolled in the IV Semester in colleges will be:
   - Supervised by faculty who are teaching PG Economics classes.
   - Evaluation will be of 80 marks for Dissertation and 20 marks for Viva Voce by an External Examiner from HP University, Shimla duly recommended by the Subject Department of the College and approved by the competent authority, specifically for ECON244 – i.e., PG Dissertation.
   - Not more than 7 (seven) dissertations to be evaluated by one external examiner.
   - Remuneration for Evaluation of PG Dissertation; viva-voce and TA/DA claim of External Examiner(s) are to be borne by the College concerned.

c) **For Foreign Nationals enrolled as regular students, PG Dissertation is compulsory and is to be designated as DSE (ECON244) in place of Industrial Economics. Also, there will be only ONE DSE on offer to foreign national regular students namely ECON 234 i.e., Economics of population.**

d) The GE course ***offered to students of other subjects/faculties*** (as permitted by this University) will carry a total of 100 marks distributed as: 80 marks for Theory and 20 marks internal assessment. The Internal Assessment of 20 marks shall comprise of 5 marks each for: i) Class Test(s), ii) Assignment(s) and iii) Presentation(s)/Seminar(s) and iv) attendance. Marks for attendance are given as per criteria for DSC & DSE specified at a) above.

e) The distribution of 100 marks for each of the AEC shall be 80 for Theory and 20 for Internal Assessment. The Internal Assessment of 20 marks shall comprise of 2.5 marks each for: i) Class Test(s)/Assignment(s) and ii) Presentation(s)/Seminar(s) and 5 marks for attendance.
Marks for attendance are given as per criteria for DSC & DSE specified at a) above.

iii) **In case of students of distance education i.e., ICDEOL:**

a) Each DSC & DSE paper will carry a total of 100 marks distributed as: 80 marks for Theory and 20 marks for Compulsory Assignment. Each Compulsory Assignment will comprise of five questions i.e., one question per Unit for each of the DSC & DSE courses Assessment (except for PG Dissertation IV Semester).

b) PG Dissertation IV Semester, will be:
   - Supervised by faculty of ICDEOL who are teaching PG Economics classes. If the number of students opting for the Dissertation is large, then supervisors from PG Centre, CES and Regional Centre

may be allowed by following all rules/guidelines and seeking approval of competent authority.

- evaluation of the dissertation will be of 80 marks for Dissertation and 20 marks for Viva Voce by an External Examiner (i.e., from university other than HPU) duly recommended by the Department Council and approved by the appropriate university authority, specifically for ECON244 – i.e., PG Dissertation.
  - Not more than 7 (seven) dissertations to be evaluated by one external examiner.
  - Remuneration for Evaluation of PG Dissertation; viva-voce and TA/DA claim of External Examiner(s) are to be borne by ICDEOL.

c) For Foreign Nationals enrolled as regular students, PG Dissertation is compulsory and is to be designated as DSE (ECON244) in place of Industrial Economics. Also, there will be only ONE DSE on offer to foreign national regular students namely ECON 234 i.e., Economics of population.

d) The GE course offered to ***students of other subjects/faculties*** (as permitted by ICDEOL) will carry a total of 100 marks distributed as: 80 marks for Theory and 20 marks for five compulsory assignments for each GE course.

e) The distribution of 100 marks for each of the AEC shall be 80 for Theory and 20 for Internal Assessment. The Internal Assessment of 20 marks shall comprise of 2.5 marks each for: i) Class Test(s)/Assignment(s) and ii) Presentation(s)/Seminar(s) and 5 marks for attendance.

Marks for attendance are given as per criteria for DSC & DSE specified at a) above.

iv) **If private students are allowed by this University**:

a) Each DSC, DSE and GE Course shall be of 100 marks and there will be no internal assessment/compulsory assignment.

b) Each AEC paper will carry a total of 100 marks and there will be no internal assessment/compulsory assignment.

c) GE courses to be offered to private students of MA (Economics) will be decided by ICDEOL.

d) GE Economics courses will be offered to private students of other subjects/faculties as allowed and offered by ICDEOL.

e) The Dissertation (IV Semester) i.e., ECON244 is ***not*** to be offered to private students.

f) If offered to private students, to ensure parity with Regular and ICDEOL students:
   - the evaluation of the dissertation will be of 80 marks for Dissertation and 20 marks for Viva Voce by External Examiner(s) (i.e., from university other than HPU) duly recommended by the Department Council and approved by the appropriate university authority, specifically for ECON244 – i.e., PG Dissertation.
   - Not more than 7 (seven) dissertations will be evaluated by one

external examiner.

- Remuneration for Evaluation of PG Dissertation; viva-voce and TA/DA claim of External Examiner(s) are to be borne by ICDEOL because private students are admitted to MA (Economics) through ICDEOL.

IV FORMAT OF QUESTION PAPERS

a) For: i) Regular students of PG Centre/Regional Centre; Dharamsala/Centre for Evening Studies HPU; ii) Regular students enrolled in colleges affiliated to HPU & iii) ICDEOL

i. For DSC & DSE papers: Compulsory question consists of 10 short answer questions of 2 marks each i.e., total 20 marks. Five long answers questions carrying 12 marks each per unit i.e., total 60 marks.

ii. For GE papers: Compulsory question consists of 10 short answer questions of 2 marks each i.e., total 20 marks. Five long answers questions carry 12 marks per unit i.e., total 60 marks.

iii. For AEC papers: Compulsory question consists of 10 short answer questions of 2 marks each i.e., total 20 marks. Five long answers questions carry 12 marks each, per unit i.e., total 60 marks.

iv. Duration of DSC, DSE & GE Papers will be three (3) hours.

b) For Private Students

(If Private students are allowed by this University)

i. For DSC & DSE papers: Compulsory question consists of 10 short answer questions of 2 marks each i.e., total 20 marks. Five long answers questions carrying 16 marks each per unit i.e., total 80 marks.

ii. For GE papers: Compulsory question consists of 10 short answer questions of 2 marks each i.e., total 20 marks. Five long answers questions carry 16 marks per unit i.e., total 80 marks.

iii. For AEC papers: Compulsory question consists of 10 short answer questions of 2 marks each i.e., total 20 marks. Five long answers questions carry 16 marks each, per unit i.e., total 80 marks.

iv. Duration of DSC, DSE & GE Papers will be three (3) hours.

V General Information

1. Number of seats, eligibility, basis of admission, age limit, reservation, fee structure, scheme of examination and qualifying marks will be as per the University rules as prescribed in the Himachal Pradesh University Ordinance and Handbook of Information from time to time.

2. In case of ambiguity or conflict in provisions, the HP University Ordinance shall prevail.
3. The content not covered herein will be covered as per HPU regulations 2022 onwards Choice Based Credit System (CBCS) for Post-Graduate (PG) Classes

Master of Arts in Economics (MA Economics)
Programme Outcome

Over the duration of study, students are expected to acquire:

- **Economic reasoning** to view and analyze the working of the world by evaluating the cost of an action with the benefits generated.
- **Ability to identify and solve of economic problems** so as to contribute to the development of the subject through creative analysis and evaluation.
- **Critical and creative thinking** to analyze everyday problems faced by society, evaluate specific policy proposals, compare arguments with different conclusions to a specific societal issue and assess the role played by assumptions in such arguments.
- **Scientific temperament** of logical and rational thinking.
- **Ethically** articulate and apply values and ideals that demonstrate awareness of ongoing socio-economic challenges.
- **Analytical tools** for application of appropriate quantitative/qualitative techniques used in economics along with ICT, software etc.
- **Resource management** to plan usage of resources at different levels.
- **Ability of research and development** to apply principles of economics to analyze and evaluate issues of relevance.
- **Specialization and employability** through development of a deeper understanding, creativity, originality, analytical and critical skills.
- **Research temperament** through the use statistical and econometric tools and techniques that help in drawing inferences about various issues of economics importance and thereby contribute to the development of the subject.

Programme Specific Outcome

Upon completion of this Master's degree programme the students are expected to attain:

- An understanding of the theoretical and practical dimensions of economics;
- A scientific temperament through provisioning of concurrent input;
- Exposure to a wide range of economic specializations and familiarization with different branches of economics.

DSC Course Code: ECON-111
MICRO-ECONOMICS

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course, students will be able to:

- Comprehend consumer behaviour in all its ramifications.
- Locate optimum products and factors combinations.
- Describe different market conditions so as to understand equilibrium in price and output combinations.
- Examine various factors of production and their price determination.
- Discuss welfare economics and various criteria to determine the society's welfare.

Unit–I

Role and significance of assumption in economic models, Empirical testing of economic models.: The Slutsky theorem; Compensated demand curves; The revealed preference theory. Duality theory, Dual properties of utility and expenditure function, Shepard's Lema inter-temporal choice in consumption.

Unit-II

Recent developments in the theory of limit pricing; Models of Sylos-Labini. F, Modigliani and Bhagwati; Baumol's theory of contestable markets; Public utility pricing; inter-temporal and intra temporal equity.

Unit-III

Markets with Asymmetric information: Hidden Characteristics adverse selection and Moral hazards in insurance, Banking, Labour market & second-hand product markets. Pricing and output behaviour under oligopoly: Collusive and non-collusive models: Extensions of the oligopoly: models: Models of Baumol, Marris and Williamson,

Unit-IV

Theory of Distribution: The adding up Problem and Euler's theorem. Modern theory of distribution. Theory of Rent: Ricardian and Modern.IS-LM curve theory of interest, Modern theory of wages; wage determination under trade unionism., Marxian and Kalecki's theories of profit.

Unit-V

Welfare Economics: Marshallian and Robbinsian concepts Pigouvian Welfare Economics. New Welfare Economics: Pareto's optimum and externalities; Compensation principle.

SUGGESTEDREADINGS

- American Economic Association (1979). Readings in Welfare Economics,
- American Economic Association (1950), Readings in the Theory of Income Distribution, George Allen and Unwin, London.
- Archibald, G.C., Ed. (1971),Theory of the Firm, Penguin Rooks, Harmonds wroth.
- Baumol. W.J. (1982) Economic Theory and Operations Analysis,4ed, Prentice Hall of India, New Delhi.
- Bronfenbrenner,M.(1971).IncomeDistribution:TheoryMacmillan,London.
- Bruce, N. and R. Boadway (1984). Welfare Economics, Basil Blackwell, Oxford.
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- Deaton, A.S. & J. Muehlhauser (1980). Economics and Consumer Behaviour, Cambridge University Press, Cambridg3.
- Ferguson.(1968).Microeconomic Theory. Cambridge University Press, London.
- Friedman, R. Price Theory. Kalyani Publishers, Ludhiana.
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- Gould, J. P. and C.E. Ferguson. Micro-Economic Theory. Irwin, Homewood, Illinois.
- Graaff. J. De V. (1957). Theoretical Welfare Economics. (Cambridge University Press.) Vikas Publishing House, New Delhi
- Gravel H. and R. Rees (1981). Microeconomics, Longman, London
- Green, H.A.J. Consumer Theory. Philips L. Applied Consumption Analysis.
- Guirk J. and R. Saposoick (1963). Introduction of General Equilibrium and Welfare Economic, McGraw-Hill, New York.
- Henderson, R. and Quandt, R. Microeconomics Theory. McGraw Hill.
- Hirshleifer, J. (1976). Price Theory and Applications., Prentice Hall, New Delhi.
- Jones, H. G. (1976). An Introduction to the Modern Theories of Economic Growth, McGraw Hill Koga-Kusha, Tokyo.
- Kamerschen, D.R.(Ed), (1969). Readings in Microeconomics, John Wiley and Sons, New York.
- Kogiku, K.C. (1971). Microeconomics Models, Harper and Row, New York.
- Koutsoyiannis, A. (1985). Modern Microeconomics, Macmillan, London.
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- Kreps, D.M. (1992).A Course in Micro Economic Theory., Prentice Hall of India, New Delhi.
- Layard P.R.G. and A.A. Wallers, Micro Economics Theory, McGraw-Hill, New York. R.D. Irwin and Co., Homewood, IL.
- Mishan,E.J.(1969).WelfareEconomics:AnAssessment,North-Holland,Amsterdam.
- Stigler, G. (1966), TheTheoryofPrice,3e, MacmillanCo., New York.
- Varian, H. (1978).Microeconomic Analysis, W.W. Nortion, New York.
-

DSC Course Code: ECON-112
ELEMENTARY MATHEMATICS FOR ECONOMICS

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course, students will be able to:

- understand the basic rules of matrix algebra and apply the same to solve mathematical models containing systems of simultaneous equations.
- understand and extend the techniques of differential calculus to compute values of variables etc.
- solve the differential and difference equations along with their economic applications to economic models.
- compute the consumer's surplus and producer's surplus by utilising the tools of integral calculus.
- apply linear programming and input-output model to analyse behaviour of economic agents.

Unit –IMATRICES AND DETERMINANTS

Their properties, addition, subtraction, and multiplication of matrices. Transpose of a Matrix. Some special forms of square matrices-Trace, Idempotent matrix, Sub-matrix of a matrix. Inverse of a matrix and solution of equations using both the inverse of a matrix and Cramer's rule. Rank of a Matrix (Numericals relating to inverse of a matrix and Cramer's rule should to be confined to matrix of order 3x3).

Unit-IIDIFFERENTIATION

Derivatives: differentiations of functions of a single variable. Derivative of a composite function, Parametric function, logarithmic function, Exponential, and inverse functions. Concave and convex functions. Derivative of higher order. Partial Derivatives and total derivative Homogenous functions and Euler's Theorem. Maxima and Minima of functions of single variable. Profit maximization and cost minimization. Constrained optimization of function with two variables. Constrained utility maximization, constrained minimization, and the interpretation of the Lagrange multiplier.

Unit –III DIFFERENTIAL AND DIFFERENCE EQUATIONS

Introduction, non-linear and linear differential equations of the first order and first degree. Solutions of differential equations when variables are separable, homogenous equations and non-homogenous equations, exact differential equations and linear equations. Solution of linear differential equations of second with constant coefficient. Finite difference, difference equations. Solutions of homogeneous linear difference equation with constant

coefficients, linear first-order difference equations, Linear second order difference equations with constant coefficients.

Application of differential and difference equations in economic models (dynamics of market price, Solow growth model, cob-web model, multiplier-accelerator interaction model, Domar growth model).

Unit –IV ANALYTIC GEOMETRY

Introduction of a Straight Line, section formula, the gradient of a straight in, the equation of a straight line in intercept form, two-point form. Circle: The general equation of a circle, Parabola: equation of a parabola, the points of intersection of line and a parabola. Equation of a rectangular hyperbola. Problems based on applications of analytic geometry in economics.

Integration of function of one variable by parts and substitution. Integration of logarithmic and exponential functions. Definite integral and area between two curves. Simple applications of integration to the relationship between marginal functions and total functions, Consumer's surplus and producer's surplus. Investment and capital formation and the present value of a continuous flow.

Unit-V THE INPUT-OUTPUT MODEL

Its assumptions, technological coefficient matrix, closed and open input –output model, the Hawkins-Simon conditions. Solving the input-output models both open and closed using the inverse matrix.

An Introduction to Linear Programming, Linear equations, slack variables. Feasible and basic solutions. Degeneracy. Solving the primal and Dual with simplex method. Interpretation of the linear programming results.

SUGGESTED READINGS

- Allen.R.G.D. Mathematical Analysis for Economists, MacMillan, India Limited, Delhi.
- Baumol, W.J., Economic theory and Operations Analysis, Prentice Hall, New Delhi
- Berchenhal Chris and Paul Grount, Mathematics for Modern
- Budniek, Applied Mathematics for Business economics and social Sciences, 2nd Ed., McGraw Hill.
- Burmeister, E., and R Dobell, Mathematical Theories of Economic Growth.
- Chiang Alpha C. Fundamental Methods of Mathematical Economic Analysis, McGraw-Hill Bank Company London.
- D. Bose, An Introduction to Mathematical Economics, Himkya Publishing House, Delhi.
- Dorfman, R., Linear Programming and Economic Analysis, McGraw
- Dowling. Mathematics for Economists, McGraw Hill Economics, Heritage Publishers, New Delhi.
- Hadley, G. Linear Programming, Narosa Publishing House, New Hill
- Mukherji Badal and V. Pandit. Mathematical Methods for Economic Analysis, Allied Publishers Pvt.Ltd., New Delhi.

- Nicholson. Mathematics for Business Economics, McGraw Hill. Prentice Hall of India, New Delhi.
- Yamane Taro, Mathematics for Economists: An Elementary Survey.

DSC Course Code: ECON113

INTERNATIONAL ECONOMICS

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course, students will be able to:

- explain theories of international trade and their applications.
- outline the impact of dynamic factors on international trade.
- analyse various policies and role of international organizations to international trade.
- illustrate balance of payment and explain determination of exchange rates.
- identify long and short run capital requirements of developing countries.
- discuss the role of financial institutions like IMF, ADB, IFC and IDA.

Unit-I

Need for a separate theory of international trade. Theories of international trade classical, Neo-classical, Heckscher-Ohlin and Factor price equalization theories. Empirical verification of Classical and Heckscher-Ohlin theories, Factors reversal and Leontief paradox. Emmanuel's theory of unequal exchange.

Unit-II

Impact of dynamic factors on international trade changes in tastes, technology, factor endowments. Rybeznski theorem and transportation costs. Derivation of offer curves-Marshall-Edgeworth, Mill and Meade. Terms of trade and measurement of gains from trade. Secular deterioration in the terms of trade of developing countries. Aid versus trade controversy.

Unit-III

Commercial Policy: Free trade versus protection. Theory of tariffs; partial effects and effects on income distribution. Stolpher-Samuelson theorem. Optimum tariff, nominal and effective tariffs, infant industry tariff. Quotas and other quantitative restrictions. State trading. Multiple exchange rates. Trade policies of developing countries. Theory of custom union –trade creation and trade diversion. The SAARC, NAFTA, BRICS, G8, EU and the WTO framework. The WTO's and the developing countries.

Unit-IV

International Monetary Theory: Balance of payments and its adjustment. Maintenance of internal balance-Elasticities and absorption approaches. Exchange rate determination and adjustments. Foreign trade multiplier. Foreign repercussions and stability problem. Flexible versus fixed exchange rate system.

Unit-V

Capital requirements of developing countries. Development of International Monetary system since the 1970s and its reform, international reserves and problems of liquidity, IMF and the SDRs, ADB, IFC, IDA Short-term International finance-its nature and magnitude; its merits and demerits for the developing countries.

SUGGESTED READINGS

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- Sodersten, B., (1980), International Economics, 2nd Edition, Macmillian, London.

DSC Course Code: ECON114
LABOUR ECONOMICS

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course, students will be able to:

- examine various factors affecting demand and supply of labour.
- explain unemployment as a source of human capital.
- illustrate wage rate determination in different sectors of the economy.
- classify various methods of the settlement of industrial disputes.
- evaluate the govt. labour policies for the socio-economic upliftment of labour.

Unit – 1 Labour Market

Nature and characteristics of labour markets in developing economics like India. Paradigms of labour market – classical, neo-classical and dualistic; Analysis of demand and supply forces, Demand for labour relating to choose of technology. Supply of labour in relation to growth of labour force. Labour force participation rates.

Unit – II Employment

Employment and development relationship Importance of full employment in the context of poverty in the developing countries. Unemployment – concept and measures. Causes of unemployment, Issues relating to employment rationalization, technological change and modernization. Rural unemployment and educated unemployment. Planning of Human capital.

Unit – III Wage Determination

Various classical, neo-classical and bargaining theories of wage determination. Various concepts of minimum wages and fair living. Problems of implementation of minimum wages. Wage determination by sectors – Urban and Rural, organized and unorganized. Wage and inflation. Productivity and wage relationship. Profit sharing schemes. Causes of wage differentials in terms of firm, industry, occupation and region.

Unit – IV Industrial Relations and Trade Unions

Industrialization and emergence of trade unionism. Growth, structure and pattern of trade unionism. Achievements and failures of trade union movement. Determinants of industrial disputes. Steps to achieve industrial peace. Methods of settlement of industrial disputes: collective bargaining, conciliation, arbitration and labour participation in management.

Unit – V State and Labour in India

Increasing role of State in labour matters. Labour policy of the Government. Social Security and Legislative Measures adopted for Socio-economic upliftment of labour. Social security measures for organized visa-vis unorganized sector of labour. Important labour legislations (industrial dispute act), trade unions act, factories act and employees state insurance act. Problems of rural labour. Government policy towards rural labour and women and child labour. Evaluation of recent employment policy in India.

SUGGESTED READINGS

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DSC Course Code: ECON121

MACRO-ECONOMICS

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course, students will be able to:

- discuss the classical viewpoint about income, output and employment determination and explain various macroeconomic theories of consumer behaviour.
- distinguish between Keynesian and post Keynesian views regarding the income, output and employment.
- understand Money market and related concepts.
- explain various macro-economic growth models elaborate stabilisation policies.

Unit-I

Micro Foundations of Macro Economics. The basic classical model of income and employment determination. The basic Keynesian model; equilibrium in product and money markets. Multiplier process and the different concepts of multiplier; balanced budget theorem. Macro-Economic Theories of Consumption: Keynesian theory; Relative income, Permanent income, and Life cycle income hypotheses. Pigou effect and real balance effect on consumption demand.

Unit-II

Macro-Economic Theories of Investment: The Keynesian Post-Keynesian, New-Keynesian, and the financial theory of investment determination. Lags in investment. Portfolio disequilibrium and the transmission mechanism. The Demand for Money; The classical, Keynesian and Post-Keynesian approaches.

Unit-III

The supply of Money and Definitions of Money Supply: Inside and outside money, the neutrality of money Equilibrium in money market. The classical and Keynesian dichotomies and their resolution by Patinkin's real balance effect and through IS-LM model respectively. Keynesian and post Keynesian theories of rate of interest.

Unit-IV

Growth Models: Harrod-Domar model; Neo – classical model; Golden rule of accumulation; Optimal growth turnpikes. Theories of Trade Cycles: Multiplier-Accelerator interaction model, Kaldor and Hicks' models. Determination of General Price Level; Classical and Keynesian approaches. Theories of Inflation; Demand – pull and cost-push inflation; short and long-run Phillips's curve analysis; The Keynesian, the monetarist and the rational expectations analysis.

Unit-V

Keynesian and monetarist perspectives on monetary, fiscal and income policies. Stabilisation policies: Rules Discretion: lagged effects of policies and role of expectations. Crowding out effect and government budget constraint. Rational expectations and effectiveness of stabilisation policies.

SUGGESTED READINGS

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- Tumandar, P.N. (1972), Investment: Theories and Evidence, McMillion, London.
- Turnovsky, S.J. (1977). Macroeconomic Analysis and Stabilisation Policy. Cambridge University Press, Cambridge.

DSC Course Code: ECON122
BASIC STATISTICS

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course, students will be able to:

- acquire and apply statistical techniques in the empirical analysis of economic relationships.
- understand and infer from the process of data collection and various sampling methods.
- construct and interpret index numbers for economic variables. Measure and evaluate components of time series.
- apply, solve and prove various probability theorems using appropriate probability distributions.
- understand, explain, solve and apply hypothesis testing and selection of appropriate techniques for testing hypotheses.

Unit: I

Measure of Central Tendency, Dispersion, Skewness and Kurtosis. Correlation; Meaning and methods of measuring correlation, Karl Pearson's method, Spearman's Rank Correlation coefficient, Limitations of Correlation analysis. Linear Regression; relation between correlation coefficient and regression coefficients, Fitting of regression equations, Standard error of estimates.

Unit: II

The General Linear Regression Model

An Introduction to the matrix formulation and solution of the general linear regression Model. Solution for a model with one dependent and two independent variables. Prediction for simple regression models of demand, supply, production and cost. Multiple and partial correlations and regressions. Relationship between the measures of multiple correlation and measures of partial correlation, Beta coefficients.

Unit III

Elements of Probability Theory

The Concept of Probability Distribution and a Density function. Mathematical expectation, Binomial distribution, the Normal distribution, Some properties of the normal distribution. Sampling and sample designs: simple random sampling, stratified random sampling, systematic sampling and cluster sampling. Large samples. Tests of significance. Limitation of sampling; procedure of testing hypothesis: Region of acceptance and rejection, two tailed and one tailed tests,

Type I and Type II errors. Non-Parametric Tests: The sign test, rank sum test, the Mann-Whitney U test, advantages and limitations of non-parametric tests.

Unit IV

Tests of Significance

Standard error of the mean, Student's "t" distribution and its properties, Use of the "t" distribution to test hypothesis of the population means. Chi Square: general features of Chi Square (χ^2), chi square as a test of goodness of fit, chi square as a test of independence. Contingency table and Yate's correction for continuity, testing homogeneity of several independent estimates of population variance. Analysis of variance; meaning, assumptions and techniques of analysis of variance, one way and two-way analysis of variance problem. Inter relationship between "t", Chi square and F tests.

Unit V

Analysis of Time Series

Meaning and components of time series, Methods of estimating trend – the semi average method, the moving average method and the least squares method. Fitting of straight line, second- and third-degree equations. Fitting of the modified exponential curve, Gompertz curve and the logistic curve. Measurement of Seasonal, Cyclical and irregular variations.

Index numbers: Meaning, problems in construction of index numbers. Classification of index numbers, unweighted price index numbers, relative of aggregate method and average of price relatives, Weighted price index numbers: Laspeyre's, Paasche's and Fisher's ideal index numbers. Time reversal test and factor reversal test and chain-based index numbers. Uses and limitations of index numbers.

SUGGESTED READINGS

- Cochran, William G., (1977), Sampling Techniques, 3rd edition, Wiley Eastern Limited, New Delhi.
- Croxton F.E., D.J. Cowden and Sidney Klein, (), Applied General Statistics, Prentice Hall of Indian, New Delhi.
- Gujarati Damodar., (), Basic Econometrics, Second Edition, L.R. Klein.
- Nagar A.L. and R.K. Das, (), Basic Statistics, Oxford University Press, New Delhi.
- Snedecar George and W.G. Chockrane, (), Statistical Methods. Oxford & IBH, New Delhi.
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- Walker H.M. and J. Lev. (1953). Statistical Inference, Holt, Rime hart and Winston, Oxford and IBH Publishing Company, Calcutta.
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DSC Course Code: ECON-123

MONEY AND BANKING

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course, students will be able to:

- understand the concept of money and various approaches related to money.
- explain the functioning of money and capital markets, process of credit creation, role of NBFCs etc.
- interpret demand and supply of money, money multiplier and its determinants and role of RBI.
- analyse the working of monetary policy.
- summarize the role of national and international financial institutions.

Unit – 1

Basic Concepts: Different approaches to the definition of money; Types, role and functions of money inside money and outside money; Measures of Money supply. Traditional quantity theory of money Fisher's equation of exchange; Cambridge cash balance approach; Keynes reformulation of quantity theory of money; Modern quantity theory; Friedman's approach.

Unit – II

Theory of Commercial and Central Banking: Money markets and capital markets; commercial banks. Theories of commercial banking; Process of credit creation; non-bank financial intermediaries (NBFI's); Objectives and role of central banks in economic development; The currency and credit schools; Quantitative and qualitative methods of credit-controls. Review of Narsimham committee report (1991 & 1998 Reports), Digitalisation of Indian Banking system.

Unit – III

The Theories of Demand and Supply of Money: Theories of demand for money; Classical Keynesian and Monetarist. Theories of money supply; The H' Theory of money Supply; Money multiplier process and its determinants; Commercial banks and the money multiplier; Factors affecting 'H' RBI analysis of money supply; Control of the money stock; Money stock and interest rates; monetary equilibrium: money in equilibrium and non-equilibrium states; Neutrality of money. Demonetization: concept, logic, impact.

Unit – IV

Principles of Monetary Policy: Monetary Policy: Its meaning, objectives, framework, targets and indicators of monetary policy; Transmission mechanism of monetary. Policy; Restrictive Vs. accommodating monetary policy; Need and effectiveness of monetary policy; Lags in monetary policy; Role of monetary policy in developing countries; Monetary and credit planning; Monetarist and Keynesian views on monetary policy.

Unit – V

Indian Money Market and International Financial Institutions: India and NBARD. Reserve Bank of India (RBI); Its working, functions, performance and role in the economic development of India; RBI's monetary policy; International Financial Institutions IMF, IBRD (World Bank), Asian Development Bank (ADB). International Development Association (IDA).

SUGGESTED READINGS

- Chandlar, L. V. and S. N. Goldfield (1977). Economics of Money & Banking, 7/e, Harpar and Row, New York.
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DSC Course Code: ECON-124
HISTORY OF ECONOMIC THOUGHT

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course, students will be able to:

- trace the evolution of the subject matter of economics starting with mercantilists.
- draw inferences about the relevance of classical economics, socialist economic thoughts, historical critiques and Marx in the present context.
- demonstrate the relevance of neo-classical economics and identify contribution of Austrian School.
- explain and interpret Keynesian and Post Keynesian Economics.
- understand basic Indian economic thought.

Unit – I

Mercantilism: Main Principles. Theory of economic development; Views of Keynes, Petty, Hume and Cantillon on Mercantilism: Physiocracy: Natural Order, Agriculture and Product net, social classes. *TableauEconomique*.

Unit – II

The Classical Period: Economic Thought of Adam Smith, David Ricardo, and J. S. Mill with special reference to their views on value, distribution international trade and economic development; Malthus theory of population; Says law of market. Ricardo Malthus controversy on Say's law of market.

Unit – III

Socialistic Economic Thought: Socialist critique of classical economic thought with special references to the views of Saint Simon, Sirmondi and Proudhan. The Historical critics of Classicism, Karl Marx method of Economic analysis. Marx analysis of economic crises. Transformation Problem.

Unit – IV

The Neo-Classical Period: Similarity and differences between classical and neo-classical thought; The Marginal Revolution with special reference to the contribution of the Austrian School, Leon Walras, Jevons, Wickshell and Marshall.

Unit – V

Post Marshalling Development in Economic Theory: Contribution of Joan Robinson, E. H. Chamberlin; J. M. Keynes and Post Keynesian developments in economic theory.

Introduction to Indian economic thought: Economic ideas of Kautilya, Thiruvalluvar, BR Ambedkar, Mahatma Gandhi, JL Nehru, VKRV Rao and Amartya K. Sen.

Note:

Special instructions to paper setter: While setting question(s) out of Indian economic thought (Unit – V) care must be taken to set questions to test basic knowledge of candidate w.r.t Indian economic thought.

SUGGESTED READINGS

- Backhouse. R. (1985). A History of Modern Economic Analysis, Basil Blackwell, Oxford.
- Blaug, M. (1988). Economic Theory in Retrospect, 3/e; Cambridge University Press Cambridge.
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GE Course Code: ECON125

FUNDAMENTAL CONCEPTS IN ECONOMICS

Credit	Lecture	Tutorial	Practical
4	3	1	0

Course Outcome

By the end of the course student will be able to:

- understand basic concepts of economics.
- understand the budget document.
- evaluate the performance of the Indian economy.
- identify and discuss national and global economic issues.

Unit - I

Definition of economics, nature of economic problem, Concepts and measurement of utility, law of diminishing marginal utility-its practical applications and importance Law of demand, elasticity of demand (price, income and cross)-Measurement, practical importance and applications. Law of supply, elasticity of supply and its practical applications.

Unit - II

Theory of Production: Stages of production function; Returns to factor proportions; Return to scale; Elasticity of substitution; Technical progress and production function; Cost and Revenue Analysis (traditional and modern theories of cost).

Unit - III

Equilibrium of the firm-marginal analysis: Optimum factor combination and product combination. Meaning of market, types-Perfect, Monopoly, Oligopoly, Monopolistic (Main features only).

Unit - IV

Concept of Gross Domestic Product, Gross National Product, National Income and Disposable Income. Aggregate demand and supply (Both open and closed economies) Basic concepts of inflation, deflation, stagflation, business cycles and Balance of Payment (with special reference to India's BOP). Reserve Bank of India (RBI); Its working, functions, performance and role in the economic development of India; RBI's monetary policy

Unit - V

Growth and Structure of Indian Economy Since 1950. Growth of Indian economy since 1950. Trends in the nature and magnitude of poverty, inequality and unemployment. Trends in agricultural and industrial production and productivity. India's developmental pattern-Successes and failures.; India's engagement with International Financial Institutions IMF, IBRD (World Bank),

Asian Development Bank (ADB). International Development Association (IDA).

SUGGESTED READINGS

- Baumol. W.J. (1982) Economic Theory and Operations Analysis, 4ed, Prentice Hall of India, New Delhi.
- Bronson, W.H., (1985). Macro-Economic Theory and Policy, Universal Book Stall, New Delhi.
- Da Costa, G.C. (1980) . Production, Prices and distribution, Tata Mc Graw Hill, New Delhi
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- Henderson, R. and Quandt, R. Micro Economics Theory. McGraw Hill.
- Hirshleifer, J. (1976). Price Theory and Applications., Prentice Hall, New Delhi.
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DSC Course Code: ECON231
AGRICULTURAL ECONOMICS

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course, students will be able to:

- develop the understanding of the interdependence between agriculture and industrial development.
- make use of agriculture production functions, identify and solve risk and uncertainty in agriculture.
- understand and build models for India's agricultural development.
- evaluate Agricultural policies in lieu of their effectiveness.
- compare and contrast the traditional and modern sources of agricultural finance.

Unit-I

Nature and scope of agricultural economics. Role of agriculture in economic development. Interdependence between agriculture and industrial development. Systems of farming Farm size and productivity debate. Land reforms in India.

Unit-II

Agricultural production functions. Input output relationships; factor-factor relationships and product-product relationships. Measures of farm efficiency. Risk and uncertainty in agriculture.

Unit-III

Models of agricultural development (Lewis, Fei-Ranis, Jorgenson, Mellor, Schultz, and Boserup. Modals). Technological change and new agricultural strategy (green revolution) in India, Agro-climatic zonal planning in India.

Unit-IV

Agricultural price policy in India. Criteria to fix agricultural prices. Intersectoral terms of trade. Measures to increase marketable surplus. Functions of agricultural marketing. Efficiency criteria for agricultural marketing. Problems of Indian agricultural marketing. Measures to improve the efficiency of agricultural marketing in India.

Unit-V

Importance of agricultural finance. Source of agricultural finance, Defects of rural money lending system. Problems of agricultural cooperative societies. Government policy for agricultural credit. Problems and suggestions to improve agricultural finance. Causes of rural indebtedness. Measures to reduce rural

indebtedness. Objective and impact of integrated rural development programme. Resource mobilisation from agricultural sector.

SUGGESTED READINGS

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- Schultz, T. W. (1984), Transforming Traditional Agriculture, Yale University Press, New Haven.
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DSC Course Code: ECON232
GENDER ECONOMICS

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

Upon completion of the course students will be able to:

- Describe and critically discuss how incorporating the gender dimension influences economic development and how economic development also impacts the gender discourse.
- Understand gender inequalities that exist in many spheres of the economy and how they become an obstacle to development.
- The feminist economics project tries to overcome these limitations of mainstream economic theory
- Develop an understanding of theory on feminist economics and the challenges it poses to theories of economic development and therefore to raise new questions in economics along with exploring different ways in which questions can be answered.
- Thoroughly understand common economic problems in developing and developed countries and how they affect different groups in society.
- Know and be able to work out and interpret different measures and indicators of gender and development and eliminate restricting standards.
- Develop competence to assess different development/economic policy measures from a theoretical and empirical perspective through a gender lens.

Unit I

Concept of Gender and human development. Gender disaggregated data/gender statistics. From Women in Development to Gender and Development. Gender Inequality. Capability approaches. Perspectives on men and masculinities in economic development. Relationship between economic growth and gender equality, empowerment (emphasis on economic empowerment). Indicators of economic inequalities. Third gender and development: substance and indicators. Demographic changes and gender status. Gender interpretation of causes of demographic shift in birth rates. Child sex preferences and secondary sex ratio. Gender differences in mortality: concept and factors - biological, environment, discrimination and behavioural (lifestyle) factors. Socio-economic differences in mortality.

Unit II

Subject and methods of gender economics. Feminist economic critique of mainstream economics and alternatives. Feminist perspectives on economic

methods and arguments. Neoliberal economic policies, international trade and investment. Trade, feminization and international gender wage inequality. Gender effects on macroeconomic theory and instability. Globalization of the world economy and gender status: concepts such as feminization of poverty and multidimensional poverty. Women's contribution to GDP.

Unit III

Conceptualizing Women's Work: Productive/Reproductive Work and Formal/Informal work. Estimating Women's Work, Indian and International Debates. Issues in Participation; Occupations; Women and Globalization; Globalization and Economic Change; International Division of Labour.

Gender inequality in the labour market: entry into and exit from the labour market, careers, wages, skills training. Inequality and discrimination. Factors in wage disparities. Gender dimension of employment of youth and older persons.

Unit IV

Household economics: theoretical concepts and gender critique. Gender critique of the neo-Marxist approach. Gender critique of neo-classic household theory. The gender contract, negotiation models within families. Distribution of time: work in the labour market, work in the household, leisure time. Distribution of incomes (expenditures) in the household: inter-generational and gender aspect. Distribution of resources and decision-making mechanisms in households. Investments in human capital at household level and the sex factor. Accumulation of human capital over a life cycle. Household factors (reproductive, productive, structural, income-based, power-related) and employment of household members. Gender based marital and age-dependent migration.

Unit V

Gender policy: national, regional and global.

Practical policy solutions to the problem of gender inequality. Policies and strategies for reducing gender inequalities. Gender mainstreaming (including organizational mainstreaming), participatory approaches, gender budgeting, micro-credit. Welfare and Social Security Measures. Women in Planning and Social Policy.

SUGGESTED READINGS

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- Kabeer, N (2005) Is Microfinance a 'Magic Bullet' for Women's Empowerment? Analysis of Findings from South Asia, Economic and Political Weekly, Vol. 40, No. 44/45, pp. 4709- 4718 4 6.8 Land and Agriculture
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- Overview to World Development Report 2012: Gender Equality and Development
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- Sen A (1990), More than 100 million Women are Missing, The New York Review of Books
- Sen A (1999) Women's Agency and Social Change, Ch.8 of Development as Freedom
- Singh, Prabhash P., (1991), Women in India: A Statistical Panorama, Inter-India Publications, New Delhi.
- Standing, Guy, (1989), "Global Feminization through Flexible Labor." World development 17.7, pp:1077-1095.
- Standing, Guy, (1999), "Global Feminization through Flexible Labor: A Theme Revisited." World Development. Vol. 27(3), pp. 551-69.
- Woolley, F. (1999), Economics of the Family in Peterson, J. and Lewis, M. (eds) The Elgar Companion to Feminist Economics, Cheltenham: Edward Elgar, pp 328-35 2. Wolf D, Daughter, Decisions and Domination: an empirical and conceptual critique of household strategies, WGDR Ch. 18

DSC Course Code: ECON233
RESEARCH METHODOLOGY

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course, students will be able to:

- Understand the scientific methods of research, research process and research design.
- Understand the sampling techniques and sampling procedures.
- Know the various methods of data collection, tools and techniques.
- Know the reliability and validity of measurement of scaling.
- Know the purpose of project proposal and project report.

Unit – I Scientific Methods of Research

Definition of research, assumptions, operations and aims of scientific research. The research process; conceptual, empirical and analytical phases of research. Essential criteria for scientific methods.

Research designs: observational Studies; descriptive, explanatory, exploratory and evaluative studies. Experimental studies; pre-test design, post-test design, follow-up or longitudinal design. Action research studies and panel studies.

Unit – II Methods of Data Collection:

Collection of primary data. Selection of appropriate method for data collection; interview schedule, questionnaire, case history and case study method. Tools of Data Collection: schedule and questionnaire, construction of schedule and questionnaire, qualities of a good schedule and questionnaire. Guidelines for successful interviewing.

Collection of secondary data - population (sex wise data) labour force, occupational, educational and vital statistics. Focus Group discussion (FGD), content analysis, social mapping, social networking and mystery client technique.

Unit – III Sampling Techniques

Complete enumeration versus sampling. Concept of Sampling unit, Sampling frame and sampling design. Sampling methods: simple random sampling, stratified sampling, Systematic sampling, cluster Sampling and purposive sampling. Multistage sampling in large-scale surveys, self- weighting

designs, stratification in multistage sampling. Sampling and non-sampling errors, calculation of weights, sample size determination.

Unit – IV Measurement

Reliability and validity of measurement: Face, Content, Construct, convergent, concurrent and predictive validity. Scaling techniques: attitude scales, point scales, ranking scales, rating scales, limitations of attitude scales. Techniques of scale construction: Bogardus, Guttman, Likert, Semantic and Thurstone Scale.

Data collection, processing and analysis: editing, coding, data entry, validation and analysis.

Unit – V Writing Research Proposal and Report

Purpose of a proposal/ report. Content of proposal/ report: introductory section, methodology adopted, analysis and inferences, summary, Conclusion and recommendations. References/ Bibliography, appendices, footnotes. Examples of some hypothetical proposals.

SUGGESTED READINGS

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- Thurstone, L.L. (1959), The Measurement of Values, University of Chicago Press, Chicago.
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DSE Course Code: ECON234
ECONOMICS OF POPULATION

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course student will be able to:

- apply general awareness of the relationship between economics and population
- take part in analytical insights and knowledge population processes, structure and distribution
- examine and analyze gross and per capital output.
- identify plans development, policies and strategies of economic development.
- identify facts of economic push and pulls in the causation of population growth.
- analyse deep insights into economic inequalities.

Unit – I

Early theories of population (Malthus, Ricardo, Marx, J.M. Keynes and others). Effect of Pre- industrial technological and institutional changes on population. Demographic transition. The concept of optimum population.

Unit – II

Economic determinants of fertility: new household economics (Leibenstein theory and Gary Becker's Theory). Alternative economic approaches to fertility theory (Easterlin's and Caldwell's theories).

Unit – III

Cost and values of children and their effects on fertility, Supply of children and elements of uncertainty for the parents. economic determinants of Nuptiality (marriages and divorce), Gary Becker's model. Economic determinants of mortality.

Unit – IV

Economic determinants of migration (Regenstein's, Lee's and Todaro's Model). Economic consequences of population growth (General views of Malthus, Marx, Simon Kuznets). Economic consequences of population growth (Dual sector models of Lewis, Ranis Fei and Jorgenson's).

Unit – V

Effects of population growth on Savings and investment, population growth and Labour supply, population growth and distribution of income. Effects of

population growth on educational and human capital input facilities. Economic consequences of slowing population growth and population decline. Policy issues related to population and economic growth.

SUGGESTED READINGS

- Agarwala, S. N. (1972). India's Population Problem, Tata McGraw – Hill, Bombay.
- Bhende, A.A. and T. Kanitkar. Principles of Population Studies, Himalaya Publishing House, Bombay.
- Boque, D. J. (1971). Principles of Demography, John Willey, New York.
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- Everett S. Lee, A Theory of Migration Demography, February 1996.
- Fred Arnold, et. al., The Value of Children, A Cross-National Study, Vol. 1 (East-West Population Institute, 1975).
- Gary Becker, an Economic Analysis of Fertility, in National Bureau of Economic Research, Demographic and Economic Change in Developed Countries, (Princeton University Press, 1960), pp. 209-240.
- Gary S. Becker, A Theory of Marriage, in T.W. Schultz, ed., Economics of the Family (University of Chicago, 1974), pp. 299-344.
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DSE Course Code: ECON235
ECONOMETRICS

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course student will be able to:

- estimate and interpret linear regression models
- examine the problems that arise when the assumptions of linear regression model are not valid.
- solve problems that results from violating the assumptions of linear regression model.
- dissect various concepts of econometrics such as autocorrelation, homoscedasticity, multicollinearity etc., which have very wide significance in economic relations.
- analyse tools of econometrics, econometric models and applying them in practice.

Unit – I

The Simple Linear Regression Model

Assumptions of ordinary Least Squares (OLS) method, Properties of OLS estimates. Assumption of normality and confidence intervals for the parameters. Tests of significance of the parameter estimates. Tests of hypotheses with parameter estimates, test of goodness of fit with R-square. Desirable properties of estimates. Prediction with a linear regression model. Proof of BLUE properties of estimates (Gauss-Markov theorem). Different types of variables (Dominant, proxy irrelevant and superfluous variables).

Unit – II

Extension of Linear Regression Model

General Linear regression Model and Analysis of Variance: general linear regression model. Extension of the linear regression model to non-linear relationships. Applications of analysis of variance and regression. Tests of restriction imposed on the relationship of two or more parameters. The Chow test. Specification errors and specification bias.

Unit – III

Violations of Assumptions of Linear Regression Model

The Problem of heteroscedasticity, its consequences and some methods to overcome the problem. Auto-correlation, its Sources, consequences and methods

to solve the problem. The Durbin-Watson test. Consequences and tests for detection of multicollinearity. The Farrar-Glauber test. Methods to solve the problem of multicollinearity. Errors in Variables: their consequences and solutions. Method of inverse least squares.

Unit – IV Dummy and Lagged Variables

Analysis with dummy variables as explanatory variables. Lagged variables and distributed lag models; The Koyck model, the adaptive expectation model, the Nerlovis partial adjustment model and the Almon scheme of polynomial lag. The method of instrumental variables. The method of maximum likelihood as applied to regression. The Cramer-Rao lower bound. Regression on dummy dependent variables. The linear probability and the Logit models.

Unit – V Identification and Simultaneous Equation Models

The Simultaneous equation bias. The problem of identification. Formal rules for identification and choice of econometric methods. Recursive models, Indirect Least Squares model. Two stage least squares (2SLS) and the method of Instrumental Variables.

SUGGESTED READINGS

- Gujarati, D., (), Basic Econometrics, McGraw-Hill, 2/e, New York.
- Johnston, J., (), Econometrics Methods, 2/e, McGraw-Hill, New York.
- Kennedy, Peter, (1985), A Guide to Econometrics, MIT Press Edition, Basil Blackwell Ltd., Oxford, UK.
- Kmenta. J., (), Elements of Econometrics, Prentice Hall, New Jerry.
- Koutsoyiannis, A., (1977), Theory of Econometrics, 2/e, Mac-Millan, London.
- Maddala, G. S., (), Econometrics, MacGraw-Hill, New York.
- Wooldridge, Jeffrey M., (2006), Introductory Econometrics – A Modern Approach, 3rd Edition, (First Indian Reprint 2007), Akash Press, New Delhi – 20.

AEC Course Code: ECON236

CONTEMPORARY ECONOMIC ISSUES AND DATA HANDLING

Credit	Lecture	Tutorial	Practical
4	3	1	0

Course Outcomes

By the end of this laboratory based hands-on practical training course, students will be able to:

- handle data and solve basic algebraic problems using Excel.
- use different logical and statistical functions in Excel to compute descriptive statistics of a univariate and multivariate data set.
- present data using different types of graphs Using solver in excel student will be able to solve linear equation system and LPP and NLPP.
- The course proposes to develop the capacity of students to analyse and appreciate contemporary economic issues and policy pronouncements. The course will start with an introduction to the basic principles of report writing. Subsequent modules will involve inter-active lectures, group discussions, and group presentations.
- By the end of the course student will be able to present their analysis in the form of a written report.

Unit I

Basics of Microsoft Excel: Opening of Excel File-Workbook and worksheet-Rename of the workbook and worksheet. Brief history of Excel workbook-Advantages and disadvantages of the use of excel for statistical analysis. Location of heading/title bar- menu bar, tool bar- Formulae and function-formula space- cell-cell formatting- data entry-data clearing-copy-cut-paste, paste special – paste value-paste formula-paste transpose of the data set.

Unit II

Data Management: Data transformation: arithmetic operation- addition, subtraction, multiplication, log transformation, exponential, squaring and square root, indices. Use of 'If' function- nested if, sum, sum if, count, countifcountifs, average if, text to numeric and numeric to text using if function, max, min, large value of the data set, concatenate. Sort - ascending and descending, A-Z, sort row wise /column wise. Filter of the data set and create sub sample- filter according to text filter data according to numeric values or conditions, saving the filtered data in separate worksheet. Lookup functions.

Unit III

Descriptive Statistics: (i) Univariate Data: Measures of Central Tendency: mean, median, mode, Trim mean, geometric mean, harmonic mean, Measures of Dispersion: Range, quartile deviation, SD, CV, Gini coefficient, Moments and Order statistics: skewness, kurtosis, rank and percentile (ii) Multivariate Data: Covariance and correlation matrix, partial correlation, rank correlation. Graphical Presentation of Data: Different types of charts and their applications, Scatter diagram and Curve fitting.

Unit IV

Guidance for project writing: Identifying the topic, Review of Literature, Writing Project Report – Referencing Styles and use of referencing software.

Unit V

Analysing economics in the news Writing article about contemporary economic event (National &/or Global) using knowledge of economic theory, Analysis of contemporary Indian Economic Data and Policies Economic survey, budget, annual policy data, RBI, Monthly Economic Data - Ministry of Finance.

Suggested Readings:

- Abbott Martin Lee, Understanding Educational Statistics Using Microsoft Excel and SPSS John Wiley& Sons, Inc. 2011.
- Bal Guruswamy E.: Computer oriented statistical and numerical methods. Macmillan.
- Carver Robert H. and Jane Gradwohl Nash, Doing Data Analysis with SPSS, Cengage Learning.
- George Darren and Paul Mallery, SPSS for windows Step by Step, A simple guide and Reference, Pearson Education.
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DSC Course Code: ECON241
INDIAN ECONOMY

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course student will be able to:

- evaluate the evolution of Indian economy and identify key issues in development of Indian economy.
- dissect and examine sectoral development specifically agricultural and industrial development.
- interpret and elaborate financial sector and related policies.
- inspect and explain Indian economy in the context of India's foreign trade.
- evaluate the performance of Indian economy's development trajectory.

Unit – 1

Growth and Structure of Indian Economy Since 1950. Growth of Indian economy since 1950. Measures for raising economic growth. Trends in the nature and magnitude of poverty, inequality and unemployment. The unorganized Sector and its implications for the economy, Changes in occupational pattern, Demographic trends and economic development. Rate and trend in saving, investment and growth rate.

Unit – II

Growth of Agricultural, Industrial and Tertiary Sectors

Trends in agricultural production and productivity. Impact of liberalization in agricultural sector. Industrial Growth performance and problems. Industrial concentration; its nature and extent. Cottage and small-scale and MSME industries. Impact of liberalization and privatization on the industrial sector. Tertiarization of the Indian economy.

Unit – III

Money Supply, Inflation and Public Policies

Factors determining interest rates. Money supply and inflation in India. Financial sector reforms during 1990's. recent tax reforms. Growth and structure of

subsidies in India. Macro-economic policies – fiscal policy, income policy and stabilization policy. Parallel economy and its implications.

Unit – IV

International Trade Policies

Composition and directions of India's foreign trade. Factors determining the balance of payment. Disequilibrium in the balance of payment. Causes, consequences and policy measure. India's policies towards foreign capital; collaboration, export promotion and import substitution. Exchange rate policy and the convertibility of Rupee.

Unit – V

Development Policies

India's planned development; Successes and failures. Policies for social justice (with special reference to the alleviation of poverty, inequality and unemployment). Food policy and public distribution system (PDS). Sectoral policies: Industrial and agrarian. Policies for liberalization and privatization.

SUGGESTED READINGS

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- Thavaraj, M. J. K. (1978). Financial Management of the Government, S. Chand and Company, New Delhi.
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DSC Course Code: ECON242
PUBLIC FINANCE

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course student will be able to:

- examine the concept of maximum social advantage, keeping in view market failure and free riders' problem.
- understand and make use of taxation system of India.
- outline the theories, concepts and meaning of public debt and public expenditure in India.
- interpret and elaborate classification of budget and fiscal policy for stability, growth and economic development.
- evaluate the growth and composition of statutory and non- statutory financial resources in India.

Unit – 1

Principles of Public Finance

Principles of maximum Social Advantage. Role of public finance in the developing Economics. Fiscal economics: An overview. Of allocation, distribution and stabilization. Functions. Market failure. Public goods and externalities. Public goods and free-rider problem.

Unit –II

Principles of Taxation

Meaning and type of taxes; requirements of a good tax structure. Approaches to taxation: micro analysis of direct and indirect taxes; individual income tax, corporation income tax, sales tax including value-added tax, expenditure tax and Goods and service Tax. Incidence of taxes; nature of tax burden and principles of tax incidence. Theories and measures of tax incidence. Effects of taxes on work efforts, savings, investment, and growth. Trade-off between equity and efficiency. Taxable capacity.

Unit – III

Economics of Pubic Debt and Public Expenditure

Sources of public debt. Classical theory of public debt. Compensatory aspects of debt policy. Burden of public debt. Management of public debt. Growth of internal and external public debt. in India. Theories of growth of public

expenditure. Pattern of public expenditure. Pure theory of public expenditure. Growth of public expenditure in India.

Unit – IV

Reforms in Budgeting System and Stabilization Polices

Performance and programming budgeting. Classification of budgets. Fiscal policy: traditional and modern views on fiscal policy. Instruments of fiscal policy; built-in-stabilizes and compensatory fiscal policy. Fiscal policy for stability and growth. Fiscal policy and economic development.

Unit – V

Fiscal Federalism: Role of fiscal federalism. Allocation, distribution, and stabilization in a federation. Union-state-local financial relations in India. Growth and composition of statutory and non-statutory financial transfers in India. Nature and extent of deficits in central and State budgets. Policy measures to correct fiscal imbalances. Economic analysis of recent union budgets.

SUGGESTED READINGS

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DSC Course Code: ECON243

ECONOMICS OF DEVELOPMENT AND PLANNING

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course, students will be able to:

- explain the concepts of economic growth, structural change and economic development.
- compare and contrast Classical, Marxian, Schumpeterian and other theories of economic development.
- analyse state intervention under LPG and evaluate and construct development plans using appropriate techniques.
- understand and evaluate development models.
- critically examine the policy debate around India's development trajectory.

Unit – I

Economic growth, development and sustainable economy. Various traditional and modern criteria and measure of development, Major features of structural change and economic development. Measurement of absolute poverty and income inequality. Growth and equality trade –off.

Unit – II

Classical, Marxian and Schumpeterian theories of economic development. Stages of economic growth (Rostow and Marx). Approaches to the theory of underdevelopment and development underdevelopment. The big-push theory; Critical minimum effort thesis, Low level equilibrium trap. Lewis and Ranis- Fei models of economic development.

Unit – III

Planning and the market mechanism State intervention vs. liberalization, and privatization debate. The core areas of State intervention under liberalization. Process of plan formulation. Investment criteria for plan projects, cost-benefit analysis. Determination of size, growth rate and priorities in planning. Use of input-output and linear programming techniques in planning.

Unit – IV

Models in economic planning: policy models, projection models and development planning models. Models underlying various Indian Plans: Harrod Domar model; Mahalanobis model, and the model underlying current Five Years Plan. Resource mobilization for planning: Domestic resources; mobilization of resources through fiscal measures and monetary regulation. Savings and

inflationary finance. External resources-Dual gap analysis and foreign borrowings. Foreign borrowings v/s. foreign direct investment.

Unit – V

India's Five-Year Plans: Objectives, strategies, achievements and constraints. Decentralized planning and people's participation. Saving-investment rates-trends and problems. The policy debate in the post liberalization period debate-general down sizing of the public sector and disinvestments in public sector undertaking MNCs Vs. Swadeshi movement benefits and pitfalls of globalization and international finance.

SUGESTED READINGS

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DSE Course Code: ECON244
PG DISSERTATION
Course Credits: 6

Course Outcomes

By the end of the course student will be able to:

- develop the ability to critically examine economic issues.
- use basic analytical tools.
- present arguments/findings logically.
- evaluate policies and strategies of economic development

Guidelines for PG Dissertation

Students are encouraged to undertake PG Dissertation work based on a combination of primary and secondary data/information.

1. Dissertation

a) Each student will undertake an **individual** dissertation ideally of 60 -80 pages. It will be reported in on A4 size paper in Times New Roman Font. Font size: Main Heading =16; Subheading=14 & Text 12. Line spacing 1.5 and margins 1" top, bottom & right margin and 1.5" on left margin. Font size for tables/figures may be suitably adjusted. The dissertation is to be printed on both sides of the paper using mirror margins. **IMPORTANT:** A dissertation of less than 50 pages in this specified format *will not* be accepted for evaluation.

b) The dissertation work will be carried out in consultation with the supervisor allotted to each student for the purpose.

c) A seminar of the research proposal will be presented to the Department Council and Students to help finalize the topic & methodology and latest version of style sheet (APA/MLA etc) of the proposed study prior to its commencement.

d) Pre submission seminar will be presented to the Department Council and only upon approval will the Dissertation be submitted for evaluation.

2. Dissertation: will be as per APA/MLA/any other standard stylesheet to be specified at the time of Seminar presentation at 1c) above.

Chapter Scheme

i) Introduction
ii) Review of Literature
iii) Research Methodology
IMPORTANT: At the time of Seminar [1c) above], in place of "Limitations", "Expected Outcome" will be reported.
iv) Data Analysis & Findings
v) –do-
vi) Summary and Conclusion
References/Bibliography
Annexure (Annexure I will be the Questionnaire/Interview schedule).

NOTE: The number of Chapters pertaining to data analysis may vary in accordance with the objectives. Here Chapters iv, & v are shown as an example.

DSE Course Code: ECON245
INDUSTRIAL ECONOMICS

Credit	Lecture	Tutorial	Practical
6	4	2	0

Course Outcomes

By the end of the course, students will be able to:

- have the knowledge of different theories of international trade and their applications.
- to know about impact of dynamic factors on international trade.
- have the knowledge of various policies related to international trade besides, role of international trade organizations.
- attain the knowledge of balance of payment and determination of exchange rates.
- have the knowledge of capital requirements of developing countries both in short and long run.
- have the knowledge of Financial institutions like IMF, ADB, IFC and IDA.

Unit – 1

Scope of industrial Economics. Organization of industry. Changing forms of industrial organization. Process of industrialization: Rationale, objectives, strategies and polices. Employment implications of industrialization. Appropriate industrial technology for LDSLs. Industrialization and economic development. Patterns and phases of industrial growth and changes in industrial structure. Environment pollution on (its types, sources and effects), Public goods and bads, unmarketed goods, externalities. Resource depletion, problem of social cost.

Unit – II

Theory of firm and pricing. Objectives of the firm: profit and non-profit maximizing models of the firm. Bais theory of limit pricing; Marginal cost versus full cost pricing; Allocation of costs in case of joint products; Welfare implications of monopoly pricing. Investment decision; conventional and modern approaches; risk, uncertainty and investment decision. Economic Evaluation of Environmental Resources Measuring environmental damage (Valuation Methodologies). Irreversibility and the optimal use of natural environments (irreversibility in economic processes, irreversible Decisions and exhaustible resources, irreversible investment and project evaluation, determining the discount rate, inter-generational transfers determining the discount rate, inter-generational transfers and uncertainty). Divergence between social cost and private and uncertainty.

Unit – III

Market structure, conduct and performance and interrelations among them. Industrial concentration: concepts and measurement; Extent, causes and likely effects of concentration. Analysis of diversification, Vertical integration and mergers in industry. Extent of monopoly and concentration in India; Public policy towards industrial concentration and monopoly power in India. Environmental Management Models: Environmental control under uncertainty. Economics of pollution control. Economics of renewable resource harvesting (Optimal policies of fisheries, optimal rotating forest). Efficient allocation of renewable resources through time.

Unit – IV

Industrial location: Theories and factors affecting location; infrastructure for industrialization; Regional growth of industry in India. Tools of public policy. Indian policy for backward areas. Industrial finance in India. Role of term-leading institutions in industrial development of India. Indian capital market. Environmental costs of economic growth. Problems of rural and urban environmental planning. Resource management to fulfil environmental, social and economic objectives. Dilemma in environmental planning (poverty Vs. Environmental quality, social aspects, legal aspects, financial aspects).

Unit – V

Issues in Indian industry: Phases of industrial growth and changes in industrial structure India. Public sector rationale and organization; Public sector pricing policies. The question of efficiency in the context of special constraints; Overall performance of public sector in India. The concept of joint-sector in India. The problems of industrial sickness; Capacity utilization. Foreign collaborations; Multinationals in Indian joint ventures aboard. The recent liberalization trends. Large versus small scale industry debate in India. Policies for Environmental Planning, Role of voluntary organizations. People's participation in environmental management, Resource conservation (conserving soils, protecting forests, materials substitution, product life extension. Recycling materials conservation.

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GE Course Code: ECON246
ECONOMY OF HIMACHAL PRADESH

Credit	Lecture	Tutorial	Practical
4	3	1	0

Course Outcomes

By the end of the course student will be able to:

- To understand the various socio-economics issues of the economy of Himachal Pradesh
- To examine the problems and prospects of agricultural and horticultural activities of Himachal Pradesh.
- To know the industrial, power, labour welfare and skill development issues related to the Himachal Economy.
- To analyse the role infrastructural and tourism in the economic development of the Himachal Pradesh

Unit I

Features of Himachal Pradesh Economy: Resource endowment - Land, Water, Minerals, Forests, Demographic Trends, Human Development Index. Trends in State income – Structural growth before and after reforms, Sources of State Finances. Targets and Achievements of Plans, Budget. Growth trends in GSDP.

Unit II

Agriculture and Horticulture of Himachal Pradesh: Role of Agriculture and Horticulture in State Domestic Product Cropping pattern, Productivity and yield of major crops, Agricultural marketing, Agricultural finance, Marginalization and Agricultural Diversification in Himachal Pradesh. Trends in Fruit and vegetable Production and Productivity. Critical evaluation of government policies on agriculture and horticulture sector.

Unit III

Industrial and Power Sector of Himachal Pradesh: Trends and patterns in industrial growth, large scale and MSME industries in Himachal Pradesh, Labour Welfare measures and skill development programmes. Trends in hydro power generation in Himachal Pradesh. Environmental issues related to Industrialization and power projects in Himachal Pradesh.

Unit IV

Infrastructure and Tourism of Himachal Pradesh: Transport: road, rail and air. Banking, Housing, Social Welfare, Education and health programmes of the State Government. Role of Tourism in the economic development of Himachal Pradesh. Spillover effect of tourism development.

Unit V

Himachal as a model for hill development. Successes and pitfalls of planned development in Himachal Pradesh. Resource mobilization for this special category state. Growth potential and possibilities of rural modernization. Gender dimension of human capital formation in Himachal Pradesh.

SUGGESTED READINGS

- Balokhra, JM (2021), The Wonderland Himachal Pradesh: An Encyclopedia on a tiny state of Western Himalaya, Vols. I & II, HG Publication, New Delhi
- Economic Survey, Various Issues, Department of Economics and Statistics, GoHP.
- Himachal Pradesh Development Report, Planning Commission. GoI.
- Parmar, Y.S., Years of Challenge and Growth, Rubicon Publishing House.
- Sharma L.R., (2005), Quality of Life in Himalayan Region, Indus Publishing.
- Sharma, L.R. (1987), The Economy of Himachal Pradesh: Growth and Structure: A Study in Development Performance, Mittal Publishing.
- Singh, Mian Govardhan, History, Culture and Economy of Himachal Pradesh, Minerva Book House.
- Tiwari, Ashok Kumar, (2000), Infrastructure and Economic Development in Himachal Pradesh, Indus Publishing.

The Department of Biotechnology at Himachal Pradesh University, Shimla was established in the year 1995 to begin a M.Sc. Biotechnology Program with funding from the Department of Biotechnology (Ministry of Science & Technology, Govt. of India, New Delhi) with an intake of 10 students. The State Government and Department of Biotechnology, Ministry of Science & Technology, New Delhi provided the major financial supports. The Department is presently running two years M. Sc. Degree Programs in Biotechnology (since-1995) and Doctor of Philosophy (Ph.D.) in Biotechnology (since 1997). The Department presently admits 30 candidates every year to M.Sc. Biotechnology course through Graduate Aptitude Test- Biotechnology (GAT-B) conducted by Regional Centre for Biotechnology (RCB), Faridabad on behalf of Department of Biotechnology, Govt. of India, New Delhi for the participating Universities and all students receive scholarship of Rs. 5,000/- p.m. from DBT, Govt. of India. The fee structure in HP University is very less in comparison to other participating Universities. For M.Sc. in Microbiology, every year 30+2 students are admitted under self-financing scheme (SFS) through an Entrance Test conducted by HP University, Shimla. Two seats are specially reserved for single girl child as per HPU Rules.

As a result of the tremendous efforts and hard work by the dedicated faculty and strong academic and industry-oriented research programme, the Department has created a niche in academics and research at National and International levels. The highly trained Faculty of Biotechnology has excelled in various fields of Biotechnology and Microbiology through Major Research Grants from various funding agencies and has immensely contributed in creating and maintaining the state-of-the-art high quality infrastructure in the form of excellent Lecture Halls, Teaching and Research laboratories, Central Instrumentation Labs, IT-Lab., Departmental Library with 1710 books and access to Inflibnet/e-resources, Seminar Hall, and excellent facilities to impart practical training to the students to keep high standards in research and to generate highly skilled human resource. The Department has identified ‘industrial enzymes and processes’ as the major thrust area of research. The major objectives in research and academic activities include:

- Exploration and conservation of microbial diversity of Himachal Pradesh.
- Enzymes, fermentation technology and probiotics
- Exploring extremophiles for novel enzymes and products, and
- Exploring rich biodiversity of medicinal & aromatic plants for active principle (s)

Department of Computer Science

2.6.1

The institution has stated learning outcomes (generic and programme specific)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents

Department of Computer Science has adopted Outcome-Based Education (OBE) framework as prescribed by UGC for postgraduate programmes with an enhanced focus on higher-order learning and professional skills. The programme-specific outcomes (PSO's) have already been integrated into the academic curriculum and also in the assessment process in all the programmes. PSO's are well disseminated among the stakeholder through displaying the same at prominent places of the department such as at department notice boards, It is also displayed on the homepage of the respective department on the university website. Based on expected learning outcomes of a particular course and taking feedback from students, alumni and industry (Employers) to assess the attainment of learning outcomes the course content is designed along with its assessment criteria. The PSO's, the course outcomes (CO's) of each course are well-defined. The course outcomes along with the complete course description are drafted bythe department which is presented for discussion and recommendations to the Board of Studies and finally the Academic Council for the approval. The course outcomes of each course have always been displayed and informed to the students at the start of semester. The attainment of PSO's through CO's are assessed on regular basis at the end of semester taking into account the performance of each student in all components of assessment such as internal assignments and exams. On both its website and its notice board, the department lists the programmes that it provides, as well as the general aims of those programmes, the particular objectives of those programmes, the course structure, and the curriculum. The objectives of the class and its expected outcomes are displayed in a prominent location on the curriculum. The formation of course outcomes is done with the intention of ensuring complete covering of the curriculum and the relevant skills and knowledge. At the departmental level, the learning outcomes are discussed in order to increase faculty members' levels of exposure to and comprehension of them. These outcomes are discussed with the students in the beginning of the course by the concerned faculty member. Additionally, the results of the course are communicated with the students as per the schedule mentioned in the Academic Calendar. These learning outcomes are also appropriately reflected in the tests that correspond to them.

HIMACHAL PRADESH UNIVERSITY
(NAAC Accredited 'A' Grade University)
DEPARTMENT OF EVENING STUDIES
The Mall, Shimla-171001

Criterion 2.6.1

The institution has stated learning outcomes (generic and programme specific)/ graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents

S.No.	Course Code	Course Name	Description
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18	MATH304TH	NUMERICAL METHODS	This course reflects Professional Ethics. To learn this course students will be able to apply the various numerical techniques for solving real life problems.The problems which cannot be solved by usual formulae and methods can be solved approximately by using numerical techniques.To fit

			curve to the data by using 5different methods of interpolation as well as extrapolation.To find approximate solutions to difficult differential equations occurring in engineering sciences.
19	MATH313TH	PROBABILITY AND STATISTICS	This course reflects Professional Ethics. To learn this course students will be able Understand distributions in the study of the joint behaviour of two random variables.Establish a formulation helping to predict one variable in terms of the other that iscorrelation and linear regression.Understand central limit theorem, which establish the remarkable fact that theempirical frequencies of so many natural populations, exhibit a bell-shaped curve.
20	MATH317TH	TRANSPORTATION AND GAMI THEORY	This course reflects Professional Ethics. To learn this course students will be able to apply the various Transportation problem and its mathematical formulation. northwest-corner method, least cost method.The problems based on Vogel approximation method for determination of starting basic solution, algorithm for solving transportation problem.Understand the concept of Assignment problem and its mathematical formulation, Hungarian method for solving assignment problem.Find approximate solutions and formulation of two-person zero sum games, solving two-person zero sum games, games with mixed strategies.
21		Environmental Studies	This course reflects Environment and Sustainability. Understand and address complex environmental issues from a problem-oriented, interdisciplinary perspective.students will possess the intellectual flexibility necessary to view environmental questions from multiple perspectives, prepared to alter their understanding as they learn new ways of understanding.Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex interconnected world Understand and evaluate the global scale of environmental problems with a focus on sustainability. Students will solve problems systematically, creatively, and reflexively, ready to assemble knowledge and formulate strategy.Understand key concepts from economic, political, and social analysis as they pertain to the design and evaluation of environmental policies and institutions. Students' foundational knowledge enable them to make sound life decisions as well as enter a career in an environmental profession.Appreciate concepts and methods from ecological and physical sciences and their application in environmental problem solving. Students will be able to Articulate the interconnected and interdisciplinary nature of environmental Science.
22	POLS 101	Introduction to Political Theory	This course reflects Human Values. The course makes students clearly understand the various theories and concepts in political science. This course develops the ability to make and draw logical inferences about social and political issues. The course helps to understand the significance of theory aconceptualization and also of applying theory into practice. The course appreciates and follow the procedure of different theoretical ideas

			in political theory.
23	POLS 202	Introduction to Internationa Relations	This course reflects Human Values. The course will have a comprehensive view of historical processes and contemporary issues in International Relations. This course enables students to understand the foundational theories, concepts and approaches of International Relations. The course makes students to move beyond euro-centric international Relations and reflect more on contemporary issues affecting the world and understand the relations among developing powers including India.
24	POLS 203	Legislative Support	This course reflects Human Values. This course help in understanding the structure and functions of law-making bodies in India at different levels. The course will help students to understand the functioning of grass-roots democracy in India. This course highlights the basic knowledge of different legislative documents, especially the procedure of budget document in India.
25	POLS 204	Public Opinion and Survey Research	This course reflects Human Values. The course public opinion and research methodology introduce students to the basics of conducting research in social sciences. The course manifest students with the key issue in research like nature, concepts and types of research, various tools and techniques of data collection, analysis and interpretation and the conduct of research process. This course help in preparing students to orient themselves in the field of research and assignments preparation systematically and to solve research problems in social sciences. The course will enable students to develop better understanding of solving the problems in society.
26	POLS 301(A)	Themes in Comparative Political	This course reflects Human Values. The course will help students to understand and critically examine the various features of Indian and Western Political Thought. The course enables students to know the historical evolution of modern India Political Thought.The course manifest students with the vies and ideas some of key western political thinkers like John Locke, J.S. Mill and of Kautilya, Tilak, Gandhi,Ambedkar, Lohia,Nehru and Patel of modern Indian Political thought.
27	POLS 301(B)	Administration and Public Policy: Concepts andTheories	This course reflects Human Values. The course enables students to understand an overview of the discipline with the its meaning, scope and importance. This course helps the students to know different administrative theories in the concerned stream. The course make learn students, the process of policy formulation, its implementation and evaluation. The course manifest students with the knowledge and understanding of the concept like development administration and new public management.

28	POLS 302(A)	Democracy and Governanc	This course reflects Human Values. The course focus and help students to make understand the structure and process of governance at Union and State Level. The course also emphasizes on the concept political communication -nature, forms and its importance This course help in understanding the challenges of liberalization and prospects of e-governance in the contemporary times. The course also makes an insight into dynamics of civil society and new social movements.
29	POLS 302(B)	Understanding Globalization	This course reflects Human Values. The course highlights and make the students understand foundational aspects like, the meaning, nature and significance of globalization. This course discusses the major actors of world politics like United Nations and World Trade Organization (WTO).This course will enable the students to understand the contemporary world issues like, global warming, biodiversity and challenges of migration.The course also deals with the issue like poverty and inequality, global terrorism that requires urgent attention and solution.
30	POLS 303	Democratic Awareness Through Legal Literacy	This course reflects Human Values. The course help students to develop an understanding of structure and principles of the legal system in India. The course also highlights the issues such as criminal jurisdiction and its application of law, as filing an FIR, arrest, bail, prevention of atrocities on SC's and ST's.The course helps in developing basic awareness and to safeguard the rights guaranteed to its citizens in India.The course also discusses that understanding of law is not merely a state sanctioned procedure of rules but also as a source of rights. The course deals with the functioning of legal system in India and affirm one's rights and to be aware of one's duties within the legal framework and the opportunities and challenges posed by the legal system for different sections of persons.
31	POLS 305	Society, Economy and Politics in Himachal Pradesh	This course reflects Human Values. The course focus on understanding of the evolution of Himachal Pradesh as a political entity. This course emphasizes on various movements in the formation of the Himachal Pradesh as an independent entity through the varied discussions on geography, economy and demography of the state.The course also leads towards a better understanding of the issues like political parties, electoral and identity politics of Himachal Pradesh.The course deals with the politics of caste, sub-regionalism, working of PRIs, role of pressure groups in the state that tends to help students develop better understanding of dynamics and new trends in the state politics of Himachal Pradesh.

32	POLS 306	Human Rights, Gender and Environment	This course reflects Human Values, Gender and Environment. This course help students with an understanding of discourse on theoretical aspects of human rights. This course aims at enabling the students to understand the issuesconcerning the rights of citizens in general and the marginalized groups in particular, and assess the institutional and policy measures which have been taken in response to the demands of various movements.The course enables to understand the discourse on gender, environment and sustainable development that will develop the ability of students to know the repercussions of contemporary developments on marginalizes sections of groups in our society.
33	HIST(A)101	History of India from the Earliest Times up to 300 CE	This course reflects Human Values. Development of understanding of students and discussing in detail the sources, origin, foundation, main rulers and state development, society, economy and cultural conditions between Earliest time to 300 AD.
34	HIST(A)102	History of India from c.300 to 1206	This course reflects Human Values. Development of understanding of students and discussing in detail the sources, origin, foundation, main rulers and state development, society, economy and cultural conditions between 300 AD to 1206 AD
35	HIST(A)203	History of India from c.1206 to 1707	This course reflects Human Values. Introducing students to major social, religious and economic currents in medieval societies Development of understanding of students and discussing in detail the sources, origin, foundation, main rulers and state development, society, economy and cultural conditions between 1206 AD to 1707 AD
36	HIST(A) 204	History of India, c. 1707-1950	This course reflects Human Values. Understanding the Concept of modern and contemporary transition of the world through phenomenon like renaissance, reformation and Industrial revolution Development of understanding of students and discussing in detail the sources, origin, foundation, main rulers and state development, society, economy and cultural conditions between 1707 - 1950 AD.
37	HIST(A)309	Women in Indian History	This course reflects Human Values and gender issue. Developing an understanding regarding gender and patriarchy, position of women in Indian History, Social reforms and women in Indian nationalism.
38	HIST(A)310	Social Religious Reform Movements in India (19th and 20th Centuries)	This course reflects Human Values. Through this paper students understands nature and significances of Hindu and Muslim reform movements, women and social reforms, movements against caste system in 19th and 20th century.
39	HIST(A)311	Environmental Issues in India	This course reflects Human Values, Environment and

			Sustainability. Through this paper students underst ands social perspective of environment and studying Geography, Ecology and Cultures in Pre-Colonial, Colonial and Independent India in references of land,forests, rivers,wear, Trible and pastoralism, pollution,Bio-diversity etc.
40	HIST(A) 213	Historical Tourism	This course reflects Human Values Environment and Sustainability. Making students understand the various aspects of tourism and heritage through art, architecture, built heritage of ancient, medieval and modern India and popular tourist destination of Himachal. It gives opportunity to students to developed their skill through visit, fieldwork and survey of important tourist places.
41	HIST(A)214	Understanding Heritage	This course reflects Human Values .Making students to develop the skill and understand the interpretation of heritage, museums, archaeological sites, art treasures with the travels / field work/survey to Himachal's art and culture heritage.
42	HIST (A)216	Craft and Artisans Living Traditions	This course reflects Human Values This Course introduces students to the rich and living traditions of crafts and artisans of India through stone carvers, folk painters, metal crafts; ivory, gems, jewellery, wood work, weaving, basketry, textile and carpet weaving with a visit/field work/survey of/to a craft exhibition/museum/art gallery/cottage industry for practical knowledge.
43	HIST (A) 319	Introduction to Indian Art	This course reflects Human Values. This course has a theme of developing and understanding of the students on various key terms of art appreciation: art, craft, sculpture, relief, painting, miniature, mural, fresco, rangoli art with a visit/field work/survey of/to at example, museum, mosque, art gallery, important architectural site.
44	HIST (A)320	Understanding Popular Culture	This course reflects Human Values. This course introduces students to defining popular culture, folk art/ music, /tales/dances,cinema,television and important fair and festivals of HP with visit/field work/survey to enhance their practical knowledge.
45	BC 1.1	Financial Accounting	This course reflects Professional Ethics.Demonstrate a critical understanding of the Branch Accounts and its importance infinding out the profits or losses in running a branch.Analysing the various issues underlying in departmental accounting and understanding of the contribution of departments to the overall organisation.Understanding the importance of partnership and its provision in admission andretirement.Analysing the problems in Death and Insolvency of a partner and calculating theRevaluation account for smooth closing of business.
46	BC 1.2	Business Organisation and Management	This course reflects Professional Ethics.Applying the principles of costing for preparing tenders, quotations, job costing andbatch

			costing.Understanding the concept of contract and applying the costing concepts to calculatethe profit o loss from contract costing. Understanding the concept of process and flow of accounts from one process toanother and applying the concept to find out the profit or loss.Applying the cost concepts for operating costing in transport, power supply andcinema theatre and finding out the profit or loss.
47	BC 1.3	Business Law	This course reflects Professional Ethics.Understanding the concept of investments, its features and various instruments inmoney market and capital markets.Understanding the concepts of securities market, the importance of primary market forraising the capital and the importance of secondary market for securities exchange.Understanding the concept of risk and return and applying the concept to find out therisk factors and purchasing and selling of securities.Applying the concept for valuation of securities and finding out the values for purchaseand sale of shares and debentures.
48	BC 2.1	Company Law	This course reflects Professional Ethics.Understand the concept of Joint Stock Company and suggest the suitability of Joint. Stock Company as a form of Business organisation.Understand the importance of the compulsory document for incorporating thecompany and allied document forrunning the day-to-day affairs of the company.Understanding what documents are required to be made by a company for raisingcapital. To understand how and why a company issues shares at par, at discount or atPremiums.Demonstrate the importance of meetings and the quorum required for a meetingand the resolutions that has to be taken depending upon the business decisions.
49	BC 2.2	Income Tax Law and Practice	This course reflects Professional Ethics.Demonstrate a critical understanding the residential status and the citizenship and itsimplication on the taxability the various persons.Analysing the various provisions and calculating the taxable salary income of anindividual on a real time basis.Using the guidelines provided to calculate the various rental values and therebyincome from house property.Thorough knowledge on the provisions regarding expenses, depreciation and otheritems to arrive at the income to be charged to tax for a business.
50	BC 2.3	Computer Applications in Business	This course reflects Professional Ethics.Demonstrate the importance of Computer software and hardware.Demonstrate the ability to Creating documents in Microsoft Word, typing text,numbers and dates into a document, Easy formatting, Checking the spelling inyour document, Making and saving changes to your document.Demonstrate the ability to Managing Windows Explorer, Creating, moving,renaming and deleting folders and files, understanding file extensions, viewingstorage devices and network connections, Managing USB flash drives.Understanding spreadsheet functionality, creating spreadsheets in MicrosoftExcel, typing text numbers and dates into a

			worksheet, Easy formulas, Easyformatting, Charting the data, Making and saving changes to the workbook.
51	BC 2.6	E-Commerce	This course reflects Professional Ethics.Demonstrate an understanding of the foundations and importance of E-Commerce.Analyse the impact of E-Commerce on Business Models and Strategies.Describe Internet trading Relationships.Describe the infrastructure for E-Commerce
52	BC 3.1(a)	Human Resource Management	This course reflects Human Values and Professional Ethics.Identify different aspects of Human Resource Management and develop an understanding of national and international practices of Human Resource Management.Acquire knowledge to examine the existing human resource practices at the work place and forecast the future requirement ensuring maintenance and social security of employees.Compare different employees and accordingly design their compensation packages on the basis of transparent Performance Appraisal.Design training and development programsfor employees. Create a competitive advantage through people.
53	BC 3.3	Entrepreneurship	This course reflects Professional Ethics.Understanding Entrepreneurship andcreative response to the society' problems and at work.Understanding the concept of Concept of business groups and role of business houses and family business in India.Understanding the concept of Significance of writing the business plan/ project proposal; Contentsof business plan/ project proposal; Designing business processes,location, layout, operation, planning & control.Understanding the concept of Mobilising resources for start-up. Accommodation and utilities.Preliminary contracts with the vendors, suppliers, bankers, principalcustomers; Contract management: Basic start-up problems.
54	ECONA313(GEC)	Economy of Himachal Pradesh	This course reflects Professional Ethics.Students shall be able to understand the state sources of revenue and expenditure. There shall be augmentation in the knowledge of the students by analysingthe potential and contribution of tourism sector, horticulture and agriculture sector to the State DomesticProduct/SDP.Students can understand the income and employment potential of different hydro projects in the state. Students will be able to understand the potential and threats of local manufacturers like, Kullu Handloom, Shawls, Stoles,
55	PUBA204A	Human Resource & Logistic Management	This course reflects Human Values and Professiona Ethics.This course is deals with the issues of huma resources in the different organisations thei recruitment, promotion, training and matters relatin to remuneration. Logistic Management gives an ide of Supply Chain Management and channels o communication between manufactures and supplier so that the goods could be reached to the fina customers in right condition
56	PUBA202A	Development	This course reflects Human Values and

		Administration	Professional Ethics.Developing a basic intellectual understanding of development, its approaches and sustainable development. Gaining conceptual and theoretical understanding of Development Administration including the ecological and post-globalization contexts. Gaining familiarity with issues/new perspectives such as Public Private Partnership, Corporate Social Responsibility, InclusiveDevelopment, Sustainable Development Goals and Human Development Indicators.
57	ENG SEC 204	Creative Writing, Book, and Media Reviews	This course reflects Professional Ethics.It will make the students familiar with the literary terms and genre of novel and short story. To develop critical power of the students by reading literature. Students will be able to develop their mental horizon by critically analysing or reading drama, text books and stories.
58	ENG SEC 301	Technical writing	This course reflects Professional Ethics.It will convey specialized information from a technical field to a non-special audience. Students will assess effectiveness and validity of information source such as web sites, business documents and professional journals. They will be able to edit documents with peer exchange and professional guidelines.
59	ENG DSE 303	Soft Skills	This course reflects Human Values and Professional Ethics It makes the students resilient and they will get to know how to cope with the unfamiliar situation when things don't go according to plan. It inculcates a sense of belongingness with the team and group of students. Learners will be able to accomplish learning task assigned to them.
60	ENG DSE 304	Academic Writing and Composition	This course reflects Human Values and Professional Ethics. Students will be able to structure written work. They will be able to understand the importance of careful drafting and editing of written work. They will be able to understand the importance of clear and concise analysis of content of the subject.
61	ENG AECC 104	Writing Skills	This course reflects Human Values and Professional Ethics Students will heighten their awareness of correct usage of English grammar in writing and speaking. Students will be able to increase their reading speed and comprehension of academic articles. Students will strengthen their ability to write academic papers, essays and summaries in a lucid way.
62	ENG AEEC SEC 302	Business communication	This course reflects Professional EthicsStudents will be able to differentiate between different methods of communication.They will come to know the importance of staying connected with colleagues, other professionals and customers in the digital age. They will know how to make information more accessible to your audience.

Result

Gazette Notifications

Title	Result
Result gazette notification of LAW 6th semester examinations held in June, 2023	Download [146.34 KB]
Result gazette notification of LAW 5th semester examinations held in June, 2023	Download [116.8 KB]
Result gazette notification of LAW 4th semester examinations held in June, 2023	Download [119.66 KB]
Result gazette notification of LAW 1st semester examinations held in June, 2023	Download [116.17 KB]
Result gazette notification of M.Sc. Zoology 4th semester examinations held in June, 2023	Download [(file not found)]
Result gazette notification of B.Voc. 3rd and 4th semester (Fresh 2021-22 Batch) examinations under CBCS (RUSA) held in November/December, 2022 result declared on 26.10.2023	Download Excel File [81.63 KB]
Result gazette notification of BHMS 4th (Old) Prof. examinations held in June, 2023	Download [109.11 KB]
Result gazette notification of BHMS 4th Prof. examinations held in June, 2023	Download [113.78 KB]
Result gazette notification of BHMS 3rd Prof. examinations held in June, 2023	Download [118.76 KB]
Result gazette notification of BHMS 2nd Prof. examinations held in June, 2023	Download [117.31 KB]
Result gazette notification of BHMS 1st Prof. examinations held in June, 2023	Download [114.51 KB]
Result gazette notification of Vyakaranacharya 2nd examinations held in April, 2023	Download [125.69 KB]
Result gazette notification of Vyakaranacharya 1st examinations held in April, 2023	Download [123.91 KB]
Result gazette notification of Vedacharya 1st examinations held in April, 2023	Download [123.05 KB]
Result gazette notification of Sahityacharya 2nd examinations held in April, 2023	Download [126.09 KB]
Result gazette notification of Sahityacharya 1st examinations held in April, 2023	Download [132.32 KB]
Result gazette notification of Prak Shastri 2nd examinations held in April, 2023	Download [193.51 KB]

2.6.1. The institution has stated learning outcomes (generic and programme specific)/ graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents.

Learning Outcomes: Programme Outcomes

- Think Critically - Get ability to apply the process of science by formulating hypotheses and design experiments based on the scientific method.
- Analyze and interpret results generated through studies in botany, taxonomical treatments, field studies, excursion tours and laboratory techniques used in the subject.
- Effective Communication and collaborate with other disciplines by effectively communicating the fundamental concepts of Botany courses in written and oral format.
- Identify credible scientific sources to interpret and evaluate the evidences.
- Understand the relationship between science and society by recognizing and discussing logical, scientific and ethical issues in Botany courses.
- Environment and Sustainability: Understand the issues of environmental contexts and sustainable development with respect to assessment, conservation and utilization of floral diversity.
- Distinguish between the Structure, Function, Behaviour and evolution of different animals.
- Master of Science majors of conservation biology and ecology, giving you an in-depth knowledge of those most closely related programmes.
- Apply the wide range of subject based skills to various fields that provide a base for future career in disciplines such as Health Sciences, Agriculture, Environmental Management, Biotechnology, Publishing, Teaching and Research.
- Perform, Assess and implement practical techniques and procedure to solve biological problems and analyse and quantify data collected during any project.
- Thorough and up-to-date knowledge in the disciplines of their choice at the forefront of a particular field.
- Thorough and up-to-date knowledge in the disciplines of their choice at the forefront of a particular field.
- The ability to critically evaluate information and ideas and apply multiple perspectives.

- The potential to demonstrate effective strategies and methodologies applicable to specific educational domain.
- Adequate skills for competent problem solving.
- Evaluate one's own research in relation to important and recent issues in their specialised field.
- Proficiency to communicate research findings at diverse levels.

Program Specific Outcomes

- Identify classify the plants by using the key characters.
- Prepare and view specimens for examination using light microscopy
- Use pure culture and selective techniques to isolate fungi, plant pathogens, algae and identify them growing on media.
- Qualitative and quantitative estimate the number of floral components by using enumeration and suitable sampling and techniques.
- Use appropriate plant molecular techniques and use of instrumentation related to it.
- Documentation and report writing on experimental protocols, results and conclusions, study tours and field visits etc.
- Understand Nature, environment natural resources and their conservation, Classification and Behaviour of different animals, Human genetics, Cytology and Evolution.
- Apply the wide range of subject based skills to various fields that provide a base for future career in disciplines such as Health Sciences, Agriculture, Environmental Management, Biotechnology, Publishing, Teaching and Research.
- Distinguish between the Structure, Function, Behaviour and evolution of different animals.
- Understand the applications of Biological techniques to various fields of biology.
- Augment the mind to compile data and make a clear presentation.
- Demonstrate self-direction and originality to plan and implement.
- Comprehensive understanding of Bio-instrumentation and its applications.
- Analytical approach to the concepts and recent trends in the field of specialisation.
- Familiarize with IPP, IPR and Patents.
- Augment the mind to compile data and make a clear presentation.
- Demonstrate self-direction and originality to plan and implement.

- Comprehensive understanding of Bioinstrumentation and its applications.
- Analytical approach to the concepts and recent trends in the field of specialisation.
- Familiarize with IPP, IPR and Patents.

Annexure I

SYLLABUS

M.A. SOCIOLOGY

UNDER CHOICE BASED CREDIT SYSTEM

(CBCS)



HIMACHAL PRADESH UNIVERSITY
SUMMER-HILL, SHIMLA-5
2022

Programme Objectives

The Master of Arts in Sociology offered by the Department aims at training students to critically analyse the social environment in which they live and become self-aware and responsible citizens.

Programme Outcomes (PO's)

1. **Sociological Knowledge:** Apply the knowledge of Sociology to the solution of social problems. The sociological knowledge would be useful in the social engineering and social reconstruction of the social structure.
2. **Problem Analysis:** To make use of appropriate sociological knowledge and skills to identify, formulate, analyze and solve complex social problems in order to reach substantiated conclusions.
3. **Development of Solutions:** An ability to discover solutions for complex sociological problems and to develop systems or processes that meet specified needs with appropriate attention to societal, cultural, economic and environmental considerations.
4. **Investigation of Complex Social Problems:** An ability to conduct investigations of complex social issues on the basis of research based knowledge that include appropriate experiments, analysis and interpretation of data and synthesis of information in order to reach valid conclusions.
5. **Modern Tool Usage:** An ability to create, select, apply, adapt and extend appropriate techniques, resources, and modern sociological tools to a range of social activities, from simple to complex, with an understanding of the associated limitations.
6. **The Sociologist and Society:** Apply reasoning informed by the contextual knowledge to assess socio-cultural, economic, political and legal issues and the consequent responsibilities relevant to the discipline of Sociology.
7. **Environment and Sustainability:** Understand the impact of the sociological solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** An ability to apply ethical principles and commitment to responsibilities and accountability of the discipline.
9. **Individual and Team Work:** An ability to work effectively as a member and leader in teams, preferably in a multi-disciplinary setting.
10. **Communication:** An ability to communicate sociological concepts and theories within the sociological community and with society at large. Such ability includes the

ability to comprehend and write effective reports and design documentation, and to give and effectively respond to clear instructions.

11. **Project Management and Finance:** Demonstrate knowledge and understanding of the sociological principles and apply these to one's own work to manage projects as well as in multidisciplinary environments.
12. **Lifelong Learning:** To attain the recognition of the need for, and an ability to engage in lifelong learning to maintain their competence and to allow them to contribute to the advancement of knowledge.

Programme Specific Outcomes (PSO's)

- To impart sociological knowledge and skills in students that will enable them to think critically and imaginatively about society and social issues.
- To comprehend the various features of Indian Society and culture including unity in diversity, Indian social structure and understanding rural, urban and tribal India.
- To impart knowledge and develop understanding of research methodology and its application for research relevant to social problems.
- To equip the students for seeking suitable employment ability.
- Sociological knowledge is helpful for understanding and planning of society. It is a vehicle of social reform and social reorganisation.

FACULTY OF SOCIAL SCIENCES

HIMACHAL PRADESH UNIVERSITY

(NAAC Accredited "A" Grade University)

COURSE STRUCTURE AND SYLLABUS

FOR

M.A. IN SOCIAL WORK

(2022-2023 onwards)

DEPARTMENT OF SOCIOLOGY & SOCIAL WORK
HIMACHAL PRADESH UNIVERSITY
SUMMER HILL, SHIMLA-171005

Programme Outcomes (PO's)

1. **Social Work Education:** Social work profession addresses the barriers, inequities and injustices that exist in society. Its mission is to help people to develop their full potential, enrich their lives, and prevent dysfunction.
2. **Problem Analysis:** To identify, analyze, need based assessment, and pre & post Intervention measurement of social problems for reaching substantiated conclusions using primary and secondary methods of social work
3. **Development of Solutions:** Social work aims to develop and disseminate knowledge, skills and values through education, field training and research necessary for promoting, maintaining and improving the functioning of individuals, families, groups, organizations and communities existing in the society.
4. **Problem Solving:** Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of problems by stepping out of comfort zones and taking up challenges in unforeseen challenges.
5. **Cooperation and Team Work:** Ability to work effectively and respectfully with diverse teams; facilitate cooperative or coordinated effort on the part of a group and or a team in the interests of a common cause and work efficiently as a player.
6. **Modern Tool Usage:** Ability to create, select, apply, adapt and extend appropriate techniques, resources, and modern tools for the delivery of social service effectively through technology to the needy with an understanding of the associated limitations.
7 **The Social worker and Society:** Social work is concerned with finding solutions to different types of problems that individuals face. These problems may be personal, social or economic. The beneficiaries of social work services are individuals, groups or a community.
8. **Field Work Practice:** Ability to understand and practice the social work methods to deal with social problems and to acquire skills of social work intervention in human needs and societal issues.
9. **Diversity Management and Inclusive Approach:** Able to understand and appreciate diversity (caste, ethnicity, gender and marginalization), values and beliefs of multiple

Chairperson
Department of Sociology
H.P. University, Shimla

cultures in a global perspective, managing diversity, use of an inclusive approach to the extent possible.

10. **Moral and Ethical Awareness:** Ability to embrace moral/ethical values of social work in conducting one's life, formulate a position/argument about an ethical issue from multiple perspectives, and use ethical practices in all work.
11. **Skill Enhancement:** The social work offers skill enhancement courses that help the students to enhance their knowledge and develop their skills for getting employment or for self-employment related to social welfare, development and allied areas.
12. **Communication Skills:** Ability to express thoughts and ideas effectively, demonstrate the ability to listen carefully, read and write analytically, and present complex information in a clear and concise manner to different groups.

Programme Specific Outcomes (PSO's)

- To impart education and training in professional social work to develop human resources for social welfare, development and allied fields, with competency of working at various levels of micro, messo and macro systems.
- To develop better understanding about human problems, systemic discrimination and marginalization, issues of social development and needed services through provide interdisciplinary collaboration.
- To impart knowledge and understanding of socio-psychological aspects of human growth and personality development including mental health.
- To develop skills to Practice values and ethics of Social Work Practice with diverse and vulnerable populations.
- To impart knowledge in the learners about methods, techniques and scientific process of social work research.
- To apply various techniques, skills, approaches and model of social work practice which leads to the employment opportunities.

Chairman
Department of Sociology
H.P. University, Shimla-5

Name of Faculty	Name of the Department/Institute/Centre
Education	Physical Education

2.6.1 - The institution has stated learning outcomes (generic and programme specific)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents

Description of 500 Words	Any additional information
The Department of Physical Education has revised the curriculum of M.A. (Physical Education) and M. P. Ed Programme from annual system to semester systems as per the Choice Based Credit System. The revision of the syllabus, and the incorporation of new subjects in line with the needs of contemporary times. All academic programs' outcomes and learning outcomes are clearly stated on the Institute's website under the respective academic programs. Furthermore, the learning outcomes of each course are a part of the course outline, and these are specified on the course file shared with	

The course structure and syllabus of each program provide a scheme of instruction and scheme of evaluation. If a course is of three credits, it is necessarily required to have four units and each unit must be taught for a minimum of 16 hours, making a 3-credit course, carrying 48 hours of instruction. Internal or continuous evaluation is allocated 30 marks and end-semester evaluation is allocated 70 marks. Marks are converted into grades. Each program provides the students with to choose from generic courses, which are precisely offered to expand the knowledge circumference of the student and to initiate them into interdisciplinary fields. This ingredient is expected to enhance the critical thinking of students.

Himachal Pradesh University
(NAAC Accredited 'A' Grade University)
Department of Journalism and Mass Communication

Criterion-2.6.1 evidence list

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Himachal Pradesh University, Shimla – 5 Department of Journalism and Mass Communication

Master of Arts in Journalism and Mass Communication MA (JMC) (CBCS)

Program Outcomes

1. Developing a critical perception of Communication and Mass Communication: Identify the pivotal aspects of the process of Communication and Mass Communication in a myriad of synaptic interactions to assess the communication issues and choose appropriate solutions for problem solving in different communication paradigms.
2. Communication Models and Theories: A critical comprehension of Communication and Mass Communication processes and dynamics. Expertise in various communication models, theories and apply their role in the process of interactivity and exchange of information between various entities in a communication ecosystem.
3. Analytical and cogent problem solving skills in Professional Journalism: The ability to sift through the data and information to analytically arrive upon the solutions for complex problems based on solid groundwork and scientific temperament using the knowledge base acquired in the program.
4. Multimedia Savvy: Technological competence to operate the various tools of Multimedia Production and Digital Image acquisition of the latest standard as being used by the professional Media organizations.
5. Understanding Conceptual frameworks: Comprehension of finer nuances of Cultural and Intercultural Communication, Semiotics, Globalization and Identity for developing an informed outlook on various Communication paradigms.
6. Advertising, Public Relations and promotion expertise: To acquire knowledge about the various tools of Advertising, Public Relations, their various functions and develop acumen for becoming an expert in the various classified vocations as practiced in the professional sectors.
7. Media Laws and Ethics: Acquire and apply critical information about the use of Mass Communication keeping in mind all the legal frameworks in which the communication processes operate. Commit and adhere to professional ethical values while disseminating crucial information for the overall benefit, protection and welfare of the public in which information is being disseminated. The students will have also adequate knowledge of Human Rights and Values.
8. Development Communication: Develop the working environment, participate and support the endeavors of creating a robust information flow and communication

channels for the benefit of the grassroots section of society and empower them with knowledge and their rights by building resolute mass communication frameworks for their emancipation. A comprehensive understanding of Community based communication processes and Media.

9. Communication and Media Research: Commit to understand the value of research and investigation for dissecting the communication and information propagation, consumption and also interpret tangible outcomes regarding the media effects, efficacy of messages and information for providing valuable feedback and suggestions for the media entities. Enriching and providing value to the theoretical and practical knowledge pool of the existing media research.
10. Broadcast Technology and Digital expertise: Become fully capable in operating in a technology intensive broadcast environment involving Television and Radio besides having expertise in their online existence. Develop and make use of practical skills along with theoretical knowledge to arrive upon real world solutions in a world dominated by information and digital technology. Build upon a skill set of a professional Visual Media expert, making use of digital technology, acquisition and post- production to construct successful and influential media messages. Technologically sound knowledge about Mobile and Social Media.
11. Visual Communication and Digital Graphics: Comprehension of the aesthetic roots of Visual grammar, Expertise in Graphic design and professional digital typography. Using the in-depth concepts of Visual Rhetoric, Visual Semiotics, Visual Cognitive and Visual Literacy for producing evocative and creative Communication Productions.

12. Life-long and Experiential learning: Exposure to professional media houses practice and tools through industry visits and interaction. Acquire expertise by participating in practical and hands on exercises. Understanding the importance of Life-long learning and maximize their perspective by constantly adapt to provide workable solutions by making use of newer solutions.

Program Specific Outcomes

PSO 1: To equip and enable the leaner to face the challenges of the ever-changing landscape of media and communication industry with capacity and confidence, and with courage to face

challenging situations.

PSO 2: To sensitize and guide personal goals and professional ambitions to achieve a harmony between personal wellbeing, social responsibility and national interest.

PSO 3: To impart a well-rounded philosophical and theoretical grounding in the varied concerns of mass communication encompassing social, ethical and technological domains.

PSO 4: To foster an enriching environment of creative thinking and technical dexterity where the student emerges as a creator unbound by resources and excited with possibilities.

Course Outcomes

MJMC22101: Communication Theory

After Completion of Course, the students will be able to:

CO 1: Explain communication, its meaning, forms and functions.

CO 2: Describe media and society theory, the mass society, Marxism and political economy.

CO 3: Explain Mass communication theory, dominant vs. alternative paradigm.

CO 4: Describe mass communication models and theories.

CO 5: Describe attitude change, its structure and major findings of attitude change research.

CO 6: Explain social cognition from mass media content

CO 7: Understand active audience theories, media functions vs. media uses, uses and gratifications approach.

CO 8: Explain development of reception studies, Hall's encoding/decoding, Sensemaking; Agenda-setting; Spiral of silence.

MJMC22102: Modern Journalism

After Completion of Course, the students will be able to:

CO 1: Explain journalism, concept, roles and responsibilities in democracy, freedom of speech and expression (Article 19[1] [a] and Article 19[2]).

CO 2: Describe public sphere and public interest, journalism as creative non-fiction, Joseph Pulitzer's New Journalism.

CO 3: Describe traditional and modern journalism roles, various news gathering roles, functions

and qualities.

CO 5: Explain news processing in a newspaper, editorial department and principles of editing.

CO 6: Distinguish between creative non-fiction and features.

MJMC22103: Social Media and Mobile Journalism

After Completion of Course, the students will be able to:

CO 1: To comprehend social media editorial strategies, different platforms, mobile and social media strategy analysis, social media branding and journalism, Social media presence, Search, analyze, Social media posting, Become the go-to journalist.

CO 2: Understand the use of mobile and smart devices for content creation and sharing, and wearable technologies.

CO 3: Explain desktop production along with file formats for documents, video, audio, photograph and image and Pros and cons of file formats for processing, sharing, and net-uploading.

CO 4: Understand production using mobile devices; image processing, video editing, audio editing, presentation, graphic designing; and content sharing using mobile apps.

CO 5: Understand multimedia media production, word processing, newspaper style-sheets, along with photography basics, composition and editing.

CO 6: Understand digital cameras and its types (consumer, prosumer, SLR, mirror-less camera), production, camera shots, movements, composition, perspective and language of vision mixing (transitions).

CO 7: Understand lighting and audio basics, different types of light and sound and their characteristics.

CO 8: Understand graphics, typefaces, fonts and usage.

MJMC22104: Convergence Media

After Completion of Course, the students will be able to:

CO 1: Explain the evolution of digital ICTs, social and mobile media and artificial intelligence.

CO 2: Describe SEO, analytics, cross-platform promotion, click baits, crowd funding, crowd sourcing, geotagging, angel investors and start-ups, 3-D printing

CO 3: Describe Internet of Things, cleverbots and natural language processing, metaverse, Web

3.0 – The semantic web, Singularitarianism, Techno-progressivism, Technological utopianism, Posthuman, Posthumanism and Transhumanism.

CO 4: Describe various types of virtual reality – virtual, immersive, extended, mixed and augmented reality and augmented virtuality.

CO 5: Explain gamification, media violence theories and videogame violence – catharsis, reinforcement and cultivation.

CO 5: Describe Social Information Processing (SIP) Theory and Social Identity Model of Deindividuation Effects.

CO 6: Describe content culture, information overload vs. filter bubble and echo chambers; big data, data mining and reality mining.

CO 7: Understand various concepts of Internet cultures – activism, slackativism, hackactivism; homogenization, hybridization, mobilization, pluralism, fragmentation, polarity; Internet addiction; truth-by-consensus, truthiness, wikiality and post-truth.

MJMC22106: Community and Community Media

After Completion of Course, the students will be able to:

CO 1: Explain the meaning of Community and Concepts of Gemeinschaft and Gesellschaft.

CO 2: Understand Jürgen Habermas' Public Sphere Hermeneutic Communities, Liquid Modern Communities, Postmodern Communities

CO 3: Explain Community as a place, cosmopolitanism, worldliness and the cultural intermediaries, liminality, communitas and anti-structure.

CO 4: Explain Action Research, Community Profiling, Community Studies, Ethnography and Social Network Analysis.

CO 5: Explain Community and Identity and the Symbolic Construction of Community.

CO 6: Describe Community media and its origins, types and examples.

MJMC22201: Advertising and Online Promotion

After Completion of Course, the students will be able to:

CO 1: Define advertising, its objectives and perspectives on consumer behavior, Integrated Marketing Communication along with advertising in marketing mix

CO 2: Understand the concepts of marketing, branding, brand image and positioning along with campaign, campaign planning and strategy.

CO 3: Understand advertising creatives, copy writing and visualization.

CO 4: Understand media strategy, media characteristics, media planning and its process along with developing and implementing media strategies.

CO 5: Understand the types of ad agencies and their role, and evaluating advertising agencies.

CO 6: Understand advertising research, pre-testing (copy testing) and post-testing (tracking studies) and use various research tools

CO 7: Understand online platforms in Advertising, their types such as display types, static/dynamic ads, email ad, button ads, interstitial ads, native ads, etc.

CO 8: Understand mobile and rich-media mobile ads, their advantages and types.

MJMC22202: Broadcast Journalism and Production

After Completion of Course, the students will be able to:

CO 1: Understand Radio/TV eco-system along with TV formats, radio types, distribution platforms, Program genres, programming and scheduling.

CO 2: Explain TV Production Stages including preproduction, production and post-production.

CO 3: Understand broadcast scripting, its tools techniques and strategies, and writing for radio, along with TV news story writing.

CO 4: Describe audio production and sound design, acoustics and insulation, recording with microphones of different polar patterns.

CO 5: Understand digital non-linear editing, along with digital audio workstations, sound mixing boards, compression, mixing and EQ.

CO 6: Understand broadcast announcing and voice acting, vocal breathing and diaphragmatic performance along with announcing styles for Radio, TV and Web TV, voice actingand recording VOs.

MJMC22204: Development Communication

After Completion of Course, the students will be able to:

CO 1: Explain the meaning of development including classical and neo-liberal development theories, structuralism, neo-Marxism and socialism, grassroots development, and social and cultural dimensions of development.

CO 2: Understand various development theories, post-development, globalization, Dependency paradigm and World Systems Theory.

CO 3: Explain developmental and rural extension agencies including governmental, semi-government, and non-governmental organizations along with Panchayati Raj Institutions.
CO 3: Explain Development planning at national, state, regional, district, block and village levels along with major development initiatives at state and national level.
CO 4: Understand the working of United Nations and its bodies along with the concepts of Human Rights, Right to education, Right to work and Right to services.
CO 4: Understand the role of communication in development including the concepts of magic multipliers, development support communication; diffusion of innovations; information and communication technologies for development (ICT4D) participatory development communication.
CO 5: Understand the role of media in national development along with the historical perspective on use of print, radio, TV, video, traditional and folk media, community media for development.
CO 6: Critical appraisal of development journalism in India along and the use of new technologies for development along with designing messages for development.

MJMC22205: Basics of Convergence Media

After Completion of Course, the students will be able to:

CO 1: Explain the evolution of digital ICTs, social and mobile media and artificial intelligence.
CO 2: Describe SEO, analytics, cross-platform promotion, click baits, crowd funding, crowd sourcing, geotagging, angel investors and start-ups, 3-D printing
CO 3: Describe Internet of Things, cleverbots and natural language processing, metaverse, Web 3.0 – The semantic web, Singularitarianism, Techno-progressivism, Technological utopianism, Posthuman, Posthumanism and Transhumanism.
CO 4: Describe various types of virtual reality – virtual, immersive, extended, mixed and augmented reality and augmented virtuality.
CO 5: Explain gamification, media violence theories and videogame violence – catharsis, reinforcement and cultivation.
CO 5: Describe Social Information Processing (SIP) Theory and Social Identity Model of Deindividuation Effects.
CO 6: Describe content culture, information overload vs. filter bubble and echo chambers; big data, data mining and reality mining.
CO 7: Understand various concepts of Internet cultures – activism, slackativism, hackactivism; homogenization, hybridization, mobilization, pluralism, fragmentation, polarity; Internet

addiction; truth-by-consensus, truthiness, wikiality and post-truth.

MJMC22301: Communication Research

After Completion of Course, the students will be able to:

CO 1: Define research, its meaning, objectives, motivation, and significance along with types of research, and difference between research methods and methodology.

CO 2: Explain research process, its procedure along with criteria of good research, selecting and defining the research problem and report writing.

CO 3: Explain Independent and dependent variables, Discreet and continuous variables along with Sampling, Research questions and Hypotheses

CO 4: Understand different research approaches, namely, quantitative and qualitative.

CO 4: Understand research designs including exploratory, descriptive and experimental, along with types of experimental designs and sources of data.

CO 5: Describe primary data collection methods, projective techniques, depth interviews, content analysis, secondary data and case study method.

CO 6: Understand data analysis and data processing including coding, classification and tabulation of data.

CO 7: Understand meaning and purpose of hypothesis and tests of hypotheses.

CO 8: Understand the process and steps of report writing, oral presentation, and precautions.

MJMC22302: Public Relations and Public Opinion in Digital Age

After Completion of Course, the students will be able to:

CO 1: Understand public relations and Stakeholders PR namely Media relations, internal communications, corporate community involvement, financial public relations and public sector PR.

CO 2: Understand Strategic PR including corporate communication, corporate identity, public affairs and issues management, CSR, crisis communication, event management and image management.

CO 3: Understand public relations theory and PR Approaches including Systems theory; Situational theory; Rhetoric Theories in PR, PR as relationship management; PR as social exchange along with PR Research and PR audits

CO 4: Explain online PR, online influencers, online tools and platforms and online engagement.

CO 5: Explain public opinion concept and process, its components and approaches to public opinion.
CO 6: Describe propaganda with an understanding of Lippmann's propaganda theory, Laswell's model, Bernay's Public Opinion Crystallization, and Chomsky and Herman Propaganda Model.
CO 6: Understand Public Relations and Attitude formation with the help of Hovland's Yale Model of Persuasion, Bandura's Social Learning Theory, Elaboration Likelihood Model, Symbolic Interactionism, McGuire's Inoculation Theory and Cognitive Dissonance Theory.

MJMC22305: Media and Cultural Studies

After Completion of Course, the students will be able to:
CO 1: Understand Culture, its meaning and definition, characteristics, classification (macro and micro, and material and non-material culture), concepts of mass culture, pop culture, subculture, counterculture.
CO 2: Explain identity and related concepts – self-concept, personal vs. social identity, constituents of identity, Identity change, identity negotiation.
CO 3: Describe semiotic ideology and meaning making, Saussure's signifier, signified and signification.
CO 4: Explain Ideology and its meaning, interaction of ideology, signs and meaning.

CO 5: Understand symbolic interactionism, social constructionism, framing and frame analysis, cultivation analysis and the media literacy movement.
CO 6: Describe Globalization and its concept, meaning, driving forces, Global trade in media culture, global media culture, capitalism and the rise of consumer culture.
CO 7: Understand multinational media ownership and control, varieties of global mass media International news flow, and NWICO.
CO 8: Understand Hofstede's cultural dimensions theory, communication accommodation and inter-culture networks, cultural change and cultural convergence.

MJMC22401: Media Ethics, Laws and Development
After Completion of Course, the students will be able to:

CO 1: Explain the concepts of public sphere, public interest and citizen rights.

C) 2: Describe media regulatory framework in India including Press Council of India, NBA's News Broadcasting, Standards Authority, IBF's BCCC, Central Board of Film Certification along with Press Council's Norms for Journalistic Conduct.

CO 3: Understand, Internet Corporation for Assigned Names and Numbers, UN Internet Governance Forum, INTELSAT, COMSAT and TRAI.

CO 3: Understand laws pertaining to contempt, parliamentary privileges, industry regulation, censorship, cinematography, defamation and obscenity.

CO 4: Understand Intellectual Property Rights and its types, Trial by media, Sting Operation (use and misuse) paid news, fake news, Post-truth, "leaks" and market-driven journalism.

CO 5: Know the history of Indian media including pioneers of Indian journalism and restrictions up to 1835, the Indian press after1857 revolt, the emergence of the Nationalist press and the Indian press between the first and second world war.

CO 6: Understand the development of post-independence media in India including the press, radio and television.

MJMC22402: Visual Communication and Design

After Completion of Course, the students will be able to:

CO 1: Explain aesthetic theory including philosophical, artistic and scientific perspective along with visual rhetoric.

CO 2: Understand visual theories such as visual cognitive theory, cognition as intuitive and rational, visual cognition models, omniphasism, and visual semiotics theory.

CO 3: Understand visual literacy and attain visual literacy skills and critical viewing.

CO 4: Understand graphic design along with graphic design movements leading to computer graphics and interactivity.

CO 5: Explain design perception including seeing and believing, figure/ground and shapes.

CO 6: Understand graphic design process, elements of design, principles of design and typography.

CO 7: Understand typeface and decisions in selection of typefaces along with colour in design, the relativity and psychology of colour.

CO 8: Understand layout, photography along with printing and production.

MJMC22406: Ethico-legal Issues in Media

After Completion of Course, the students will be able to:

CO 1: Explain the concepts of public sphere, public interest and citizen rights.

C) 2: Describe media regulatory framework in India including Press Council of India, NBA's News Broadcasting, Standards Authority, IBF's BCCC, Central Board of Film Certification along with Press Council's Norms for Journalistic Conduct.

CO 3: Understand Intellectual Property Rights and its types.

CO 3: Understand laws pertaining to contempt, parliamentary privileges, industry regulation, censorship, cinematography, defamation and obscenity.

CO 4: Trial by media, Sting Operation (use and misuse) paid news, fake news, Post-truth, "leaks" and market-driven journalism.

CO 5: Know the history of Indian media including pioneers of Indian journalism and restrictions up to 1835, the Indian press after1857 revolt, the emergence of the Nationalist press and the Indian press between the first and second world war.

CO 6: Understand the development of post-independence media in India including the press, radio and television.

MJMC22105: Value-added Communication Practice-1

After Completion of Course, the students will be able to:

CO 1: Learn and prepare a Group Project on Media assignment as directed.

CO 2: Hands on learning by making a project on Blog and Content writing.

CO 3: Learn effective skills for appearing in an interview for a job.

CO 4: Learning Typing Skills

CO 5: Learning practical Communication soft skills

CO 6: Learning how to prepare a Lab Journal and Current Affair File.

MJMC22203: Value-added Communication Practice-2

After Completion of Course, the students will be able to:

CO 1: Learn effective skills for appearing in an interview for a job.

CO 2: Learning to prepare a Group Project in Development Communication (using Broadcast Journalism skills)

CO 3: Hands on learning with a practical Media Workshop.

CO 4: Practical skill learning by preparing a Current Affair file and Lab Journal.
CO 5: Learning practical Communication soft skills by participating in a Group Discussion.
CO 6: Practical field skills learning by undertaking a Mini-Project or Internship.

MJMC22303: Value-added Communication Practice-3

After Completion of Course, the students will be able to:
CO 1: To understand Gender Sensitization and Human Values and Indian Ethos Sensitization by a Workshop.
CO 2: Learning about Intellectual Property Rights in a Workshop.
CO 3: Learning about Disaster Management and Preparedness Workshop (with special emphasis on role of journalists).
CO 4: Learning Innovations, startups and entrepreneurship in a Workshop.
CO 5: Understanding Cyber Security in a Workshop.
CO 6: Learning about Conflict and crisis reporting in a workshop.
CO 6: Understanding Critical Appraisal Skills for Health Journalism Workshop.
CO 7: Undertaking and learning about Community Service and Engagement.

MJMC22304: Industry Internship
After Completion of Course, the students will be able to:

CO 1: Join an organization of repute working either in the area of mass communication or the communication department of an organization of repute,
CO 2: For Internship undertake the following work profiles: writing, copy editing, production or designing in television, radio, print publications, internet publications, etc.
CO 3: Undertake the training in Editorial or Field Reporting.
CO 4: For Students working in Advertising, PR and Media Industry have to take any Designation available.
CO 5: Give a display of personal interview skills.
CO 6: Give a display of Computer application skills.

MJMC22404: Dissertation

After Completion of Course, the students will be able to:

CO 1: Introduce a learner to the rigors for practical aspects of research in the field of communication.

CO 2: Preparing a student to take up and complete research projects in a professional manner either in the industry or academics.

CO 3: Explain research process, its procedure along with criteria of good research, selecting and defining the research problem and report writing.

CO 4: Understand different research approaches, namely, quantitative and qualitative.

CO 4: Understand research designs including exploratory, descriptive and experimental, along with types of experimental designs and sources of data.

CO 5: Describe primary data collection methods, projective techniques, depth interviews, content analysis, secondary data and case study method.

CO 6: Understand data analysis and data processing including coding, classification and tabulation of data.

CO 7: Understand meaning and purpose of hypothesis and tests of hypotheses.

CO 8: Understand the process and steps of report writing, oral presentation, and precautions.

MJMC22405: Major Project

After Completion of Course, the students will be able to:

CO 1: Students will learn to conduct an inquiry using a variety of methods (e.g. case study, observation and analysis, planning, etc.)

CO 2: Learning to undertake a task or study a subject and write a report in line with the objectives of the project.

CO 3: Learning to address a real life problem and the procedures and practices used in industry. Students may will plan, implement, or evaluate projects that have real-world applications beyond the classroom.

CO 4: Learning to make a project by taking up one of the following types of approaches: case study, service learning projects, work-based projects, task-oriented projects, or problem-solving projects.

CO 5: Learning to make a project with following features: A definite beginning, middle, and end; directly observable information; real-world problems;

CO 6: Doing first-hand investigation; tangible outcomes that can be shared with the stakeholders; evidence of reflective thinking by the student.

CO 7: Learning to prepare and submit a Major Project Report (up to ten thousand words) which will be assessed by external experts.

Himachal Pradesh University, Shimla - 171005
(NAAC Accredited 'A' Grade University)
Department of Journalism and Mass Communication

Proceedings of the meeting of PG Board of Studies in Journalism and Mass Communication

Date and time: 17 November 2022 (12.15 pm)
Venue: Online (Link: https://meet.google.com/cfm-apta-pzi)

The following were present:

1. Dr. Kanwaljit Singh, Associate Professor, Dept. of Journalism and Mass Communication, HPU – Chairman/Convener
2. Mr. Jyoti Kamal, Executive Editor, Network 18 Punjab – External Expert
3. Prof. Shashi Kant, Dept. of Journalism and Mass Communication, HPU – Member
4. Prof. Vikas Dogra, Dept. of Journalism and Mass Communication, HPU – Member
5. Mr. Ajai Srivastava, Associate Professor (Journalism and Mass Communication), ICDEOL, HPU – Member
6. Dr. Ajay Kumar, Assistant Professor, Dept. of Journalism and Mass Communication, HPU – Member

Item 1: To update and modify norms and syllabus of Master of Arts in Journalism and Mass Communication in view of the introduction of CBCS with effect from academic session 2022-23.
Decision: After a detailed discussion, the members recommended the modifications to the norms, programme structure and syllabus of Master of Arts in Journalism and Mass Communication according to CBCS norms to be applicable w.e.f. Academic Session 2022-23 as per Annexure A.

Item 2: To decide the norms and course work for Doctor of Philosophy in Journalism and Mass Communication (Ph.D. in Journalism and Mass Communication).
Decision: After a detailed discussion, the BoS members recommended the norms and course work for Doctor of Philosophy in Journalism and Mass Communication (Ph.D. in Journalism and Mass Communication) to be applicable w.e.f. Academic Session 2022-23 as per Annexure B.

(Ajay Kumar) (Ajai Srivastava) (Vikas Dogra)

(Shashi Kant) (Jyoti Kamal) (Kanwaljit Singh)

विभागाध्यक्ष
पत्रकारिता एवं जन संचार विभाग
हि०प्र० विश्वविद्यालय, शिमला-5

Annexure A

Himachal Pradesh University, Shimla – 171005

Department of Journalism and Mass Communication

Norms, Structure and Programme Contents

Master of Arts in Journalism and Mass Communication MA(JMC)

w.e.f. Academic Session 2022-23

<u>As Per CBCS Norms</u>

Approved in PG-BoS held on 17.11.2022

(Ajay Kumar) sd	(Ajai Srivastava) sd	(Vikas Dogra) sd
(Shashi Kant) sd	(Jyoti Kamal) sd	(Kanwaljit Singh) sd

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Norms and Structure

for Master of Arts in Journalism and Mass Communication/ MA(JMC)

Programme Information

Duration: Two years (Full-time)

Minimum credits: 100

Total seats: 30 (25 subsidized + 05 non-subsidized)

Supernumerary seats: As per Himachal Pradesh University norms.

Reservation: As per Himachal Pradesh University norms. The reserved seats shall be worked out on the basis of the existing 120-point roster.

Fee structure:

- Subsidized seats: Fees and charges as per Himachal Pradesh University Rules
- Non-subsidized seats: Rs.20000 per semester along with other charges/fees of the University

Eligibility Criteria

Age Limit: As per Himachal Pradesh University norms.

Educational Qualifications: Graduation (or equivalent) degree in any discipline from a recognized University established by law with at least 50% marks (45% marks) in case of SC/ST candidates).

Admission: The admission shall strictly be on the basis of merit achieved in the entrance process. The entrance process will be of 100 marks and will be held in two stages: Stage 1 – Written Test (80 marks); and Stage 2 – Personal Interview (20 marks). The marks of both the written test and personal interview will be added for the final merit. A maximum of three-times the candidates in each category will be invited for the personal interview stage. A minimum of 35 percent (aggregate of Stage 1 and Stage 2) in the entrance process are required to qualify for admission.

Degree requirements:

i. To be eligible for the award of the degree of MA(JMC) a candidate must secure a minimum of **100 credits, subject to the following minimum conditions:**
   a) Core Courses: 14 courses (or 80 credits), including 10 Discipline Specific Core (or 60 credits) and four Skill Enhancement Core Courses (or 20 credits). In addition to this one non-CGPA Ability Enhancement Course is mandatory.
   b) Discipline Specific Elective Courses: Three courses (or 12 credits)
   c) Generic Elective Courses: Two courses (or 08 credits) from other disciplines

ii. In each individual course, a candidate must secure a minimum of 40% marks each in internal assessment, practical exam, and semester-end theory exam to pass a course and earn credits in that course.

iii. Attendance: 75% of total lectures delivered in all courses/papers, including Cleanliness Drive and Mentorship programme.

Internal Assessment (IA): Internal Assessment shall be based on the performance in the class (CCA) along with attendance. CCA shall be based on one or some of the following: class tests, quiz, assignments, classroom participation, seminars, presentations, discussions, group exercises, etc. The marks for attendance shall be awarded to regular students as follows:

Classroom Attendance Incentive: Those having greater than 75% attendance (25% will be added to percent attendance of students representing the University in co-curricular activities) will be awarded IA marks as follows: ≥ 75% but < 80% – 1 mark; ≥ 80% but < 85% – 2 marks; ≥85% but <90% – 3 marks; ≥ 90% but < 95% – 4 marks; and ≥95% – 5 marks.

Details of Written Test for Admission
to Master of Arts in Journalism and Mass Communication

The written test will be of 90 minutes. There will be no negative marking. The written test shall have two parts, A and B, as follows:

Part A – General Aptitude Test – 60 marks
Part B – Subjective-type Test– 20 marks

Part A

General Aptitude Test (60 Multiple Choice Questions of one mark each). All questions are compulsory.
Instructions:

1. Logical Ability – 10 marks
2. Current Affairs – 10 marks
3. General Knowledge – 10 marks
4. English Language Ability – 15 marks

   One Comprehension para graph (to evaluate analytical ability and reasoning) – 5
   Vocabulary – Synonyms (2); Antonyms (2)
   Grammar – Sentence improvement (2); Word substitution (2); Spotting the errors (2)
5. Hindi Language Ability – 15

   One Comprehension para graph (to evaluate analytical ability and reasoning) – 5
   Vocabulary – Synonyms (2); Antonyms (2)
   Grammar – Sentence improvement (2); Word substitution (2); Spotting the errors (2)

Part B

Subjective-type Test (Two long-answer questions of 10 marks each)

1. English paragraph – 10 marks

   One paragraph in English in 200 words on one out of the two given current affairs topics. The candidate should strictly adhere to the word limit and write the paragraph in English only.
2. Hindi paragraph – 10 marks

   One paragraph in Hindi in 200 words on one out of the two given current affairs topics. The candidate should strictly adhere to the word limit and write the paragraph in Hindi only.

List of Courses

Discipline Specific Core Courses

Course Code					Title of the course	Credits				Marks Distribution			
LE	**SUB**	**YR**	**SEM**	**NO.**		**L**	**T**	**P**	**TOT**	**IA ~**	**PR**	**ESE**	**TOT**
Semester – I													
M	JMC	22	1	01	Communication Theory	5	1	0	6	20	0	80	100
M	JMC	22	1	02	Modern Journalism	4	1	1	6	20	0	80	100
M	JMC	22	1	03	Social Media and Mobile Journalism	4	1	1	6	20	0	80	100
M	JMC	22	1	04	Convergence Media	4	1	1	6	20	0	80	100
Semester – II													
M	JMC	22	2	01	Advertising and Online Promotion	4	1	1	6	20	0	80	100
M	JMC	22	2	02	Broadcast Journalism and Production	4	1	1	6	20	0	80	100
Semester – III													
M	JMC	22	3	01	Communication Research	5	1	0	6	20	0	80	100
M	JMC	22	3	02	Public Relations and Public Opinion in Digital Age	4	1	1	6	20	0	80	100
Semester – IV													
M	JMC	22	4	01	Media Ethics, Laws and Development	5	1	0	6	20	0	80	100
M	JMC	22	4	02	Visual Communication and Design	4	1	1	6	20	0	80	100

Skill Enhancement Core Courses

Semester – I													
M	JMC	22	1	05	Value-added Communication Practice-1	0	0	4	4	20	80	0	100
Semester – II													
M	JMC	22	2	03	Value-added Communication Practice-2	0	0	6	6	20	80	0	100
Semester – III													
M	JMC	22	3	03	Value-added Communication Practice-3	0	0	6	6	20	80	0	100
Semester – IV													
M	JMC	22	4	03	Comprehensive Viva Voce	0	0	4	4	0	100	0	100

Ability Enhancement Core Course*

Semester-III													
M	JMC	22	3	04	Industry Internship*	0	0	4	4	20	80	0	100

Discipline Specific Elective Courses

Semester-I													
M	JMC	22	1	06	Community and Community Media	3	1	0	4	20	0	80	100
Semester – II													
M	JMC	22	2	04	Development Communication	3	1	0	4	20	0	80	100
Semester-III													
M	JMC	22	3	05	Media and Cultural Studies	3	1	0	4	20	0	80	100
Semester-IV													
M	JMC	22	4	04	Dissertation	0	1	3	4	20	80	0	100
M	JMC	22	4	05	Major Project	0	0	4	4	20	80	0	100

Generic Elective Courses^

Semester II													
M	JMC	22	2	05	Basics of Convergence Media	4	0	0	4	20	0	80	100
Semester IV													
M	JMC	22	4	06	Ethico-legal Issues in Media	4	0	0	4	20	0	80	100

^Generic Elective Courses listed here are inter-departmental and are available only for students of other disciplines. A maximum of 30 seats are available per course per semester on first-come-first-serve basis.

*Mandatory Non-CGPA Core Course.

List of abbreviations

ESE End-semester Examination
IA Internal Assessment
JMC Journalism and Mass Communication
L Lecture
LE Level
M Master of Arts
PR Practical Exam
SEM Semester
SUB Subject
T Tutorial
TOT Total marks
YR Year of introduction

MA(JMC) Programme Structure

Sem	Core Courses[&] (80 credits)		Non-credit Core Course	Elective Courses (20 credits)	
	Discipline Specific Core (60 credits)	**Skill Enhancement Core (20 credits)**	**Ability Enhancement Core Course**	**Discipline Specific Elective[$] (12 credits)**	**Generic Elective (8 credits)***
I	Communication Theory (6) Modern Journalism (6) Social Media and Mobile Journalism (6) Convergence Media (6)	Value-added Communication Practice-1 (4)		Community and Community Media (4)	
II	Advertising and Online Promotion (6) Broadcast Journalism and Production (6)	Value-added Communication Practice-2 (6)		Development Communication (4)	Generic Elective -1 (4)
III	Communication Research (6) Public Relations and Public Opinion in Digital Age (6)	Value-added Communication Practice-3 (6)	Industry Internship[@]	Media and Cultural Studies (4)	
IV	Media Ethics, Laws and Development (6) Visual Communication and Design (6)	Comprehensive Viva Voce (4)		Dissertation[#] (4) Or Major Project (4)	Generic Elective -2 (4)

[&] All core courses are compulsory, including Discipline Specific and Skill Enhancement Core Courses.

[#] Only regular students (with the exception of foreign nationals) who have accumulated 54 credits with an aggregate of at least 60 percent marks in semesters I and II can opt for this course.

[*] Each candidate has to earn eight credits from the basket of generic elective (GE) courses *offered by other Departments of the University.* Each GE course is of four credits.

[$] A student has to opt for at least three Discipline Specific Elective Courses throughout the duration of the degree programme, selecting a maximum of one course per semester.

[@] Industry Internship can be undertaken after 3rd semester end-semester examinations. This is a non-CGPA mandatory course. The credits for this course will not be added to the aggregate credits earned by a candidate for the degree programme.

Communication Theory

Course Code	MJMC22101							
Course Title	Communication Theory							
Course Credits	Lecture		Tutorial		Practice		Total	
	5		1		0		6	
Contact hours	75		15		0		90	
Examination Scheme	Internal Assessment		Practical Examination		End-semester Examination		Total Marks	
	Attendance	CCA						
	5	15	0		80		100	
Course objective	This course aims to steer a student towards understanding the role and importance of communication in society. The course also builds a theoretical background for understanding how communication works. This course lays the theoretical base for applied communication courses.							
Pass marks	IA		Practical		ESE		Total	
	Max	Pass	Max	Pass	Max	Pass	Max	Pass
	20	40%	00	00	80	40%	100	40%

Instructions for Paper Setters:

Maximum time: 3 hours.

Part A	Ten short answer (50 words) questions covering the entire syllabus for two marks each. All questions are compulsory.	10 x 2 = 20 marks
Part B	This section shall have five sub-sections covering the five units of the syllabus. One out of two questions from each sub-section is to be answered (500 words) for 12 marks each.	5 x 12 = 60 marks
Total Marks (A+B)		80 marks

Course Contents:

Unit	Topic	Contact Hours		
		L	T	P
I	BASIC CONCEPTS Communication: Meaning, Forms, Functions; 'Mass' concept: Mass society, mass audience, mass communication and its process Media and society theory: the mass society, Marxism and political economy, functionalism (*including* power and inequality, social integration and identity, social change and development, space and time) Mass communication theory: Dominant vs. alternative paradigm for theory and research Normative Media Theories: Authoritarian theory, Libertarian theory, Social Responsibility theory, Soviet media theory, Development media theory and Democratic-participant media theory	15	3	0
II	DIRECT EFFECTS Lasswell's Propaganda, Walter Lippmann's Public Opinion, Herman and Chomsky's Propaganda Theory; Bullet theory and S-R model; Berlo's SMCR model; Schramm's Field of Experience model; Osgood & Schramm's circular model; Lasswell formula; Shannon and Weaver's Mathematical Model.	15	3	0
III	LIMITED EFFECTS Lazarsfeld's Two-step flow theory and personal Influence;	15	3	0

	Attitude Change: Attitude: definition, structure & role; major findings of Hovland's attitude-change (persuasion) research; Selective Exposure, Selective Attention, Selective Perception; Klapper's Reinforcement (Phenomenistic) Theory; Krugman's Theory of Low Involvement; Festinger's Cognitive Dissonance Theory; Catharsis and media.			
IV	FUNCTIONALISM AND ACTIVE AUDIENCE Television Violence Theories; Social Cognition from Mass Media; Transmission versus Ritual Perspectives Active-Audience Theories: Media Functions vs. Media Uses, Uses-and-Gratifications Approach, Uses-and-Gratifications Research and Effects Development of Reception Studies: Hall's Encoding/Decoding Communication Decoding and Sensemaking; Agenda-Setting; Neuman's Spiral of Silence; Second Level Agenda Setting	15	3	0
V	SEMIOTICS, IDEOLOGY AND MEANING-MAKING Semiotics: Saussure's signifier, signified and signification; Sign: meaning and categories; Codes: meaning and categories; Signification (denotation, connotation, myth, symbols, metaphor, metonymy) Ideology: Its meaning and definitions; interaction of ideology, signs and meaning	15	3	0

Essential Reading:

- Andal, N. (2005). *Communication Theories and Models.* Bangalore: Himalaya Publishing House.
- Baran, S. J., and Davis, D. K. (2012). *Mass Communication Theory: Foundations, Ferment, and Future* (6th Ed). Wadsworth, Cengage Learning
- Fiske. J. (2011). *Introduction to Communication Studies: Studies in Culture and Communication* (3rd Ed). Oxon: Routledge.
- McQuail, D. (2010). *McQuail's Mass Communication Theory* (6th Ed). London, Thousand Oaks, New Delhi, Singapore: Sage Publications.
- Rosengren, E. K. (2000). *Communication: An Introduction.* London: Sage Publications.

Additional Reading:

- Aggarwal, V. B. and Gupta, V. S. (2002). *Handbook of Journalism & Mass Communication.* New Delhi: Concept Publication Company.
- Kumar, K. J. (2007). *Mass Communication in India* (4th Ed). Mumbai: Jaico Publishing House.
- Narula, U. (2006). *Handbook of Communication: Models, Perspectives and Strategies. New Delhi:* Atlantic Publications.
- West, R., and Turner, L. H. (2010). *Introducing Communication Theory: Analysis and Application* (4th Ed). McGraw Hill

Modern Journalism

Course Code	MJMC22102							
Course Title	Modern Journalism							
Course Credits	Lecture		Tutorial		Practice		Total	
	4		1		1		6	
Contact hours	60		15		30		105	
Examination Scheme	Internal Assessment		Practical Examination		End-semester Examination		Total Marks	
	Attendance	CCA						
	5	15	0		80		100	
Course objective	This course builds the basic foundation of a budding journalist, helping her understand basics arts of journalism: reporting and editing in the changing media landscape. Through a journey into various facets of and approaches to news, it prepares the learner to be a responsible journalist and for an entry level positions in any news organisation.							
Pass marks	IA		Practical		ESE		Total	
	Max	Pass	Max	Pass	Max	Pass	Max	Pass
	20	40%	0	0	80	40%	100	40%

* Practical examination to be conducted internally.

Instructions for Paper Setters:

Maximum time: 3 hours.

Part A	Ten short answer (50 words) questions covering the entire syllabus for two marks each. All questions are compulsory.	10 x 2 = 20 marks
Part B	This section shall have five sub-sections covering the five units of the syllabus. One out of two questions from each sub-section is to be answered (500 words) for 12 marks each.	5 x 12 = 60 marks
Total Marks (A+B)		80 marks

Course Components:

Unit	Topic	Contact Hours		
		L	T	P
I	JOURNALISM IN THE AGE OF ICT Journalism: Concept, Roles and responsibilities in democracy; Freedom of speech and expression (Article 19[1] [a] and Article 19[2]) Concepts of Public Sphere and Public Interest Journalism as creative non-fiction: Joseph Pulitzer's New Journalism, Literary Journalism, Narrative Journalism, Immersive Journalism and Lifestyle Journalism. News: meaning, definition, news values; Elements (attribution, accuracy, verification, balance, fairness, brevity); dateline, credit line, byline, The news process: from the event to the reader (how news is carried from event to reader with emphasis on ICTs);	12	3	6
II	TRADITIONAL AND MODERN NEWS PRODUCTION Organizing a news story, 5W's and 1H, Inverted pyramid Lead: importance, types of lead; Body copy Changes in news worthiness, news selection, and news construction for internet- and mobile-based outlets. Use of archives, sources of news; use of online sources, search engines, big data and social media for news Use of multimedia content in news; use of infographics Critical concerns: Trial by media, Sting Operation (use and misuse)	12	3	6

	Paid news, fake news, Post-truth, "Leaks"; Yellow Journalism, Penny Press, Tabloid Journalism; Speed vs. accuracy in the digital world; Market-driven journalism			
III	NEWS GATHERING ROLES Reporter: role, functions and qualities General assignment reporting/working on a beat; news agency reporting; reporting for online news service and blogs Covering Speeches, meetings and press conferences Covering of beats: crime, courts, city reporting, local reporting, local bodies, hospitals, health, education, sports. Interviewing: doing the research, setting up the interview, conducting the interview, different ways of using the interview in a news story Overlapping roles and changing styles and subjects in the ICT age	12	3	6
IV	NEWS PROCESSING Newsroom, organizational setup of a newspaper; Editorial department; Role of Chief-sub, sub/copy-editor, editor and news editor, chief of bureau, city chiefs, and correspondents; Photo-editor and photographers Introduction to editing: Principles of editing, importance of style sheet; Headlines: functions and types, typography, language and style Pictures: Importance of pictures, selection of news pictures, editing photographs, photo captions. Editorial and Op. Ed. page: structure, purpose, edits, middles, letters to the editor, special articles, opinion pieces News processing for online news services and blogs; overlapping roles	12	3	6
V	CREATIVE NON-FICTION Features: Types of features and human interest stories Creative strategies for idea generation: Generating alternatives, challenging assumptions, the reversal method, analogy technique, choice of entry point and attention area, snowballing, random stimulation Structuring the feature: Theme statement, scratch outline, inverted pyramid approach, nut graph, five-box approach, linear, circular and frame narratives Week-end pullouts, supplements, backgrounders; Columns	12	3	6

Essential Reading:

- Baskette and Scissors. *The Art of Editing.* Allyn and Bacon.
- Bender, J. R., Davenport, L. D., Drager, M.W., and Fedler, F. (2016). *Reporting for the Media* (11th Ed). Oxford University Press
- De Bono, E. (1990). *Lateral Thinking: A Textbook of Creativity*. London: Penguin Books
- De Bono, E. (2007). *How to Have Creative Ideas.* Random House
- Flemming, C., and Hemmingway, E. (2006). *An Introduction to Journalism.* Vistaar Publications.
- Hodgson, F.W. *Modern Newspaper Practice: A Primer on the Press.* Focal Press.
- Itule, B. D., and Anderson, D. (2000). *News Writing and Reporting for Today's Media.* NY: McGraw Hill.
- Keeble, R. (2006). The Newspaper's Handbook. Routledge
- Ludwig, M. D. (2005). *Modern News Editing. New York:* Wiley-Blackwell.
- Rodmann, G. (2007). *Mass Media in a Changing World*. Mcgraw Hill Publication.

- Stein, M.L., Paterno, S. and Burnett, R. C. (2006). *News writer's Handbook: An Introduction to Journalism*. Blackwell Publishing.
- Kramer, M. & Call, W. (2007). *Telling True Stories: A Non-fiction Writers Guide*. NY: Plume-Penguin

Additional Reading:

- Chaturvedi, S. N. *Dynamics of Journalism and Art of Editing*. Cyber Tech Publications.
- Fedler, F. (1989). *Reporting for the Print Media* (4th Ed). NY: Harcout, Bruce Jovanovich Inc.MacDougall and Daniel, C. (1973). *Principles of Editorial Writing.* W.C. Brown Co.
- Evans, H. (1974). *Editing and Design* (Five Volumes). London: William Heinamann.
    - Book one: *New Man's English*
    - Book Two: *Handling Newspaper Text*
    - Book Three: *News Headlines*
    - Book Four: *Picture Editing*
    - Book Five: *Newspaper Design*
- Mencher, M. (2003). *News Reporting and Writing.* NY: McGraw Hill.
- Meera, R. (2009). *Feature Writing.* New Delhi: PHI Learning Pvt. Ltd.
- Roorbach, B. (1998). *Writing life stories.* Cincinnati, OH: Story Press.
- Sims, N. (2008). *True Stories: A Century of Literary Journalism*. Northwestern University Press

Harrington, W. (Ed.) (1997). *Intimate Journalism: The Art and Craft of Reporting Everyday Life. New York:* Sage Publications.

Social Media and Mobile Journalism

Course Code	MJMC22103							
Course Title	Social Media and Mobile Journalism							
Course Credits	Lecture		Tutorial		Practice		Total	
	4		1		1		6	
Contact hours	60		15		30		105	
Examination Scheme	Internal Assessment		Practical Examination		End-semester Examination		Total Marks	
	Attendance	CCA						
	5	15	00		80		100	
Course objective	This course introduces the learner to varied multimedia technologies, concepts and production basics using these technologies initiating the learner into seamlessly producing multimedia content for most media platforms, especially the Internet. The course also prepares budding journalists to use mobile devices and social media as professional journalists in three main ways: newsgathering, distributing content, and engaging with the audience. They will learn the fundamental skills that news operations require in the modern world.							
Pass marks	IA		Practical		ESE		Total	
	Max	Pass	Max	Pass	Max	Pass	Max	Pass
	20	40%	00	00	80	40%	100	40%

Instructions for Paper Setters:

Maximum time: 3 hours.

Part A	Ten short answer (50 words) questions covering the entire syllabus for two marks each. All questions are compulsory.	10 x 2 = 20 marks
Part B	This section shall have five sub-sections covering the five units of the syllabus. One out of two questions from each sub-section is to be answered (500 words) for 12 marks each.	5 x 12 = 60 marks
Total Marks (A+B)		80 marks

Course Components:

Unit	Topic	Contact Hours		
		L	T	P
I	THINKING AUDIENCE News Consumption on mobile and social media Impact on: Journalists, Newsgathering, Distribution of news, Audience engagement, Class hashtag, Staying informed Social media editorial strategies, Keep them coming back for more; The power of social media providers; Different platforms, different approaches; Mobile and social media strategy analysis; Social media branding and journalism Social media presence: Search, analyze and act, Assume everything is public, Building a social media brand, Separate personal and professional accounts, Online spaces, Creating standout social media profiles, Consistency, Social media post, Become the go-to journalist, Social media audit, Build your presence; Beyond the "final" story: Continuing the conversation, Measuring the success of mobile and social media activity, Use social media and web analytics in newsrooms	12	3	6
II	MULTIMEDIA MEDIA PRODUCTION-I	12	3	6

	Digital Hardware: Working Remotely, Equipment and Accessories, Production Apps, Shooting and Editing Video, Recording and Editing Sound, Still Photography Digital cameras (Consumer, Prosumer, SLR, Mirrorless camera); CCD and CMOS sensors; APS-C, Four-thirds, One-inch and Full Frame sensor sizes; Audio capture and mixing devices Mobile and smart devices for content creation and sharing; wearable technologies; Mobile device production and post production accessories and tools; Live-casting using mobile devices Offline and cloud storage and sharing, FTP, Networking, Wireless connections, Internet connectivity and bandwidth			
III	MULTIMEDIA MEDIA PRODUCTION-II Word processing: Understanding newspaper stylesheets Photography basics: Composition and Editing Video basics: Basic camera shots, movements, composition, perspective; language of vision mixing (transitions) Lighting: Hard and soft light, cool and warm light, interior and exterior light, natural and artificial sources Audio basics: Diegetic and non-diegetic sound; mono, stereo and surround sound; Characteristics of sound (pitch, duration, loudness, timbre, texture, attach, decay, rhythm and spatial location); Graphics: Types of typefaces and fonts	12	3	6
IV	FROM THE FIELD: THE MOBILE JOURNALIST Digital-First Mindset: Mobile and social first, Planning Your Story: The digital-first story pitch, different types of stories, different approaches Mobile-First Workflow: A digital juggling act, Workflow in Action, Website Tutorials, Mobile-first discussion, Teaching moment, MOJO groove, Live covering, Scavenger hunt Social media optimization; Writing for social media and mobile devices	12	3	6
V	SOCIAL MEDIA ENGAGEMENT AND AUDIENCE ANALYTICS Online Measures: Concepts: Click baits, Page views vs. Unique Page Views, Hits, Cost of Ignoring, SEO, Conversion rate, Audience engagement Sterne's Social media measures: Buzz, popularity, fans/followers/friends, mainstream media mentions, virality, second-degree reach, downloads/uploads, likes/favorites, comments/ratings, bookmarks, subscriptions, page views, sentiment, engagement rate Google Analytics, Google Adsense, Facebook Insights, Twitter Analytics Pitfalls of analytics, Analytics tools, Report, Share, Experiment, Measure, Adjust			

Essential Reading:

- Bull, A. (2015). *Multimedia Journalism: A Practical Guide*. Routledge
- Kindem, G., and Musburger, R. B. (2009). *Introduction to Media Production: The Path to Digital Media Production* (4th Ed). Focal Press
- Li, Z., and Drew, M. S. (2004). Fundamentals of Multimedia. NJ: Pearson Education International
- Orlebar, J. (2002). *Digital Television Production: A Handbook.* London and NY: Arnold
- Villamil-Casanova, J., and Molina, L. (1997). *Multimedia Production, Planning and Delivery.* Prentice Hall
- Gunter, B. (2000). *Media Research Methods: Measuring Audiences, Reactions and Impact.* London, Thousand Oaks, New Delhi: Sage Publications

- Kohli-Khandekar, V. (2013). *The Indian Media Business* (4th Ed). LA, London, New Delhi, Singapore, Washinton DC: Sage.
- Kothari, G. (1995). *Newspaper Management in India.* New Delhi: DK Publishers.
- Lipschultz, J. H. (2018). *Social Media Communication: Concepts, Practices, Data and Law* (2nd Ed). NY and London: Routledge
- McPhail, T. L. (2006). *Global Communication: Theories, Stakeholders, and Trends* (2nd Ed). MA, Oxford, Victoria: Blackwell Publishing
- McQuail, D. (2010). *McQuail's Mass Communication Theory* (6th Ed). London, Thousand Oaks, New Delhi, Singapore: Sage Publications.
- Sterne, J. (2010). *Social Media Metrics: How to Measure and Optimize Your Marketing Investment.* New Jersey: John Wiley and Sons.
- Ranganathan, M., and Rodrigues, U. M. (2010). *Indian Media in a Globalised World.* New Delhi: Sage

Additional Reading:

- Kaur, R., and Mazzarella, W. (Eds.) (2009). *Censorship in South Asia: Cultural Regulation from Sedition to Seduction.* Indiana University Press
- Sindhwani, T.N. (1975). *Newspaper Economics and Management.* New Delhi: Ankur Publishing House
- Thayer, F. (1954). *Newspaper Business Management.* New York: Prentice Hall

Convergence Media

Course Code	MJMC22104							
Course Title	Convergence Media							
Course Credits	Lecture		Tutorial		Practice		Total	
	4		1		1		6	
Contact hours	60		15		30		105	
Examination Scheme	Internal Assessment		Practical Examination		End-semester Examination		Total Marks	
	Attendance	CCA						
	5	15	00		80		100	
Course objective	The course prepares the student for holistic understanding of new media technologies. While introducing the student to the potential and pitfalls of this technology, the course prepares them to engage with the technology meaningfully and efficiently.							
Pass marks	IA		Practical		ESE		Total	
	Max	Pass	Max	Pass	Max	Pass	Max	Pass
	20	40%	00	00	80	40%	100	40%

Instructions for Paper Setters:

Maximum time: 3 hours.

Part A	Ten short answer (50 words) questions covering the entire syllabus for two marks each. All questions are compulsory.	10 x 2 = 20 marks
Part B	This section shall have five sub-sections covering the five units of the syllabus. One out of two questions from each sub-section is to be answered (500 words) for 12 marks each.	5 x 12 = 60 marks
Total Marks (A+B)		80 marks

Course Components:

Unit	Topic	Contact Hours		
		L	T	P
I	EVOLUTION OF ICTS Phase 1: From cave paintings and fire signals to telegraph Phase 2: Telegraph to broadcasting Phase 3: Digital ICTs, Social and Mobile Media, Artificial Intelligence Concepts: Digital natives and Millennials, Net Etiquette, Cyber Culture, Theoretical Concerns: Technology determinism, ICT proliferation and digital divide; Digital (Human) Rights	12	3	6
II	EXPANDING LEXICON Tools: SEO, Analytics, Cross-platform promotion, click baits, crowd funding, crowd sourcing, geotagging, angel investors and start-ups, 3-D printing, Wearable technologies Concepts: Web 2.0, Cloud computing, Ubiquitous Computing and Internet of Things, Cleverbots and Natural Language Processing, Metaverse, Web 3.0 – The Semantic Web Theoretical Concerns: Singularitarianism, Techno-progressivism, Technological utopianism, Posthumanism and Transhumanism	12	3	6
III	CONSTRUCTING REALITY Virtual Everything: Virtual world, Virtual Avatars, Virtual Reality (Virtual, Immersive, Extended, Mixed and Augmented Reality and Augmented virtuality); Reality–virtuality continuum; Simulated Reality, Hyper Reality,	12	3	6

	Video games: Transreality gaming; Location-based games (pervasive games, mixed reality games and augmented reality games); Cross media games (simulation games, LARP and alternate reality games); Concepts of First-person (gaming) Theoretical Concerns: Gamification; Media violence theories and video game violence: Catharsis, Reinforcement, Cultivation			
IV	THEORETICAL ISSUES Media selection: Media richness, Media naturalness, Social presence; Hyperpersonal Model Social Information Processing (SIP) Theory Social Identity Model of Deindividuation Effects Impression Management Model; Many avatars and many selves Information Society and Critique Castell's Network Societies; Mitchell's Urban Media Interface; Digital Archiving and Permanent Memory	12	3	6
V	CRITICAL ISSUES Issues: Breach of privacy; Direct and indirect surveillance with special emphasis on Big Data; Cyber Security Content Culture: Information Overload vs. Filter bubble and Echo chambers; Big Data, Data Mining and Reality Mining Internet cultures: Activism, Slackativism, Hackactivism; homogenization, hybridization, mobilization, pluralism, fragmentation, polarity; Internet Addiction; Truth-by-consensus, Truthiness, Wikiality, Post-truth Concerns: Cypherpunk movement; The Social Construction of Reality; Neo-Luddism and Technophobia, The Internet Paradox	12	3	6

Essential Reading:

- Castells, M. (2000). *The Rise of the Network Society.* Wiley-Blackwell.
- Eugenia, S. (2011). Understanding New Media. Sage
- Gane, N., and Beer, D. (2008). *New Media: The Key Concepts.* Oxford and New York: Berg
- Green, L. (2010). *The Internet: An Introduction to New Media.* Oxford and New York: Berg
- Lister, M., Dovey, J., Giddings, S., Grant, I. And Kelly, K. (2009).New Media: A Critical Introduction (2nd Ed). London and New York: Routledge.
- Manovich, L. (2001). What is New Media? In *The Language of New Media.* Cambridge: MIT Press. pp. 19-48.
- VanDijk, J. (2012). *The Network Society* (3rd ED). London: Sage.

Additional Reading:

- Baym, N. K. (2010). *Personal Connections in the Digital Age.* Chapter 3.
- Bogost, I. (2007). *Persuasive Games: The Expressive Power of Videogames.* MIT Press.
- Goldsmith, J., and Wu, T. (2006). *Who Controls the Internet? Illusions of Borderless World.* OUP
- Hassan, R., and Thomas, J. (2006). *The New Media Theory Reader.* Open University Press.
- Jenkins, H. (2006). *Convergence Culture: Where Old and New Media Collide.* NYU Press.
- Lister Dovey, Giddings, Grant and Kelly, "New media and new technologies" (2003).
- Miller, V. (2011). *Understanding Digital Culture.* Sage Publications.
- Rosen, J. "The People Formerly Known as the Audience" What video games have to teach us about language and literacy. New York: Palgrave Macmillan.
- Veltman, K. H. (2006). Understanding New Media: Augmented Knowledge and Culture. University of Calgary Press

Advertising and Online Promotion

Course Code	MJMC22201							
Course Title	Advertising and Online Promotion							
Course Credits	Lecture		Tutorial		Practice		Total	
	4		1		1		6	
Contact hours	60		15		30		105	
Examination Scheme	Internal Assessment		Practical Examination		End-semester Examination		Total Marks	
	Attendance	CCA						
	5	15	00		80		100	
Course objective	Building upon the existing understanding and skills of mass communication and non-fiction creativity, this course incorporates advertising communication concepts and skills. The learner shall be able to navigate the traditional, online and mobile advertising industry environments with equal ease.							
Pass marks	IA		Practical		ESE		Total	
	Max	Pass	Max	Pass	Max	Pass	Max	Pass
	20	40%	00	00	80	40%	100	40%

Instructions for Paper Setters:

Maximum time: 3 hours.

Part A	Ten short answer (50 words) questions covering the entire syllabus for two marks each. All questions are compulsory.	10 x 2 = 20 marks
Part B	This section shall have five sub-sections covering the five units of the syllabus. One out of two questions from each sub-section is to be answered (500 words) for 12 marks each.	5 x 12 = 60 marks
Total Marks (A+B)		80 marks

Course Contents:

Unit	Topic	Contact Hours		
		L	T	P
I	BASIC CONCEPTS Advertising: Definitions, functions and classification; Objectives: Perspectives on consumer behaviour; AIDA formula; Integrated marketing communication: concepts of marketing, marketing mix, branding, brand image and positioning; advertising in marketing mix; Marketing strategy, promotional strategy, advertising strategy (creative and media mix) Campaign: Concept, Campaign planning and strategy	12	2	4
II	ADVERTISING CREATIVES Copy: Ad copy concept & types of copy format; copy elements; copy structure; Homework concept; USP and appeals; writing effective copy. Visualization: concept and process; Display ad design and layout; Stages of layout for print: miniature, rough, revised rough, and comprehensive Creative execution styles used by advertisers; Tactical issues involved in the creation of print and radio, and TV commercials; Evaluation and approval of creative work by agencies	10	2	8
III	STRATEGY AND RESEARCH Media Strategy: Advertising media characteristics; media planning and its process; developing and implementing media strategies	12	4	6

	Ad Agencies: Role and types; selecting, compensating, and evaluating advertising agencies; use of integrated services Advertising Research: Pre-testing (copy testing) and post-testing (tracking studies); Research tools MRUC and IRS; BARC and TRPs, CPM; Readability Research (Flesch and Gunning Score); Online-offline measures; People's meters; Recall vs. recognition; Diaries; Physiological measures			
IV	ONLINE ADVERTISING Basics: Advantages; Online platforms (digital and rich media, search, email, mobile); Types – Display (leader board, skyscraper, banner, rectangles), Static/Dynamic ads, Email ad, Button ads, Interstitial ads, Native Ads (In-feed, Search ad [paid search, promote listing], recommendation widget, In-Ad with native elements, custom) Concepts: Impression, Conversion; Metrics [CTR, CPM, CPA, CPC, Time spent]; Ad server vs Ad Network; Targeting (Behavioral, contextual, demographic, geographic, remarketing, retargeting); Tracking (client-based, server-based, compound, conversion tracking, piggybacking)	14	4	6
V	MOBILE AND RICH MEDIA Mobile Ads: Advantages; Types (text, flash movies, banner, audio, video); Rich media ads: (Animation, 3D, tap-to-call, Social bookmark, swipe, CPD, Drag, Dynamic Location Overlay, Shake, Map, Twitter feed, Wipe, camera, Paint, and Gaming ads) Ad network and ad servers; Self-serve Advertising Platforms (Amazon, Facebook, Twitter, LinkedIn); Interactive Advertising Bureau (IAB)	12	3	6

Essential Reading:

- Belch, G. E., and Belch, M. A. (2003). *Advertising and Promotion* (6th Ed). McGraw Hill
- Jefkins, F. (1977). *Copywriting & its Presentation*. London: International Textbook Co.
- Jethwaney, J. (2010). *Advertising Management.* Oxford University Press
- Kanuk, L. L., and Schiffman, L. (1982). *Consumer Behaviour*. New Jersey: Prentice Hall
- Klapdor, S. (2012). *Effectiveness of Online Marketing Campaigns: An Investigation into Online Multichannel and Search Engine Advertising.* Dissertation TUM School of Management, Munich. Springer Gabler
- Lewis, H. G., and Nelson, C. (1999). *Advertising Age Handbook of Advertising.* NTC Contemporary
- Ogilvy, D. (1997). *Ogilvy On Advertising.* London: Prion books
- Parameswaran, M. G. (2001). *Brand Building Advertising.* Tata McGraw Hill
- Plummer, J., Rappaport, S., Hall, T., and Barocci, R. (2007). *The Online Advertising Playbook: Proven Strategies and Tested Tactics from The Advertising Research Foundation.* New Jersey: John Wiley & Sons
- Sengupta, S. (2005). *Brand Positioning: Strategies for Competitive Advantage* (2nd Ed). Tata McGraw-Hill Education
- Tiwari, S. (2003). *The (un) Common Sense of Advertising.* Response Books
- Tiwary, A. (2016). *Know Online Advertising.* Partridge
- Valladares, J. A. (2000). *The Craft of Copywriting*. Response Books
- Vilanilam, J. V., and Verghese, A.K (201). *Advertising Basics.* New Delhi: Sage Publications

Additional Reading:

- Dyer, G. (1982). *Advertising as Communication.* London and New York: Routledge
- Google (2009). *Marketing and Advertising using Google: Targeting Your Advertising to the Right Audience.* Google
- Jones, J. P. (2002). *The Ultimate Secrets of Advertising*. Sage Publication
- Kapoor, J. (2002). *Brand Naamkaran for Desi Khari English Marie Segments.* BPI (India) Pvt. Ltd.
- Ogilvy, D. (1969). *Confessions of an Advertising Man.* London: Longman
- Ries, A., and Ries, L. (2002). *The Fall of Advertising and the Rise of PR.* NY: Harper Collins

Broadcast Journalism and Production

Course Code	MJMC22202							
Course Title	Broadcast Journalism and Production							
Course Credits	Lecture		Tutorial		Practice		Total	
	4		1		1		6	
Contact hours	60		15		30		105	
Examination Scheme	Internal Assessment		Practical Examination		End-semester Examination		Total Marks	
	Attendance	CCA						
	5	15	00		80		100	
Course objective	This course imparts professional knowledge to a learner about the radio and TV ecosphere, along with audio-video production and post-production techniques, along with the skills of scripting, voicing and announcing. A learner emerges a competently trained audio-video producer, journalist and broadcaster.							
Pass marks	IA		Practical		ESE		Total	
	Max	Pass	Max	Pass	Max	Pass	Max	Pass
	20	40%	00	00	80	40%	100	40%

Instructions for Paper Setters:

Maximum time: 3 hours.

Part A	Ten short answer (50 words) questions covering the entire syllabus for two marks each. All questions are compulsory.	10 x 2 = 20 marks
Part B	This section shall have five sub-sections covering the five units of the syllabus. One out of two questions from each sub-section is to be answered (500 words) for 12 marks each.	5 x 12 = 60 marks
Total Marks (A+B)		80 marks

Course Components:

Unit	Topic	Contact Hours		
		L	T	P
I	RADIO AND TV BASICS Radio/TV Eco-system: TV formats (PAL, NTSC, SECAM, DTV); Radio types (AM/FM/Internet); Distribution (Bounded, Over-the-air, Internet); Broadcasting vs. narrowcasting; Public Service, Free-to-air, Subscription, on-demand, online-streaming; Program genres, programming and scheduling TV Production stages: Script and Project Development; Budgets, and Finance; Team building; Legalities, Permissions and Rights, Pitching and Selling the Project; Preproduction; (Talent and Crew; Script Breakdowns; Scheduling); Production (Key personnel; On-set or location shoot; indoor vs. outdoor shoot); Post-production (Editing steps)	12	3	0
II	BROADCAST SCRIPTING Language use: Style (direct style, active voice, short sentences); Avoiding colloquialism, journalese, officialese, jargon, clichés, stereotyping, redundant words, adjectives and value judgment, ambiguity, tongue twisters; Numbers and names; following the style sheet TV scripting: Script Breakdowns, Production Book, Look and Feel of Project, Storyboarding and Floor Plans, Shot List; writing to the visuals Writing for radio: radio news, radio feature, talk TV news story: Elements; Packaging and scripting, Intro, structure	12	3	8

	Broadcast Interview: Types of interviews (planned/unplanned; studio/door stepper/field/; purpose; news/feature; issue-specific/talk/personality; one-to-one/ panel discussion; expert/vox-pop) Pre-interview: Research, guests and topics, dress and make-up Interview skills: Building rapport, starting and concluding, open-ended questions, follow-up, interjections, focus, subject transition, keeping control, neutral view, mood, pace			
III	AUDIO PRODUCTION AND SOUND DESIGN Basic concepts: Sound-Pressure Level, Reverb, Audio Perspective, Masking, Sound Envelope, input levels, mic techniques, background noises; Audio components (Dialogue, Background or ambience, Sound effects, Added audio, Noise); Functions of sound in relation to picture Acoustics: Spatial hearing; Direct/early/reverberant sound and Echo; Acoustics-program material matching; Indoor acoustics (Noise, Sound Isolation, Dimensions and Shape, Room Acoustics – absorption and reflection, diffraction, diffusion, variable acoustics) Sound Recording: Microphones types (dynamic/ribbon/condenser; Pick-up patterns; Special purpose mic); Accessories (shields, pop filters, and preamps); Digital recording media	12	3	6
IV	AUDIO-VIDEO EDITING Video editing: Online/offline; linear/non-linear editing; pace and rhythm; manipulating time; graphics, animation and plug-ins Audio editing set-up: Computer, DAW, Software and plug-ins, Mic modeler, sound mixing boards, analog-digital converters, audio monitors Sound editing and mixing: Gain staging and Volume, Compression, EQ, Reverb, Crossfade; Script analysis and spotting Sound Effects: Functions; Types (Prerecorded SFX libraries; Live – Studio produced, vocally produced, Foley, Production SFX, Field collection, Electronically generated); SFX Manipulation (playing speed, playing backward, looping, mixing) Sound Design: Concept; Influence on meaning;	12	3	8
V	BROADCAST ANNOUNCING AND VOICE ACTING TV and radio announcer: Roles, responsibilities and qualities; Dealing with mic-fright and camera panic Vocal development: Diaphragmatic and thoracic breathing; breathing posture; sound articulation; pronunciation; Common vocal problems; maintaining a healthy voice Announcing: Delivery style, Performance elements (volume, pitch, rate, tone, emphasis, inflection, pauses, flow, mood), Copy marking, Word usage, Language changes, Audience rapport, Avoiding inept style, Ad-lib In-studio communication: Hand signals, cue cards, prompters, IFB Announcing Styles: News (Radio, TV, Web TV); Weather, Sports, Music, Walk-through Voice Acting: Voice Quality, Message, Audience, Word Values, Character; Recording VOs: Compression, Backtiming and Deadpotting, Voice artist skills; Narration: Direct, Indirect, and Contrapuntal	12	3	8

Essential Reading:

- Alten, S. R. (2011). *Audio in Media* (9th Ed). Wadsworth, Cengage Learning
- Crisell, A. (1986). *Understanding Radio* (2nd Ed). London and New York: Routledge
- Kellison, C. (2006). *Producing for TV and Video: A Real-World Approach.* Oxford: Focal Press

- MacLoughlin, S. (1998). *Writing for Radio: How to Create Successful Radio Plays, Features and Short Stories.* Oxford: How To Books, Ltd.
- Stephenson, A. R., Reese, D. E., and Beadle, M. E. (2009). *Broadcast Announcing Worktext: A Media Performance Guide* (3rd Ed). Oxford: Focal Press
- Thompson, R. (2005). *Writing for Broadcast Journalists.* London and New York: Routledge

Communication Research

Course Code	MJMC22301							
Course Title	Communication Research							
Course Credits	Lecture		Tutorial		Practice		Total	
	5		1		0		6	
Contact hours	75		15		00		90	
Examination Scheme	Internal Assessment		Practical Examination		End-semester Examination		Total Marks	
	Attendance	CCA						
	5	15	00		80		100	
Course objective	This course is designed to make the learner conversant with the principles of scientific inquiry along with equipping the learner with the necessary tools for finding answers to the research problems.							
Pass marks	IA		Practical		ESE		Total	
	Max	Pass	Max	Pass	Max	Pass	Max	Pass
	20	40%	00	00	80	40%	100	40%

Instructions for Paper Setters:

Maximum time: 3 hours.

Part A	Ten short answer (50 words) questions covering the entire syllabus for two marks each. All questions are compulsory.	10 x 2 = 20 marks
Part B	This section shall have five sub-sections covering the five units of the syllabus. One out of two questions from each sub-section is to be answered (500 words) for 12 marks each.	5 x 12 = 60 marks
Total Marks (A+B)		80 marks

Course Components:

Unit	Topic	Contact Hours		
		L	T	P
I	SCIENTIFIC METHOD IN RESEARCH Research: Meaning, Objectives, Motivation, Significance The Methods of Knowing: tenacity, intuition, authority, and science Types of Research: Descriptive vs. Analytical, Applied vs. Fundamental, Conceptual vs. Empirical, Cross-sectional vs. Longitudinal, Field vs. Laboratory, Exploratory vs. Formalized Research Methods versus Methodology Scientific Method in Research: Characteristics and importance, Research Process: Research procedure, Criteria of Good Research; Selecting and defining the research Problem; Report writing	15	3	0
II	ELEMENTS OF RESEARCH Concepts and constructs; Independent and dependent variables; Discreet and continuous variables Nature of Measurement, levels of measurement, measurement scales, specialized rating scales Reliability and Validity Sampling: Population and sample, Sampling procedures, Sample size Types of research error Research questions and Hypotheses Research Approaches: Quantitative vs. Qualitative Research Designs: Exploratory, Descriptive and Experimental Types of Experimental Designs: Pre-test post-test classical experimental design, Pre-experimental design, Quasi-experimental design	15	3	0

	Sources of data: texts, observations and/or interviews, self-reports, other-reports			
III	DATA COLLECTION AND ANALYSIS Primary Data Collection Methods: Observation method, Interview method, Questionnaires/ schedules Other methods: Audits, Consumer Panels, Mechanical Devices, Projective Techniques, Depth interviews; Content Analysis; Secondary Data; Case Study method Data Analysis: Descriptive vs. Inferential Statistics Data Processing – Coding, Classification and Tabulation; Univariate analysis – Sample Distribution, Summary statistics (Measures of Central Tendency; Measures of dispersion; Measures of skewness) Bi-variate analysis – Correlation, Simple regression, One-way ANOVA Normal curve, Data Transformation	15	3	0
IV	HYPOTHESIS TESTING Basic concepts: Meaning and purpose of hypothesis; Null vs. Alternate Hypothesis; Degrees of freedom, Importance of significance, Errors in hypothesis testing; Research question vs. Hypothesis Tests of Hypotheses: Parametric vs. Non-parametric Tests Non-parametric Tests: Chi-Square Test for Goodness of Fit, Chi-Square Test a test of independence, Contingency Table Analysis Parametric Tests: t-test, Analysis of Variance, Two-Way ANOVA, Measures of association, Simple Linear Regression	15	3	0
V	INTERPRETATION AND REPORT WRITING Interpretation: Meaning and purpose; Technique and Precautions in Interpretation Significance of Report Writing Different Steps in Writing Report Layout of the Research Report Types of Reports; Oral Presentation Writing a Research Report: Mechanics and Precautions	15	3	0

Essential Reading:

- Wimmer, R.D. and Dominick, J. R. (2011). *Mass Media Research: An Introduction* (9th Ed.) Wadsworth, Cengage Learning
- Kothari, C. R. (2004). *Research Methodology: Methods and Techniques.* New Delhi: New Age
- Rebecca B. Rubin, R. B., Rubin, A. M., Haridakis, P. M., and Piele, L. J. (2010). *Communication Research: Strategies and Sources* (7th Ed.). Wadsworth, Cengage Learning
- Croucher, S. M. and Cronn-Mills, D. (2015). *Understanding Communication Research Methods: A Theoretical and Practical Approach.* New York, Oxon: Routledge
- Mukherjee, S. P., Sinha, B. K., and Chattopadhyay, A. K. (2018). Statistical Methods in Social Science Research. Singapore: Springer. https://doi.org/10.1007/978-981-13-2146-7
- Berger, A. A. (2012). Media Analysis Techniques (4th Ed.). New Delhi: Sage
- American Psychological Association (2020). *Manual of the American Psychological Association, 7th Ed.*

Public Relations and Public Opinion in Digital Age

Course Code	MJMC22302							
Course Title	Public Relations and Public Opinion in Digital Age							
Course Credits	Lecture		Tutorial		Practice		Total	
	4		1		1		6	
Contact hours	60		15		30		105	
Examination Scheme	Internal Assessment		Practical Examination		End-semester Examination		Total Marks	
	Attendance	CCA						
	5	15	00		80		100	
Course objective	This course seeks to impart an understanding about the process and philosophies of PR in the off-line and online-world, along with that of the public opinion formation and its management. A leaner will emerge with not only how to wield its power but also how the powerful effects of PR take place.							
Pass marks	IA		Practical		ESE		Total	
	Max	Pass	Max	Pass	Max	Pass	Max	Pass
	20	40%	00	00	80	40%	100	40%

Instructions for Paper Setters:

Maximum time: 3 hours.

Part A	Ten short answer (50 words) questions covering the entire syllabus for two marks each. All questions are compulsory.	10 x 2 = 20 marks
Part B	This section shall have five sub-sections covering the five units of the syllabus. One out of two questions from each sub-section is to be answered (500 words) for 12 marks each.	5 x 12 = 60 marks
Total Marks (A+B)		80 marks

Course Contents:

Unit	Topic	Contact Hours		
		L	T	P
I	PUBLIC RELATIONS BASICS Basic concept; Role and function of PR; PR as a management tool; PR in the marketing mix Public Relations Process; Internal vs. external publics; Tools of PR; Types of PR outfits; Staff and line functions; Ethics of PR Stakeholders PR: Media Relations, Internal Communications, Corporate Community Involvement, Financial Public Relations, Public Sector PR Strategic PR: Corporate Communication, Corporate Identity, Public Affairs and Issues Management, CSR, Crisis Communication, Event Management, Image Management Creative Thinking; Big Idea, In-box and Out-of-the-box thinking; lateral thinking; Creative process: Osborn's 7 stages, Stein's 3 stages, Green's five-I model	10	2	6
II	PR THEORY AND RESEARCH PR Approaches: Systems theory; Situational theory; Rhetoric Theories in PR; PR as relationship management; PR as social exchange Public Relations Research: Environmental monitoring (or scanning); PR audits; Communication Audits; Social Audits; PR Evaluation (Orientation – Media, Publics, Organisation, Persuasion, Relationship; Time of intervention – Formative, Summative, Goal-free)	12	2	8

III	ONLINE PR Online-mix: Internet constituents and services, Creating online-mix; Paid, owned and earned media Influencers as Publics: Visitors, bloggers, social media communities, support groups, social media influencers, social media elites, magic middle, media snackers, Youtubers, Instagrammers, Tweeps, social media experts and gurus Online Tools: Blogger relations, social media releases (SMRs), video news release (VNR), keywords and SEO, social marketing, thought leadership, participation, livestreams, brand aggregation, conversational marketing, social media trackers and aggregators, virality, cost of ignoring, leaderboards, managing negative comments (crises trendcast, proactive and reactive approaches), community managers and customer service; Platforms (blogs, video social networks, micromedia, really simple syndication (RSS), wikis, podcasts, mashups, content aggregation services) Engagement: Listening (referring links, finding conversations, measure subscribers, blogger influence, tracking); Participating (conversations as markets, building relationships and customer relationship management (CRM), online reviews and customer support) Styles of engagement: Humanized Communication (listen, learn, respect, value proposition to benefit markets, humanize and personalize the story, read and watch people); Socialized Communication (participate, engage, socialize, avoid clutter, build relationships); Understand Communities (participate [as a person, not pr], use popular tools, avoid pitching, monitor vibe and how people share, dynamics and the rules of engagement); Adapt Message (short takes, identify people and personalize, don't pitch, stand out, be compelling, multiple approaches)	14	4	16
IV	PUBLIC OPINION AND PROPAGANDA Public opinion: Concept and process (3-D process); Components (affective responses, cognitive responses, experiences of past behavior, behavioral intentions); Approaches to public opinion Propaganda: Lippmann's propaganda theory, Lasswell's model, Bernay's Public Opinion Crystallization; Chomsky and Herman Propaganda Model Media Effects: Lazarsfeld's Two-step flow theory, Agenda Setting, Framing and Priming, Knowledge-Gap Hypothesis, Spiral of Silence Public Opinion in democracy: Habermas' Public Sphere	12	4	0
V	PUBLIC OPINION AND ATTITUDE Learning and Persuasion: Hovland's Yale Model of Persuasion; Bandura's Social Learning Theory; Elaboration Likelihood Model; Symbolic Interactionism; McGuire's Inoculation Theory Consistency Theory: Cognitive Dissonance Theory Functional approach: Katz's four functions of attitude (instrumental/ utilitarian, ego defensive, value expressive, knowledge); Kelman's functional analysis (compliance, identification, internalization)	12	3	0

Essential Reading:

- Crespi, I. (1997). *The Public Opinion Process: How People Speak.* New Jersey and London: Lawrence Erlbaum Associates
- Donsbach, W., and Traugott, M. W. (2008). *The Sage Handbook of Public Opinion Research.* Los Angeles, London, New Delhi and Singapore: Sage Publications

- Green, A. (2010). *Creativity in Public Relations* (4th Ed). London and Philadelphia: KoganPage.
- Gregory, A. (2010). *Planning and Managing Public Relations Campaigns* (3rd Ed). London, Philadelphia and New Delhi: KoganPage.
- McQuail, D. (2010). *McQuail's Mass Communication Theory* (6th Ed). London, Thousand Oaks, New Delhi, Singapore: Sage Publications.
- Moss, D., and DeSanto, B. (2002). *Public Relations Cases: International perspectives.* London and New York: Routledge
- Parsons, P. J. (2008). *Ethics in Public Relations: A Guide to Best Practice* (2nd Ed). London and Philadelphia: KoganPage
- Phillip, D., and Young, P. (2009). *Online Public Relations: A Practical Guide to Developing an Online Strategy in the World of Social Media* (2nd Ed). London and Philadelphia: KoganPage.
- Solis, B., and Breakenridge, D. (2009). *Putting the Public Back in Public Relations: How Social Media Is Reinventing the Aging Business of PR.* New Jersey: Pearson Education
- Tench, R. and Yeomans, L. (2006). *Exploring Public Relations.* Harlow: Pearson Education
- Theaker, A. (2001). *The Public Relations Handbook* (2nd Ed). ondon and New York: Routledge
- Waddington, S. (Ed.). (2012). *Share This: The Social Media Handbook for PR Professionals.* John Wiley & Sons Ltd

Additional Readingss:

- Bernays, E. L. (1928). *Manipulating Public Opinion: The Why and How.* American Journal of Sociology, 3(6), pp. 958-971
- Bernays, E. L. (1961). *Crystallizing Public Opinion.* New York: Liveright Publishing Corporation
- Coombs, W. T., and Holladay, S. J. (2014). *It's Not Just PR: Public Relations in Society* (2nd Ed). John Wiley & Sons
- Ginneken, J. v. (2003). *Collective Behavior and Public Opinion: Rapid Shifts in Opinion and Communication.* New Jersey and London: Lawrence Erlbaum Associates
- Heath, R. (2005) (Ed.). *Encyclopedia of Public Relations (Vol. I and II).* London, Thousand Oaks and New Delhi: Sage Publications
- Lippmann, W. (1998). *Public Opinion* (With a new Introduction by Michael Curtis). New Brunswick and London: Transaction Publishers
- Monoley, K. (2006). *Rethinking Public Relations: PR Propaganda and Democracy* (2nd Ed). London and New York: Routledge
- Singleton, A. (2014). *The PR Masterclass: How to Develop a Public Relations Strategy that Works!.* Wiley

Media Ethics, Laws and Development

Course Code	MJMC22401							
Course Title	Media Ethics, Laws and Development							
Course Credits	Lecture		Tutorial		Practice		Total	
	5		1		0		6	
Contact hours	75		15		00		90	
Examination Scheme	Internal Assessment		Practical Examination		End-semester Examination		Total Marks	
	Attendance	CCA						
	5	15	0		80		100	
Course objective	This course aims to inspire ethical journalistic conduct and knowledge of the legal framework and ethical conduct guiding the practice of journalism across media platforms. The course makes the budding journalist conversant with popular critical issues along with the rich history of the development of Indian media and journalism. The course also makes the budding journalist conversant with the current national and international industry ecosphere.							
Pass marks	IA		Practical		ESE		Total	
	Max	Pass	Max	Pass	Max	Pass	Max	Pass
	20	40%	0	0	80	40%	100	40%

*No practical examination will be conducted. The practice work will be evaluated as part of CCA.

Instructions for Paper Setters:

Maximum time: 3 hours.

Part A	Ten short answer (50 words) questions covering the entire syllabus for two marks each. All questions are compulsory.	10 x 2 = 20 marks
Part B	This section shall have five sub-sections covering the five units of the syllabus. One out of two questions from each sub-section is to be answered (500 words) for 12 marks each.	5 x 12 = 60 marks
Total Marks (A+B)		80 marks

Course Contents:

Unit	Topic	Contact Hours		
		L	T	P
I	ETHICS Concepts of Public Sphere and Public Interest Values: Human values and Indian ethos Regulatory framework: Press Council of India, NBA's News Broadcasting Standards Authority, IBF's BCCC, Central Board of Film Certification Press Council's Norms for Journalistic Conduct; NBA guidelines Intellectual Property: Intellectual Property Rights and its types, Creative Commons License, Copyright [amendment] Act, 2012; Content regime: Proprietary, Open source, freeware, shareware, fair use	15	3	0
II	THE LAWS Contempt: Contempt of Court, 1971; Law of Parliamentary Privileges (Article 105 [3] and 194 [3]); Parliamentary Proceedings (Protection of Publication) Act, 1977 (Article 361-A); Industry regulation: Press and Registration of Books Act, 1867; Cable TV Networks Regulation Act, 1995; Information Technology [amendment] Act, 2008 (portions relevant to media); Censorship: Official Secrets Act, 1923; Cinematograph Act, 1952; Young Persons (Harmful Publication) Act (1956); Law of Defamation (Section 499-502 of IPC); Law of Obscenity (Section 292-294 of IPC)	15	3	0

III	DEVELOPMENT OF INDIAN MEDIA-I Pioneers of Indian journalism and restrictions up to 1835; Press after 1857 revolt; Emergence of the Nationalist press; Indian press between the first and second world war; Post-independence: 1st and 2nd Press Commissions Press during Emergency	15	3	0
IV	DEVELOPMENT OF INDIAN MEDIA-II Development of radio in India Development of television in India Post-liberalization developments in print, satellites and cable television, private FM radio, FDI Internet Organisations: International Telecommunications Union, Internet Corporation for Assigned Names and Numbers, UN Internet Governance Forum, INTELSAT, COMSAT, TRAI	15	3	0
V	INDUSTRY ECOSPHERE Media ownership: Communist media, Development elites and the media, State-licensed media, Public service broadcasting, State-subsidized media, Privately-owned media, Community media; Other ownership patterns; New Media ownership Prasar Bharti Corporation, Press Institute of India, Editor's Guild of India, News Broadcaster's Association, Indian Broadcasting Foundation, PIB, DAVP, ABC News agencies: PTI, UNI, IANS, Univarta, Hindustan Samachar, ANI The Big Six: National Amusements, Walt Disney, AT&T, Comcast, News Corp, Sony Internet Giants: Alphabet Inc., Microsoft, Meta, Apple, Amazon, Twitter Ownership issues: Media pluralism, media integrity, net neutrality	15	3	0

Essential Reading:

- Barns, M. (1940). *Indian Press.* London: Allen & Unwin.
- Basu, D. (1982). The *Law of the Press in India.* New Delhi: Prentice-Hall
- Chatterji, P. C. (1987). *Broadcasting in India.* New Delhi: Sage
- Eliott, D. (Ed.) (1986). *Responsible Journalism.* Beverly Hills: Sage Publications.
- Iyer, V. (Ed.) (2000). *Mass Media Laws and Regulations in India* (2nd Ed). Indian Research Press
- Karkhanis, S. (1981). *Indian Politics and Role of the Press.* New Delhi: Vikas Publishers.
- Mankekar, D.R. (1973). *The Press versus the Govt.* New Delhi: Indian Book Co.
- Natarajan, J. (1955). *History of Indian Journalism*. Publications Division, Ministry of I&B, GoI.
- Raghvan, V. (2007). *Communication Law in India.* Lexis Nexis Butterworths
- Ranganathan, M., and Rodrigues, U. M. (2010). *Indian Media in a Globalised World.* Sage
- Rao, S. (2009). *Globalization of Indian Journalism*, 'Journalism Studies'. Routledge
- Sharma, K. C., and Sharma, J. N. (2008). *Journalism in India: History Growth Development.* Oscar
- Thakurta, P. G. (2009). *Media Ethics.* Oxford University Press
- Kohli-Khandekar, V. (2013). *The Indian Media Business* (4th Ed). LA, London, New Delhi, Singapore, Washinton DC: Sage.
- Kothari, G. (1995). *Newspaper Management in India.* New Delhi: DK Publishers.
- Ranganathan, M., and Rodrigues, U. M. (2010). *Indian Media in a Globalised World.* New Delhi: Sage

Additional Reading:

- Crawford, N. A. (1969). *The Ethics of Journalism*. Connecticut: Greenwood Press.
- Lichtenberg, J. M. (Ed.) (1990). *Democracy and Mass Media*. Cambridge Univ. Press.
- Mazumdar, A. (1993). *Indian Press and Freedom Struggle*. Calcutta: Orient-Longman.
- Shamra, K. C. (2007). *Journalism in India: A story, Growth, Development*. New Delhi: Indiana.

Visual Communication and Design

Course Code	MJMC22402							
Course Title	Visual Communication and Design							
Course Credits	Lecture		Tutorial		Practice		Total	
	4		1		1		6	
Contact hours	60		15		30		105	
Examination Scheme	Internal Assessment		Practical Examination		End-semester Examination		Total Marks	
	Attendance	CCA						
	5	15	0		80		100	
Course objective	This course is aimed at achieving three goals. First, to build a theoretical appreciation of the visual; second, to familiarize with the graphic design concepts and tool; and lastly, to train the student in applying the conceptual understanding and the tools in the art of graphic designing.							
Pass marks	IA		Practical		ESE		Total	
	Max	Pass	Max	Pass	Max	Pass	Max	Pass
	20	40%	00	00	80	40%	100	40%

Instructions for Paper Setters:

Maximum time: 3 hours.

Part A	Ten short answer (50 words) questions covering the entire syllabus for two marks each. All questions are compulsory.	10 x 2 = 20 marks
Part B	This section shall have five sub-sections covering the five units of the syllabus. One out of two questions from each sub-section is to be answered (500 words) for 12 marks each.	5 x 12 = 60 marks
Total Marks (A+B)		80 marks

Course Components:

Unit	Topic	Contact Hours		
		L	T	P
I	VISUAL COMMUNICATION THEORIES – I Meaning of Visual Communication **Visual Cognitive Theory:** Understanding Cognition as Intuitive and Rational; Visual Cognition Models (Jaynes' Bicameral Mind and the Evolution of Reason; Bogen and Sperry left-right brain specialization theory; Parallel/Dualistic Organizational Models; Gardner's Multiple Intelligences; Visual Cognition, the Unconscious Mind, and Behaviour); Omniphasism: Balancing Visual Knowing and Cognitive Theory	12	3	0
II	VISUAL COMMUNICATION THEORIES – II **Visual Literacy Theory:** Meaning of Visual Literacy; Visual Literacy Skills (Thinking in Pictures, From Scene to Shot Sequence, Editing and Spatial Intelligence, Analogical Thinking, Visual Analogy); Critical Viewing (Interpreting visual lies; Understanding the power of image – Analogy to Everyday Experience, Manipulation of Point of View, Implicit Argumentation, Associational Juxtaposition)	12	3	0
III	GRAPHIC DESIGN BASICS **Graphic design:** Meaning and scope, Art or craft; **Graphic Design History:** From the beginning to the turn of the century, Modernism, Abstract Movements, Figurative Movements, Postmodernism; Computer Graphics: Digital Focus, New Technologies, Interactivity, The Future	12	3	0

	Perception: Seeing and Believing (Simplicity, Interpretations); Figure/Ground (Categories – Stable Figure/Ground, Reversible Figure/Ground, Ambiguous Figure/Ground; Letterforms); Shape (Shape versus Volume, Grouping Shapes, Shape versus Subject, Form of Shapes, Letterform Shapes)			
IV	GRAPHIC DESIGN PROCESS, TYPOGRAPHY AND COLOUR **Graphic Design Process:** Research, Creative Brief, Concept Development, Selling the idea, Execution, Process record Elements of Design (Point, Line, Shape, Colour, Volume, Movement, Space, Texture, Value, Typography); Principles of Design (Alignment, Balance, Contrast, Emphasis, Gestalt, Harmony, Movement, Proportion, Proximity, Repetition, Rhythm, Unity, White Space) **Typography:** Design of Characters; Typefaces; Size of Type; Stylistics Variation of Type; Typeface Personalities; Selection of Typefaces; Common Typefaces; Selecting Typefaces for paper & ink; screen, visual displays, computer print outs **Colour in Design:** Designing with Colour (The Colour Wheel, Properties of Colour, Colour Schemes); Colour in Printing (Tint Screens, Spot Colour or Process Colour?, Process Colour Separations, Cutting Costs, Halftones, Duotones, and Tritones)	12	3	15
V	LAYOUT AND DESIGN **Layout:** Paper size; Page composition (Page size, Text face, classic model for page design, Margins, Grid systems, Oppositions); Text layout (Justified or unjustified text, Line length, interline distance, Space, Headings, Paragraphs, Tables, Captions, Quotations, Lists, Miscellaneous); Layout of text and pictures (Different layouts, Balance in design, the picture area index); Photography in a Layout (Cropping, Resizing, Selecting, Multi-panel Design) **Production:** Preparing for Press (The Process, Quality Issues, Digital Prepress – The RIP, Fonts, Scanning, LPI and DPI, File Links, File Formats, Compression)	12	3	15

Essential Reading:

- Dake, D. (2005). Aesthetics Theory. In Smith, K., Moriarty, S., Barbatsis, G., and Kenney, K. (Eds.), *Handbook of Visual Communication* (3-22). Mahwah, New Jersey, London: Lawrence Erlbaum Associates
- Foss, S. K. (2005). Theory of Visual Rhetoric. In Smith, K., Moriarty, S., Barbatsis, G., and Kenney, K. (Eds.), *Handbook of Visual Communication* (141-152). Mahwah, New Jersey, London: Lawrence Erlbaum Associates.
- Williams, R. (2005). Cognitive Theory. In Smith, K., Moriarty, S., Barbatsis, G., and Kenney, K. (Eds.), *Handbook of Visual Communication* (193-210). Mahwah, New Jersey, London: Lawrence Erlbaum Associates.
- Sandra Moriarty, S. (2005). Visual Semiotics Theory. In Smith, K., Moriarty, S., Barbatsis, G., and Kenney, K. (Eds.), *Handbook of Visual Communication* (227-242). Mahwah, New Jersey, London: Lawrence Erlbaum Associates.
- Messaris, P., and Moriarty, S. (2005). Visual Literacy Theory. In Smith, K., Moriarty, S., Barbatsis, G., and Kenney, K. (Eds.), *Handbook of Visual Communication* (479-502). Mahwah, New Jersey, London: Lawrence Erlbaum Associates.
- Arntson, A. E. (2007). *Graphic Design Basics* (5th Ed.). Thompson, Wadsworth

- Ambrose, G., and Harris, P. (2008). *The Production Manual: A Graphic Design Handbook.* AVA Publishing SA

Additional Reading:

- Machin, D. (Ed.). (2014). *Visual Communication.* Berlin and Boston: Walter de Gruyter
- Jamieson, H (2007). *Visual Communication: More Than Meets the Eye.* Bristol and Chicago: Intellect

Value-added Communication Practice-1

Course Code	MJMC22105							
Course Title	Value-added Communication Practice-1							
Course Credits	Lecture		Tutorial		Practice		Total	
	0		0		4		4	
Contact hours	0		0		120		120	
Examination Scheme	Internal Assessment		Practical Examination		End-semester Examination		Total Marks	
	Attendance	CCA						
	00	20	80		00		100	
Course objective	This course aims to hone personal communication and professional skills of the learner. The learner emerges with a confidence of having applied her skills to the real world projects and starts building a portfolio for the future.							
Pass marks	IA		Practical		ESE		Total	
	Max	Pass	Max	Pass	Max	Pass	Max	Pass
	20	40%	80	40%	00	00	100	40%

Course Contents:

Unit	For Regular Students	For ICDEOL Students	Contact Hours		
			L	T	P
I	i. Group Project – 10 marks** ii. Newsense Blog and Social Media Activity – 15 marks**	i. Assignments# – 20 marks*	0	0	30
II	iii. Mock Interviews – 10 marks* iv. Group Discussion/Debate – 10 marks*	ii. Assignments# – 30 marks**	0	0	30
III	v. Hindi Typing Skills (English typing skills for students of foreign origin) – 10 marks** vi. Self-Presentation Skills – 15 marks**	iii. Current Affairs File – 25 marks**	0	0	30
IV	vii. Lab Journal (Newsense) – 15 marks** viii. Current Affairs File – 10 marks**	iv. Viva Voce – 25 marks**	0	0	30

Examination and Evaluation Scheme:

* Part of CCA. Evaluation to be done throughout the semester by the institute of studies.

** Evaluation at semester-end by external examiner along with internal faculty.

Assignments to be prescribed and evaluated by the institute of studies.

Value-added Communication Practice-2

Course Code	MJMC22203							
Course Title	Value-added Communication Practice-2							
Course Credits	Lecture		Tutorial		Practice		Total	
	0		0		6		6	
Contact hours	0		0		180		180	
Examination Scheme	Internal Assessment		Practical Examination		End-semester Examination		Total Marks	
	Attendance	CCA						
	00	20	80		0		100	
Course objective	This course seeks to prepare the learner for the real world professional challenges and equip her with skills required to secure a job in the communication industry.							
Pass marks	IA		Practical		ESE		Total	
	Max	Pass	Max	Pass	Max	Pass	Max	Pass
	20	40%	80	40%	00	00	100	40%

Course Contents:

Unit	For Regular Students	For ICDEOL Students	Contact Hours		
			L	T	P
I	i. Mock Interviews – 10 marks* ii. Group Discussion/Debate – 10 marks*	i. Assignments# – 20 marks*	0	0	30
II	iii. Group Project –15 marks** iv. Newsense Blog and Social Media Activity – 15 marks**	ii. Assignments# – 30 marks**	0	0	60
III	iii. Position Paper^ – 15 marks** iv. Current Affairs File – 10 marks**	iii. Position Paper^ – 15 marks** iv. Current Affairs File – 10 marks**	0	0	60
IV	vii. Resume writing – 15 marks** viii. Personal Interview Skills – 10 marks**	v. Resume writing – 15 marks** vi. Personal Interview Skills – 10 marks**	0	0	30

Examination and Evaluation Scheme:

* Part of CCA. Evaluation to be done throughout the semester by the institute of studies.

** Evaluation at semester-end by external examiner along with internal faculty.

^ To be assigned by the faculty advisor in the institute of studies.

Assignments to be prescribed and evaluated by the institute of studies.

^ To be assigned by the faculty advisor in the institute of studies.

Value-added Communication Practice-3

Course Code	MJMC22303							
Course Title	Value-added Communication Practice-3							
Course Credits	Lecture		Tutorial		Practice		Total	
	0		2		4		6	
Contact hours	0		30		120		150	
Examination Scheme	Internal Assessment		Practical Examination		End-semester Examination		Total Marks	
	Attendance	CCA						
	5	15	80		00		100	
Course objective	This course brings hands-on skills and exposure to co-curricular aspects having deep impact on a young professional's life such as skill development; Innovation, start-ups, entrepreneurship; Soft skills; Intellectual property rights; Cyber security; Gender sensitization; Disaster management and preparedness; Human rights and Indian ethos; Community service and engagement; and Critical appraisal skills for health reporting.							
Pass marks	IA*		Practical*		ESE		Total	
	Max	Pass	Max	Pass	Max	Pass	Max	Pass
	20	40%	80	40%	00	00	100	40%

Course Contents:

Unit	For Regular Students	For ICDEOL Students	Contact Hours		
			L	T	P
I	i. Gender Sensitisation Workshop – 10 marks* ii. Human Values and Indian Ethos Sensitization Workshop – 10 marks*	i. Assignments – 20 marks#	0	10	30
II	iii. Intellectual Property Rights Workshop – 10 marks* iv. Disaster Management and Preparedness Workshop (with special emphasis on role of journalists) – 10 marks* v. Innovations, startups and entrepreneurship Workshop – 10 marks*	ii. Assignments – 30 marks#	0	10	30
III	vi. Cyber Security Workshop – 10 marks* vii. Conflict and crisis reporting workshop – 10 marks* viii. Critical Appraisal Skills for Health Journalism Workshop (UNICEF Module) – 10 marks*	iii. Current Affairs File – 10 marks# iv. Minor Project˜ – 20 marks#	0	10	30
IV	ix. Community Service and Engagement – 10 marks** x. Newsense Blog – 10 marks**	ix. Viva Voce – 20 marks**	0	0	30

Examination and Evaluation Scheme:

* Evaluation to be done throughout the semester by the workshop coordinators.

To be prescribed and evaluated by the institute of studies.

˜Minor Project has to be a unique individual creative endeavour focusing on single topic/theme in any the following fields: print journalism, broadcast journalism, online content, advertising, public

relations, content writing/editing, photography, graphic designing, audio-video production, and development communication. A candidate shall submit and present the project report at the time of the viva voce conducted by the institute of studies. Topic and scope of the project shall be finalized in consultation with faculty advisor.

** Evaluation at semester-end by external examiner along with internal faculty.

Comprehensive Viva Voce

Course Code	MJMC22403							
Course Title	Comprehensive Viva Voce							
Course Credits	Lecture		Tutorial		Practice		Total	
	0		0		4		4	
Contact hours	0		0		0		0	
Examination Scheme	Internal Assessment		Practical Examination*		End-semester Examination		Total Marks	
	Attendance	CCA						
	00	00	100		00		100	
Course objective	This course aims to hone communication and professional skills of the learner. The learner emerges with a confidence of having applied her skills to the real world projects and starts building a portfolio for the future.							
Pass marks	IA		Practical*		ESE		Total	
	Max	Pass	Max	Pass	Max	Pass	Max	Pass
	00	40%	100	40%	00	00	100	40%

Course Contents:
Students will make a portfolio and a presentation to showcase their work throughout all four semesters of the programme.

Examination and Evaluation Scheme:
* Evaluation will be done at the end of the semester by an external examiner from the industry with support from internal examiner(s). The evaluation will be based on the candidate's portfolio, presentation and viva voce covering the course contents of all four semesters.

Industry Internship

Course Code	MJMC22304							
Course Title	Industry Internship							
Course Credits[@]	Lecture		Tutorial		Practice		Total	
	0		0		4		4	
Contact hours	0		0		180		180	
Examination Scheme	Internal Assessment[#]		Practical Examination*		End-semester Examination		Total Marks	
	Attendance	CCA						
	5	15	80		0		100	
Course objective	This course seeks to prepare the learner for the real world professional challenges and equip her with skills required to secure a job in the communication industry.							
Pass marks	IA		Practical		ESE		Total	
	Max	Pass	Max	Pass	Max	Pass	Max	Pass
	20	40%	80	40%	00	00	100	40%

[@] This is a non-CGPA mandatory course. The credits of this course will not be counted towards total credits earned by a candidate for the degree programme.

[#] One faculty member from the Department of Journalism and Mass Communication will act as the internal supervisor for a student who opts for internship. The internal supervisor will award marks based on regular feedback and attendance from the organisation.

[*] Based on seminar presentation in the Department by a student based on the work done during the internship.

Internship Components:

- For industry internship a student will join an organisation of repute working either in the area of mass communication or the communication department an organisation of repute, provided that the work undertaken during industry internship is in the following areas: journalism, public relations, advertising, development communication or visual communication. A student can also have the following work profiles: writing, copy editing, production or designing in television, radio, print publications, internet publications, etc.
- A student may complete a minimum of 180 working hours with the organisation where (s)he is placed. These 180 hours may be completed by working either part-time or full-time.

Notes:

- Finding the internship placement will be the sole responsibility of the student.
- Internship can be joined after the 3rd Semester end-semester examination.

Community and Community Media

Course Code	MJMC22106							
Course Title	Community and Community Media							
Course Credits	Lecture		Tutorial		Practice		Total	
	3		1		0		4	
Contact hours	45		15		0		60	
Examination Scheme	Internal Assessment		Practical Examination		Theory Examination		Total Marks	
	Attendance	CCA						
	5	15	0		80		100	
Course objective	In a post-globalization world, the 'community' is undergoing resurgence. This course sensitizes the student to the various ways in which community has been conceptualized. The course also introduces the student to the potential of using community media in making a difference to our world.							
Pass marks	IA		Practical		Theory Exam		Total	
	Max	Pass	Max	Pass	Max	Pass	Max	Pass
	20	40%	0	0	80	40%	100	40%

Instructions for Paper Setters:

Maximum time: 3 hours.

Part A	Ten short answer (50 words) questions covering the entire syllabus for two marks each. All questions are compulsory.	10 x 2 = 20 marks
Part B	This section shall have four sub-sections covering all four units of the syllabus. One out of two questions from each sub-section is to be answered (700 words) for 15 marks each.	4 x 15 = 60 marks
Total Marks (A+B)		80 marks

Course Contents:

Unit	Topic	Contact Hours		
		L	T	P
I	COMMUNITY AS THEORY Community: Meaning; Concepts of *Gemeinschaft* and *Gesellschaft* • Jürgen Habermas' Public Sphere • Hermeneutic Communities • Liquid Modern Communities • Postmodern Communities COMMUNITY AS PLACE • Cosmopolitanism, Worldliness and the Cultural Intermediaries • Liminality, Communitas and Anti-Structure • Locality, Place and Neighbourhood • Virtual Communities	12	4	0
II	COMMUNITY AS METHOD • Action Research • Community Profiling • Community Studies • Ethnography • Social Network Analysis	12	3	0
III	COMMUNITY AS IDENTITY/BELONGING • Community and Identity	11	4	0

	• Imagined Communities • The Symbolic Construction of Community COMMUNITY AS IDEOLOGY • Communitarianism • Imaginary Communities • Nostalgia • The 'Dark Side' of Community			
IV	COMMUNITY MEDIA Community media: meaning and origins; types and examples Community media as Alternative media Community Radio in India Community Radio Best Practices Community Media Issues: Community media and Democracy; Community media and Cultural Globalisation; Community media as Socio-Cultural Mediation; Community media and Collaboration; Community media and Community Development; Community media and Participation; Community media and Social Movements Community media and the Internet	12	4	0

Essential Reading:

- Blackshaw, T. (2010). *Key Concepts in Community Studies.* New Delhi: Sage Publications
- Howley, K. (2005). *Community Media: People, Places, and Communication Technologies.* Cambridge : Cambridge University Press
- Buckley, S. (Ed.). (). *Community Media: A Good Practice Handbook.* UNESCO
- Coyer, K., Dowmunt, T., and Fountain, A. (2007). *The Alternative Media Handbook.* London and New York: Routledge
- Bailey, O., Cammaerts, B., and Carpentier, N. (2008). *Understanding Alternative Media.* New York: Open University Press

Additional Reading:

- Cohen, A. P. (1985). *The Symbolic Construction of Community*. London: Tavistock
- Heller, A. (1999). *A Theory of Modernity*. Oxford: Blackwell
- Hobsbawm, E. (1995). *Age of Extremes: The Short Twentieth Century 1914–1991*. London: Abacus
- Anderson, B. (1991). *Imagined Communities: Reflections on the Origin and Spread of Nationalism* (2nd ed.). London: Verso
- Bauman, Z. (2000). *Liquid Modernity*. Cambridge: Polity Press
- Bell, C. and Newby, H. (1971). *Community Studies: An Introduction to the Sociology of the Local Community*. London: George Allen and Unwin
- Tönnies, F. (1955, 1887). *Gemeinschaft und Gesellschaft* (trans. *Community and Society*). London: Routledge

Development Communication

Course Code	MJMC22204							
Course Title	Development Communication							
Course Credits	Lecture		Tutorial		Practice		Total	
	3		1		0		4	
Contact hours	45		15		0		60	
Examination Scheme	Internal Assessment		Practical Examination		Theory Examination		Total Marks	
	Attendance	CCA						
	5	15	0		80		100	
Course objective	This course aims to sensitize the learner about the various development regimes and the development apparatus, including development communication, that supports (and fails) the development initiatives. The learner shall emerge a wiser and a more efficient practitioner of communication for development.							
Pass marks	IA		Practical		Theory Exam		Total	
	Max	Pass	Max	Pass	Max	Pass	Max	Pass
	20	40%	0	0	80	40%	100	40%

Instructions for Paper Setters:

Maximum time: 3 hours.

Part A	Ten short answer (50 words) questions covering the entire syllabus for two marks each. All questions are compulsory.	10 x 2 = 20 marks
Part B	This section shall have four sub-sections covering all four units of the syllabus. One out of two questions from each sub-section is to be answered (700 words) for 15 marks each.	4 x 15 = 60 marks
Total Marks (A+B)		80 marks

Course Contents:

Unit	Topic	Contact Hours		
		L	T	P
I	DEVELOPMENT BASICS Meaning of development Classical and neo-liberal development theories Structuralism, neo-Marxism and socialism Grassroots development; Social and cultural dimensions of development Environment and development theory; Post-Development Globalization and development: problems and solutions Dependency paradigm, World Systems Theory	12	3	0
II	DEVELOPMENT INSTITUTIONS Developmental and rural extension agencies; governmental, semi-government, non-governmental organizations; Panchayati Raj Institutions (mandate and structure); Development planning at national, state, regional, district, block and village levels. Major development initiatives Himachal Pradesh and Indian Govt. United Nations and its bodies; Other major national and international NGOs and organisations and their programmes Human Rights; Right to Education, Right to work; Right to services	11	3	0
III	DEVELOPMENT COMMUNICATION Meaning and need for development communication Magic Multipliers: (Lerner, Scramm, Rogers); Development Support Communication; Diffusion of Innovations; Two-step Flow; Extension as	12	3	0

	development; Population IEC and Health Communication; Social Marketing and Behaviour Change Communication; Information and Communication Technologies for Development (ICT4D) Participatory Development Communication (Dialogical approach and Self-management, access and participation) Agenda Setting; Communication for Development (C4D)			
IV	Media and Development Role of media in National Development Historical perspective on media for development: Print, Radio, TV, Video, Traditional and Folk Media, Community Media; Development Journalism; Critical appraisal of development journalism in India New technologies for development (special emphasis on India); National Knowledge Network Designing messages for development: Strategy, framing, writing/ scripting, producing, disseminating development messages for urban, semi urban and rural audiences.	10	6	0

Essential Reading:

- Belmont, C. A. (2001). *Technology Communication Behaviour.* New Delhi: Wordsworth
- Dharmarajan, S. (2007). *NGOs as Prime Movers.* New Delhi: Kanishka Publications
- Madhusudan, K. (2006). *Traditional Media and Development Communication.* New Delhi: Kanishka Publishers
- Mehta, S.R. (Ed.) (1992). *Communication in Social Development.* Jaipur: Rawat Publications
- Melkote, S., and Steeves, H. L. (2001). *Communication for Development in the Third World: Theory and Practice for Empowerment* (2nd Ed). New Delhi: Sage Publications.
- Nair, K. S., and White, S. A. (1993). *Perspectives on Development Communication.* New Delhi: Sage Publication
- Ninan, S. (2007). *Headlines from the Heartland: Reinventing the Hindi Public Sphere.* LA: Sage Publications
- Parmar, S. (1975). *Traditional Folk Media in India.* New Delhi: Gekha Books
- Rogers, E. M. (2000). *Communication and Development: Critical Perspective.* New Delhi: Sage Publications
- Schramm, W. (1964). *Mass Media and National Development.* Stanford Univ. Press
- Schramm, W., and Lerner, D. (1967). *Communication and Change in the Developing Countries.* Honululu: East West Center Press
- Servaes, J. (Ed.) (2002). *Approaches to Development Communication.* Paris: UNESCO
- Willis, K. (2005). Theories and Practices of Development. London and NY: Routledge

Additional Reading:

- Bebbington, A.J. and Bebbington, D.H. (2001). Development Alternatives: Practice, Dilemmas and Theory. *Area,* 33 (1): 7-1 7
- E.M. Rogers (1995). Diffusion of Innovations (4th Ed). New York: Free Press
- Escobar, A (1995). Encountering Development: The Making And Unmaking Of The Third World: 12–14
- Hunt, D. (1989). Economic Theories of Development: An Analysis of the Competing Paradigms. NT: Harvesters Whitsheaf
- Joshi, P.C. (2002). Communication and National Development. Anamika Publishers

- Kiely, R. (1999). The Last Refuge of the Noble Savage? A Critical Assessment of Post-Development Theory. *The European Journal of Development Research*, 11 (1): 30-55
- Lerner, D. (1958). The Passing of Traditional Society. Glencoe: Free Press
- Nustad, K.G. (2001). Development: The Devil We Know? *Third World Quarterly*, 22 (4): 479-489
- Pieterse, J.N. (1996). The Development of Development Theory: Towards Critical Globalism. *International Political Economy*, 3 (4): 541-564
- Pieterse, J.N. (1998). My Paradigm or Yours? Alternative Development, Post-Development, Reflexive Development. *Development and Change*, 29 (2): 343-373
- Pieterse, J.N. (2000). After post-development. *Third World Quarterly*, 21 (2): 175-191
- Thakur, B. S., and Agarwal, B. C. (1989). Media Utilization for Development of Women and Children. New Delhi: Concept Publishers

Media and Cultural Studies

Course Code	MJMC22305							
Course Title	Media and Cultural Studies							
Course Credits	Lecture		Tutorial		Practice		Total	
	3		1		0		4	
Contact hours	45		15		0		60	
Examination Scheme	Internal Assessment		Practical Examination		End-semester Examination		Total Marks	
	Attendance	CCA						
	5	15	00		80		100	
Course objective	The media is a powerful actor in social conditioning. It mirrors, transplants and perpetuates social norms and values. This course is designed to equip a student appreciate the politics of mass media culture industry by sensitizing her towards the dynamics of this power and its impact on cultures in the globalised world.							
Pass marks	IA		Practical		ESE		Total	
	Max	Pass	Max	Pass	Max	Pass	Max	Pass
	20	40%	00	00	80	40%	100	40%

Instructions for Paper Setters:

Maximum time: 3 hours.

Part A	Ten short answer (50 words) questions covering the entire syllabus for two marks each. All questions are compulsory.	10 x 2 = 20 marks
Part B	This section shall have four sub-sections covering all four units of the syllabus. One out of two questions from each sub-section is to be answered (700 words) for 15 marks each.	4 x 15 = 60 marks
Total Marks (A+B)		80 marks

Course Contents:

Unit	Topic	Contact Hours		
		L	T	P
I	CULTURE AND IDENTITY Culture: Meaning and definition, characteristics; Classification: Macro and Micro, and Material and Non-Material Culture; Concepts of Mass Culture, Pop Culture, Subculture, Counterculture Raymond William's Culture as *'a whole way of life'* Stuart Hall: Culturalism vs. Structuralism	12	4	0
II	CULTURE, IDENTITY AND MEANING-MAKING Identity: Self-concept, personal vs. social identity Constituents of identity; Identity change; Identity Negotiation Theory Symbolic Interactionism; Social Constructionism; The Media Literacy Movement	11	4	0
III	GLOBALISATION AND GLOBAL CULTURE Gloablisation: concept, meaning, driving forces; Global trade in media culture, global media culture, capitalism and the rise of consumer culture Global media structure: Multinational media ownership and control, Varieties of global mass media International news flow: Imbalance in the news flow, MacBride Commission report, NWICO Stuart Hall's Cultural Hegemony vs. Cultural Resistance and Struggle	11	3	0

IV	INTER-CULTURAL COMMUNICATION Hofstede's Cultural Dimensions Theory Communication Accommodation Theory Inter-culture Networks Theory Cultural change: Four-fold model of acculturation; Concepts of cultural maintenance, cultural hybridization, multiculturalism, cultural pluralism, intercultural competence Cultural Convergence Theory	11	4	0

Essential Reading:

- Baran, S. J., and Davis, D. K. (2012). *Mass Communication Theory: Foundations, Ferment, and Future* (6th Ed). Wadsworth, Cengage Learning
- Barker, C. (2002). *Making Sense of Cultural Studies: Central Problems and Critical Debates.* London, Thousand Oaks, New Delhi: Sage Publications.
- Fiske. J. (2011). *Introduction to Communication Studies: Studies in Culture and Communication* (3rd Ed). Oxon: Routledge.
- Golding. P. and Harris, P. (Eds.) (1999). *Beyond Cultural Imperialism: Globalization, Communication and the New International Order.* London, Thousand Oaks, New Delhi: Sage Publications.
- Gudykunst, W. B. and Mody, B. (Eds.) (2002). *Handbook of International and Intercultural Communication* (2nd Ed). London, Thousand Oaks, New Delhi: Sage Publications.
- Hall, S. (2016). *Cultural Studies 1983: A Theoretical History.* Durham and London: Duke University Press.
- McQuail, D. (2010). *McQuail's Mass Communication Theory* (6th Ed). London, Thousand Oaks, New Delhi, Singapore: Sage Publications.

Additional Readings:

- Gurevitch, M., Bennett, T., Curran, J. and Woollacott, J. (Eds.) (1982). *Culture, Society and the Media.* London and New York: Routledge.
- Ryan, M. (2010). *Cultural Studies: A Practical Introduction.* Wiley-Blackwell

Dissertation

<table>
<tr><td>Course Code</td><td colspan="8">MJMC22404</td></tr>
<tr><td>Course Title</td><td colspan="8">Dissertation</td></tr>
<tr><td rowspan="2">Course Credits</td><td colspan="2">Lecture</td><td>Tutorial</td><td colspan="2">Practice</td><td colspan="3">Total</td></tr>
<tr><td colspan="2">0</td><td>1</td><td colspan="2">3</td><td colspan="3">4</td></tr>
<tr><td>Contact hours</td><td colspan="2">0</td><td>15</td><td colspan="2">90</td><td colspan="3">105</td></tr>
<tr><td rowspan="3">Examination Scheme</td><td colspan="2">Internal Assessment</td><td rowspan="2">Practical Examination*</td><td rowspan="2">End-Semester Examination</td><td colspan="3" rowspan="2">Total Marks</td></tr>
<tr><td>Attendance</td><td>CCA</td></tr>
<tr><td>5</td><td>15</td><td>80</td><td>0</td><td colspan="3">100</td></tr>
<tr><td>Course objective</td><td colspan="8">This course seeks to introduce a learner to the rigours for practical aspects of research in the field of communication. It lays the ground work for preparing a student to take up and complete research projects in a professional manner either in the industry or academics.</td></tr>
<tr><td rowspan="3">Pass marks</td><td colspan="2">IA</td><td colspan="2">Practical</td><td colspan="2">ESE</td><td colspan="2">Total</td></tr>
<tr><td>Max</td><td>Pass</td><td>Max</td><td>Pass</td><td>Max</td><td>Pass</td><td>Max</td><td>Pass</td></tr>
<tr><td>20</td><td>40%</td><td>80</td><td>40%</td><td>00</td><td>00</td><td>100</td><td>40%</td></tr>
</table>

* By external examiner based on seminar presentation by the student and viva-voce examination.

Course Components:

- A student opting for dissertation will have to submit a research-based dissertation at the end of the semester. The topic for the research study, its scope and objectives and methodology will be finalized in consultation with the faculty advisor allotted at the beginning of the semester. The topic for research will be finalised only after the approval of the synopsis by the Departmental Research Committee.
- The topic and research study may either be in Hindi or English, not bi-lingual.
- The work submitted as dissertation by any candidate should be the original work of the candidate, free of plagiarism and completed under the direct supervision of the faculty advisor.
- A dissertation may be submitted only after the due approval and signatures of the faculty advisor.

Major Project

Course Code	MJMC22405							
Course Title	Major Project							
Course Credits	Lecture		Tutorial		Practice		Total	
	0		0		4		4	
Contact hours	0		0		120		120	
Examination Scheme	Internal Assessment		Practical Examination		End-semester Examination		Total Marks	
	Attendance	CCA						
	5	15	80		0		100	
Course objective	This course seeks to prepare the learner for the real world professional challenges and equip her with skills required to secure a job in the communication industry.							
Pass marks	IA		Practical		ESE		Total	
	Max	Pass	Max	Pass	Max	Pass	Max	Pass
	20	40%	80	40%	00	00	100	40%

Course Components:

- Students will conduct an inquiry using a variety of methods (e.g. case study, observation and analysis, planning, etc.) to undertake a task or study a subject and write a report in line with the objectives of the project.
- The project work will address a real life problem and the procedures and practices used in industry.
- Students may will plan, implement, or evaluate projects that have real-world applications beyond the classroom.
- The projects may be of any of the following type: case study, service learning projects, work-based projects, task-oriented projects, or problem-solving projects. All projects should have the following features: A definite beginning, middle, and end; directly observable information; real-world problems; First-hand investigation; tangible outcomes that can be shared with the stakeholders; evidence of reflective thinking by the student
- Based on the above, a student will prepare and submit a Major Project Report (up to ten thousand words) which will be assessed by external experts.
- Viva-voce by an external expert will be an integral part of the evaluation process.
- The area/topic of the project will be selected in consultation with the faculty of the institution of studies at the beginning of the semester.
- Practical examination will be conducted by external examiner (with help from internal faculty) based on Project Report and viva-voce examination as per the following criteria:

Sr.	**Performance criteria**	**Marks**
1.	Selection and planning of project assignment	10
2.	Analysis and evaluation of the problem	10
3.	Providing solution of the problems	10
4.	Report writing	30
5.	Viva voce	20
Total		80

Basics of Convergence Media

Course Code	MJMC22205							
Course Title	Basics of Convergence Media							
Course Credits	Lecture		Tutorial		Practice		Total	
	4		0		0		4	
Contact hours	60		00		00		60	
Examination Scheme	Internal Assessment		Practical Examination		End-semester Examination		Total Marks	
	Attendance	CCA						
	5	15	00		80		100	
Course objective	The course prepares the student for holistic understanding of new media technologies. While introducing the student to the potential and pitfalls of this technology, the course prepares them to engage with the technology meaningfully and efficiently.							
Pass marks	IA		Practical		ESE		Total	
	Max	Pass	Max	Pass	Max	Pass	Max	Pass
	20	40%	00	00	80	40%	100	40%

Instructions for Paper Setters:

Maximum time: 3 hours.

Part A	Ten short answer (50 words) questions covering the entire syllabus for two marks each. All questions are compulsory.	10 x 2 = 20 marks
Part B	This section shall have four sub-sections covering all four units of the syllabus. One out of two questions from each sub-section is to be answered (700 words) for 15 marks each.	4 x 15 = 60 marks
Total Marks (A+B)		80 marks

Course Components:

Unit	Topic	Contact Hours		
		L	T	P
I	EVOLUTION OF ICTS Phase 1: From cave paintings and fire signals to telegraph Phase 2: Telegraph to broadcasting Phase 3: Digital ICTs, Social and Mobile Media, Artificial Intelligence Concepts: Digital natives and Millennials, Net Etiquette, Cyber Culture, Theoretical Concerns: Technology determinism, ICT proliferation and digital divide; Digital (Human) Rights	15	0	0
II	EXPANDING LEXICON Tools: SEO, Analytics, Cross-platform promotion, click baits, crowd funding, crowd sourcing, geotagging, angel investors and start-ups, 3-D printing, Wearable technologies Concepts: Web 2.0, Cloud computing, Ubiquitous Computing and Internet of Things, Cleverbots and Natural Language Processing, Metaverse, Web 3.0 – The Semantic Web Theoretical Concerns: Singularitarianism, Techno-progressivism, Technological utopianism, Posthumanism and Transhumanism	15	0	0
III	CONSTRUCTING REALITY Virtual Everything: Virtual world, Virtual Avatars, Virtual Reality (Virtual, Immersive, Extended, Mixed and Augmented Reality and Augmented virtuality); Reality–virtuality continuum; Simulated Reality, Hyper Reality,	15	0	0

	Video games: Transreality gaming; Location-based games (pervasive games, mixed reality games and augmented reality games); Cross media games (simulation games, LARP and alternate reality games); Concepts of First-person (gaming) Theoretical Concerns: Gamification; Media violence theories and video game violence: Catharsis, Reinforcement, Cultivation			
IV	CRITICAL ISSUES Issues: Breach of privacy; Direct and indirect surveillance with special emphasis on Big Data; Cyber Security Content Culture: Information Overload vs. Filter bubble and Echo chambers; Big Data, Data Mining and Reality Mining Internet cultures: Activism, Slackativism, Hackactivism; homogenization, hybridization, mobilization, pluralism, fragmentation, polarity; Internet Addiction; Truth-by-consensus, Truthiness, Wikiality, Post-truth Concerns: Cypherpunk movement; The Social Construction of Reality; Neo-Luddism and Technophobia, The Internet Paradox	15	0	0

Essential Reading:

- Castells, M. (2000). *The Rise of the Network Society.* Wiley-Blackwell.
- Eugenia, S. (2011). Understanding New Media. Sage
- Gane, N., and Beer, D. (2008). *New Media: The Key Concepts.* Oxford and New York: Berg
- Green, L. (2010). *The Internet: An Introduction to New Media.* Oxford and New York: Berg
- Lister, M., Dovey, J., Giddings, S., Grant, I. And Kelly, K. (2009).New Media: A Critical Introduction (2nd Ed). London and New York: Routledge.
- Manovich, L. (2001). What is New Media? In *The Language of New Media.* Cambridge: MIT Press. pp. 19-48.
- VanDijk, J. (2012). *The Network Society* (3rd ED). London: Sage.

Additional Reading:

- Baym, N. K. (2010). *Personal Connections in the Digital Age.* Chapter 3.
- Bogost, I. (2007). *Persuasive Games: The Expressive Power of Videogames.* MIT Press.
- Goldsmith, J., and Wu, T. (2006). *Who Controls the Internet? Illusions of Borderless World.* Oxford University Press US.
- Hassan, R., and Thomas, J. (2006). *The New Media Theory Reader.* Berkshire and New York: Open University Press.
- Jenkins, H. (2006). *Convergence Culture: Where Old and New Media Collide.* New York: NYU Press.
- Lister Dovey, Giddings, Grant and Kelly, "New media and new technologies" (2003).
- Miller, V. (2011). *Understanding Digital Culture.* Sage Publications.
- Rosen, J. "The People Formerly Known as the Audience" What video games have to teach us about language and literacy. New York: Palgrave Macmillan.

Ethico-legal Issues in Media

Course Code	MJMC22406							
Course Title	Ethico-legal Issues in Media							
Course Credits	Lecture		Tutorial		Practice		Total	
	4		0		0		4	
Contact hours	60		00		00		60	
Examination Scheme	Internal Assessment		Practical Examination		End-semester Examination		Total Marks	
	Attendance	CCA						
	5	15	0		80		100	
Course objective	This course aims to inspire ethical journalistic conduct and knowledge of the legal framework and ethical conduct guiding the practice of journalism across media platforms. The course makes the budding journalist conversant with popular critical issues along with the rich history of the development of Indian media and journalism. The course also makes the budding journalist conversant with the current national and international industry ecosphere.							
Pass marks	IA		Practical		ESE		Total	
	Max	Pass	Max	Pass	Max	Pass	Max	Pass
	20	40%	0	0	80	40%	100	50%

*No practical examination will be conducted. The practice work will be evaluated as part of CCA.

Instructions for Paper Setters:

Maximum time: 3 hours.

Part A	Ten short answer (50 words) questions covering the entire syllabus for two marks each. All questions are compulsory.	10 x 2 = 20 marks
Part B	This section shall have four sub-sections covering all four units of the syllabus. One out of two questions from each sub-section is to be answered (700 words) for 15 marks each.	4 x 15 = 60 marks
Total Marks (A+B)		80 marks

Course Contents:

Unit	Topic	Contact Hours		
		L	T	P
I	ETHICS Concepts of Public Sphere and Public Interest Values: Human values and Indian ethos Regulatory framework: Press Council of India, NBA's News Broadcasting Standards Authority, IBF's BCCC, Central Board of Film Certification Press Council's Norms for Journalistic Conduct; NBA guidelines	15	0	0
II	INTELLECTUAL PROPERTY Intellectual Property Rights and its types, Creative Commons License Copyright [amendment] Act, 2012; Content regime: Proprietary, Open source, freeware, shareware, fair use	15	0	0
III	THE LAWS Contempt: Contempt of Court, 1971; Law of Parliamentary Privileges (Article 105 [3] and 194 [3]); Parliamentary Proceedings (Protection of Publication) Act, 1977 (Article 361-A) Rights: Right to Privacy, Right to be forgotten	15	0	0
IV	INDUSTRY REGULATION	15	0	0

	Press and Registration of Books Act, 1867; Cable TV Networks Regulation Act, 1995; Information Technology [amendment] Act, 2008 (portions relevant to media) Censorship: Official Secrets Act, 1923; Cinematograph Act, 1952; Young Persons (Harmful Publication) Act (1956); Law of Defamation (Section 499-502 of IPC); Law of Obscenity (Section 292-294 of IPC)			

Essential Reading:

- Basu, D. (1982). The *Law of the Press in India.* New Delhi: Prentice-Hall
- Chatterji, P. C. (1987). *Broadcasting in India.* New Delhi: Sage
- Eliott, D. (Ed.) (1986). *Responsible Journalism.* Beverly Hills: Sage Publications.
- Iyer, V. (Ed.) (2000). *Mass Media Laws and Regulations in India* (2nd Ed). Indian Research Press
- Raghvan, V. (2007). *Communication Law in India.* Lexis Nexis Butterworths
- Thakurta, P. G. (2009). *Media Ethics.* Oxford University Press
- Kohli-Khandekar, V. (2013). *The Indian Media Business* (4th Ed). LA, London, New Delhi, Singapore, Washinton DC: Sage.

Additional Reading:

- Crawford, N. A. (1969). *The Ethics of Journalism*. Connecticut: Greenwood Press.
- Lichtenberg, J. M. (Ed.) (1990). *Democracy and Mass Media*. Cambridge Univ. Press.

Annexure B

Himachal Pradesh University, Shimla – 171005

Department of Journalism and Mass Communication

Course Work for

Doctor of Philosophy in Journalism and Mass Communication

w.e.f. Academic Session 2022-23

Approved in PG-BoS held on 17.11.2022

(Ajay Kumar)	(Ajai Srivastava)	(Vikas Dogra)
(Shashi Kant)	(Jyoti Kamal)	(Kanwaljit Singh)

)

Norms for Ph.D. in Journalism and Mass Communication

1. Ph.D. is a full time regular course of study pursued by regular attendance in classes and seminars. A candidate seeking admission to the Ph. D. course must have at least 55% marks (50% in case of SC/ST) in the subject concerned at Master's level.
2. Applicants for the Ph.D. programme who hold either UGC NET(JRF)/Rajiv Gandhi Fellowship/Maulana Azad Fellowship/Awardees of Teacher Fellowship/ along with students sponsored by ICCR or any other Department of Govt. of India shall be exempt from the written entrance test. Such candidates will have to appear for interview and discussion on the research proposal as specified at 4(iii) below.
3. For the remaining seats, applicants shall have to appear for an entrance process of 100 marks, comprising written entrance test (70 marks) and interview/discussion on research proposal (30 marks).
4. Entrance process shall be conducted as follows:
    i. The written component of the entrance test shall carry 70 percent of the total 100 marks. The entrance will be of two-hour duration to be conducted in the form of Multiple Choice Questions; each question carrying one mark. The Entrance Test for Ph.D. shall have 50 percent as qualifying marks (45 percent in case of SC/ST candidates).
    ii. The syllabus for entrance test shall be 50 percent research methodology and 50 percent shall be subject specific.
    iii. The interview and discussion on the research proposal of the candidate with the Department Research Committee shall constitute 30 percent of the total 100 marks. The interview and discussion on the research proposal shall have 50 percent as qualifying marks (45 percent in case of SC/ST candidates).
    iv. Candidates appearing in entrance process shall be awarded aadditional weightage as follows:

Sr. No.	Category	Weightage
1	UGC-NET qualified	20 Marks
2	SLET qualified	15 Marks
3.	M.Phil from HPU	10 Marks

5. Other rules and regulations of the Himachal Pradesh University for admission and completion of Ph.D. degree shall apply.

Ph.D. (Journalism and Mass Communication) Course-work

Note: Minimum number of the credit requirement for the Ph.D. programme will be 14 credits. The coursework shall be treated as a prerequisite for Ph.D. preparation. The course-work for Ph.D. in Journalism and Mass Communication shall comprise of three courses. The scheme of examination and the detailed syllabi for the three courses will be as follows:

List of Courses

Discipline Specific Core Courses

Course Code				Course name	Marks Distribution			
LE	**SUB**	**SEM**	**NO.**		**IA**	**PR**	**ESE**	**TOT**
Semester - I								
PHD	JMC	1	01	Communication Research Methods	20	0	80	100
PHD	JMC	1	02	Communication Thought and Research Trends	20	0	80	100
PHD	JMC	1	03	Research and Publication Ethics	10	0	40	50

ESE	End-semester Examination
IA	Internal Assessment
JMC	Journalism and Mass Communication
L	Lecture
LE	Level
M	Master of Arts
PR	Practical Exam
SEM	Semester
SUB	Subject
T	Tutorial
TOT	Total marks
YR	Year of introduction

Communication Research Methods

Course Code	PHDJMC101							
Course Title	Communication Research Methods							
Contact hours	60		30		0		90	
Examination Scheme	Internal Assessment		Practical Examination		End-semester Examination		Total Marks	
	Attendance	CCA						
	5	15	0		80		100	
Course objective	This course aims bring inculcate the thorough understanding of research methodologies, tools and processes to enable a budding researcher carry on research projects with confidence. The students will learn approaches to communication research, quantitative research concepts, qualitative research concepts, and report writing and presentation.							
Pass marks	IA		Practical		ESE		Total	
	Max	Pass	Max	Pass	Max	Pass	Max	Pass
	20	40%	00	00	80	40%	100	50%

Instructions for Paper Setters:

Maximum time: 3 hours.

Part A	Ten short answer (50 words) questions covering the entire syllabus for two marks each. All questions are compulsory.	2 x 10 = 20 marks
Part B	This section shall have five sub-sections covering the five units of the syllabus. One out of two questions from each sub-section is to be answered (500 words) for 12 marks each.	12 x 5 = 60 marks
Total Marks (A+B)		80 marks

Course Contents:

Unit	Topic	Contact Hours		
		L	T	P
I	RESEARCH METHODS AND DESIGNS Research: meaning, types and objectives; Scientific research: need, process and challenges; Research problem: Defining and selecting a research problem; Research design: meaning, need and importance; Census and sample surveys; Comparison of quantitative and qualitative research approaches.	12	6	0
II	APPROACHES TO COMMUNICATION RESEARCH Message- or Artifact-Oriented Research: Archival/Documentary Research (library/documentary research, historical research, legal/policy research, secondary data analysis, meta-analysis); Textual Research (Critical/Cultural Approaches, Textual Analysis, Conversation/Interaction Analysis, Content Analysis). People- or Behaviour-Oriented Research: Survey Research (Data Collection and Interviews, Questionnaires, Polls and Ratings, Intensive Interviews, Focus Groups); Observational Research (Ethnography, Participant Observation, Unobtrusive Observation, Network Analysis, Verbal and Nonverbal Coding, Pre-experimental Designs, Experimental Designs, Laboratory and Non-laboratory Research).	12	6	0
III	QUANTITATIVE RESEACH CONCEPTS The Data: Meaning and types of data, issues of reliability and validity; methods of collecting primary and secondary data.	12	6	0

	The Sample: Population and sample, Sampling error, Sample size, Sample designs: Probability and Non-probability sampling designs; Problems of sampling in social research. Hypothesis: Development and structure; Methods of hypothesis formulation; Hypothesis Testing. Data classification and presentation of data: Frequency distribution and graphic representation; Experimentation: Experiments in the social sciences: Laboratory experiments and field experiments, Experiments and quasi-experiments; advantages and limitations of experimentation. Causality: The concept of cause, empirical corroboration of the causal relationship.			
IV	QUALITATIVE RESEARCH CONCEPTS Qualitative Techniques: Participant Observation, Observation vs. participant observation; Fields of application and recent developments in participant observation; Overt and covert observation: access and informants; What to observe; Recording observations; Analysis of empirical material; Observation in microsociology; Limitations. Qualitative Interview: Collecting data by asking questions; Quantitative and qualitative interviewing; Types of interview; Conducting interviews; Analysis of empirical material; Use of Documents: Reading social traces; Personal documents; Institutional documents.	12	6	0
V	REPORT WRITING AND PRESENTATION What is a scientific paper? How to: prepare the title; list the authors and addresses; prepare the abstract; write the introduction; write the materials and methods section; write the results; write the discussion; cite the references; state the acknowledgments Thesis: Thesis writing in English as a second language; Writing a research proposal; The overall shape of theses and dissertations; Writing the Introduction; Writing the background chapters; Writing the Methodology chapter; Writing the Results chapter; Writing Discussions and Conclusions; Writing the Abstract and Acknowledgements.	12	6	0

Essential Reading:

- Rubin, R.B., Rubin, A.M., Haridakis, P.M. and J.P., Linda (2010). *Communication research: Strategies and sources* (7th edn.), Boston: Wadsworth Cengage Learning.
- Wimmer, R.A. and Dominick, J.R. (2011). *Mass media research: An introduction* (9th edn.), Boston: Wadsworth Cengage Learning.
- Corbetta, P. [Bernard Patrick (*Trans.*)] (2003). *Social research: Theory, methods and techniques,* London, Thousand Oaks and New Delhi: Sage Publications.
- Kothari, C.R. (2004). *Research methodology: Methods and techniques,* New Delhi: New Age International (P) Limited, Publishers.
- Day, R.A. (1998). *How to write and publish a scientific paper*, Arizona: The Oryx Press.
- Paltridge, B. and Starfield, S. (2007). *Thesis and dissertation writing in a second language: A handbook for supervisors,* London and New York: Routledge.

Communication Thought and Research Trends

Course Code	PHDJMC102							
Course Title	Communication Thought and Research Trends							
Contact hours	60		30		00		90	
Examination Scheme	Internal Assessment		Practical Examination		End-semester Examination		Total Marks	
	Attendance	CCA						
	5	25	0		80		100	
Course objective	This course will apprise a student with the latest research thought and research trends in communication studies, thus enabling them to be up-to-date with their research own proposals in future. The course will introduce a student to theoretical background of communication research, along with the latest audience research methodologies, media output research, media exposure and response research and media response research.							
Pass marks	IA		Practical		ESE		Total	
	Max	Pass	Max	Pass	Max	Pass	Max	Pass
	20	40%	00	00	80	40%	100	50%

Instructions for Paper Setters:

Maximum time: 3 hours.

Part A	Ten short answer (50 words) questions covering the entire syllabus for two marks each. All questions are compulsory.	2 x 10 = 20 marks
Part B	This section shall have five sub-sections covering the five units of the syllabus. One out of two questions from each sub-section is to be answered (500 words) for 12 marks each.	12 x 5 = 60 marks
Total Marks (A+B)		80 marks

Course Contents:

Unit	Topic	Contact Hours		
		L	T	P
I	THEORETICAL BACKGROUND OF COMMUNICATION RESEARCH Humanities Research Traditions: Researching the Text (rhetoric, hermeneutics, phenomenology, semiotics); Disciplines in Humanistic Research: Art history, literary criticism, linguistics, film studies. Social Science Research Traditions: Positivism, interpretive social science, critical social science. Interdisciplinary developments in communication research: Post modernism, feminism, cognitivism, cultural studies approach.	12	6	0
II	AUDIENCE RESEARCH METHODOLOGIES Quantitative Audience Research: Surveys (*distinguished along* the purpose of the survey, the form of administration and the time span of the research), Experiments (*along with* type of experimental design), Quasi-experimental research Qualitative Audience Research: Focus group, observational research (completely unstructured field studies, completely structured observation, semi-structured study, unstructured laboratory study)	12	6	0
III	MEDIA OUTPUT RESEARCH Content Analysis: Describing trends in media portrayals, testing hypotheses about the policies or aims of media producers, comparing media content with the real world, assessing the representation of particular groups in society, and drawing inferences about media effects; Experimental Research on media output: Typography and makeup	12	6	0

	research, readability research, television narrative analysis, analysis of television formats, linguistic codes within children's programmes, coders' perception and audiences' perception; Limits to quantitative content analysis; Qualitative Content Analysis: Structuralist-semiotic analysis, discourse analysis, rhetorical analysis, narrative analysis and interpretative analysis.			
IV	MEDIA EXPOSURE AND RESPONSE RESEARCH Key audience measures and data capture techniques (questionnaires, diaries, electronic recording devices, experience sampling, observation and in-depth interviews); Print Media Research (readership research, and circulation research); Electronic Media Usage (ratings research, and audience measurement); Qualitative approaches to audiences. Media Response Research: Affective Response: industry-driven affective research (off-line and on-line measures); Academic research (viewers' reaction, and viewers as editors).	12	6	0
V	MEDIA RESPONSE RESEARCH Cognitive Response: Off-line measures of attention and comprehension (survey interview measures, attention measurement in an experimental framework, focus group measures), Online measures (observational research, laboratory research for behavioural measures, physiological measures, and information-processing tasks) Cognitive Impact: Agenda-setting research, cultivation of beliefs and opinions, factual learning from the media.	12	6	0

Essential Reading:

- Gunter, B. (2000). *Media research methods: Measuring audiences, reactions and impact*, London, Thousand Oaks, New Delhi: Sage.
- Jensen, K.B. (Eds.) (2002). *A handbook of media and communication research: Qualitative and quantitative methodologies,* London and New York: Routledge.
- Frey, L.R. and Cissna, K.N. (Eds.) (2009). *Routledge handbook of applied communication research,* London and New York: Routledge.
- Paxson, P. (2010). *Mass Communications and Media Studies: An Introduction,* London and New York: *Continuum.*
- Wimmer, R.D. and Dominick, J.R. (2011). *Mass media research: An introduction,* Boston: Wadsworth.

Research and Publication Ethics

Course Code	PHDJMC103							
Course Title	Research and Publication Ethics							
Contact hours	15		00		15		30	
Examination Scheme	Internal Assessment		Practical Examination		End-semester Examination		Total Marks	
	Attendance	CCA						
	5	5	00		40		50	
Course objective	This course aims to steer a student towards understanding the importance of ethics in best practices in research and research publications.							
Pass marks	IA		Practical		ESE		Total	
	Max	Pass	Max	Pass	Max	Pass	Max	Pass
	10	40%	00	00	40	40%	50	50%

Instructions for Paper Setters:

Maximum time: 3 hours.

Part A	Five short answer (50 words) questions covering first three units of the syllabus for two marks each. All questions are compulsory.	2 x 5 = 10 marks
Part B	Three sub-sections covering first three units of the syllabus. One out of two questions from each sub-section is to be answered (500 words) for 10 marks each.	10 x 3 = 30 marks
Total Marks (A+B)		40 marks

Course Contents:

Unit	Topic	Contact Hours		
		L	T	P
I	PHILOSOPHY AND ETHICS Introduction to philosophy: definition, nature and scope, concept, branches Ethics: definition, moral philosophy, nature of moral judgements and reactions	3	0	0
II	SCIENTIFIC CONDUCT Ethics with respect to science and research Intellectual honesty and research integrity Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP) Redundant publications: duplicate and overlapping publications, salami slicing Selective reporting and misrepresentation of data	5	0	0
III	PUBLICATION ETHICS Publication ethics: definition, introduction and importance Best practices/standards setting initiatives and guidelines: COPE, WAME, etc. Conflicts of interest Publication misconduct: definition, concept, problems that lead to unethical behaviour and vice versa, types Violation of publication ethics, authorship and contributor-ship Identification of publication misconduct, complaints and appeals Predatory publishers and journals	7	0	0
IV	OPEN ACCESS PUBLISHING *(Practice only)* Open access publications and initiatives	0	0	4

	SHERPA/RoMEO online resource to check publisher copyright & self-archiving policies Software tool to identify predatory publications developed by SPPU Journal finder / journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggested, etc.			
V	PUBLICATION MISCONDUCT *(Practice only)* A. Group Discussions: Subject specific ethical issues, FFP, authorship Conflicts of interest Complaints and appeals: examples and fraud from India and abroad B. Software tools: Use of plagiarism software like Turnitin, Urkund and other open source software tools	0	0	4
VI	DATABASES AND RESEARCH METRICS *(Practice only)* A. Databases: Indexing databases Citation databases: Web of Science, Scopus, etc. B. Research Metrics: Impact Factor of journal as per Journal Citation Report, SNIP, SIR, IPP, Cite Score Metrics: h-index, g index, i10 index, altmetrics	0	0	7

Essential Reading:

- Bird, A. (2006). *Philosophy of Science*. Routledge.
- MacIntyre, Alasdair (1967). A Short History of Ethics. London
- P. Chaddah, (2018) Ethics in Competitive Research: Do not get scooped; do not get plagiarized. National Academy of Sciences, National Academy of Engineering and Institute of Medicine. (2009). *On Being a Scientist: A Guide to Responsible Conduct in Research: Third Edition*. National Academies Press.
- Resnik, D.B. (2011). What is ethics in research & why is it important. *National Institute of Environmental Health Sciences*, 1-10. Retrieved from https://www.niehs.njh.gov/research/resourses/bioethics/whatis/index.cfm
- Beall, J. (2012). Predatory Publishers are corrupting open access. Nature, 489(7415), 179-179. https://doi.org/10.1038/489179a
- Indian National Science Academy (INSA), Ethics in Science Education, Research and Governance (2019). https://www.insaindia.rcs.in/pdf/Ethics_Book.pdf

Himachal Pradesh University, Shimla – 5

Department of Journalism and Mass Communication

PhD (Journalism and Mass Communication)

Programme Learning Outcomes

1. On completion of the programme, research students will be able to gain knowledge about doing research, show intellectual abilities and techniques to carry out excellent academic research.

2. On completion of the programme, research students will have a thorough knowledge of the literature and a clear understanding of methods and techniques which is applicable to research.

3. On completion of the programme, research students will be able to give quality research publication which satisfies peer review.

4. On completion of the programme, research students will be able to apply a significant range of advanced and other specialised skills related to research and be able to act autonomously in the planning and administration of research.

5. On completion of the programme, research students will be able to practice a self-critical and self-reflective approach in the area of research and develop professional relationships with others in the field of research.

6. On completion of the programme, research students will be able to demonstrate the problem and conflict resolving qualities through communication and working effectively with others Research organisations.

7. On completion of the programme, research students will be able to present and defend original research results and outcomes of the study.

8. On completion of the programme, research students will be able to demonstrate the quality of team work, leadership and to work collaboratively with stakeholders.

Programmes Specific Outcomes

PSO 1: To Critically apply theories, methodologies, techniques and knowledge in the area of research.

PSO 2: To Pursue research of significance in the discipline or an interdisciplinary subject.

PSO 3: To Demonstrate skills in oral and written communication sufficient to publish and present work in their area of academics.

PSO 4: To Follow the principles of ethics in the field of Research and in academia.

Course Outcomes

Communication Research Methods

After Completion of Course, the students will be able to:

CO 1: Describe various approaches to communication research.

CO 2: Explain Research meaning, types and objectives.

CO 3: Explain Research design, meaning, need and importance and quantitative and qualitative research approaches.

CO 4: Describe research methods and various research designs.

CO: 5 Explain the Data, Meaning and types of data, issues of reliability and validity, methods of collecting primary and secondary data.

CO 6: Describe the Sample, Sampling error, Sample size, Sample designs.

CO 7: Describe Experimentation, Experiments in the social sciences, Laboratory experiments and field experiments.

CO 8: Explain and describe various Qualitative research methods and Qualitative techniques.

CO 9: Explain and describe scientific paper, Report writing and Proposal writing.

Communication Research Trends

After Completion of Course, the students will be able to:

CO 1: Describe Humanities Research Traditions and Researching the text.

CO 2: Describe Social Science Research Traditions: Positivism, interpretive social science and critical social science.

CO 3: Interdisciplinary developments in communication research: Post modernism, feminism, cognitivism and cultural studies approach.

CO 4: Describe Quantitative Audience Research and Qualitative Audience Research.

CO 5: Describe Content Analysis, Experimental Research on media output and quantitative content analysis.

CO 6: Describe Key audience measures and data capture techniques.

CO 7: Describe Print Media Research and Electronic Media Usage

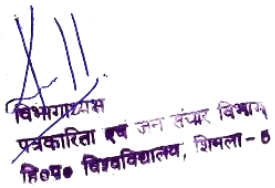
CO 8: Describe Media Response Research, Cognitive Response and Cognitive Impact.

Department of Journalism and Mass Communication Himachal Pradesh University, Summer Hill, Shimla – 171005

Ph.D. (Journalism and Mass Communication) Syllabus for

Course-work

Approved by Board of Studies in Journalism and Mass Communication on 3rd October, 2013-10-02



Course 1 – Communication Research Methods

Ph.D. (Journalism and Mass Communication) Course-work Structure

The course-work for Ph.D. in Journalism and Mass Communication shall comprise of two courses. Each course will span over one semester. The scheme of examination and the detailed syllabi for the two courses will be as follows:

Course No.	Course Title	Maximum Marks	Marks distribution	
			Internal Assessment	Theory Examination
1.	Communication Research Methods	100	20	80
2.	Communication Research Trends	100	20	80

Course 1 – Communication Research Methods

Course No.	Course Title	Maximum Marks	Marks distribution	
			Internal Assessment	Theory Examination
1.	Communication Research Methods	100	20	80

Instructions:

To successfully complete this course a candidate will have to secure at least 50 percent of the maximum marks in aggregate. Besides, it shall be compulsory to obtain at least 40 percent as pass- marks in both internal assessment and theory exam, i.e. eight marks in internal assessment and 32 marks in theory exam.

Instructions for theory exam:

The theory examination for this course will be of three-hour duration for a maximum of 80 marks. The examination paper will be in three parts as follows:

Part	Contents	Marks
I	Eight very-short answer type questions of two marks each; Each question to be answered in not more than 50 words; Two questions each from all four units; All questions will have to be answered.	8 x 2 = 16
II	Eight short answer type questions of eight marks each; Each question to be answered in not more than 200 words; Two questions each from all four units; Candidates will have to answer five questions.	8 x 5 = 40
III	Five long answer type questions of 12 marks each; Each question to be answered in not more than 1000 words; One question each from all five units; Candidate will have to attempt two of these questions.	2 x 12 = 24

Course Contents

UNIT - I

RESEARCH METHODS AND DESIGNS

Research: meaning, types and objectives; Scientific research: need, process and challenges; Research problem: Defining and selecting a research problem;
Research design: meaning, need and importance; Census and sample surveys;
Comparison of quantitative and qualitative research approaches.

UNIT - II

APPROACHES TO COMMUNICATION RESEARCH

Message- or Artefact-Oriented Research: Archival/Documentary Research (library/documentary research, historical research, legal/policy research, secondary data analysis, meta-analysis); Textual Research (Critical/Cultural Approaches, Textual Analysis, Conversation/Interaction Analysis, Content Analysis).

People- or Behaviour-Oriented Research: Survey Research (Data Collection and Interviews, Questionnaires, Polls and Ratings, Intensive Interviews, Focus Groups); Observational Research

(Ethnography, Participant Observation, Unobtrusive Observation, Network Analysis, Verbal and Nonverbal Coding, Pre-experimental Designs, Experimental Designs, Laboratory and Non-laboratory Research).

UNIT - III

QUANTITATIVE RESEACH
CONCEPTS

The Data: Meaning and types of data, issues of reliability and validity; methods of collecting primary and secondary data.

The Sample: Population and sample, Sampling error, Sample size, Sample designs: Probability and Non-probability sampling designs; Problems of sampling in social research.

Hypothesis: Development and structure; Methods of hypothesis formulation; Hypothesis Testing. Data classification and presentation of data: Frequency distribution and graphic representation; Experimentation: Experiments in the social sciences: Laboratory experiments and field experiments, Experiments and quasi-experiments; advantages and limitations of experimentation.

Causality: The concept of cause, empirical corroboration of the causal relationship.

UNIT-IV

QUALITATIVE RESEARCH CONCEPTS

Qualitative Techniques: Participant Observation, Observation vs. participant observation; Fields of application and recent developments in participant observation; Overt and covert observation: access and informants; What to observe; Recording observations; Analysis of empirical material; Observation in micro sociology; Limitations.

Qualitative Interview: Collecting data by asking questions; Quantitative and qualitative interviewing; Types of interview; Conducting interviews; Analysis of empirical material;

Use of Documents: Reading social traces; Personal documents; Institutional documents.

UNIT - V

REPORT WRITING AND PRESENTATION

What is a scientific paper? How to: prepare the title; list the authors and addresses; prepare the abstract; write the introduction; write the materials and methods section; write the results; write the discussion; cite the references; state the acknowledgments

Thesis: Thesis writing in English as a second language; Writing a research proposal; The overall shape of theses and dissertations; Writing the Introduction; Writing the background chapters; Writing the Methodology chapter; Writing the Results chapter; Writing Discussions and Conclusions; Writing the Abstract and Acknowledgements.

Essential Reading:

- Rubin, R.B., Rubin, A.M., Haridakis, P.M. and J.P., Linda (2010). *Communication research: Strategies and sources* (7th edn.), Boston: Wadsworth Cengage Learning.
- Wimmer, R.A. and Dominick, J.R. (2011). *Mass media research: An introduction* (9th edn.), Boston: Wadsworth Cengage Learning.
- Corbetta, P. [Bernard Patrick (*Trans.*)] (2003). *Social research: Theory, methods and techniques,* London, Thousand Oaks and New Delhi: Sage Publications.
- Kothari, C.R. (2004). *Research methodology: Methods and techniques,* New Delhi: New Age International (P) Limited, Publishers.
- Day, R.A. (1998). *How to write and publish a scientific paper*, Arizona: The Oryx Press.
- Paltridge, B. and Starfield, S. (2007). *Thesis and dissertation writing in a second language: A handbook for supervisors,* London and New York: Routledge.

Course 2 – Communication Research Trends

Course No.	Course Title	Maximum Marks	Marks distribution	
			Internal Assessment	Theory Examination
1.	Communication Research Trends	100	20	80

Instructions:

To successfully complete this course a candidate will have to secure at least 50 percent of the maximum marks in aggregate. Besides, it shall be compulsory to obtain at least 40 percent as pass- marks in both internal assessment and theory exam, i.e. eight marks in internal assessment and 32 marks in theory exam.

Instructions for theory exam:

The theory examination for this course will be of three-hour duration for a maximum of 80 marks. The examination paper will be in three parts as follows:

Part	Contents	Marks
I	Eight very-short answer type questions of two marks each; Each question to be answered in not more than 50 words; Two questions each from all four units; All questions will have to be answered.	8 x 2 = 16
II	Eight short answer type questions of eight marks each; Each question to be answered in not more than 200 words; Two questions each from all four units; Candidates will have to answer five questions.	8 x 5 = 40
III	Five long answer type questions of 12 marks each; Each question to be answered in not more than 1000 words; One question each from all five units; Candidate will have to attempt two of these questions.	2 x 12 = 24

Course Contents

UNIT – I

THEORETICAL BACKGROUND OF COMMUNICATION RESEARCH

Humanities Research Traditions: Researching the Text (rhetoric, hermeneutics, phenomenology, semiotics); Disciplines in Humanistic Research: Art history, literary criticism, linguistics, film studies. Social Science Research Traditions: Positivism, interpretive social science, critical social science.

Interdisciplinary developments in communication research: Post modernism, feminism, cognitivism, cultural studies approach.

UNIT – II

AUDIENCE RESEARCH METHODOLOGIES

Quantitative Audience Research: Surveys (*distinguished along* the purpose o f the survey, the form of administration and the time span of the research), Experiments (*along with* type of experimental design), Quasi-experimental research

Qualitative Audience Research: Focus group, observational research (completely unstructured field studies, completely structured observation, semi-structured study, unstructured laboratory study)

UNIT – III

MEDIA OUTPUT RESEARCH

Content Analysis: Describing trends in media portrayals, testing hypotheses about the policies or aims of media producers, comparing media content with the real world, assessing the representation of particular groups in society, and drawing inferences about media effects; Experimental Research on media output: Typography and makeup research, readability research, television narrative analysis, analysis of television formats, linguistic codes within children's programmes, coders' perception and audiences' perception; Limits to quantitative content analysis; Qualitative Content Analysis: Structuralist-semiotic analysis, discourse analysis, rhetorical analysis, narrative analysis and interpretative analysis.

UNIT – IV

MEDIA EXPOSURE AND RESPONSE RESEARCH

Key audience measures and data capture techniques (questionnaires, diaries, electronic recording devices, experience sampling, observation and in-depth interviews); Print Media Research (readership research, and circulation research); Electronic Media Usage (ratings research, and audience measurement); Qualitative approaches to audiences.

Media Response Research: Affective Response: industry-driven affective research (off-line and on- line measures); Academic research (viewers' reaction, and viewers as editors);

UNIT – V

MEDIA RESPONSE RESEARCH

Cognitive Response: Off-line measures of attention and comprehension (survey interview measures, attention measurement in an experimental framework, focus group measures), Online measures (observational research, laboratory research for behavioural measures, physiological measures, and information-processing tasks)

Cognitive Impact: Agenda-setting research, cultivation of beliefs and opinions, factual learning from the media.

Essential Readings:

- Gunter, B. (2000). *Media research methods: Measuring audiences, reactions and impact*, London, Thousand Oaks, New Delhi: Sage.
- Jensen, K.B. (Eds.) (2002). *A handbook of media and communication research: Qualitative and quantitative methodologies,* London and New York: Routledge.
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2.6.1

The institution has stated learning outcomes (generic and programme specific)

INDEX

Sr. No	Documents	Page No
1.	Details of Learning Outcomes	2-8

Course	Course outcomes		
	Skill development	**employment**	**Professional acumen**
BALLB (H)	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts

DETAILED SUBJECT WISE LIST

Course Name	Course outcomes		
	Skill development	**employment**	**professional accumen**
1. Law of Torts : LLB(H) 105	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
2. Family Law-I LLB(H) 106	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
3. Law of Crime I LLB(H) 205	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts

4. Family Law-II LLB(H) 206	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
5. Constitutional Law-I LLB(H) 304	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
6. Law of Contract- I LLB(H) 305	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
7. Environmental Law LLB(H) 305	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
8. Law of Contract- II LLB(H) 404	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
9. Jurisprudence LLB(H) 405	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
10. Constitutional Law-II LLB(H) 406	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
11. Business Law LLB(H) 504	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
12. Law of Crime II LLB(H) 505	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
13. Company Law LLB(H) 506	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts

14. Civil Procedure Code LLB(H) 603	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
15. Law of Evidence LLB(H) 604	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
16. Public International Law LLB (H) 605	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
17. Administrative Law LLB(H) 606	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
18. Labour and Industrial Laws-I LLB(H) 702	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
19. Cyber Law LLB(H) 703	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
20. Alternative Dispute Resolution (Practical-I) LLB(H) 704	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
21. International Humanitarian and Refugee Law LLB(H) 705(a)	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
22. International Criminal Law and ICC LLB(H) 705(b)	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts

23. International Labour Organization and Labour Laws LLB(H) 705©	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
24. Women and Law LLB(H) 706(a)	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
25. Election Law LLB(H) 706(b)	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
26. Interpretation of Statutes LLB(H) 802	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
27. Labour and Industrial Laws-II LLB(H) 803	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
28. Professional Ethics and Professional Accounting System) (Practical-II) LLB(H) 804	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
29. Intellectual Property Rights LLB(H) 805(a)	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
30. Comparative Law LLB(H) 805(b)	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
31. Criminology LLB(H) 806(a)	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts

32. Socio-Economic Offences LLB(H) 806(b)	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
33. Media and Laws BALLB(H) 901	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
34. Property Law and IndianEasement Act, 1882 LLB(H) 902	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
35. Drafting, Pleading andConveyancing (Practical-III) LLB(H) 903	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
36. Equity, Trust AndOther Fiduciary Obligations LLB(H) 904	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
37. Human Rights Law LLB(H) 905(a)	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
38. Health Care Laws LLB(H) 905(b)	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
39. Law, Poverty and Development LLB(H) 905(b)	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts

40. Local Self-Government Including Panchayat Administration LLB(H) 906(a)	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
41. Corporate Governance LLB(H) 906(b)	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
42. Insurance Law LLB(H) 906 ©	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
43. Taxation Laws LLB(H) 1001	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
44. Land Laws : LLB(H) 1002	Presentations, activities, seminars, moot courts	internships	Presentations, internship, assignments, moot courts
45. Banking Law LLB(H) 1003	Presentations, activities, seminars, moot courts	Internships	Presentations, internship, assignments, moot courts
46. Moot Court Exercises andInternship (Practical-IV) : LLB(H) 1004	Presentations, activities, seminars, moot courts	Internships	Presentations, internship, assignments, moot courts
47. Capital Market Regulation LLB(H) 1005(a)	Presentations, activities, seminars, moot courts	Internships	Presentations, internship, assignments, moot courts
48. Competition Law : LLB(H) 1005(b)	Presentations, activities, seminars, moot courts	Internships	Presentations, internship, assignments, moot courts
49. Law of Corporate Finance LLB(H) 1005(c)	Presentations, activities, seminars, moot courts	Internships	Presentations, internship, assignments, moot courts

50. International Trade Law LLB(H) 1006(a)	Presentations, activities, seminars, moot courts	Internships	Presentations, internship, assignments, moot courts
51. International Organization LLB(H) 1006(b)	Presentations, activities, seminars, moot courts	Internships	Presentations, internship, assignments, moot courts
52. Private International Law LLB(H) 1006(c)	Presentations, activities, seminars, moot courts	Internships	Presentations, internship, assignments, moot courts

हिमाचल प्रदेश विश्वविद्यालय
(राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद् 'ए' ग्रेड विश्वविद्यालय)
हिन्दी विभाग
समरहिल, शिमला-171005

दिनांक : 12.07.2023

सूचना

एम0ए0 हिन्दी एवं अनुवाद दूसरे तथा चौथे सेमेस्टर 2022-23 के लिए आन्तरिक मूल्यांकन के लिए ऑनलाईन परीक्षा की डेटशीट निम्नवत् है -

परीक्षा दिनांक : 15.07.2023

दिनांक	विषय	पेपर	पेपर का नाम	समय
15.07.2023	अनुवाद	III	अनुवाद का अनुप्रायोगिक संदर्भ	10:00 से 11:00
15.07.2023	हिन्दी	V	भक्ति एवं रीति-काव्य	11:00 से 12:00
15.07.2023	हिन्दी	XIII	छायावादोत्तर काव्य	11:00 से 12:00
15.07.2023	अनुवाद	VII	व्यावहारिक अनुवाद (विधि एवं संसदीय परिक्षेत्र)	2:00 से 3:00
15.07.2023	हिन्दी	VI	हिन्दी साहित्य का इतिहास (आधुनिक काल)	2:00 से 3:00
15.07.2023	हिन्दी	XIV	पाश्चात्य समीक्षा सिद्धांत	2:00 से 3:00

परीक्षा दिनांक : 17.07.2023

दिनांक	विषय	पेपर	पेपर का नाम	समय
17.07.2023	अनुवाद	IV	अनुवाद का भाषिक और सामाजिक पक्ष	10:00 से 11:00
17.07.2023	हिन्दी	IX	हिन्दी पत्रकारिता एवं मीडिया लेखन (जेनरिक-1)	10:00 से 11:00
17.07.2023	हिन्दी	VII	आधुनिक गद्य साहित्य	11:00 से 12:00
17.07.2023	हिन्दी	XV	अनुवाद विज्ञान : व्यावहारिक पक्ष	11:00 से 12:00
17.07.2023	हिन्दी	VIII	हिन्दी भाषा एवं देवनागरी लिपि	2:00 से 3:00
17.07.2023	हिन्दी	XVI	लोक साहित्य : प्रायोगिक आयाम (एक) अथवा समकालीन हिन्दी उपन्यास (दो)	2:00 से 3:00

12/7/2023
अध्यक्ष
हिन्दी विभाग
हि0प्र0 विश्वविद्यालय, शिमला-5

हिन्दी विभाग
हिमाचल प्रदेश विश्वविद्यालय, शिमला

दिनदर्शिका
जुलाई 2022 - जून 2023
(विभागीय वार्षिक गतिविधियां)

क्रम संख्या	विषय	तिथि / महीना	कार्यक्रम
1	जयंती	6 जुलाई, 2022 31 जुलाई, 2022 3 अगस्त, 2022 8 अगस्त, 2022 2 अक्तूबर, 2022 7 मार्च, 2023 6 मई, 2023 20 मई, 2023 4 जून, 2023	जायसी जयंती प्रेमचंद जयंती राष्ट्र कवि मैथिलीशरण गुप्त जयंती तुलसीदास जयंती महात्मा गाँधी जयंती अज्ञेय जयंती सूरदास जयंती सुमित्रानंदन पंत जयंती कबीर जयंती
2	व्याख्यान	10 अक्तूबर, 2022 20 अक्तूबर, 2022 7 नवम्बर, 2022 8 दिसम्बर, 2022 28 फरवरी, 2023 11 अप्रैल, 2023 26 मई, 2023	हिन्दी साहित्य एवं राष्ट्रीय शिक्षा नीति : मनोवैज्ञानिक परिप्रेक्ष्य में लोक साहित्य के विविध आयाम। हिन्दी भाषा के प्रचार-प्रसार में मीडिया की भूमिका। समकालीन कहानी में नारी विमर्श। हिन्दी साहित्य और पर्यावरणीय चेतना। वैश्विक स्तर पर हिन्दी साहित्य का विस्तार। नेट / जे.आर.एफ. प्रतियोगी परीक्षाओं के सन्दर्भ में विशेष व्याख्यान
3	कार्यशाला	17-24 अप्रैल, 2023	शोध प्रविधि
4	संगोष्ठी	15 सितम्बर, 2022 28 नवम्बर, 2022 1 मार्च, 2023 15 जून, 2023 30 जून, 2023	वर्तमान संदर्भ में भारतेंदु हरिश्चंद्र की प्रासंगिकता। हिन्दी भाषा के विकास में अन्य भारतीय भाषाओं का योगदान। राष्ट्रीय शिक्षा नीति 2020 : बदलते परिदृश्य में शिक्षा का स्वरूप। बाजारवाद और भूमंडलीकरण के दौर में साहित्य व पत्रकारिता। आधुनिक हिन्दी साहित्य में प्रवासी हिन्दी लेखकों की भूमिका
5	संकाय विकास कार्यक्रम (FDP)	मार्च, 2023	हिन्दी साहित्य की कालजयी रचनाएं
6	समझौता ज्ञापन		केन्द्रीय आलू अनुसंधान संस्थान, शिमला। केन्द्रीय हिन्दी संस्थान, आगरा। केन्द्रीय विश्वविद्यालय, धर्मशाला। केन्द्रीय विश्वविद्यालय, वर्धा। हिमाचल कला संस्कृति एवं भाषा अकादमी, शिमला।
7	प्रकाशन		शोध पत्रिका (हिमशैल साहित्य संगम)
8	विशेष दिवस	5 सितम्बर, 2022 14 सितम्बर, 2022 14 नवम्बर, 2022 5 जून, 2023 21 जून, 2023	अध्यापक दिवस। हिन्दी दिवस। बाल दिवस। पर्यावरण दिवस। योग दिवस।
9	अन्तर्विभागीय प्रतियोगिताएँ	जुलाई से जून, 2022-23	खेल कूद एवं शैक्षणिक कार्यक्रम
10	अन्य गतिविधियाँ	19 जुलाई, 2022 19 जुलाई, 2022 20 जुलाई, 2022 10 अगस्त, 2022 18 नवम्बर, 2022 18 मार्च, 2023 5 जून, 2023	पौधारोपण (समरहिल रेलवे स्टेशन परिसर)। मेहंदी प्रतियोगिता। स्वच्छता अभियान (चायली क्षेत्र)। सामुदायिक भागीदारी कार्यक्रम (चायली ग्राम)। प्रौढ़ शिक्षा अभियान। जागरूकता अभियान। स्वच्छता अभियान।

Aspects of Himachal History
GE Course-HIST 229
Second Semester

Course Description

Regional history has been suggested as an active way of history learning and has become popular with debates on globalisation and postmodernism in recent years. It will review relevant literature to elicit the potential benefits and problems of using regional history. Throughout this course students will analyze and demonstrate knowledge of the history, or change over time, of the regions, comprise of present Himachal Pradesh. The history of this region is complex and fragmented. Students shall examine the different stages of social and political transformation. Students will assess the historical importance of Himachal history and culture besides various changes in size and administrative form between1948 to the achievement of statehood in 1971.

Course Learning Outcomes

After completion of this course, the students will be able to

a. Identify the social, political and economic transformation
b. Appreciate the region as results of historical evolution
c. Think about the region's formation and changes
d. Emphasize integral consideration of various factors that affect the course of history
e. Examine the relationship between one region and other regions
f. Reveal certain rules of historical development in by presenting logics of historical developments of all regions

Unit I

1. Regional history and the regions in history
2. Survey of sources of Himachal history
3. Pre and Proto-history of Himachal Pradesh

Unit II

4. Tribalism to state formation
5. The formation and nature of early medieval states in Himachal Pradesh: Chamba, Kangra and Kullu
6. Hill states and external powers: Relations with Delhi sultans, Mughals and Sikh chiefs

Unit III

7. The Gorkha invasion: Process of repulsion and consequences of the Anglo-Gorkha War of 1814-15
8. Himachal under the British reorganization of the hill states, grant of *sanads* and territorial aggression
9. The uprising of 1857 and Himachal.

Unit IV

10. The questions of *begar, beth, dhoom, jugga* and *reet*
11. Popular protest in Himachal Pradesh with special reference to Praja Mandal movement
12. The birth of modern Himachal, 1948-71

Essential Readings

Ahluwalia, M. S., *History of Himachal Pradesh*, New Delhi: Intellectual Book Corner, 1988.

Ahluwalia, M. S., *Social, Cultural and Economic History of Himachal Pradesh*, New Delhi: Indus Publishing Company, 1998.

Aitchinson, C.U., *A Collection of Treaties, Engagements and Sanads Relating to India and Neighbouring countries*, vol. ix, Calcutta: 1892.

Alam, Aniket, *Becoming India: Western Himalayas under British Rule*, New Delhi: Cambridge University Press, 2007.

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Dutta, C. L., *The Raj and the Shimla Hill States: Socio-Economic Problems, Agrarian Disturbances and Paramountcy*, Jalandhar: ABC Publications, 1997.

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Hutchison, J. and J. Ph. Vogel., *History of Panjab Hill States*, 2 vols, reprint, Shimla: Art, Cuture and Language, 1982.

Lal, B. B., 'Paleoliths from Beas and Banganga Valleys', *Ancient India*, no. 16, 1960, pp. 58-92.

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Sahu, Bhairabi Prasad, *The Making of Regions in Indian History: Society, State and Identity in Premodern Odisha,* New Delhi: Primus Books, 2020.

Singh, Chetan, *Himalayan Histories, Economy, Polity, Religious Traditions*, New Delhi: Permanent Black in Association with Ashoka University, 2018.

Singh, Mian Goverdhan, *Art and Architecture of Himachal Pradesh*, Delhi: B. R Publishing Corporation, 1983.

Singh, Mian Goverdhan, *Himachal Pradesh: History, Culture and Economy*, 4th edition, Shimla: Minerva Book House, 1994.

Singh, Mian Goverdhan, *Wooden Temples of Himachal Pradesh*, New Delhi: Indus Publishing Company, 1999.

Thakur, Laxman S., *Buddhism in the Western Himalayas: A Study of the Tabo Monastery*, New Delhi: Oxford University Press, 2001.

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Tucci, G., *The Temples of Western Tibet and their Artistic Symbolism: The Monasteries of Spiti and Kunavar*, (Indi-Tibetica III. 1), rpt. New Delhi: 1988.

Verma, V., *The Emergence of Himachal Pradesh: A Survey of Constitutional Developments*, New Delhi: Indus Publishing Company, 1995.

Books in Hindi

Bhardwaj, Shiv, *Swaraj Sangharash Main Himachal Ke Nepathya,* Hamirpur: Thakur Jagdev Chand Samriti Shodh Sansthan Neri, 2021.

Bhattacharya, Sabyasachi, 'Kashetriya Itihas Lekhan Aur Sabyata Ka Rashtarvadi Drishtikon', in Prabhat Kumar Shukal, *Itihas Lekhan Ki Vibheen Drishtiyan*, Delhi: Granth Shilpi India Private Limited, 2012.

Handa, O. C., *Numismatic Sources on the Early History of Western Himalaya*, Delhi: B. R Publishing Corporation, 1984.

Malhotra, ChamanLal, *Himachal Ka Krantikari Itihas*, Shimla: Jaishri Printers Publishers, 1990.

Pandey, L. P., *Prachin Himachal*, New Delhi: Indian Classics, 1981.

Sharma, Om Prakash, *Himachal: Swadheenta Andolan Ka Itihas*, Shimla: Secretary, Himachal Academy of Arts, Culture and Language, 2022.

Suggested Readings

Allan, Johan, *Catalogue of the Coins of Ancient India*, rpt., New Delhi: MunshiramManoharlal, 1975.

Chhabra, B. Ch., *Antiquities of Chamba State*, Part II, New Delhi: ASI, 1975.

Elmore, Mark, *Becoming Religious in a Secular Age*, California, University of California, 2016.

Gupta, H. R., *The Sikh Commonwealth or Rise and Fall of the Misls*, Vol. IV *History of the Sikhs*, New Delhi: Munshiram Manoharlal, 2001.

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Moran, Arik, *Kingship and Polity on the Himalayan Borderland*, Amsterdom: Amsterdom University Press, 2019.

Pemble, John, *The Invasions of Nepal: John Company at War*, New Delhi: Oxford University Press, 1971.

Sharma, Om Prakash, *Himachal Lipimala*, Shimla: Secretary, Himachal Academy of Arts, Culture and Language, 2021.

Singh, Chetan, *Natural Premises: Ecology and Peasant Life and the Western Himalaya*, 1800-1950, New Delhi: IIAS and Oxford University Press, 1998.

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Verma, V., *Pangi: A Tribal Habitat in Mid-Himalaya,* New Delhi: Indus Publishing Company, 1998.

Yadav, K. C., *1857: The Role of Punjab, Haryana and Himachal Pradesh*, New Delhi: NBT India, 2008.

Research and Publication Ethics

AEC -HIST 340
Third Semester

Course Description

This course is important not only when conducting research but also when publishing it. It is one of the crucial pillars for maintaining scientific integrity and credibility. The onus to implement fair practices lies with researchers, universities/institutions, and publishers. Through this course we intend to provide a short yet inclusive resource to graduate/post –graduate students and early-stage researchers. We have identified common areas where researchers often face doubts and challenges. This course has total 12 short modules focusing on basics of research and ethics, research integrity, publication ethics, and identifying research misconduct and predatory publications. Citation database, publications, research misconduct and plagiarism tools and policy has been discussed in the course. Class room teaching, guest lectures, group discussions, and practical sessions will be the part of the pedagogy. There will semester-end examination for successful completion.

1. Understanding research ethics
2. What is plagiarism and ethical writing
3. Ethics in general publications
4. Ethics in quality academic publications. COPE & CARE
5. Academic misconduct
6. How to deter academic misconduct and the code of ethics
7. Avoiding plagiarism by using design thinking process
8. Managing references in ms-word, mendely etc.
9. Type of citation styles
10. How to cite and write
11. Literature review and proper use of e-resources
12. Plagiarism check tools/and software: Shodhshuddhi, urkund etc.

General Readings

Adams D, Pimple K.D., 'Research Misconduct and Crime: Lessons from Criminal Science on Preventing Misconduct and Promoting Integrity', *Accountability in Research*, 12(3) 2005, pp. 225-240.

Anderson, M.S. et al., 'What Do Mentoring and Training in the Responsible Conduct of Research Have To Do with Scientists' Misbehavior? Findings from a National Survey of NIH-Funded Scientists', *Academic Medicine*, 82(9), pp.853-860.

Beall, J., *Predatory publishers are corrupting open access*, Nature, 489(7415), 2012.

Best Practice Guidelines on Publication Ethics: a Publisher's Perspective. https://www.ncbi.nlm.nih.gov/pmc/articles/ PMC1804120/

Bird, A., *Philosophy of Science*, Routledge, 2006

Chaddah, O. P., *Ethics in Competitive Research*, New Delhi, 2018.

Indian National Science Academy (INSA), *Ethics in Science Education, Research and Governance*, New Delhi, 2019.

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Kalichman, M.W., 'Responding to Challenges in Educating for the Responsible Conduct of Research', *Academic Medicine*, 82(9) 2007, pp. 870-875.

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Follette, M.C., *Stealing into Print: Fraud, Plagiarism, and Misconduct in Scientific Publishing*, Berkeley, 1996.

MacIntyre, Alasdair, *A Short History of Ethics*, London, 1967.

Meskell, L. and P. Pels (eds.), Embedding ethics, . Oxford, 2005.

National Academy of Sciences, National Academy of Engineering and Institute of Medicine: *On Being a Scientist: A Guide to Responsible Conduct in Research*, National Academies Press. 2009.

Pimple, K.D., 'Six Domains of Research Ethics: A Heuristic Framework for the Responsible Conduct of Research', *Science and Engineering Ethics*, 8(2)2002, pp.191-205.

Regan, T., Matters of Life and Death: New Introductory Essays in Moral Philosophy. 3rd edition. New York, 1993.

Singer, P., *Practical Ethics*, 2nd ed., Cambridge, 1993.

Steneck, N.H., 'Fostering Integrity in Research', Science and Engineering Ethics, 12, 2006, pp. 53-74.

What is Ethics in Research & Why is It Important?
https://www.niehs.nih.gov/research/resources/bioethics/whatis/ index.cfm

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Indian National Movement (1858-1947)

GE-HIST 449

Fourth Semester

Course Description

Indian national movement is a mass movement where the people of India started having a feeling of nationalism inside their hearts which helped them to speak up. The course aims to provide a historical understanding of the factors, events, acts, policies, manoeuvres and real politic that led to the emergence of a powerful force of nationalism in India. Through a survey of the course the students will be sensitized to the complex process through which modern politics was introduced in India. The national movement was a crucial element in the transformation of the Indian society and polity. A study of the movement will therefore enable them to appreciate the complex nature of this transformation. It also has a well-off and comprehensive historiography. Therefore it has to be taught in a way that is selective rather than exhaustive. As course weightage is four-credit thus we have adopted a thematic approach instead of a chronological one.

Course Learning Outcomes

After completion of this course, the students will be able to

a. Appreciate the Indian national movement's multifaceted nature
b. Understand the historical factors for Indian nationalism
c. Know the various factors which were at work in the making of a nationalist movement in India
d. Comprehend and critique the ideologies of revolutionary nationalists
e. Understand the factors that contributed to the growth of communalism
f. Understand the larger perspectives behind partition

Unit-I

1. Historiography of the Indian national movement: Nationalist, marxist and subaltern schools.
2. Rise of political consciousness: Impact of the 1857 uprising. Peasants and tribal movement.

Unit-II

3. Social and religious reform movement: Growth of western education and the influence of socio-religious movement on the rise of Indian nationalism.
4. Rise of economic nationalism: British economy polities, drain theory and emergence of Indian capitalists.

Unit-III

5. Growth of Nationalism: Foundation, programmes and policies of Indian national congress. Role of revolutionary nationalists.
6. Understanding communalism: Factors responsible for growth of communalism in colonial period, divide and rule and communal riots.

Unit-IV

7. Gandhian mass movement: Doctrine of satyagraha, non co-operation, civil disobedience and quit India movement.
8. Towards Independence: Indian national army and naval mutiny of 1946. International response to the Indian national movement. Freedom and partition.

Essential readings

Chandra, Bipan, *India & Struggle for Independence*, New Delhi: Penguin Books, 1989.

Chatterjee, Partha, *Nationalist Thought and the Colonial World: A Derivative Discourse*, New Delhi: Zed Books, 1993.

Guha, Ranajit, *Subaltern Studies: Writings on South Asian History and Society*, Oxford: Oxford University Press, 1982.

Bayly, C. A., *The Peasant Armed: The Indian Rebellion of 1857*, Oxford: Oxford University Press, 1986.

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Stokes, Eric, *The Peasant and the Raj: Studies in Agrarian Society and Peasant Rebellion inColonial India*, Cambridge: Cambridge University Press, 1980.
Seal, Anil, *The Emergence of Indian Nationalism: Competition and Collaboration in the Later Nineteenth Century*, Cambridge: Cambridge University Press, 1968.
Brown, Judith M., *Gandhi and Civil Disobedience: The Mahatma in Indian Politics 1928-1934*, Cambridge: Cambridge University Press, 1977.
Wolpert, Stanley, *Tilak and Gokhale: Revolution and Reform in the Making of Modern India*, Oxford: Oxford University Press, 1962.
Sarkar, Sumit, *The Swadeshi Movement in Bengal, 1903-1908*, New Delhi: People Publishing House, 1973.
Noorani, A. G., *Savarkar and Hindutva: The Godse Connection*, New Delhi: Left Word Books, 2002.
Bose, Sugata, His Majesty's Opponent: Subhas Chandra Bose and India's Struggle Against Empire, London: Harvard University Press, 2011.
Gandhi, Mahatma, *The Essential Gandhi: An Anthology of His Writings on His Life, Work, and Ideas*, New Delhi: Vintage Spiritual Classics, 2002.
Brass, Paul R., *The Politics of India Since Independence*, Cambridge: Cambridge University Press, 1990.
Chandra, Bipan et al., *India Since Independence*, New Delhi: Penguin Books India, 2008.

Suggested Readings

Mankekar, D.R., *A History of the Indian Nationalist Movement*, New Delhi: New Book Company, 1947.
Robinson, Francis, *Separatism Among Indian Muslims: The Politics of the United Provinces' Muslims*, Cambridge: Cambridge University Press, 1974.
Pandey, Gyanendra, *The Ascendancy of the Congress in Uttar Pradesh*, New Delhi: Oxford University Press, 1985.
Lelyveld, David, Aligarh's First Generation: Muslim Solidarity in British India, London: Princeton University Press, 1978.
Ghose, Sankar, *Jawaharlal Nehru: A Biography*, New Delhi: Allied Publishers, 1993.
Nandy, Ashis, *The Intimate Enemy: Loss and Recovery of Self under Colonialism*, New Delhi: Oxford University Press, 1983.
Chatterjee, Partha, *The Nation and its Fragments: Colonial and Postcolonial Histories*, London: Princeton University Press, 1993.
Jaffrelot, Christophe, *The Hindu Nationalist Movement and Indian Politics*, New Delhi: Viking, 1996.
Arnold, David, *Science, Technology and Medicine in* Colonial India, Cambridge: Cambridge University Press, 2000.
Prakash, Gyan, *Another Reason: Science and the Imagination of Modern India*, Princeton: Princeton University Press, 2000.
Kumar, Radha, *The History of Doing: An Illustrated Account of Movements for Women's Rights and Feminism in India 1800–1990*, New Delhi: Zubaan, 2001.
Hardiman, David, *Gandhi in His Time and Ours*, Columbia: Columbia University Press, 2003.
Nehru, Jawaharlal, *Discovery of India*, New Delhi: Penguin India, 2004.
Bandyopādhyāy, Śhekhar, *From Plassey to Partition and After*, New Delhi: Orient Blackswan, 2004.
Metcalf, Barbara D., and Thomas R. Metcalf, *A Concise History of Modern India*, Cambridge: Cambridge University Press, 2006.
Ghosh, Amitav, *The Glass Palace*, New Delhi: Random House, 2006.
Rothermund, Dietmar, *The Routledge Companion to Decolonization*, London: Routledge, 2006.
Guha, Ramachandra, *India After Gandhi: The History of the World's Largest Democracy*, New Delhi: Pan Macmillan, 2007.
Bose, Sugata and Ayesha Jalal, *Modern South Asia: History, Culture, Political Economy*, London: Routledge, 2011.
Tharoor, Shashi, *Inglorious Empire: What the British Did to India*, London, Hurst, 2017.
Khilnani, Sunil, *The Idea of India*, New Delhi: Penguin, 2016.
Jalal, Ayesha, *The Sole Spokesman: Jinnah, the Muslim League and the Demand for Pakistan*, Cambridge: Cambridge University Press, 1985.

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RULES AND REGULATIONS

FOR

TWO YEARS FULL-TIME P.G. DEGREE COURSE

M. Sc. (ENVIRONMENTAL SCIENCES)

Based on
Choice Based Credit System

DEPARTMENT OF ENVIRONMENT SCIENCES
Himachal Pradesh University
Summer Hill, Shimla – 171005

M.Sc. (Environmental Sciences)

M.Sc. (Environmental Sciences) programme is relevant to young students/ professionals who are looking to develop their analytical and research skills regarding important issues in environment. The course has been designed to meet the demand of growing needs of professionals in the fields of environment management, environment laws, environment governance and policy, impact assessment, natural resource management, pollution control, etc. This course is of two years duration and is being run on semester basis. The course comprises Four Semesters. There are four theory papers and four practical / field study in first three semesters and three courses and dissertation in the fourth semester besides, class seminars, field visit, project reports and viva-voce etc. The course has following career Opportunities:

- Industry (Environmental Impact Assessment, Sustainable Resource Management, Waste Management, Environmental Biotechnology, Eco-technology)
- Government and Business Sector (Environmental Manager, Environmental Planner, Environment Consultant, Analysts)
- Universities, Colleges and Research Institutes (teaching and research)
- Non-governmental Organizations at National and International Levels

The probable learning outcomes of the M.Sc. (Environmental Sciences) shall include the following:

Knowledge & Understanding

- Establish systematic knowledge of Environmental Science.
- Insightfully address the contemporary environmental issues both of national and global importance.
- Engage in the field of Environmental Sciences and associated areas.

Skills & Techniques

- Show the aptitude to apply the knowledge in an organized way for the evaluation and clarification of environmental issues pertaining to ecosystems, air, water, and soil pollution, human health hazards; biodiversity loss, food security and agricultural issues.
- Establish the ability to recognize the role of Environmental Sciences in evolving sustainable solutions to the environmental issues
- Demonstrate the skill to plan and develop eco-friendly solutions and processes for realizing the goals of sustainable.

Competence

- Communicate efficiently
- Skilled to work as in team and contribute for effective planning, management, and

implementations of projects/programme

- Exhibit capability to think and implement independent research projects/programme and evaluate the outcomes

Programme Outcomes (PO)

After completion of this program, the learners will have:

1. Thorough understanding of environmental problems at local, regional andglobal level;
2. Gained skills to apply the knowledge to the environmental challenges before the society
3. Expanded research insight and developed critical thinking on contemporary instrumentation and analytical techniques related to environmental sciences;
4. Acquired exposure and articulation to disseminate the information about environmental concerns, issues, their impacts and mitigation plans
5. Acquired the sense of responsibility to safeguard the environment and application of knowledge for effective decision-making with regard to environmental problems
6. Knowledge about different facets of local, regional and global environmentalproblems.
7. Acquired environmental monitoring and data analysis skills with exposure to the environmental pollution control know-hows
8. knowledge and skills desirable for the environmental management with abilities and aptitudes in the preparation, planning and implementation ofenvironmental projects

The students after completing M.Sc. (Environmental Sciences) will have the job opportunity in the field of teaching, research projects, industries /municipal bodies, pollution control boards, environmental monitoring projects, consultations, NGOs, and numerous fields linked with the field of environment.

Program Specific Outcomes (PSO)

The course will help in understanding the:

1. Basic concepts of environment and its elements and their interface through study of ecology, biodiversity, green chemistry, disaster management etc.
2. Different kinds of pollutions and their sources including the hazardous waste & Eco-toxicology and different laws about pollution
3. Tools for the management of environment, remote sensing, energy resources, biodiversity conservation, environmental analytical techniques, like water and wastewater treatment, solid wastes, biostatistics etc.

COURSE OUTCOMES

SEMESTER I

MES–101 Environmental Geology and Atmospheric Science

- Ability to demonstrate comprehensive understanding of environment and environmental geo-science
- Ability to establish comprehensive understanding of Geomorphological processes
- Ability to recognize and describe environmental geochemistry, atmosphere, weather and climate
- Ability to exhibit complete understanding of geo-physical phenomena

MES–102 Environmental Biology

- Ability to recognize the concept and scope of ecology
- Ability to establish comprehensive understanding of origin and evolution of biological diversity
- Ability to demonstrate comprehensive understanding of ecosystem concepts its types and dynamics
- Ability to identify the latest advances in the field of ecology

MES–103 Waste Management

- Ability to appreciate the concept and scope of waste management
- Ability to comprehend the concept of handling the waste
- Understand the latest applications of technology in waste management
- Ability to understand the role of the regulations in waste management

MES–104 Current Environmental Issues and their Management

- Ability to recognize the concept of global warming, greenhouse effect and ozone problems
- Ability to demonstrate sound understanding of the concept of acid rain, atmosphere turbidity and nuclear
- Ability to Summarize the relevant environmental policies, regulations, environmental treaties and conventions
- Ability to identify the latest advances in contemporary environmental issues and their management

SEMESTER II

MES–201 Environmental Pollution

- Ability to demonstrate sound understanding of definition of pollution, sources of pollution, different types of pollution
- Ability to address the global and regional scenario of pollution
- Ability to integrate and use knowledge of air pollution, water pollution, noiseand land pollution, thermal and radiation pollution
- Ability to identify the latest advances in the field of pollution research

MES–202 Natural Resources: Conservation and Management

- Ability to demonstrate comprehensive understanding of natural resources, natural resources, characteristics and classification
- Ability to recognize and describe water, soil, minerals and energy resources
- Ability to identify the latest advances in Natural Resource Management
- Ability to realize the usefulness of natural resources-conservation strategies and management

MES–203 Ecotoxicology and Radiation Impacts

- Ability to demonstrate understanding of the concept and historical backgroundof ecotoxicology
- Ability to apply the basic concepts of toxicology, types of toxicity, acute and chronic toxicity
- Ability to identify the latest advances in ecotoxicology research
- Building the foundation for understanding the mode of action and effects of toxicants, occupational health, radiation impacts and effects of radiations

MES–204 Environment Impact Assessment and Environmental Audit

- Develop capability to understand the concept of Environment ImpactAssessment
- Obtain basic capability in skills and functional knowledge to carry out EIA
- Ability to recognize the latest advances in EIA and evaluate the process linked with Environmental Audit
- Develop capability in prediction and assessment of impacts, public participation, environmental management and ISO certification

SEMESTER III

MES–301 Remote Sensing and GIS

- Ability to demonstrate sound understanding of Remote Sensing
- Ability to deal with microwave sensing, aerial photographs and satellite imageries, digital image processing
- Develop capability to handle remote sensing and GIS tools in environmental management
- Understand the applications of GIS in Environmental Sciences

MES–302 Environmental Chemistry and Green Technology

- Ability to appreciate the concept and scope of environmental chemistry
- Ability to demonstrate sound understanding of the fundamentals ofEnvironmental Chemistry
- Understand the recent advances in the field of environmental chemistry and green technology
- Ability to critically examine the issues environment and global warming,principles and applications of Green Technology

MES–303 Techniques in Environmental Monitoring and Analysis

- Ability to demonstrate sound understanding of analytical techniques applied in environmental analyses
- Ability to design of monitoring and sampling methods using analyticalinstruments
- Ability to deal with advanced microscopy and chromatographs, radiation detectors and monitors
- Ability to use the high-tech tools in monitoring and analysis of environmental problems

MES–304 Environment Economics (Elective Paper)

- Comprehend the fundamental concepts of economy and the environment
- Recognize the utility of environmental policy
- Ability to demonstrate understanding and appreciate the concept of greeneconomy
- Understand the emerging concepts in the area of environment economics

MES–304 Environmental Disasters: Mitigation and Management (Elective Paper)

- Ability to demonstrate sound understanding on disasters, their types and nature
- Ability to examine the details of earthquake and seismic hazards, volcanic eruptions, landslides, snow avalanches, floods, cyclones, tsunami, droughts, heat and cold waves;
- Learn the mitigation approaches, concept of disaster management and preparedness

- Understand the latest advancements in the field of disaster management

MES–304 Climate Change and Clean technology (Elective Paper)

- Ability to demonstrate systematic understanding of science of climate change, greenhouse gases
- Ability to realize the emerging trends in climate change and clean technology
- Ability to understand the impacts of climate change
- Ability to appreciate clean technology

MES–304 Biodiversity and Wildlife (Elective Paper)

- Ability to appreciate the basic concepts, importance and biodiversity conservational needs
- Ability to understand environmental degradation and wildlife
- Ability to comprehend on the status and distribution of wildlife in India
- Ability to identify the issues related to the conservation of biodiversity and ecology

SEMESTER IV

MES–401 Environmental Law, Governance, Ethics and Policy

- Ability to demonstrate understanding of environmental laws
- Ability to apply critical mind in policy and approach aimed at environmental protection, judicial activism and environmental protection
- Ability to comprehend the pollution abatement laws, natural resource conservation laws and recent trends in International Law
- Ability to understand the role of the regulations in the good environmental governance

MES–402 Research Methodology, Statistics and Computer Applications

- Ability to demonstrate sound understanding of research and scientific writing
- Ability to appreciate basic concepts of statistics, probability distribution and statistical tests
- Understand the application of statistical tools in environmental research
- Ability to understand the computer application and environment system analysis

MES–403 Environmental Health (Elective Paper)

- Understand the general knowledge of environmental factors affecting health, environmental health problems and its causes
- Understand the processes and mechanisms of environmental health hazards (Biological, chemical, physical, mechanical and psychological hazards)
- Develop critical thinking in the matter of health problems viz. water-borne diseases, vector-borne diseases, diseases caused by chemical and physical agents
- Ability to understand the emerging areas of research in the field of occupational research

MES–403 Principles of Climatology (Elective Paper)

- Ability to appreciate the definition, sub-divisions and scope of climatology
- Ability to demonstrate understanding of pressure, wind system, climate of the World
- Ability to analyze the process and impacts of climate change
- Ability to identify the recent trends in climatology research

MES–403 Environmental Biotechnology

- Ability to demonstrate understanding of Environmental biotechnology
- Understand the latest advances in environmental biotechnology
- Understand the role of biotechnology in management of environment
- Understand the applications of Biotechnological tools in monitoring the environment

MES–403 Nanotechnology

- Ability to demonstrate understanding of nanotechnology
- Understand the concept of nanotechnology and its applications
- Understand the role of nanotechnology in environmental monitoring
- Understand the applications of nano-devices in environmental conservation

MES–403 Dissertation

- The students will be equally distributed among the faculty members for supervision of the dissertation. The criteria for distribution of students will not take into account the elective paper; rather the students will be divided equally among the faculty members. The students will be given the topic for the field study/ experimental study to be completed and submitted by the end of forth semester as dissertation. Ability to identify the gap based to a survey of the relevantliterature
- Skill to undertake field study in a systematic way
- Ability to understand the problems and limitations of carrying out research in the field.
- Capacity to work independently on a scientific question and arrive at a conclusion

Mapping of Course with Program Outcomes (POs)

Programme Outcomes	PO1	PO2	PO3	PO4	PO5
MES–101 Environmental Geology andAtmospheric Science					
MES–102 Environmental Biology					
MES–103 Waste Management					
MES–104 Current EnvironmentalIssues and their Management					
MES–201 Environmental Pollution					
MES–202 Natural Resources: Conservation and Management					
MES–203 Ecotoxicology andRadiation Impacts					
MES–204 Environment ImpactAssessment and Environmental Audit					
MES–301 Remote Sensing and GIS					
MES–302 Environmental Chemistryand Green Technology					
MES–303 Techniques in Environmental Monitoring and Analysis					
MES–304 Environment Economics (Elective Paper)					
MES–304 Environmental Disasters:Mitigation and Management (Elective Paper)					
MES–304 Climate Change and Clean Technology (Elective Paper)					
MES–304 Biodiversity and Wildlife Ecology (Elective Paper)					
MES–401 Environmental Law, Governance, Ethics and Policy					
MES–402 Research Methodology, Statistics and Computer Applications					
MES–403 Environmental Health (Elective Paper)					
MES–403 Principles of Climatology (Elective Paper)					
MES–403 Environmental Biotechnology (Elective Paper)					
MES–403 Nanotechnology (Elective Paper)					
MES–404 Dissertation					

Employability /entrepreneurship/skill development of courses taught in M.Sc. Environmental Sciences

TITLE OF COURSE	Marks		
	Employability	Entrepreneurship	Skill Development
Environmental Geology and Atmospheric Science	X	✓	✓
Environmental Biology	X	X	X
Waste Management	✓	✓	✓
Current Environmental Issues and their Management	✓	X	X
Environmental Pollution	✓	✓	✓
Natural Resources: Conservation and Management	X	X	X
Ecotoxicology and Radiation Impacts	X	X	X
Environment Impact Assessment and Environmental Audit	✓	✓	✓
Remote Sensing and GIS	✓	✓	✓
Environmental Chemistry and Green Technology	X	X	✓
Techniques in Environmental Monitoring and Analysis	X	X	✓
Environnent Economics (Elective Paper)	✓	X	✓
Environmental Disasters: Mitigation and Management (Elective Paper)	✓	✓	✓
Climate Change and Clean Technology (Elective Paper)	✓	X	✓
Biodiversity and Wildlife Ecology (Elective Paper)	✓	X	✓
Environmental Law, Governance, Ethics And Policy	✓	✓	✓
Research Methodology, Statistics and Computer Applications	X	X	✓
Environnemental Health (Elective Paper)	X	X	✓
Principles of Climatology (Elective Paper)	✓	X	✓
Environmental Biotechnology (Elective Paper)	✓	✓	✓
Nanotechnology (Elective Paper)	✓	✓	✓
Dissertation	✓	✓	✓

RULES AND REGULATIONS

Introduction: The M.Sc. (Environmental Sciences) programme is relevant to young students/ professionals who are looking to develop their analytical and research skills regarding important issues in environment. The course has been designed to meet the demand of growing needs of professionals in the fields of environment management, environment laws, environment governance and policy, impact assessment, natural resource management, pollution control, etc.

Nomenclature of the Course: The course is termed as **M. Sc. (Environmental Sciences)**

Time Frame: This course is of two years duration and is being run on semester basis. The course comprises Four Semesters. There are four theory papers and four practical / field study in first three semesters and three courses and dissertation in the fourth semester besides, class seminars, field visit, project reports and viva-voce etc. Teaching of this course was started from July, 2013.

Criteria for Admission and Age Limit: Normal entry requirement is a Bachelor Degree under 10+2+3 pattern of education in Sciences (Medical and Non-Medical), MBBS/B.V. Sc. or its equivalent from any Institute/University recognized by the HPU, Shimla / UGC, New Delhi with at least 50 percent (45 percent in case of SC/ST) marks in aggregate will be eligible for admission to this course. The Maximum age limit for the course is 26 years for boys and 28 years for the girl students on 1st July of the year concerned. In case of schedule caste/tribe the upper age limit will be raised by three years (for boys and girls) provided that, the Vice-Chancellor, HPU/ President IIHS shall have the power to permit the age relaxation for the reason to be recorded in writing up to a maximum of Six months.

However, the reservation of seats and the age limit for non-subsidized seats will be followed as applicable in other departments/institute like MBA, MTA etc. of the university.

The admission to this course is on the basis of the entrance examination. This exam basically tests the scientific attitude of the students. A brief description and knowledge based on the environment is tested to find out whether the candidate is really interested in the subject. The entrance test consists of 100 multiple-choice questions.

Career Opportunities

- Industry (Environmental Impact Assessment, Sustainable Resource Management, Waste Management, Environmental Biotechnology, Eco-technology)
- Government and Business Sector (Environmental Manager, Environmental Planner, Environment Consultant, Analysts)
- Universities, Colleges and Research Institutes (Teaching and Research)
- Non-governmental Organizations at National and International Levels

Tentative Modalities and Requirements for the Course:

Eligibility for enrolment:	Bachelor Degree under 10+2+3 pattern of education in Sciences (Medical and Non-Medical), MBBS/B.V. Sc. or its equivalent.
Duration of Programme:	Two years
Medium of Instruction:	English
Programme Structure:	Total number of courses will be 27; there are four theory papers and four practical / field studies in first three semesters and three courses and dissertation in the fourth semester besides, class seminars, field visit, project reports and viva-voce etc.
Mode of instruction:	Semester System
Expected annual enrolment:	30+ One Supernumerary seat for Single Girl Child

Exposure Visit/ Field Visit/field study: Field study is carried out in each semester in the areas having environmental significance (Zoological park/botanical Park/ Hydropower project site/ industrial visit for studying the Effluent water treatment plant/ natural hazards site/ Solid waste water treatment plant/ Pollution Control Board, etc.) as decided by the department. The students are required to submit a report after the field visit. The students will also be taken for exposure visit to the sites of environmental importance.

Dissertation After the completion of third semester the students opt for special paper in the fourth semester. The students are equally distributed among the faculty members for supervision of the dissertation. The students are be given the topic for the field study/ experimental study to be completed and submitted by the end of forth semester as dissertation.

INTERNAL ASSESSMENT MARKS

Internal assessment for theory papers is assessed through the by the faculty on the basis of the class tests, seminars, and attendance of the student. Each student is given topic to make a power-point presentation during the class seminar, which is conducted every Saturday. In addition to this, there are class test of each subject which is mandatory for all the students.

COURSE OUTLINE

FIRST SEMESTER

Course Code	Title of Course	Type	Allocation of time and credits		Marks		
			Instruction Hours per Week	No. of Credits	Theory	Internal Assessment	Total
MES–101	Environmental Geology and Atmospheric Science	CPT	4	4	60	20	80
MES–102	Environmental Biology	CPT	4	4	60	20	80
MES–103	Waste Management	CPT	4	4	60	20	80
MES–104	Current Environmental Issues and their Management	CPT	4	4	60	20	80
MES–105	Practical I based on MES 101	CPP	4	2	20	-	20
MES–106	Practical II based on MES 102	CPP	4	2	20	-	20
MES–107	Practical III based on MES 103	CPP	4	2	20	-	20
MES-108	Field Study based on MES 104	-	4	2	20	-	20
	Total	-	**32**	**24**	**320**	**80**	**400**

Note: MES 101 to MES 104 will be of 100 marks (Theory-60, Internal Assessment-20 marksand MES–106-MES-110 Practical/ field study-20 marks)

CPT: Core Paper Theory; CPP: Core Paper Practical

SECOND SEMESTER

Course Code	Title of Course	Type	Allocation of time and credits		Marks		
			Instruction Hours per Week	No. of Credits	Theory	Internal Assessment	Total
MES–201	Environmental Pollution	CPT	4	4	60	20	80
MES–202	Natural Resources: Conservation and Management	CPT	4	4	60	20	80
MES–203	Ecotoxicology and Radiation Impacts	CPT	4	4	60	20	80
MES–204	Environment Impact Assessment and Environmental Audit	CPT	4	4	60	20	80
MES–205	Practical I based on MES 201	CPP	4	2	20	-	20
MES–206	Practical II based on MES 202	CPP	4	2	20	-	20
MES–207	Practical III based on MES 203	CPP	4	2	20	-	20
MES-208	Field Study based on MES 204	-	4	2	20	-	20
	Total	-	**32**	**24**	**320**	**80**	**400**

Note: MES 201 to MES 204 will be of 100 marks (Theory-60, Internal Assessment-20 marks and MES–206-MES-210 Practical/ field study-20 marks)

CPT: Core Paper Theory; CPP: Core Paper Practical

*Field visit/ exposure visit including extended educational tours/ excursion visit as Industrial exposure/ Industrial visit are mandatory in each semester as per the requirement of thecourse curriculum.

THIRD SEMESTER

Course Code	Title of Course	Type	Allocation of time and credits		Marks		
			Instruction Hours per Week	No. of Credits	Theory	Internal Assessment	Total
MES–301	Remote Sensing and GIS	CPT	4	4	60	20	80
MES–302	Environmental Chemistry and GreenTechnology	CPT	4	4	60	20	80
MES–303	Techniques in Environmental Monitoringand Analysis	CPT	4	4	60	20	80
MES–304	Environmental Economics	OEPT	4	4	60	20	80
	Environmental Disasters: Mitigation and Management						
	Climate Change and Clean Technology						
	Biodiversity and Wildlife Ecology						
MES–305	Practical I based on MES 301	CPP	4	2	20	-	20
MES–306	Practical II based on MES 302	CPP	4	2	20	-	20
MES–307	Practical III based on MES 303	CPP	4	2	20	-	20
MES-308	Practical/ field study based on MES-304	OEPP	4	2	20	-	20
	Practical/ field study based on MES-304						
	Practical/ field study based on MES-304						
	Total	-	**32**	**24**	**320**	**80**	**400**

Note: MES 301 to MES 304 will be of 100 marks (Theory-60, Internal Assessment-20 marks and MES–306-MES-310 Practical/ field study-20 marks)

CPT: Core Paper Theory; CPP: Core Paper Practical; OEPT: Open Elective Paper Theory; OEPP: Open Elective Paper Practical

FOURTH SEMESTER

Course Code	Title of Course	Type	Allocation of time and credits		Marks		
			Instruction Hours per Week	No. of Credits	Theory	Internal Assessment	Total
MES–401	Environmental Law, Governance, EthicsAnd Policy	CPT	4	4	80	20	100
MES–402	Research Methodology, Statistics and Computer Applications	CPT	4	4	60	20	80
MES–403	Environnemental Health	OEPT	4	4	60	20	80
	Principles of Climatology						
	Environmental Biotechnology						
	Nanotechnology						
MES–404	Practical III based on MES 402	CPP	4	2	20	-	20
MES–405	Practical/ field study based on MES-304	OEPP	4	2	20	-	20
	Practical/ field study based on MES-304						
	Practical/ field study based on MES-304						
MES–406	Dissertation	-	4	4	100	-	100
	Total	-	**20**	**20**	**340**	**60**	**400**

Note: MES 401 and MES 403 will be of 100 marks (Theory-60, Internal Assessment-20 marks and MES–405 will be dissertation of 100 marks

CPT: Core Paper Theory; CPP: Core Paper Practical; OEPT: Open Elective Paper Theory; OEPP: Open Elective Paper Practical

GRAND TOTAL (First to fourth semester)	**1600**

SEMESTER – I

Course Code	Title of Course	Type	Allocation of time and credits		Marks		
			Instruction Hours per Week	No. of Credits	Theory	Internal Assessment	Total
MES–101	Environmental Geology and Atmospheric Science	CPT	4	4	60	20	80
MES–102	Environmental Biology	CPT	4	4	60	20	80
MES–103	Waste Management	CPT	4	4	60	20	80
MES–104	Current Environmental Issues and their Management	CPT	4	4	60	20	80
MES–105	Practical I based on MES 101	CPP	4	2	20	-	20
MES–106	Practical II based on MES 102	CPP	4	2	20	-	20
MES–107	Practical III based on MES 103	CPP	4	2	20	-	20
MES-108	Field Study based on MES 104	-	4	2	20	-	20
	Total	-	**32**	**24**	**320**	**80**	**400**
Note: MES 101 to MES 104 will be of 100 marks (Theory-60, Internal Assessment-20 marksand MES–106-MES-110 Practical/ field study-20 marks)							
CPT: Core Paper Theory; CPP: Core Paper Practical							

MES-101: ENVIRONMENTAL GEOLOGY AND ATMOSPHERIC SCIENCE

MODULE-1 ENVIRONMENT and ENVIRONMENTAL GEO-SCIENCE

1.1 Definition, evolution, characteristics principles and history of Environment and environmental Sciences.

1.2 Fundamental concepts, Primary differentiation and formation of core, mantle, crust, magma generation, dynamics of earth, Plate tectonics – sea floor spreading,mountain formation, Continental drift theory, Earth's Magnetic field, types of seismic waves and their role in the study of earth's interior.

MODULE-2 GEOMORPHOLOGICAL PROCESSES

2.1 Formations and classification of rocks rock cycle, Fold, and Fault, Major types offold and faults,

2.2 Weathering and their types, Mass wasting and its types Volcanism , types,volcanic materials , process and effects of volcanism

2.3 Soil profile, soil classification, soils of India.

MODULE-3 ENVIRONMENTAL GEOCHEMISTRY

3.1 Concept of major, minor and trace elements. Mobility of elements, geochemical cycles.

3.2 Geo-indicators. Resources and reserves, Mineral resources and reserves.

3.3 Oceans as new areas for exploration of mineral resources. Mineral resources of Himachal Pradesh

MODULE-4 ATMOSPHERE

4.1 Different layers and their characteristics; meteorological aspects- inversions, mixing height, wind-rose, electromagnetic radiations, solar radiation and terrestrial radiation

4.2 Heat budget, Temperature measurements and controls, Environmental lapse rate, humidity, mixing ratio, dry and wet adiabatic lapse rate, clouds-types and their characteristics and atmospheric stability.

4.3 Atmospheric transport, diffusion and dispersion.

MODULE-5 WEATHER AND CLIMATE

5.1 Elements of Weather and Climate, classification, energy balance in atmosphere, greenhouse effect, Atmospheric general circulation,

5.2 Precipitation and types of storms, Indian monsoon, El Nino , La Nina effect, and western disturbances, Geostrophic wind and gradient wind, cyclones

5.3 Atmospheric moisture: Forms of cloud condensation; Precipitation, Thunderstorms, floods and droughts.

5.4 Global Climate variability and climate change. Introduction to Weatherforecasting models.

SUGGESTED READINGS

1. Bennett, M. R. and Doyle, P. Environmental geology: - Geology and the Human Environment. John Wiley and Sons.1997.
2. Botkin, Daniel B. and Keller, Edward A. Environmental Science: Earth as a Living Planet.6th ed. John Wiley and Sons, USA. 2007.

3. Bouwer, H. Groundwater Hydrology. McGraw-Hill, New York. 1978.
4. Butz, S. D. Science of Earth Systems. 2nd ed. Thomson Delmar Learning, USA 2004.
5. Eby, N. Principles of Environmental Geochemistry. Brooks Cole, USA. 2003.
6. Joseph, G. Fundamentals of Remote Sensing. Universities Press (India) Pvt. Ltd. 2007.
7. Keller, E.A. Environmental Geology. 8th ed. Prentice Hall of India 1999.
8. Keller, E.A. Introduction to Environmental Geology. 4th ed. Prentice Hall of India 2007.
9. Kemp, M. J. Environmental Science. The McGraw-Hill Companies. 1997.
10. Raven, Peter H., Berg, Linda R. and Hassenzahl, David, M. Environment. 6th ed. JohnWiley and Sons., USA. 2008.
11. Schwartz, F.W. and H. Zhang. Fundamentals of Ground Water. John Wiley and Sons, USA.2003.

NOTE FOR PAPER SETTER: The question paper will contain TWO QUESTIONS from each unit (Total TEN questions in all) and the candidate will be required to answer ONE QUESTION from each unit (total questions to be attempted will be FIVE) i.e. there will be internal choice within each unit.

MES-102: ENVIRONMENTAL BIOLOGY

MODULE-1 CONCEPT AND SCOPE OF ECOLOGY

1.1 Definition and scope of ecology, branches of ecology

1.2 Human ecology and human settlement

1.3 Historical background of ecology, relevance of ecology to humankind, level of organization in ecology

1.4 Relationship of ecology with other branches of science

MODULE-2 ORIGIN AND EVOLUTION OF BIOLOGICAL DIVERSITY

2.1 General classification of biological diversity (plants and animals)

2.2 Growth and morphogenesis in plants and animals

2.3 Basics of photosynthesis, transpiration, biological nitrogen fixation, Physiological, biochemical and genetic mechanisms associated with adaptations of plants and animals.

MODULE-3 ECOSYSTEM CONCEPTS AND DYNAMICS

3.1 Principle and concept of ecosystem, types of ecosystems

3.2 Biotic and abiotic components of ecosystem, biomes, ecotones and edge effect, ecological niche and equivalents, ecotype, ecophene and ecological indicator

3.3 Biogeochemical cycling Carbon, Nitrogen, Phosphorus and Sulphur and Hydrological cycles and microbial ecology, C3 and C4 pathways and their significance

3.4 Ecological pyramids of number, biomass and energy, food chain, food web and trophic levels, ecological amplitude and ecological niches, ecological energetics, Decomposition, Ecosystem stability, Ecological Succession.

3.5 Primary and secondary productivity of different ecosystems in the world methods of measurements of productivity and the factors affecting productivity

MODULE-4 POPULATION AND COMMUNITY DYNAMICS

4.1 Characteristics of Population, concept of carrying capacity, Population growth and regulation, Population fluctuation, dispersion and meta- population. Concept of r and k species, key stone species.

4.2 Definition of community, its characteristics, diversity, dominance, structure, stratification, periodicity, fluctuation within community, Interdependence within community

MODULE-5 STUDY OF DIFFERENT ECOSYSTEMS

5.1 Forest ecosystem- Forest as an ecosystem, distribution of forests, types of forests, economics and ecology of forest, role of forests in protection of species regulation of climate and production of various produce

5.2 Grassland ecosystem - Distribution and types of grasslands, rangelands and biodiversity in grassland, and productivity in grasslands

5.3 Desert Ecosystem and Wastelands-Desert as ecosystems, hot and cold deserts, productivity, characteristics and global distribution of deserts; Desertification process; Types and distribution of wastelands in India

5.4 Aquatic Ecosystem: Lentic and lotic ecosystem, structure, energy flow and productivity in estuaries, marine ecosystem, structure biodiversity and productivity in, marine ecosystem

5.5 Wetland Ecosystem: Distribution, energetics and productivity in wetlands. Biodiversity and economic importance of wetlands

SUGGESTED READINGS

1. Agrawal, K. C. Environmental Biology, Nidhi Pub, New Delhi. 2008.
2. Benton, A.H. and Werner, W.E. Field Biology and Ecology, Tata Mc. Graw Hill Publishing Company Ltd. New Delhi.1976.
3. Chapman, J. L. and Reiss, M. J. Ecology- Principles and applications, Cambridge University Press, New York. 1995.
4. Claude F., Ferra, C., Medori, P. andDevaux, J. Ecology. Sciences and Practice, Oxford and IBH Pub. Co. Pvt. Ltd. New Delhi. 2001
5. Dash, M. C. Fundamentals of Ecology. Tata Mc.Graw Hill Publishing Company Ltd.New Delhi. 1993.
6. Grover, I. S. and Thukval, A. K. Environmental Development, Scientific Publishers,New Delhi. 1998.
7. Kormondy, E. J. Concept of Ecology. Prentice Hall of India, New Delhi. 1986
8. Odum, E. P. Fundamentals of Ecology. Natraj Publishers, Dehradun. 1996
9. Prasad, S. N. Environmental Biology, Campus Book International. 2009.
10. Sharma, P. D. Ecology and Environment Environmental, Rastogi Publication, NewDelhi. 2009.
11. Sharma, R. D. Himalayan Eco-System Development, Concept Publishing Company,New Delhi. 1994.

NOTE FOR PAPER SETTER: The question paper will contain TWO QUESTIONS from each unit (Total TEN questions in all) and the candidate will be required to answer ONE QUESTION from each unit (total questions to be attempted will be FIVE) i.e. there will be internal choice within each unit.

MES-103: WASTE MANAGEMENT

MODULE-1 INTRODUCTION

1.1 Classification of different type of Waste; its generations and characterization. MSW – Sources and generation, chemical and physical characterization and classification

1.2 Different methods of disposal and management, land filling, incineration, composting, vermicomposting, energy and resource recovery.

Hazardous waste –Definition, sources, effects and management. Biomedical wastes – Definition, categories, and management.

MODULE-2 INDUSTRIAL WASTE TREATMENT

2.1 Principles of Industrial waste treatment - sources of pollution physical chemical, organic and biological properties.

Manufacturing processes, flow sheets, characteristics and composition of wastes including waste reduction, treatment and disposal methods for Food Industries: Sugar, Fermentation, Meat, dairy and Rice- milling; Material Industries: Paper, Steel - Metal - plating and petroleum refineries; Miscellaneous Industries: Textile, Tanning, Fertilizers and Atomic energy plants.

MODULE-3 BIOTECHNOLOGY IN WASTE MINIMIZATION

3.1 Role of Biotechnology in waste minimization; Recovery of by-products and raw material from wastewater conversion: waste recovery and reuse, reclamation by ground water recharge, agriculture reuse of effluent; sludge as fertilizer; recovery of protein, carbohydrates, biogas, biomass for energy, oil and fats, metal recovery, bioscrubbing.

MODULE-4 ENVIRONMENTAL REGULATION FOR WASTE MANAGEMENT

4.1 Hazardous waste (management and handling) rules 1989, amendments 2000 and 2003; Batteries (management and handling) rules, 2001; Biomedical waste (management and handling) rules, 1998; Municipal solid waste (management and handling) rules, 2000; Plastic waste (management and recycling) rules, 1999.

SUGGESTED READINGS

1. Crites R.W., Reed S.C. and Bastion R. Land Treatment Systems for Municipal & Industrial Wastes" McGraw Hill Companies Inc. 2000
2. Eckenfelder W.W. (Jr.) Industrial Water Pollution Control. McGraw Hill Publications. 1966
3. Lal, B. and Reddy, M.R.V.P. Wealth from waste: trends and technologies, Teri Press, New Delhi, 2005
4. Neal K. Ostler Industrial Waste Stream Generation", Prentice Hall. 1998
5. Sidwick J. M. and Holdom R. S. Biotechnology waste treatment and exploitation, Ellis horwood limited, England. 1987

NOTE FOR PAPER SETTER: The question paper will contain TWO QUESTIONS from each unit (Total EIGHT questions in all) and the candidate will be required to answer ONE QUESTION from each unit (total questions to be attempted will be FOUR) i.e. there will be internal choice within each unit.

MES-104: CURRENT ENVIRONMENTAL ISSUES AND THEIR MANAGEMENT

MODULE-1 GLOBAL WARMING, GREENHOUSE EFFECT AND OZONE PROBLEMS

1.1 Global Warming Potential, Possible Impact of Global Warming

1.2 Greenhouse Effect – Policy Response, Kyoto Protocol, EI-NINO- Climate Cycle

1.3 Ozone in the Atmosphere, Ozone Depletion Process, Ozone Hole, Worldwide, Ozone Trends, the Montreal Protocol, Consequence of Ozone Depletion

MODULE-2 ACID RAIN, ATMOSPHERE TURBIDITY AND NUCLEAR

2.1 Introduction, Nature and Development of Acid Rain, Acid Rain and Geology

2.2 Acid Rain and Aquatic Environment, Acid Rain and Terrestrial Environment, Acid Rain and Build Environment

2.3 Acid Rain and Human Health, Mitigation of Acid Rain Problems, Aerosol types, Production and Distribution

MODULE-3 OTHER ENVIRONMENTAL ISSUES

3.1 Introduction, Consequences of global CO_2 changes; Strategies for Conservation ofEnvironmental Changes Induced by CO_2 Rise

3.2 Problems of slums in urban cities, Cancer and AIDS, Descriptive and analytical markers and indicators of pollutants in the body; Water-borne, air borne, vector borne, genetic, contagious and non-contagious diseases and their management, Sanitation measures to control infectious diseases

3.3 Environmental problems in India (Narmada Dam, Tehri Dam, Almetti Dam, Soil erosion, Formation and reclamation of usar land, alkaline and saline soil; Unsustainable Agricultural Practices and Land Use Planning); recent problems like Delhi smog, crop burning

MODULE-4 ENVIRONMENTAL POLICES AND REGULATIONS

4.1 Fundamental principles of environmental protection

4.2 Constitutional perspective: Fundamental right to wholesome environment, directive principles of state policy

4.3 National Environmental Policy

4.4 Environmental regulatory framework in India

4.5 Role of international Environmental Agencies-UNEP, GEF, UNFCC and IPCC

MODULE-5 ENVIRONMENTAL TREATIES AND CONVENTIONS

5.1 Stockholm Convention (1972); Basel Convention (1989, 1992)

5.2 Earth Submit at Johannesburg (2002); Earth Summit Rio De Janeiro (1992, 2012)

5.3 Kyoto Protocol, 1997; Montreal Protocol, 1987; Ramsar Convention on Wetland, 1971; Paris Agreement (2015)

5.4 Rotterdam Convention on Prior informed consent procedure for certain hazardous chemicals and pesticides in International schedule

5.5 Agenda 21, sustainable development goals, India's role in various conventions and contributions

SUGGESTED READINGS

1. Bridgeman, Howard, Global Air Pollution: Problems for the 1990's, Belhaven Press, New York. 1991.
2. Joner, J. A. A. Global Hydrology: Processes, Resources and Environment", Longman, Essenx, England. 1997.
3. Mauahan, S. E. Environmental Chemistry, Willaw Grant Press, Beston, USA. 1983.
4. Moeller, Dave W. Environmental Health, Mass: Harvard University Press, Cambridge. 1992.
5. Santra, S. C. Environmental Science, 2nd Edition, New Central Book Agency (P)Ltd, Kolkata, India. 2005.
6. Tudge, Colin, Global Ecology, Oup, New York. 1991.
7. Wilson, E.O. Biodiversity, National Academy Press, Washington, DC. 1988.

NOTE FOR PAPER SETTER: The question paper will contain TWO QUESTIONS from each unit (Total TEN questions in all) and the candidate will be required to answer ONE QUESTION from each unit (total questions to be attempted will be FIVE) i.e. there will be internal choice within each unit.

MES-105: PRACTICAL I

(MES 101 : ENVIRONMENTAL GEOLOGY AND ATMOSPHERIC SCIENCE)

1. Study and Identification of hand specimens of rock and mineral samples.
2. Sketch of earth system and different geological hazards
3. Determination of soil texture
4. Familiarization with meteorological instruments and their uses.
5. Presentation and interpretation of wind data – wind direction and speed and wind rose for 24 hours, month and season.
6. Preparation of hydro-therm charts on an area.
7. Predication of weather by using meteorological data of specific area.
8. Land slide studies in Himalayan region
9. Slop stability analysis and Landslide zoning

DISTRIBUTION OF MARKS

1.	Any two experiment based on environmental geology/ atmospheric science	15 Marks
2.	Viva-voce	5 Marks
	Total	**20 Marks**

MES-106: PRACTICAL II

(MES 102: ENVIRONMENTAL BIOLOGY)

1. Ecological sampling of an area (line transect, centre point method and quadrant method)
2. Species-area Curve, measurement of biomass and productivity
3. Population structure and regeneration status of ecosystem
4. Collection of litter, soil and plant samples
5. Nutrient and vegetation analysis
6. Calculation of species diversity, similarity index and evenness
7. Visit to aquatic ecosystem and methods for water and plankton collection
8. Study the biodiversity of water and identification of different species
9. Identification and staining of Microorganisms from different effluents.

DISTRIBUTION OF MARKS

1.	Any two experiments based on environmental biology	10 Marks
2.	Field visit report	5 Marks
3.	Viva-voce	5 Marks
	Total	**20 Marks**

MES-107: PRACTICAL III

(MES 103: WASTE MANAGEMENT)

1. Visit to the nearby locality to understand the waste generation trends, disposal mechanism and problems people encounter in the same.
2. Visit to the nearby Wastewater/ Solid Waste Treatment Plant to understand the mechanism followed for the same and make a report
3. Evaluation of water disinfection methods.
4. Case studies on novel and successful solid waste and water treatment protocols.

DISTRIBUTION OF MARKS

1.	Any two experiments/ reports based on Waste Management	10 Marks
2.	Field visit report	5 Marks
3.	Viva-voce	5 Marks
	Total	**20 Marks**

MES-108: FIELD STUDY

(MES 303: CURRENT ENVIRONMENTAL ISSUES AND THEIR MANAGEMENT)

1. Describing the: a) climate of an urban area; b) yearly variation in the meteorological data
2. Prepare a report on the environmental problem in the nearby area and suggest remedial measures

DISTRIBUTION OF MARKS

1.	Field visit reports	15 Marks
2.	Viva-voce	5 Marks
	Total	**20 Marks**

SEMESTER – II

Course Code	Title of Course	Type	Allocation of time and credits		Marks		
			Instruction Hours per Week	No. of Credits	Theory	Internal Assessment	Total
MES–201	Environmental Pollution	CPT	4	4	60	20	80
MES–202	Natural Resources: Conservation and Management	CPT	4	4	60	20	80
MES–203	Ecotoxicology and Radiation Impacts	CPT	4	4	60	20	80
MES–204	Environment Impact Assessment and Environmental Audit	CPT	4	4	60	20	80
MES–205	Practical I based on MES 201	CPP	4	2	20	-	20
MES–206	Practical II based on MES 202	CPP	4	2	20	-	20
MES–207	Practical III based on MES 203	CPP	4	2	20	-	20
MES-208	Field Study based on MES 204	-	4	2	20	-	20
	Total	-	**32**	**24**	**320**	**80**	**400**
Note: MES 201 to MES 204 will be of 100 marks (Theory-60, Internal Assessment-20 marks and MES–206-MES-210 Practical/ field study-20 marks)							
CPT: Core Paper Theory; CPP: Core Paper Practical							
*Field visit/ exposure visit including extended educational tours/ excursion visit as Industrial exposure/ Industrial visit are mandatory in each semester as per the requirement of thecourse curriculum.							

MES-201: ENVIRONMENTAL POLLUTION

MODULE-1 INTRODUCTION

1.1 Definition and sources of pollution

1.2 Different types of pollution

1.3 Global and regional scenario of pollution

MODULE-2 AIR POLLUTION

2.1 Types and sources of air pollutants.

2.2 Reaction of pollutants in atmosphere; atmospheric diffusion and stack performance, air quality standards

2.3 Introduction of basic instruments for sampling and analysis of air pollutants

2.4 Effects of air pollutants on flora and fauna, Biological indicators of air pollution, Bio-monitoring of air pollutions

MODULE-3 WATER POLLUTION

3.1 Sources and kinds of water pollution, water quality standards

3.2 Effects of water pollutants on plants (phytoplankton and macrophytes); Effectsof water pollutants animals (zooplankton, macro-benthic invertebrates and fish)

3.3. Eutrophication and its impacts on organisms and communities.

3.4 Impact of heavy metals, halogens, radio-nuclides on aquatic flora and fauna.

MODULE-4 NOISE AND LAND POLLUTION

4.1 Physiological, social and psychological effects of noise

4.2 Methods of noise abatement; shock waves and SST; Noise control in vehicles

4.3. Industrial noise control and effects

4.4 National and International standards

4.5 Soil pollution, Sources and management of municipal solid waste, Biomedical waste, Hazardous waste and Industrial waste

MODULE-5 THERMAL and RADIATION POLLUTION

5.1 Thermal pollution: Concept of thermal pollution, sources of thermal pollution, thermal power plant pollution, thermal effects on aquatic life, impacts on water quality, prevention of thermal pollution.

5.2 Radiation pollution: Causes, effects (health hazards) and control measure of radiation pollution.

5.3 Applications of ionizing isotopes in waste water and air pollution analysis and treatment

SUGGESTED READINGS

1. Bretsehnedder, B. and Kurfurst, J. Air Pollution, Elsevier Scientific Pub. Co. Amsterdam, Oxford, New York. 1987.
2. Bridgman, H. Global Air Pollution, CBS Pub. New Delhi. 1992.
3. Bush, M. B. Ecology of a changing planet, Prentice Hall, USA. 1997.
4. Dassber, H. S. and Bortitz, S. Air pollution and its influence on vegetation, Dr. W. Junk Pub. Dordrencht-Bostan Lancaster. 1988.

5. Davis, M.L. and Cornwell, D. A. Introduction to Environmental Engg, McGraw Hill International Edition. 1991.
6. Dhaliwal, G. S., Sawgha, G. S. and Ralhan, P. K. Fundamentals of EnvironmentalScience, Kalyani Pub., Ludhiana. 1996.
7. Edward, C. A. Environmental Pollution by Pestacades, Plenum Press, London and New York. 1976.
8. Naji, G. K., Dhillon, M. K., Dhaliwal, G. S. Noise Pollution, Commonwealth Pub., New Delhi. 1999.
9. Odum, E. P. Fundamentals of Ecology, Natraj Pub. Dehradun. 1996.
10. Patrick, R. Dugan The Water pollution problems (Part-I), Plenium Publishingcorporation New York. 1972.
11. Prasad, O. and Choudhary, M. C. Environmental Pollution Radiation, Venus Publishing House, New Delhi. 1992.
12. Rana, S. V. S. Essentials of Ecology and Environmental Sciences, Prentice Hall ofIndia, New Delhi. 2003.
13. Rao, M. N. and Rao, H. U. Air Pollution, Tata McGraw Hill Pub. Company, New Delhi. 1998.
14. Tripathi, A. K. Air pollution, Vol. I. Ashish Publishing House, New Delhi. 1992.

NOTE FOR PAPER SETTER: The question paper will contain TWO QUESTIONS from each unit (Total TEN questions in all) and the candidate will be required to answer ONE QUESTION from each unit (total questions to be attempted will be FIVE) i.e. there will be internal choice within each unit.

MES-202: NATURAL RESOURCES: CONSERVATION AND MANAGEMENT

MODULE-1 NATURAL RESOURCES - FLORA

1.1 Natural resources: introduction, characteristics and classification

1.2 Concept of endemic, extinct and threatened species (endangered, rare, vulnerable and indeterminate species)

1.3 Plants as a natural resource: a general account with reference to timber, food and medicines

1.4 Degradation of plant resources: Causes and Consequences

MODULE-2 NATURAL RESOURCES - WATER AND ANIMALS

2.1 Wild life as natural resources: A general account with special reference to game wildlife and food, wildlife of India

2.2 Depletion of wildlife: causes and consequences

2.3 Fisheries: Status and conservation with special reference to India and Himachal Pradesh

MODULE-3 NATURAL RESOURCES - SOIL AND MINERALS

3.1 Soil as a natural resource, a general account with reference to nutrients and soil biota

3.2 Role of agricultural practices, wind and water erosion in soil degradation

3.3. Origin, distribution and uses of economically important minerals; exploitation of mineral resources from oceans with special reference to India

3.4 Impact of exploitation of minerals on environment, methods of conserving the mineral resources

MODULE-4 NATURAL RESOURCES - ENERGY

4.1 Energy, demand and supply scenario in India, energy conservation measures

4.2 Coal, oil and natural gas (physico-chemical characteristics and energy content of coal, petroleum and natural gas)

4.3. Principles of generation of Hydro energy, wind energy, tidal energy, solar energy, nuclear energy, Biogas, firewood, petero-plants, dendro-thermal energy and their application; impacts of large scale exploitation of different forms of energy

MODULE-5 NATURAL RESOURCES-CONSERVATION STRATEGIES and MANAGEMENT

5.1 In-situ conservation of plants and animal species: Natural Parks, Biosphere reserves and sanctuaries

5.2 Ex-situ conservation: Botanical gardens, Zoological parks, tissue culture techniques, cryo-preservation of pollen, seeds and sperms

5.3 Conservation of forests, social forestry and agro-forestry, carbon sequestration

5.4 Conservation of soil and management of grasslands and wetlands

SUGGESTED READINGS

1. Bandhu, D. Environment Education for conservation and Development, Indian Environment, Society New Delhi. 1987.

2. Chaturvedi, A. N. Management of India's forest resources. Khanna Bandhu, Dehradun.1994
3. Dar, G. H., Bhagat, R. C. and Khan, M. A. Biodiversity of the Kashmir Himalaya, Anmol Publication, Pvt. Ltd. New Delhi. 2002.
4. Dasmann, R. F. Wildlife Biology, 2nd edition, John Wiley and Sons, New York. 1981.
5. Gautam, A. and Rastogi, S. Resource Geography, International Publishing House, Meerut. 2003.
6. Gupta, K. C. Energy and Environment in India - A study of Energy Management, Gyan Publishing House, New Delhi.2002.
7. Heywood, V. H. Global Biodiversity Assessment, Cambridge University Press, UK. 1995.
8. Jadhav, H. V. Energy and Environment, Himalaya Publishing House. Delhi. 1997.
9. Jairajpuri, M. S. Animal Resources of India - Protozoa to mammalia - State of the Art, Zoological survey of India. XI-XXVII. 1991.
10. Kathiresan, S. B. Essentials of forest management, Natraj Publishers, Dehradun.1986.
11. Kumar, H.D. Modern concepts of Ecology, Vikas Pub. House, Pvt. Ltd. New Delhi. 1995.
12. Owen, O. S. and Chiras, D.D. Natural Resources Conservation. Prentice Hall India. 1995.
13. Rana, S. V. S. Essentials of ecology and Environmental sciences, Prentice Hall ofIndia. 2003.
14. Singh, M. P. Natural Resources and renewable Energy, Daya Publishing House, Delhi. 2004.
15. Tiwari, P.C. Natural Resources and sustainable development in Himalaya, Shree Almora Book Depot., India. 1995.

NOTE FOR PAPER SETTER: The question paper will contain TWO QUESTIONS from each unit (Total TEN questions in all) and the candidate will be required to answer ONE QUESTION from each unit (total questions to be attempted will be FIVE) i.e. there will be internal choice within each unit.

MES-203: ECOTOXICOLOGY AND RADIATION IMPACTS

MODULE-1 CONCEPT AND HISTORICAL BACKGROUND

1.1 Origin and scope of toxicology, relationship with other sciences

1.2 Development of environmental toxicology (Historical and evolutionary Perspective)

1.3 Classification of toxicants, natural and synthetic toxins, sources of toxicants

1.4 Basic concepts of toxicology, types of toxicity, acute and chronic toxicity

1.5 Toxicants and toxicity, factors affecting toxicity, types of toxins and basic mechanism of action

MODULE-2 MODE OF ACTION AND EFFECTS OF TOXICANTS

2.1 Environmental Toxicants: Mode of action of toxicants, factors affecting the metabolism of xenobiotics; transport process mechanism of toxicants, mode of action and impacts of Arsenic, Cadmium, Lead, Mercury, Carbon-Monoxide, Nitrous Oxide, Sulphur Dioxide, Ozone, Cyanide, mode of action of pesticides

2.2 Toxicity impacts: Health impacts of toxicants on human and aquatic life, long-term effects- chronic, carcinogenic, mutagenic and teratogenic effects

MODULE-3 OCCUPATIONAL HEALTH

3.1 Health problems related to occupation (due to dust, heat, stresses, chemicals, toxic gases, insecticides and pesticides and metals) Risk Assessment and Management in the Workplace (Workplace Exposure Assessment, Risk Management in the Workplace)

3.2 Dose response relationship, LD 50, LC 50, toxicity testing, acute toxicity tests

3.3 Sub-acute and chronic toxicity tests, heavy metal toxicity tests

MODULE-4 RADIATION IMPACTS

4.1 Natural and man-made radiation, application of radiations, sources of ionizing radiation, types of ionizing radiation, radiation dose and units, direct and indirect effects

4.2 Dose limits, radiation hazard

4.3. Personal protection and house-keeping and safety rules

MODULE-5 EFFECTS OF RADIATIONS

5.1 Molecular and cellular radiobiology: Biological effects of radiation, Radiation lesions in DNA, Major types of DNA repair, DNA damage and repair, chromosomal aberrations and gene mutations, cell death, cell survival curve, consequences of unrepaired DNA damage, radiobiological definition of cell death, cell cycle effects

5.2 Impact of radiations on biological molecules (proteins, nucleic acids, lipid and carbohydrates)

5.3 Radio-protectors and Industrial safety requirements, industrial radio-protector

SUGGESTED READINGS

1. Ansari, A. Radiation threats and your Safety. Chapman and Hall/CRC. 2009.
2. Banerjee, S. K. Environmental Chemistry. Prentice Hall of India Pvt. Ltd., Delhi. 2001.

3. De, A. K. Environmental Chemistry. New Age Int. Ltd. New Delhi. 2003.
4. Donald, G. G. Environmental Toxicology and Chemistry. Oxford University Press: New York and Oxford. 1998.
5. Henriksen, T. Radiation and Health. Taylor and Francis, New York. 2002.
6. Ian C. Shaw and John Chadwick Principal of Environmental Toxicology. Taylor andFrancis, London. 1998.
7. Lombardi, M. H. Radiation Safety in Nuclear Medicine. CRC Press; 1st Edition. 1998.
8. Mommsen, T. P. and Moon, T. W. Environmental Toxicology. Elsevier Science. 2005.
9. Satake, M. Y., Mldo, H., Ysuhisa, S., Taguchi, M. S. Sethi and S. A. Iqbal Environmental Toxicology. Discovery Pub. House, New Delhi. 1997.
10. Sood, A. Toxicology. Sampand Songs, New Delhi. 1999.
11. Wright, D. A. and Welbowin, P. Environmental Toxicology. Cambridge Univ. Press,U.K. 2002.
12. Woodlly, A. A Guide to Practical Toxicology Evaluation, Prediction, and Risk. Informa Healthcare USA, Inc. 52 Vanderbilt Avenue New York. 2008.

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MES-204: ENVIRONMENT IMPACT ASSESSMENT AND ENVIRONMENTAL AUDIT

MODULE-1 OVERVIEW OF EIA

1.1 Objectives and developmental Concept, origin of EIA, Benefits of EIA, Indian directions guidelines (GOI different notification of EIA).

1.2 Rapid and comprehensive EIA perspectives.

1.3 Sources and collection of data for EIA. Measurement of Impact (Physical, social, economic, natural)

1.4 EIA in Indian context, EIA Notification 2006, Prior environmental clearance requirements, EIA authority - State and Central government, Committees for Environmental Clearance, Application for EC, Form 1- contents. Categorization of Projects, list of projects, activity, financial overlays, conditions and specifications. Types of projects: mining, cement industry, group housing, Township development, commercial malls, Star hotels, educational institutions, thermal power, textile, pulp and paper industry, biomass energy, fertilizer industry, Road/highway construction, Bridge construction, Railway lines, Airports and SEZ.

MODULE-2 EIA METHODOLOGY

2.1 Outline of EIA process, Screening, Scoping, Purpose of scoping, impact implications, Baseline studies and superimposition of projected plant emission impacts; reliability of database; intrinsic and external database supports and interpretation; checklist, matrices, Overlays and Geographical Information System, Impact analysis and Predictions, Environmental Impact Statement [EIS]; Public hearing as part of EIA; EIA report.

2.2 Generic structure of Environmental Impact Assessment document – Executive summary of Project, Introduction, Project description, Project benefits, Policy legal and administrative framework, EIA methodology, Description of Environment, prediction of environmental impacts, evaluation of impacts, Environmental Impact Statement (EIS), Impact evaluation, Environmental Management Plan (EMP), Disclosure of Consultants engaged.

MODULE-3 PREDICTION AND ASSESSMENT OF IMPACTS

3.1 Prediction and Assessment of Impacts on Water Environment, Air Environment, Noise Environment, Biological Environment, Cultural and Socio-cultural Environment.

3.2 EIA of River valley project, Hydro power project, Cement plants and Mining

3.3 Prediction and assessment of: Impact of tourism on environment, impact on flora and fauna in Himalayan region

3.4 Social impact assessment (SIA), Strategic Environmental Assessment (SEA), types of impacts, Public involvement, Public Hearing compulsion, restoration and rehabilitation methodologies, Mitigation criteria, Project modification, Post project analysis.

MODULE-4 ENVIRONMENTAL AUDIT

4.1 Objectives, frequency and criteria audit team, Environmental appraisal, accounting and environmental audit. Environmental guidelines for siting of industry, Green Balance Sheet (GBS), Status of compliance of mandatory and

voluntary requirements for industries -mineral, cement, pesticide and textile.

MODULE-5 ENVIRONMENTAL MANAGEMENT AND ISO CERTIFICATION

5.1 Environmental Management Systems (EMS), ISO 14000 (EMS). Components of Environmental Management System-Objectives, Policies, Implementation and Review.

5.2 Life Cycle Analysis –LCA. Waste minimization and product augmentation.

SUGGESTED READINGS

1. Anjaneyulu, Y. and Manickam, V. Environmental Impact Assessment Methodologies. B.S.Publications.2002.
2. Boland, R.G.A. (Ed) Environmental Management Training. Sterling Publishers Pvt. Ltd.New Delhi, 1993.
3. Canter, L. Environmental Impact Assessment.2nd Edition. McGraw-hill Book Company,New York.1996.
4. Cutter, S.L. Environmental Risks and Hazards. Prentice Hall of India, New Delhi. 1999.
5. Glasson, J. Therivel, R. and Chadwick, A. Introduction to Environmental Impact Assessment. Routledge, London. 2006.
6. Kulkarni, V. and Ramachandra, T.V. Environmental Management. Capitol Pub. Co., NewDelhi. 2006.
7. Morris, P. and Therivel R. (Eds) Methods of Environmental Impact Assessment. 2nd Edition, Spon Press London. 2001.
8. Paliwal, U. L. Environment Audit. Indus Valley Publications. Jaipur 2002.
9. Petts, J. Handbook of Environmental Impact Assessment- Volume 1 and 2. Blackwell.Publishers, UK 2005.
10. Bose, S. and Parekh, A. The Environment Audit:-Holy Grail or Essential Management Tool. The Management Accountant. 1994.
11. Rajaraman, N. Environment Audit. The Management Accountant. 1997.
12. Rao, P. S. and Rao, P. M. Environmental Management and Audit. Deep and Deep Publications.2000.

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MES-205: PRACTICAL II

(MES 201: ENVIRONMENTAL POLLUTION)

1. Comparative analysis of air sampling from clean and polluted area using key parameters.
2. Demonstration of noise pollution monitoring equipment.
3. Measurement of sounds by db meter in silent, industrial, residential and commercial zones.
4. Estimation of pH, phosphate, sulphate, acidity, alkalinity, conductivity, hardness, turbidity.
5. Field visit to the Pollution Control Board for demonstration of using different apparatus/ equipment for studying different types of pollution (report to be submitted)

DISTRIBUTION OF MARKS

1.	Any two experiments based on environmental pollution	10 Marks
2.	Field visit report	5 Marks
3.	Viva-voce	5 Marks
	Total	**20 Marks**

MES-206: FIELD STUDY

(MES 202: NATURAL RESOURCES: CONSERVATION AND MANAGEMENT)

1. To study the dependence of rural community on the natural resources in the nearby locality
2. To study the biodiversity of birds and insects in nearby locality
3. To undertake collection of economically important pants from nearby locality and fix them herbarium sheets

DISTRIBUTION OF MARKS

1.	Field visit report on dependence of rural community on the natural resources	7 Marks
2.	Field visit report on natural resources/ collections	8 Marks
3.	Viva-voce	5 Marks
	Total	**20 Marks**

MES-207: PRACTICAL II

(MES 203: ECOTOXICOLOGY AND RADIATION IMPACTS)

1. Determination of different toxic element in air, water, and soil
2. Protocols to evaluate pollutant toxicity
3. Protocol to evaluate the radiation toxicity
4. Visit to nearest industrial areas for evaluating the working conditions of the workers and documentation of safety measures
5. List the sources of toxic substances from nearby industrial area
6. Identifying the sources of toxins in water obtained from different sources.

DISTRIBUTION OF MARKS

1.	Any two experiments based on Ecotoxicology and impacts of radiation	10 Marks
2.	Field visit report	5Marks
3.	Viva-voce	5 Marks
	Total	**20 Marks**

MES-208: PRACTICAL III

(MES 204: ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL AUDIT)

1. Analysis of Socioeconomic survey in the concern village
2. SIA of any project in the nearby village and urban areas
3. Hypothetical EIA of Hydro power project.
4. Hypothetical EIA of Cement plants/ mining
5. Impact study of Tourism in particular city /town /area
6. Impact study of National highways/road construction
7. Hypothetical EIA of Different industries
8. Hypothetical EIA of River valley project
9. Impact study of urbanization/ real estate project.

DISTRIBUTION OF MARKS

1.	Any one experiment based on EIA	10 Marks
2.	Field report	5 Marks
3.	Viva-voce	5 Marks
	Total	**20 Marks**

SEMESTER – III

Course Code	Title of Course	Type	Allocation of time and credits		Marks		
			Instruction Hours per Week	No. of Credits	Theory	Internal Assessment	Total
MES–301	Remote Sensing and GIS	CPT	4	4	60	20	80
MES–302	Environmental Chemistry and GreenTechnology	CPT	4	4	60	20	80
MES–303	Techniques in Environmental Monitoringand Analysis	CPT	4	4	60	20	80
MES–304	Environmental Economics	OEPT	4	4	60	20	80
	Environmental Disasters: mitigation and Management						
	Climate Change and Clean Technology						
	Biodiversity and Wildlife Ecology						
MES–305	Practical I based on MES 301	CPP	4	2	20	-	20
MES–306	Practical II based on MES 302	CPP	4	2	20	-	20
MES–307	Practical III based on MES 303	CPP	4	2	20	-	20
MES-308	Practical/ field study based on MES-304	OEPP	4	2	20	-	20
	Practical/ field study based on MES-304						
	Practical/ field study based on MES-304						
	Total	-	**32**	**24**	**320**	**80**	**400**
Note: MES 301 to MES 304 will be of 100 marks (Theory-60, Internal Assessment-20 marks and MES–306-MES-310 Practical/ field study-20 marks)							
CPT: Core Paper Theory; CPP: Core Paper Practical; OEPT: Open Elective Paper Theory; OEPP: Open Elective Paper Practical							

MES-301: REMOTE SENSING AND GIS

MODULE-1 INTRODUCTION TO REMOTE SENSING

1.1 Definition of remote sensing; introduction to concepts and systems, Scope of remote sensing

1.2 Electromagnetic Spectrum; Radiation principles; image characteristics

1.3 Remote sensing systems; remote sensing platform

1.4 Sources of remote sensing information; advantages of remote sensing

MODULE-2 MICROWAVE SENSING

2.1 Types of microwave systems, advantages, band designation, range resolution, azimuth resolution, real and synthetic aperture systems

2.2 Radar equation, radar return and image, Signatures, dielectric properties and interaction with vegetation Surveying

2.3 Leveling, Triangulation, Geo-datic survey

MODULE-3 AERIAL PHOTOGRAPHS AND SATELLITE IMAGERIES

3.1 Interaction between light and matter

3.2 Characteristics of aerial photographs

3.3 Visual interpretation of aerial photographs and satellite imageries

3.4 Instruments used in interpretation

3.5 Path and Row Index Maps; selecting and ordering images

MODULE-4 DIGITAL IMAGE PROCESSING

4.1 Introduction to digital image processing, basic concept and principle, image rectification and restoration

4.2 Image enhancement; manipulation; image classification; the output stage; data merging; conclusion

MODULE-5 APPLICATION OF REMOTE SENSING IN ENVIRONMENTAL MANAGEMENT

5.1 Remote sensing in natural resource management - forest resources, water resources, land resources and mineral resources

5.2 Hazard and disaster mapping and management

5.3 Introduction to GIS; principle of GIS; terminology used in GIS; space and time in GIS

5.4 Maps and its characteristics, map scale, map symbology; spatial relationship; data structure and spatial analysis in GIS; GIS data; software used in GIS

SUGGESTED READINGS

1. Burrough, P. A. Principles of Geographical Information System for Land ResourceAssessment, Oxford Univ. Press. 1986
2. Curran, P. J. Principles of Remote Sensing, ELBS, Longman Inc. 1988.
3. Jensen, J. R. Digital Image Processing, Prentice Hall, New York. 1986
4. Jensen, J. R. Remote Sensing of the Environment, Pearson Education, Singapore. 2003.
5. Lillesand T.M. and Kiefer R.W. Remote Sensing and Image Interpretation, Second

Ed. John Wiley and Sons, New York. 1987.

6. Rao, U. R. Space Technology for Sustainable development. Tata McGraw Hills Co. Ltd., New Delhi. 1996

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MES-302: ENVIRONMENTAL CHEMISTRY AND GREEN TECHNOLOGY

MODULE-1 CONCEPT AND SCOPE OF ENVIRONMENTAL CHEMISTRY

1.1 Nomenclature, segments of environment, Concept and scope of Environmental Chemistry

1.2 Chemistry of biologically important molecules, chemistry of water, hydrogen boding in biological systems

1.3 Chemistry of various organic and inorganic compounds

1.4 Chemistry of hydrocarbon decay, environmental effects, effects on macro and microorganisms

MODULE-2 FUNDAMENTALS OF ENVIRONMENTAL CHEMISTRY

2.1 Stochiometry, Gibb's energy, chemical potential

2.2 Chemical equilibrium, Acid-base reaction, solubility product, solubility of gases in water

2.3 Solubility product, solubility of gases in water the carbonate system unsaturated and saturated hydrocarbons

2.4 Surfactants: Cationic, anionic and nonionic detergents, modified detergents

2.5 Pesticides: Classification, degradation, analysis, pollution due to pesticides and DDT problems, organochlorides, organophosphates, organo-carbamates, herbicides

2.6 Synthetic Polymers: Microbial decomposition, polymer decay, ecological and consideration, Photosensitize additives.

MODULE-3 ENVIRONMENT AND GLOBAL WARMING

3.1 Chemical composition of Air: Classification of Elements, Chemical speciation

3.2 Chemical process for formation of inorganic and organic particulate matter

3.3 Thermo-chemical and Photochemical reaction in the atmosphere, Oxygen and Ozone chemistry, Chemistry of Air pollutants; photochemical smog. O_3, $N0_x$, HC CFCS and PAN

3.4 Chemistry of greenhouse gases, emission of CO_2, Consequences of greenhouse gases, their control and remedial measures, threats of Global warming

MODULE-4 PRINCIPLES OF GREEN TECHNOLOGY

4.1 Overview of green chemistry, principles of sustainable and green chemistry

4.2 Waste minimization and climate change

4.3 Introduction to nano-materials and green nanotechnology

4.4 Nano-medical application of green nanotechnologies

MODULE-5 APPLICATION OF GREEN TECHNOLOGY

5.1 Green technology in industries, fuel cell and electric vehicles, solar energy and hydrogen production, energy from alternate sources, solar photovoltaic technology; biofuel production (bio-ethanol and biodiesel)

5.2 Biomass, prevention/ minimization of hazardous/ toxic products, production of biodegradable materials, concept of green building

SUGGESTED READINGS

1. Baird, C. Environmental Chemistry, W. H. Freeman and Company, USA. 2000.
2. Banerji, S. K. Environmental Chemistry, Prentice-Hall of India Private Ltd., New Delhi. 1993.
3. De, A. K. Environmental Chemistry, New Age International Ltd., New Delhi. 2003.
4. Eisenbund, M. and Gesell, T. Environmental Radioactivity-from natural, industrialand military sources, Acad. Press, USA. 1997.
5. Girard, J. E. Principals of Environmental Chemistry, Jones and Bartlett Publishers,Inc. 2005.
6. Harrison, R. M. and Mora, S. J. De. Introductory chemistry for the Environmental Chemistry. Cambridge University, Press. 1996.
7. Mido, Y. and Satake, M. Chemicals in the environment, Discovery Pub. House, NewDelhi. 1995.
8. Sharma, B. K. Environmental Chemistry, Krishna Prakashan Media Pvt. Ltd. Meerut. 2001
9. Sharma, B. K. and Kaur, H. Environmental Chemistry, Goel Publishing House, NewDelhi.1990
10. Sodhi, G. S. Fundamental concepts of environmental Chemistry, Narosa PublishingHouse, New Delhi. 2006.

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MES-303: TECHNIQUES IN ENVIRONMENTAL MONITORING AND ANALYSIS

MODULE-1 SAMPLING METHODS

1.1 Sampling methodologies for Air, Water, Soil, Noise and Radioactivity in environmental matrices. Sampling protocols- Selection of sites, Time and frequency for sampling.

1.2 Preservation, Storage and Handling of samples. Good Laboratory Practices.

MODULE-2 ANALYTICAL INSTRUMENTS

2.1 Principles, working and applications of High volume sampler, Respirable Sampler, Impactors, Cyclones, Particle Size Analyser, Gas Analysers, Spectrophotometer (UV-Visible), Flame Photometer, Atomic Absorption spectrophotometer (AAS). Head space analysis, leaching tests, and immunoassay.

MODULE-3 ADVANCED MICROSCOPY AND CHROMATOGRAPHS

3.1 Principles, working and applications of Phase contrast, fluorescent, polarization Microscopes, SEM. Gas Chromatograph (GC), GC-MS, HPLC, Ion chromatograph, X-ray diffraction, ED-XRF, WD-XRF, ICP-MS, ICP-AES

MODULE-4 RADIATION DETECTORS AND MONITORS

4.1 Principles and working of radiation detectors- gas filled, scintillation (inorganic and organic) and semiconductor. Principles and working of Alpha Counter, Beta Counter, Gamma-ray Spectrometer, Liquid scintillation Counter, Beta-Gamma survey meters, Alpha, Beta and Gamma contamination Monitors.

SUGGESTED READINGS

1. Baird, C. and Cann, M. Environmental Chemistry. W.H. Freeman and Company 2008.
2. Chatwal, G. R., and Anand, S. K. Instrumental Methods of Chemical Analysis. HimalayaPublishing House, Delhi. 2007.
3. De, A.K. Environmental Chemistry, New Age International, New Delhi. 2000.
4. Keith, L. H. Principles of Environmental Sampling. American Chemical Society.1988.
5. Murphy, W.J. Analytical Chemistry, American Chemical Society, USA. 1977
6. Reeve, R. Introduction to Environmental Analysis. John Willey and Sns.2002.
7. Shukla, S. K. and Srivastava, P. R. Methodology of Environmental monitoring andAssessment. Commonwealth Publishers.1992.

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MES-304: ENVIRONMENT ECONOMICS (ELECTIVE)

MODULE-1 ECONOMY AND THE ENVIRONMENT

1.1 World environmental history and economic development, valuation of natural resources, Inter-linkages between the economy and the environment

1.2 Economics of Natural Resource Exploitation – Renewable and Non-Renewable Resources – Methods of valuation of Environmental Costs and Benefits. Entropy-Principle and law of entropy. Material flow in economy.

MODULE-2 ENVIRONMENTAL POLICY

2.1 Design of Environmental Policy. Economic Instruments for Environmental Protection: Command and Control versus Incentives and Subsidies. Effectiveness of these instruments. Indian scenario and comparisons with developed countries.

MODULE-3 SUSTAINABLE DEVELOPMENT

3.1 Concept and objectives. Strategic Planning for Sustainable Development, Natural resource based economic and social development.

3.2 Climate Change and India: Vulnerability of regions and populations – Adaptation options.

MODULE-4 GREEN ECONOMY

4.1 New model for development, Green economy and green economy initiatives, Role of UNEP. Brundtland Commission. Ecological economics Economic Growth and the Environment: Environmental Kuznets' curve, Foreign Direct Investment and the Environmental quality.

SUGGESTED READINGS

1. Allen V. Kneese and James L. Sweeney, eds. Handbook of Natural Resource and EnergyEconomics, Chapters 2,12,14,17, North Holland, 1985.
2. Bohm, P. and Russell, C., Comparative Analysis of Alternative Policy Instruments', Chap. 10in Handbook of Natural Resource and Energy Economics, Vol. I Ed. A.V.
3. Field, B.C., Environmental Economics: An Introduction, McGraw Hill, 1994
4. Fisher, A.C., Environment and Resource Economics, Selected readings, New Horizon inEnvironmental Economics, Ed. W.E. Oates, 1995.
5. Hanley, Nick, Jason F. Shogren and Ben White: Environmental Economics in Theory andPractice, New Delhi: Macmillan –India, 1997.
6. James, D.E., Economic Approaches to Environmental Problems: Techniques and Results ofEmpirical Analysis, Elsevier Scientific Publishing Co., 1978.
7. Kolstad Charles., Environmental Economics, New Delhi: Oxford University Press,2010 14
8. Oates, W.E., Economics of the Environment, 1992.
9. Sankar, U. (ed.) Environmental Economics, New Delhi: Oxford University Press, 2001.

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MES-304: ENVIRONMENTAL DISASTERS: MITIGATION AND MANAGEMENT (ELECTIVE)

MODULE-1 INTRODUCTION TO DISASTERS

1.1 Disasters: Meaning and definitions, difference between disaster and hazard, causal factors, development leading to disaster, characteristics of disasters, forecasting and warning of disasters, elements of early warning systems

1.2 Classification of Disasters: Natural and man-made hazards, hazard zonation and risk assessment, mitigation strategies

1.3 Man- Made Disasters: Types and nature of man-made disasters, general effects and mitigation strategies for manmade disasters

1.4 Biological Disasters: Meaning, types, vulnerability, effects, preparedness and mitigation of Biological disasters

1.5 Chemical and Radiological Disasters: Causes, impacts and management of chemical and radiological disasters

MODULE-2 NATURAL DISASTERS- I

2.1 Natural Disasters: Introduction, meaning, nature and types of natural disasters, general effects of natural disasters

2.2 Earthquake and Seismic Hazards: Origin and severity of earthquakes, effects of earthquakes, risk evaluation, seismic zonation of India with special reference to Himalayan Region, earthquake mitigation measures

2.3 Volcanic Eruptions: Nature, causes, monitoring and mitigation of volcanoes

2.4 Landslides: General characteristics, causes, vulnerability, effects, prediction and warning and risk reduction mitigation measures

2.5 Snow Avalanches: Formation of avalanches, classification, mitigation and management of avalanches

MODULE-3 NATURAL DISASTERS- II

3.1 Floods: Causes of flood, flood and draught, erosion and sedimentation, flood prone areas of India and associated hazards, assessment and management of flood

3.2 Cyclones: Nature and genesis, anticyclones, weather associated with cyclones, Geological changes and other effects

3.3 Tsunami: Origin and nature, causes of tsunamis, wave propagation, impact on coastal areas, warning and prevention, tsunami mitigation measures

3.4 Drought: Meaning, types, general characteristics, causes and impacts, prediction and warning and mitigation measures

3.5 Heat and Cold Waves: Causes and impacts, prevention, preparedness and response

MODULE-4 DISASTER MANAGEMENT

4.1 Disaster Management: Definition, objectives and scope of disaster management, elements of disaster management, role of professionals in the management of disasters, disaster management cycle

4.2 Disaster Response: Response plans, search, rescue and evacuation, community health and casualty management

MODULE-5 DISASTER MITIGATION AND PREPAREDNESS

4.1 Disaster Preparedness: Disaster preparedness plans, pre-requisites of preparedness planning, role of Information Technology, education, communication, and awareness in preparedness

4.2 Rehabilitation and Reconstruction (R and R): Social and economic aspects of R and R, Housing, relocation, retrofitting, repairing and strengthening of houses, reinstating livelihoods, national policy on disaster management

SUGGESTED READINGS

1. Bryant, E. A. Natural Hazards. Cambridge University Press, Cambridge, New York. 1991.
2. Cuny, F. Disasters and Development. Oxford University Press, England. 1983.
3. Cutter, S. L. Environmental Risks and Hazards. Prentice Hall of India Pvt. Ltd. NewDelhi. 1999.
4. Green, S. International Disaster Relief towards a Responsive system. Mc. Graw HillBook Co. New York. 1980.
5. Gupta, H. Disaster Management. University Press, Hyderabad. 2003.
6. Sahini, P. and Ariabandu, M. N. Disaster Risk Reduction in South Asia. Prentice Hall of India Pvt. Ltd. New Delhi. 2003.
7. Sinha, P. C. Encyclopedia of Disaster Management series. Anmol Pub., New Delhi. 1998.
8. Singh, S. R. Disaster Management. APH Publishing Corporation, New Delhi. 2011.
9. Smith, K. Environmental Hazards: Assessing risk and reducing disaster. Routledge, London. 1996.

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MES-304: CLIMATE CHANGE AND CLEAN TECHNOLOGY (ELECTIVE)

MODULE-1 SCIENCE OF CLIMATE CHANGE

1.1 Drivers of climate change- greenhouse gases, aerosols – reflective and black carbon, land use changes. Energy balance, feed-back processes in climate system, concepts of global warming potential (GWP), radiative forcing

MODULE-2 GREEN HOUSE GASES

2.1 Trends of Emission of Carbon dioxide, Nitrous Oxide, methane, CFCs, Sulphur hexafluoride. GHG inventories. Sectoral emissions. Time series plots of GHGs and temperature.

MODULE-3 CLIMATE CHANGE IMPACTS

3.1 Impact of Climate Change on weather and climatic patterns, ice caps, glaciers, agriculture, vegetation, biodiversity, sea level, tourism and their implications.

MODULE-4 CLEAN TECHNOLOGY

4.1 Imperatives of clean technology in the context of mitigation and adaptation measures. CDM concept, CDM scenario in India, CDM projects sector-wise, National Action Plan on Climate Change, sustainable habitat, concept of Green architecture. Carbon trading; carbon credits; Carbon sequestration; Carbon Footprint. Issues of Energy security, Food Security and Social security.

SUGGESTED READINGS

1. Botkin, Daniel B. and Keller, Edward A. Environmental Science: Earth as a Living Planet.6th ed. John Wiley and Sons, USA. 2007.
2. Burroughs, W.J. Climate Change: A Multidisciplinary Approach. 2nd ed. CambridgeUniversity Press. 2007.
3. Chasek, P. S. The Global Environment in the Twenty-First Century - Prospects for International Co-operation. Indian Reprint by Manas Publications, New Delhi. 2004.
4. Claussen, E. ed. Climate Change: Scenario, Strategies and Solutions. Arlington VA. 2001.
5. Dodds, F. (Ed.). Earth Summit. 2002. A New Deal. Earthscan Publications Ltd., UK. 2002.
6. Enger, E.D. and Smith, B. F. Environmental Science: A Study of Interrelationships. 11th ed.McGraw Hill Inc., USA. 2006.
7. Hardy, John T. Climate Change: Causes, Effects, Solutions. Wiley and Sons, USA. 2003.
8. Harris, F. Global Environmental Issues. Wiley and Sons, Inc., USA. 2004.
9. Harvey L. D. D. Global Warming: The Hard Science. NY: Prentice-Hall.2000.
10. IPCC, Emission Scenarios, Inter Governmental Panel on Climate Change, CambridgeUniversity Press, 2000.
11. Silver C. S. and DeFries, R. S. One Earth one Future: - Our Changing Global Environment.East-West Press Edition, 1991.
12. Singh, J.S., Singh, S.P. and Gupta, S.R. Ecology, Environment and Resource Conservation.Anamaya Publishers, New Delhi, India. 2006.
13. Speth, J. C. Global Environmental Challenges – Transitions to a Sustainable World. OrientLongman Pvt. Ltd., New Delhi. 2004.

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MES-304: BIODIVERSITY AND WILDLIFE ECOLOGY (ELECTIVE)

MODULE-1 INTRODUCTION

1.1 Biodiversity: Basic concepts, importance and conservational needs

1.3 Factors for decline of biological diversity

1.4 Approaches for conservation of biological diversity

1.5 Protection of wild flora, fauna and natural habitats, concept of threatened species, threatened and endangered animals of India

MODULE-2 CONCEPT OF BIODIVERSITY

2.1 Biodiversity Convention, international and national efforts to conserve biodiversity

2.2 Concept of genetic diversity, gene and germplasm banks

2.3 Socio-cultural aspects of biodiversity, traditional knowledge and biodiversity conservation

MODULE-3 WILDLIFE AND WILDLIFE HABITAT

3.1 Wildlife: definition, concept and importance of wildlife in biological studies

3.2 Methods of studying wildlife (birds and mammals) in their natural habitat

3.3 Wildlife habitat: Forest, desert and Grassland with their characteristics

MODULE-4 ENVIRONMENTAL DEGRADATION AND WILDLIFE

4.1 Wildlife damages: Assessment and impact of environmental pollutants on wildlife

4.2 Changed land use pattern and its effects on wildlife

4.3 Man-wildlife conflict

4.4 Wildlife management principles

MODULE-5 STATUS and DISTRIBUTION OF WILDLIFE IN INDIA

5.1 Zoo-geographic subdivisions of India based on important mammalian fauna.

5.2 Endangered Wildlife species (Birds and Mammals) of India

5.3 Important Wildlife species of HP State

5.4 Conservation sites of HP with characteristic Wildlife

5.5 Important National Parks, Wildlife Sanctuaries and Biosphere Reserves in India with characteristic Wildlife

SUGGESTED READINGS

1. Berwick, S. H. and Sharma, V. B. Wildlife Research and Management, Oxford Univ.Press, Delhi. 1995
2. Champion, H. C. and Sheth, S. K. A revised Survey of the Forest Types of India, Pub.Manager, Col. Press- Nasik /Manager of Publication Delhi. 1968
3. Dassman, R. F. Wildlife Biology (II Ed.), Wiley Eastern Ltd., New Delhi. 1982
4. Giles, R. H. Wildlife Management Techniques, The Wildlife Society, Washington,D.C. 1984
5. Leopld, A. Game Management, Charles Scribner's Sons, New York, London. 1933.
6. Odum, E. P. Fundamentals of Ecology, W.B. Saunder Co. / Toppan Co. Ltd. 1971.

7. Prater, S.H. The Book on Indian Animals, BNHS, Bombay. 1980.
8. Schaller, G. B. The Dear and the Tiger, ZSI, Calcutta.1987
9. Sparke, J. Bird Behaviour, Govosset and Dulop, Inc. New York. 1970
10. Stoddart, A. I. Range Management, Pub. McGraw Hill, Col. Inc. New York. 1975.
11. Teague, R. D. A manual of Wildlife Conservation, Pub. The Wildlife Society, Washington, D.C. 1971
12. Tikader, B. K. Threatened Animals of India, ZSI, Calcutta.1983.

NOTE FOR PAPER SETTER: The question paper will contain TWO QUESTIONS from each unit (Total TEN questions in all) and the candidate will be required to answer ONE QUESTION from each unit (total questions to be attempted will be FIVE) i.e. there will be internal choice within each unit.

MES-305: PRACTICAL I

(MES 301: REMOTE SENSING AND GIS)

1. Identification and principle techniques of different instrument used for meteorology
2. Identification and principle techniques of different software's used for remote sensing and GIS
3. Study of equipment and materials used in aerial photography and remote sensing
4. Case studies-aerial photography and satellite imageries

DISTRIBUTION OF MARKS

1.	Any one experiments based on remote sensing and GIS	15 Marks
2.	Viva-voce	5 Marks
	Total	**20 Marks**

MES-306: PRACTICAL II

(MES 302: ENVIRONMENTAL CHEMISTRY AND GREEN TECHNOLOGY)

1. Soil sampling, determination of soil color, bulk density, porosity.
2. Estimation of pH, moisture, conductivity, organic carbon, organic matter, nitrogen, phosphorus and potassium in soil.
3. Visit to nearby Institute/ organization to study the initiative on green technology.

DISTRIBUTION OF MARKS

1.	Any one experiments based on environmental chemistry and green technology	10 Marks
2.	Report on field visit	5 Marks
3.	Viva-voce	5 Marks
	Total	**20 Marks**

MES-307: PRACTICAL III

(MES 303: TECHNIQUES IN ENVIRONMENTAL MONITORING AND ANALYSIS)

1. Estimation of halides in water samples by potentiometry
2. Estimation of Co2+ and Ni2+ by colorimetry / spectrophotometry
3. Estimation of sulphates by turbidometry
4. Estimation of alkali metals in various samples by flame-photometry
5. Estimation of BOD, DO, COD, TOC, MPN, TSS, TDS in Water and Waste Water
6. Collection of water sample, analysis of water sample related to different elements/Metals
7. Principles of spectrophotometer
8. Principles of Flame photometer
9. Analysis of camions in solution

10. Estimation of iron (III) by photo chemical reduction method
11. Determination of calcium hardness and magnesium hardness of water sample
12. Determination of chloride in a sample of water (silver nitrate method)

DISTRIBUTION OF MARKS

1.	Any two experiments based on environmental chemistry	15 Marks
2.	Viva-voce	10 Marks
	Total	**20 Marks**

MES-308: PRACTICAL IV

(Practical/ field study based on MES-304 Elective)

Environmental Economics

1. Visit to the State Energy Department to gather information on government's initiatives on energy conservation, resource scarcity, energy security, etc. and prepare a report on the same.
2. To understand the government's interventions with regard to environmental protection, forest resources, water resources, hydropower generation, etc. and prepare a report on the same.

Environmental Disasters: Mitigation And Management

1. Sketching of earth system and different geological hazards
2. Preparation of hazard zonation maps with special reference to Himachal
3. Slope stability analysis and landslide zoning
4. Identification and observation of water scarcity area
5. Assignment/ field visit to disaster affected sites (Report)

Climate Change and Clean Technology

1. Gather information of the impact of climate change being faced by the people at local level and the coping/ adaptive mechanism being evolved for the same
2. Record the success stories of the NGOs/ individuals working for clean environment and how the same is achieved and prepare a report.

Biodiversity and Wildlife Ecology

1. Visit to a nearby Wildlife Sanctuary/ Forest Reserve/ National Park and understand the conservation mechanism being followed, besides the dependence of people on its resources and prepare a report on the same.
2. Visit to the Forest and Wildlife Department to gather information on existing laws of state government with regard to the wildlife protection, status of wildlife in the state and conservational measures being adopted and prepare a report on the same.

DISTRIBUTION OF MARKS

1.	Any field study report/ activities based on Environmental Economics/Waste Management / Climate Change and Clean Technology/ Biodiversity and Wildlife Ecology	15 Marks
2.	Viva-voce	10 Marks
	Total	**20 Marks**

SEMESTER – IV

Course Code	Title of Course	Type	Allocation of time and credits		Marks		
			Instruction Hours per Week	No. of Credits	Theory	Internal Assessment	Total
MES–401	Environmental Law, Governance, EthicsAnd Policy	CPT	4	4	80	20	100
MES–402	Research Methodology, Statistics and Computer Applications	CPT	4	4	60	20	80
MES–403	Environmental Health	OEPT	4	4	60	20	80
	Principles of Climatology						
	Environmental Biotechnology						
	Nanotechnology						
MES–404	Practical I based on MES 402	CPP	4	2	20	-	20
MES–405	Practical/ field study based on MES-403	OEPP	4	2	20	-	20
	Practical/ field study based on MES-403						
	Practical/ field study based on MES-403						
MES–406	Dissertation	-	4	2	100	-	100
	Total	-	**24**	**18**	**340**	**60**	**400**
Note: MES 401 and MES 403 will be of 100 marks (Theory-60, Internal Assessment-20 marks and MES–405 will be dissertation of 100 marks							
CPT: Core Paper Theory; CPP: Core Paper Practical; OEPT: Open Elective Paper Theory; OEPP: Open Elective Paper Practical							
GRAND TOTAL (First to fourth semester)							**1600**

MES-401: ENVIRONMENTAL LAW, GOVERNANCE, ETHICS AND POLICY

MODULE-1 INTRODUCTION TO ENVIRONMENTAL LAWS

1.1 Historical background of Environmental Law and Policy in India

1.2 Constitutional mandate for environmental protection

1.3 Environmental Protection: Issues and Problems

1.4 Key International Efforts for Environmental protection

1.5 Sustainable Development: Essential features and Legal Implications

1.6 UN Framework Conventions on Climate Change, 1992, Kyoto Protocol, 1997

MODULE-2 ENVIRONMENTAL PROTECTION AND LAW

2.1 Environmental laws, environmental Policy in India, Indian Constitution and Environmental Protection

2.2 Environment (Protection) Act, 1986: Salient Features

2.3 Powers of Central Government under EPA

2.4 Prevention, Control and abatement of environmental pollution under EPA

2.5 Hazardous wastes (Management, Handling and Transportation) Rules, 2008

2.6 Public Liability Insurance Act, 1991

MODULE-3 POLLUTION ABATEMENT AND THE LAW

3.1 Water (Prevention and Control of Pollution) Act, 1974: Salient Features

3.2 Powers and Functions of CPCB and SPCB under Water Act

3.3 Air (Prevention and Control of Pollution) Act, 1981.

3.4 Powers and Functions of CPCB and SPCB under Air Act

3.5 Noise pollution (Regulation and Control) Rules, 2000 (Note: Only relevant provisions of the above Acts)

MODULE-4 NATURAL RESOURCE CONSERVATION AND THE LAW

4.1 Wildlife (Protection) Act, 1972: Salient Features

4.2 Protected Areas and Trade and Commerce under WPA

4.3 National Forest Policy

4.4 Forest Conservation Act, 1986

4.5 Biological Diversity Act, 2002

MODULE-5 JUDICIAL ACTIVISM AND ENVIRONMENTAL PROTECTION

5.1 Judicial Response towards Environmental Protection

5.2 Public Nuisance under IPC (Sections 268,277,278,284, 290,291)

5.3 Sections 133-143 of Criminal Procedure Code, 1973

5.4 Role of UN authorities in protection of Global Environment

5.5 Evolution of International Environmental Law, International Environmental Law and the Challenge of Globalization

5.6 Recent Trends in International Law

SUGGESTED READINGS

1. Diwan, P. Environmental Administration - Law and Judicial Attitude, Vol. I, II. Deep and Deep Pub. New Delhi. 1997
2. Divan, S. and Roscencranj, A. Environmental Law and Policy in India, Oxford Pub.New Delhi. 2001.
3. Lal, S. Commentaries on Water, Air pollution and Environment (protection) Law, Law Pub. Pvt. Ltd. India. 1990.
4. Leelakrishnan, P. Environmental Law in India. Butterworths Publications, New Delhi.1999
5. Singh, G. Environmental Law: International and National Perspectives. 1995.

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MES-402: RESEARCH METHODOLOGY, STATISTICS AND COMPUTER APPLICATIONS

MODULE-1 INTRODUCTION TO RESEARCH AND SCIENTIFIC WRITING

1.1 Characteristics and types of Scientific Research

1.2 Organizing Scientific Research: Experimental Design, Research Methodology, Sampling designs

1.3 Writing research proposals, research paper, reviews, thesis, conference reports, book reviews, project reports, reference writing and scientific abbreviations

1.4 Preparation and delivery of scientific presentations

MODULE-2 BASIC CONCEPTS OF STATISTICS

2.1 Importance and scope of Statistics

2.2 Primary and secondary data - collection of data

2.3 Sampling of data - random and non-random sampling

2.4 Diagrammatic (Line, bar, pie diagram) and Graphic (Histogram, frequency polygon, frequency curve, cumulative frequency curve) representation of data, Measures of central tendency – Mean (AM, GM and HM), Mode and Median.

2.5 Measures of dispersion, skewness and kurtosis

MODULE-3 PROBABILITY DISTRIBUTION

3.1 Probability distribution - Binomial distribution

3.2 Poison distribution

3.3 Normal distribution

3.4 Test of hypothesis, two types of errors

3.5 T-Test for assumed population mean and comparison of two samples

MODULE-4 STATISTICAL TESTS

4.1 Chi square tests and its application

4.2 Co-relation and regression

4.3 Principles of design of experiments. Examples of CRD and RBD

4.4 Analysis of variance (one way and two way analysis of variance)

MODULE-5 COMPUTER APPLICATION AND ENVIRONMENT SYSTEM ANALYSIS

5.1 Basics of Computer: meaning, definition, types and main parts, structure of Central Processing Unit (CPU); Software: Meaning and types, Application of Software, System and customized software, software piracy; Booting: meaning and types

5.2 Operating System and Memory: meaning and types of operating systems, i.e. UNIX, LINUX, MS-DOS, Microsoft Windows; Memory: meaning and types, Storage capacity and Storage media

5.3 Computer Networking and Cybercrime: meaning, types of network, data security, password, firewall, encryption, backups, wireless networking; Internet: Benefits of internet, web browsing, Digital/Cybercrime.

5.4 Application of computers in Environmental Sciences, Environment System; Analysis, Meteorology and Climatology, Surface and Groundwater Hydrology, Environmental Management and Decision Analysis, Databases, Satellite Data, Image Processing and Remote Sensing; Software Models

SUGGESTED READINGS

1. Balagurusamy, E. Programming with C., Tata McGraw Hill Pub., New Delhi. 1995.
2. Gupta, S. C. Fundamentals of Statistics, Himalayan Pub. House New Delhi. 1999.
3. Hoshmand, A. R. Statistical methods for Env. and Agr. Science. CRS Press, New York. 1988
4. Jain, P. K. Fundamentals of Computers, BPB Pub., New Delhi. 1995
5. Khan, I. A. and Khanum, A. Biostatistics, Ukaaz Publications, Hyderabad. 1994
6. Rajaraman, I. Fundamentals of Computers, PHI Pub., New Delhi. 1989
7. Rao, P. S. S. and Richard, J. An Introduction to Biostatistics. Prentice Hall, New Delhi.1996
8. Sharma, A. K. Computer Science, Dhanpat Raiand Sons, New Delhi. 1996.
9. Sinha S. C. and Dhiman, A. K. Research Methodology (2 Vols.-Set), Ess Ess Publications, New Delhi. 2002
10. Sinha, P. K. Computer Fundamentals, BPB Pub., New Delhi.1995.
11. Sukhatma, P. I. and Amble, I. N. Statistical methods for Agricultural workers, ICAR,New Delhi. 1976

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MES-403: ENVIRONMENTAL HEALTH (ELECTIVE)

MODULE-1 ENVIRONMENTAL HEALTH: INTRODUCTION

1.1 Health and Environment (Historical perspective, basic requirement of healthy environment, environmental quality, human exposure to noxious substances in environment)

1.2 Environmental factors affecting health, environmental health problems and its causes

1.3 Nature of Environmental Health Hazards (Biological, chemical, physical, mechanical and psychological hazards)

1.4 Psychology and work environment; emerging issues; place attachment, pro-environmental behavior, ecological consumerism

MODULE-2 ENVIRONMENTAL HEALTH PROBLEMS-I

2.1 Health problems linked with unsafe water (Toxic pollutants their impacts on health)

2.2 Water-borne diseases (National scenario of water-borne diseases in India)

2.3 Social and quality dimensions of water and sanitation, sanitations and health related challenges

2.4 Vector-borne diseases: Malaria, Kala azar, Japanese Encephalitis, Dengue, Plague, (causal agents, manifestation of disease, prophylactic measures); Airborne diseases: Chickenpox, Influenza, Measles, Smallpox, and Tuberculosis (causal agents, manifestation of disease, prophylactic measures)

MODULE-3 OCCUPATIONAL HEALTH PROBLEMS-II

3.1 Diseases caused by chemical agents (beryllium, phosphorus, cadmium, selenium, phosgene, ammonia)

3.2 Diseases caused by physical agents: Hearing impairment caused by noise, Diseases caused by vibration (disorders of muscles, tendons, bones, joints, peripheral blood vessels or peripheral nerves); diseases caused by compressed or decompressed air; diseases caused by optical (ultraviolet, visible light, infrared) radiations including laser; diseases caused by exposure to extreme temperatures

3.3 Occupational cancer: cancers caused due to Asbestos, Benzidine, Chromium, Nickel compounds, Arsenic, Cadmium

MODULE-4 OCCUPATIONAL SAFETY AND HEALTH

4.1 Occupational safety and health policy: General framework, employers' responsibilities, workers' duties and rights, safety and health committees

4.2 Management of occupational safety and health: Management commitment and resources, workers' participation, training, organizational aspects

4.3 Health promotion, education and training: Promotion of occupational safety and health; training and information at the national level; Training and information at the enterprise level; Training methods and materials

MODULE-5 ENVIRONMENTAL HEALTH MANAGEMENT

5.1 Priority areas for intervention (safe water supply, food safety, basic sanitation, solid waste management, vector control, public information and media), obstacles and opportunities for management of environmental health problems

5.2 Role of environment health professionals, environment and value education, biodiversity conservation and health education, health education for self-confidence and positive attitude

SUGGESTED READINGS

1. Goel, S. L. Environment Health and Value Education. Deep and Deep Publications. 2008.
2. Kumar, H. Environmental Health Hazards. IVY Publishing. 2001.
3. Sarkar, A and Panigrah, S. K. Water Borne diseases in India: Environmental health and policy perspective. Manak. 2007.
4. Yassi, A. Basic Environmental Health, Volume I. Oxford University Press. 2001.
5. Sarkar, A., Panigrah, S. K. and Anand, M. Vector Borne diseases in India: Environmental health and policy perspective. Manak. 2007.
6. Benjamin O. Alli. Fundamental Principles of Occupational Health and Safety. International Labour Office, Geneva. 2008.

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MES-403: PRINCIPLES OF CLIMATOLOGY (ELECTIVE)

MODULE-1 INTRODUCTION

1.1 Definition, sub-divisions and scope of climatology

1.2 Composition and structure of the atmosphere

1.3 Insolation; Factors governing insolation; Heat budget of the Earth; Factors determining horizontal distribution of temperature

MODULE-2 PRESSURE AND WIND

2.1 Factors controlling pressure, horizontal distribution of pressure; Factors controlling wind

2.2 Wind system; Types of planetary winds; Local winds and types; Measurement of wind, air temperature and insulation

MODULE-3 AIR

3.1 Air masses, air fronts and their types; Climatic classification- Basis of classification; Koeppen's classification; Thornthwait's classification- 1931 scheme, 1948 scheme, concept of El-Nino, Southern oscillation (ENSO) and La-Nina

3.2 Weather Forecasting - Tools in weather forecasting; Weather Forecasting in India

MODULE-4 CLIMATE OF THE WORLD

4.1 Describing the climatic features and native vegetation of the following: Equatorial, Savanna, Hot Desert, Mediterranean, Steppe

MODULE-5 CLIMATE CHANGE

5.1 Hazards - Fog and thunderstorm; Effect of climate on vegetation; Bioclimatology -Climate and Human Health

5.2 Climate and House types; Climatic change-Indicators of past climate, Carbon dioxide theory, Volcanic dust theory

SUGGESTED READINGS

1. Cunningham, W.P. and Saigo, B.W. Environmental Science - A Global Concern WCBMC Graw- Hill, U.S.A. 1999.
2. Emiliani, C. Planet Earth. Cambridge University Press, U.K. 1992.
3. Fellmann, J., Getis, A. and Getis, J. Human Geography-Landscapes of Human activities, WCB McGraw-Hill, USA. 1996.
4. Houghton, J. Global Warming - The complete Briefing. Cambridge Univ. Press, U.K. 1997.
5. Lean, G. and Hinrichsen, D. Atlas of the Environment. Harper Perennial Pub., NewYork. 1994.
6. Lundgren, L. Environmental Geology. Prentice Hall, New Jersey. 1986.
7. Lunine, J. I. Earth-Evolution of a Habitable World. Cambridge Univ. Press, U.K. 1999.
8. McKnight, T. L. Physical Geography-A Landscape Appreciation. Prentice Hall, NewJersey. 1993.
9. Pearce,F. Climate and Man - From the Ice Ages to the Global Greenhouse. Ivision Books, London. 1989.

10. Rogers, J. J. W. and Feiss, P.G. People and the Earth - Basic Issues in the Sustainability of Resources and Environment. Cambridge University. Press, U.K. 1998.
11. Smithson, P., Addison, K. and Atkinson, K. Fundamentals of the Physical Environment. Routledge Publishers, London. 2002.
12. Wellburn, A. Air Pollution and Climate Change- The Biological Impact. Longman Publishers, Singapore. 1996.

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MES-403: ENVIRONMENTAL BIOTECHNOLOGY (ELECTIVE)

MODULE-1 INTRODUCTION

1.1 The scope of environmental biotechnology; Biodegradation of macromolecules; biodegradation of xenobiotics; Heavy metal pollution

1.2 Bioremediation of metal contaminated soils, spilled oil and grease deposits and synthetic pesticides; Biosensors to detect environmental pollutants; Fermentation technology (Bioreactors).

MODULE-2 BASIC TECHNIQUES IN GENETIC ENGINEERING

2.1 Genetic manipulation, Restriction endonucleases; Introduction of cloned genes into new hosts using plasmid and phage vector systems. RFLP, Polymerase chain reaction.

2.2 Environmental genomics/metagenomics - a general account; Microbes and environmental management; microorganisms and organic pollutants; Extremophiles.

MODULE-3 GENETIC ENGINEERING OF PLANTS

3.1 Basic concepts of genetic engineering of plants and its applications-herbicide and stress tolerant plant; biotechnological strategies in forestry and wasteland management.

3.2 Biotechnology in biodiversity conservation: gene banks, germplasm conservation and DNA banks; Genetically modified organisms and Biosafety- a general account.

MODULE-4 APPLICATIONS OF BIOTECHNOLOGY PART I

4.1 Bioenergy, ethanol fermentation; Liquid waste treatment; Bio-filters, activated sludge systems; membrane bioreactors.

4.2 Biotechnological approaches for solid waste management, Vermicomposting.

MODULE-5 APPLICATIONS OF BIOTECHNOLOGY PART II

5.1 Phytotechnology- terrestrial phytosystems, metal phytoremediation; Phytotechnology-aquatic phytosystems, nutrient film techniques, algal treatment systems. Vocational possibilities in field of Environmental Biotechnology.

SUGGESTED READINGS

1. Evans, G. M. and Furlong, J. C. Environmental Biotechnology: Theory and Application. John Wiley and Sons. 2003.
2. Glick, B. R. and Pasternak, J. J. Molecular Biotechnology: Principles and Applications of Recombinant DNA. Washington, D.C. ASN Press. 2007.
3. Horton, H. R., Moran L. A., Perry, M. D. and Rawn, J. D. Principles of Biochemistry, Pearson Education International. 2006.
4. Metcalf and Eddy Wastewater Engineering: Treatment and Reuse. Tata McGraw-Hill, New Delhi. 2003.
5. Sathyanarayanan, B. N. and Varghese, D. B. Plant Tissue Culture Practices and New Experimental Protocols. I.K. International, New Delhi. 2007.

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MES-403: NANOTECHNOLOGY (ELECTIVE)

MODULE-1 INTRODUCTION

1.1 Overview of Nanotechnology and nanoparticles; unique properties of nano-materials, and significance of nanotechnology toward human life.

1.2 Nanomaterials for Environmental Protection: Nano technology processes – Nano Engineering materials for Pollution Prevention, Green Chemistry, Energy efficient resources and materials

MODULE-2 NANO TECHNOLOGY PRODUCTS AND SYNTHESIS

2.1 Nano technology products- Nanomaterials (nanostructures) Nanodevices and nanosystems. Synthesis of Nanomaterials: Synthesis of nano-materials by Physico-chemical approaches.

2.2 Bionancomposites : Nano particles and Microorganisms, Microbial Synthesis of Nano materials, Biological Methods for Synthesis of nano-emulsions using bacteria, Fungi and Actinomycetes, Plants based nanoparticle synthesis, Nano composite biomaterials – Fibers, Devices and Structures, Nano Bio systems.

MODULE-3 NANOTECHNOLOGY IN REMEDIATION

3.1 Identification and characterization of Hazardous waste, Nano Pollution, Air-Water - Soil Contaminants, Identification and Characterization of Organic and inorganics, Environmental cleanup technologies.

3.2 Nano Membranes, Nano Meshes, Nano Fibres, Nano Clays and Adsorbents, Zeolites, Nano Catalysts, Carbon Nano Tubes, Bio Polymers, Single Enzyme Nano particles, Bio Metallic Iron Nano Particles, Nano Semi-Conductors, Photo catalysis, Nano-sensors.

MODULE-4 NANO REMEDIATION TECHNOLOGIES

4.1 Environmental Nano Remediation Technology - Thermal, Physico-Chemical and Biological Methods, Nano Filtration for treatment of waste – removal of organics & inorganics and pathogens, Nanotechnology for water 5 remediation and purification. Treatment of hi-tech industrial waste waters using nano particles/ modified structures/devices. Environmental Benefits of nano-materials.

MODULE-5 SUSTAINABLE NANOTECHNOLOGY

5.1 Application of industrial ecology to nanotechnology, Fate of nanomaterials in environment, environmental life cycle of nano materials

5.2 Environmental and health impacts of nano materials, toxicological threats, eco-toxicology, exposure to nano particles – biological damage, threat posed by nano materials to humans, environmental reconnaissance and surveillance

5.3 Corporate social responsibility for nanotechnology, Nano materials in future - implications

SUGGESTED READINGS

1. Wiesner, M.R., and Bottero, J.Y. (Ed.) "Environmental Nanotechnology: Applications and Impacts of Nanomaterials" McGraw-Hill, New York. 2007.
2. Diallo, M., Duncan, J., Savage, N., Street, A., and Sustich, R. (Eds). "Nanotechnology Applications for Clean Water" William Andrew. 2008.
3. Lead J., and Smith, E. "Environmental and Human Health Impacts of Nanotechnology" John Wiley & Sons. 2009.

4. Mao Hong fan, Chin-pao Huang, Alan E. Bland, Z. Honglin Wang, Rachid Sliman, Ian Wright. Enviro-nanotechnology. Elsevier, 2010.
5. Fulekar, M. H. Nanotechnology: Importance and Application by, IK International. 2010.
6. Steinfeldt, M., Gleich, A., Petschow, U., Haum, R. Nanotechnologies, Hazards and Resource efficiency. Springer. 2007.
7. Jo Anne Shatkin Nanotechnology: Health and Environmental risk. CRC press. 2008.
8. Wiederrcht, G. Handbook of Nanofabrication. Elsevier, 2010.
9. Gabor, L. Hornyak, Dutta, J. Harry, Tibbals, F. and Rao, A. K. Introduction to Nanoscience. CRC Press, 2008.

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MES-404: PRACTICAL I
(MES 402: RESEARCH METHODOLOGY, STATISTICS AND COMPUTER APPLICATIONS)

1. To find out the mean, mode, median of the given data
2. To study random variables community
3. Application of chi-square and T-test for the given data
4. To study the use computer in analysis of environmental data

DISTRIBUTION OF MARKS

1.	Any two experiments based on Statistics	10 Marks
2.	Any one experiment based on Computer Applications	5Marks
3.	Viva-voce	5 Marks
	Total	**20 Marks**

MES-405: PRACTICAL II
(Practical/ field study based on MES-403 Elective)

Environnemental Health

1. Visit to nearby Health Centre and obtain data on incidence of diseases caused due to environmental factors.

Principles of Climatology

1. Familiarization with meteorological instruments and their uses.
2. Describing the: a) climate of an urban area; b) yearly variation in the meteorological data.

Environmental Biotechnology

1. Preparation of different types of microbial culture media
2. Gram staining techniques
3. Isolation, enumeration and identification of microorganisms in soil/water samples
4. MPN techniques for coliform analysis

Nanotechnology

1. Field visit to study application of Nanotechnology in various fields.
2. To Prepare a Report on Nanotechnology In Remediation.

DISTRIBUTION OF MARKS

1.	Any field study report/ activity-based on Environnemental Health/ Environnemental Clearance and Environnemental Audit/ Principles of Climatology/ Environmental Biotechnology/ Nanotechnology	15 Marks
2.	Viva-voce	10 Marks
	Total	**20 Marks**

MES-406: DISSERTATION

In MES-406, the students will undertake field study/experimental study, which will be submitted as dissertation and will be evaluated by external/ internal examiners. The viva- voce/presentations will be conducted by the external/ internal examiners.

Sr. No.	Photo Description
1.	M.Com 1st Year Smart Classroom with ICT Tools
2.	M.Com 2nd Year Smart Classroom with ICT Tools
3.	Computer Lab for Research Scholars
4.	Conference Hall

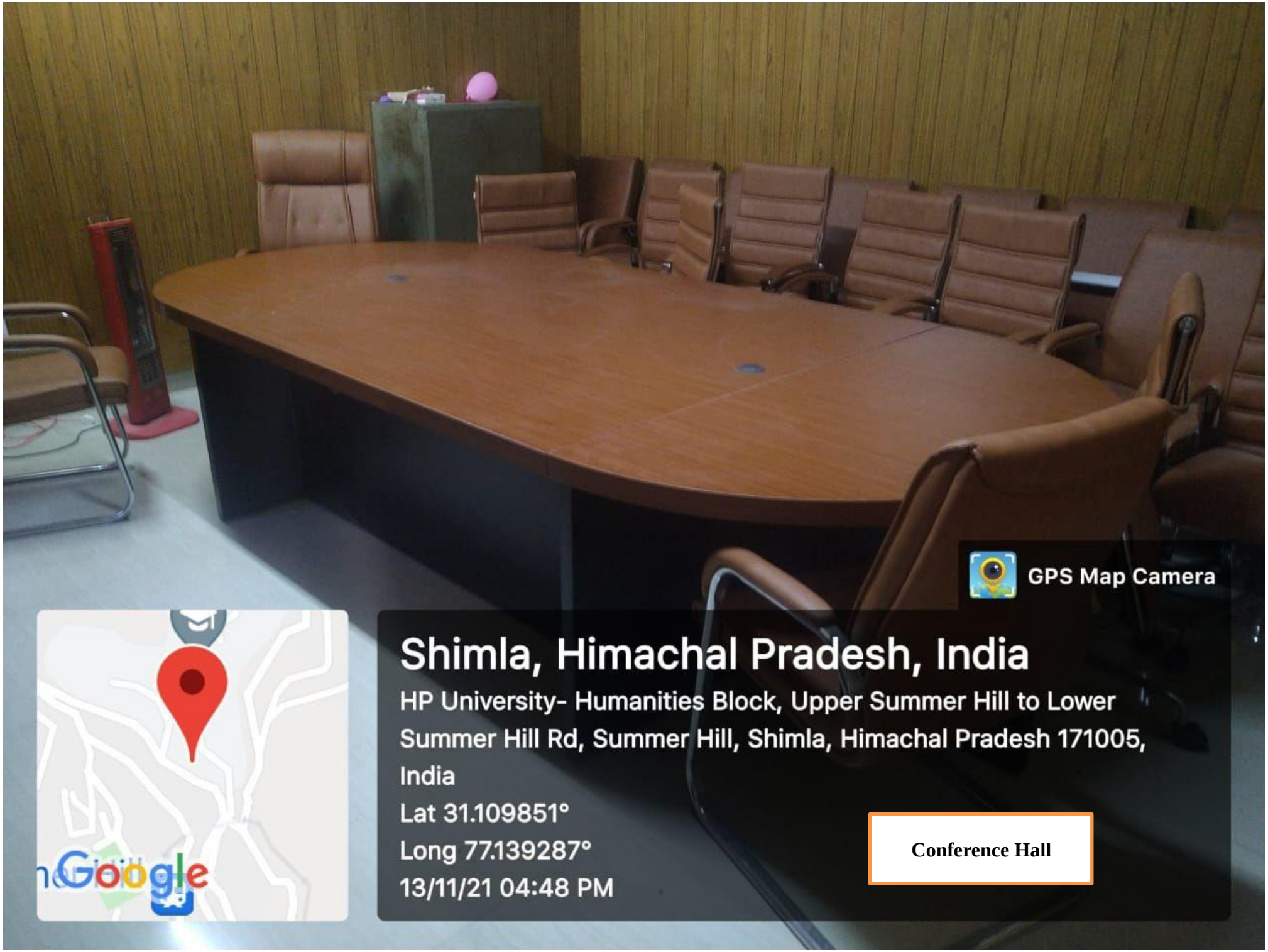


M.Com 1st Year Smart Classroom with ICT Tools



M.Com 2nd Year Smart Classroom with ICT Tools


GPS Map Camera
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Computer Lab for Research Scholars


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Conference Hall

Master of Tourism and Travel Management (CBCS)
(M.T.T.M)
2022 -23 onwards

I. PROGRAMME STRUCTURE

PROGRAM OUTCOME (P.O.)

P.O. 1. The Students gain overall comprehensive knowledge about the tourism industry.
P.O. 2. Students apply knowledge gained through on-the-job training by working in the tourism sector and inculcate leadership skills through various programs.
P.O. 3. The students understand basic foreign languages and communicate with a working knowledge of the foreign language.
P.O. 4. The students gain the ability to communicate effectively with guests and carry out guest relations.
P.O. 5. The students will become able to carry out tourism research and gain the ability to independently conduct tours at different destinations.
P.O. 6. The students can apply the knowledge gained in the course to start their business ventures in tourism.

PROGRAM SPECIFIC OUTCOME (P.S.O.)

P.S.O.1. The students gain overall comprehensive knowledge about the tourism industry.
P.S.O.2. The students understand basic foreign languages and communicate with a working knowledge of the foreign language.
P.S.O.3. The students gain the ability to communicate effectively with guests and carry out guest relations.

The Master of Tourism and Travel Management (MTTM) is a two-year full-time programme. The course structure and programme administration scheme are as follows: -

COURSE STRUCTURE

The programme has been organized in two years –First Year and Second Year, each comprising of two semesters. The list of courses offered during First Year and Second Year of the programme shall be as follows: -

TOTAL Credits for MTTM = 110: TOTAL MARKS=2800

Course No.	Title of the Course	
	1st Semester	**Credits**
	Core Courses	
MTTM-501	Management Practices and Organisation Behaviour	4
MTTM-502	Tourist Resources of India	4
MTTM-503	Travel Agency and Tour Operations Business	4
MTTM-504	Tourism System	4
MTTM-505	Introduction to Hospitality Industry	4
MTTM-506	Foreign Language -German OR -French **Choose any one- The Language opted for in the first semester will have to be continued in the second semester**	4
	Total Credits (1st Semester)	**24**

Note	*After First Semester students are required to take an Educational Tour and then prepare a report for the same which will be evaluated in the Second Semester*	
	2nd Semester	
	Core Courses	
MTTM-507	Interdisciplinary Approaches to Tourism	4
MTTM-508	Tourism Marketing	4
MTTM-509	Tourism Planning and Sustainable Development	4
MTTM-510	Airline Ticketing and Cargo Management	4
MTTM-511	Ethical, Legal and Regulatory Aspects of Tourism	4
MTTM-512	Foreign Language -German OR -French	4
MTTM-513	Educational Trip Report Field work based course	4
	Elective Course (General)	
MTTGE-01	Tourism Products of Himachal Pradesh	4
	Total Credits (2st Semester)	**32**
	3rd Semester **Core Courses**	
MTTM-514	Research Methodology	4
MTTM-515	Leadership Development Camp (AEC/SEC)	2
	Elective Course (Specific) **Students are required to choose a total of four Specific Elective Courses (Two each from two different specializations) as per their area of interest. Minimum fifteen students must be there to start any elective group).** **NOTE: The (two) Specializations chosen by a student in Semester 3 will continue in Semester 4**	
	Travel Trade Specialization – Group I	
TT-01	Itinerary Preparation and Tour Packaging	4
TT-02	Meetings, Incentives, Conferences and Expositions	4
TT-03	Tour Guiding and Interpretation	4
	Tourism Management Specialization –Group II	
TM-01	Entrepreneurship Development in Tourism	4
TM-02	Destination Management	4
TM-03	Strategic Tourism Management	4
	Cultural Tourism Specialization- Group III	
CT-01	Religious Tourism	4
CT-02	Cultural and Heritage Tourism	4
CT-03	Cross Cultural Tourism	4
	Total Credits (3rd Semester)	**22**
	4th Semester	
	Core Course	
MTTM-516	Internship Report Internship based Course Internship Report (The students will be required to undertake 4 months internship after the third semester from 01st January to 30th April. They will return on 1st May along with an internship report and project report (as assigned) to be submitted to the Institute before Final Viva.)	4
MTTM-517	Project Report (Topics will be assigned to students before they leave	4

	for Internship) Field Work based Course	
MTTM-518	**Comprehensive Viva-Voce** (Based on courses taught in all the four Semesters with the primary focus on specialisation courses)	4
	Elective Course (General) /MOOC	
MTTGE-02	Major Tourist Destinations of India	4
	Elective Course (Specific) **Students are required to choose a total of four Specific Elective Courses (Two each from two different specializations) as per their area of interest. The Specialization taken in Semester 3 will continue in this semester, Minimum fifteen students must be there to start any elective group**	
	Travel Trade Specialization – Group I	
TT-04	Outbound Tourism	4
TT-05	Transport Management	4
TT-06	Airport Management	4
	Tourism Management Specialization- Group II	
TM-04	Responsible Tourism	4
TM-05	Crisis and Disaster Management in Tourism	4
TM-06	Human Resource Management	4
	Cultural Tourism Specialization- Group III	
CT-04	Indian History, Art, Culture and Architecture	4
CT-05	Culture and Social Psychology of Tourism	4
CT-06	Culture Preservation and Representation	4
	Total Credits (4th Semester)	32
	Total Credits	**110**
	*Alternative Study Credit Activities** **The students have the option of substituting 4 credits out of 110 with any MOOC Course done during the entire student cycle of 2 years during the MTTM program. The credits will only be substituted if the student gets at least a pass grade in the said subject from the course structure for which he or she wishes to substitute his/her credits with the MOOC Course.**	
ASCA-01	**MOOC Courses**	**4**
	Total Alternative Credits	**4**

MTTM Degree : Total Credits = 110, Total Marks = 2800

SYLLABUS
Bachelor of Tourism Administration (BTA)
(Three years degree course)
Credit System-CBCS
(2013-14)

The BTA Degree program is offered through' *Credit System'*

Total Number of Courses in BTTM= 29

Total Credits for BTA Program = 128 Credits (spread over Three Years and 6 Semesters)

Evaluation and Award of Grades
Weightage of marks: The weightage of marks between continuous Internal Assessment and End Semester Examination shall be 40 and 60 respectively.

Instructions for paper Setters for Theory Papers:
Set ten (10) questions in all. Two questions from each Module. The students are required to attempt Five questions in all, selecting one question from each module. The paper will be of 60 marks. all questions carry equal marks.

SEMESTER - I
TOTAL CREDITS=18

Course code	Title of the course	Total Marks			Credits
		Internal assessment	Semester end exam	Total	
BTTM -1-01	BASICS OF TOURISM	40	60	100	4
BTTM -1-02	BASICS OF MANAGEMENT	40	60	100	5
BTTM -1-03	COMMUNICATION SKILLS	40	60	100	4
BTTM -1-04	TOURISM RESOURCES OF NORTH AND EAST INDIA	40	60	100	5
TOTAL				**400**	**18**

SEMESTER – II-
TOTAL CREDITS=23

Course code	Title of the Course	Total Marks			Credits
		Internal assessment	Semester end exam	Total	
BTTM -2-05	INTRODUCTION TO STATISTICS	40	60	100	5
BTTM -2-06	TOURISM PRODUCTS OF HIMACHAL PRADESH	40	60	100	4
BTTM -2-07	TOURISM MARKETING AND PROMOTION	40	60	100	5
BTTM -2-08	TRAVEL AGENCY AND TOUR OPERATIONS	40	60	100	5
BTTM -2-09	BASICS OF COMPUTER APPLICATIONS	40 (i.e 20-Practical 20-Assessment)	60	100	3 + 1 =4
TOTAL				**500**	**23**

Note

1. **In Course BTA 2-09, practical of 20 marks will be conducted by Internal/External examiner**

SEMESTER III–
TOTAL CREDITS=22

Course code	Title of the course	Total Marks			Credits
		Internal assessment	Semester end exam	Total	
BTTM -3-10	HOTEL OPERATIONS	40	60	100	5
BTTM -3-11	TOURISM RESOURCES OF WEST AND SOUTH INDIA	40	60	100	5
BTTM -3-12	ELEMENTARY FINANCIAL MANAGEMENT AND ACCOUNTING	40	60	100	5
BTTM -3-13	TOURISM GEOGRAPHY AND MAP WORK	40	60	100	4
BTTM -3-14	REPORT OF LDC	----		100	3
TOTAL				**500**	**22**

Note: 2. In Course BTA-3-14, students will be required to go for a Leadership Development Camp organized by the Department. Thereafter they will submit a report on the same which will be evaluated by Internal/External Examiner.

SEMESTER- IV
TOTAL CREDITS=22

Course code	Title of the course	Total Marks			Credits
		Internal assessment	Semester end exam	Total	
BTTM -4-15	OUTBOUND TOURISM	40	60	100	5
BTTM -4-16	TOURISM IMPACTS	40	60	100	4
BTTM -4-17	TOURISM AND ENVIRONMENTAL STUDIES	40	60	100	5
BTTM –4-18	ITINERARY PREPARATION AND COSTING	40	60	100	5
BTTM -4-19	EVENT MANAGEMENT (Min. 3-Max. 15 days) REPORT	---	---	100	3
TOTAL				**500**	**22**

Note: 1. In Course BTA 4-19, students will be required to participate in the management of any event assigned by the Department and will be required to submit a report on their experience in the logistics of event management. The report will be evaluated by External/Internal examiner.

SEMESTER- V
TOTAL CREDITS=23

Course code	Title of the course	Total Marks			Credits
		Internal Assessment	Semester end exam	Total	
BTTM -5-20	BASICS OF RESEARCH	40	60	100	5
BTTM -5-21	GLOBAL TOURISM	40	60	100	5
BTTM -5-22	ECONOMICS OF TOURISM	40	60	100	5
BTTM -5-23	TICKETING AND TRANSPORTATION	40	60	100	5
BTTM -5-24	PROJECT REPORT	---	---	100	3
TOTAL				**500**	**23**

Note: 1. ***In Course BTA 5-24, students will be allotted detailed Project Work. They will be required to carry out research on their topics and will submit a structured project report. The Report will be evaluated by External/Internal Examiner.***

2. The students will be required to undertake Two Months On the Job training (Jan-Feb) after their Vth Semester in any Travel Organization

SEMESTER- VI
TOTAL CREDITS=20

Course code	Title of the course	Total Marks			Credits
		Internal Assessment	Semester end exam	Total	
BTTM -6-25	TRADE RELATED ISSUES AND FRONTIER FORMALITIES	40	60	100	5
BTTM –6-26	ORGANIZATION BEHAVIOUR	40	60	100	5
BTTM -6-27	GOVERNMENT AND TOURISM	40	60	100	4
BTTM -6-28	ON THE JOB TRAINING (two months) REPORT	---	---	100	3
BTTM –6-29	VIVA VOCE	--	---	100	3
TOTAL				**500**	**20**

Note:-

1. For Course BTA 6-28, students will be required to submit their On the Job training report for training undertaken in any travel organization after the completion of the previous (Vth) semester. The detailed work profile, experience and learning will be explained in the report and the report will include a Certificate of training form the organization where the training was undertaken. The Report will be evaluated by External/Internal Examiner.

2. In BTA-6-29, a Comprehensive Final Viva Voce will be conducted for the students to assess their learning of the whole bachelors program. The Viva will be conducted by External / Internal Examiner.

Bachelor in Hotel Management Four-year syllabus– Total Credits 183

Students of Bachelor in Hotel management Course will undergo the course of Studies of four years duration, which will be run on semester basis. The course curriculum of B.H.M is subject to change with the addition of fourth year. The course will comprise 8 semesters viz. Semester I to VIII. After successful completion of the course, students will be awarded a degree in Bachelor in Hotel Management of H.P. University.

BHM Course Curriculum
The course will be spread over eight semesters

Semester 1	**Total Marks=100**			**Credits**
Course	**Theory**	**Internal Assessment**	**Practical**	
BHM-101: Front Office Operations	**50**	**30**	**20**	**4**
BHM-102: Hotel Housekeeping I	**50**	**30**	**20**	**4**
BHM-103: Basic Food & Beverage Service	**50**	**30**	**20**	**4**
BHM-104: Basic Food and Beverage Production	**50**	**30**	**20**	**4**
BHM-105: Food Microbiology and Nutrition	**70**	**30**	**----**	**4**
BHM-106: Communication and Soft Skills	**70**	**30**	**---**	**2**
BHm-107: Practical		**30**	70 (Including Demonstration, Viva Voce, Food Production, F& B Service)	**2**
Semester 1: Total Credits				**24**

Semester II	**Total Marks=100**			**Credits**
Course	**Theory**	**Internal Assessment**	**Practical**	
BHM-201: Hotel Housekeeping II	**50**	**30**	**20**	**4**
BHM-202: Fundamental of Tourism & Tourism Products	**70**	**30**	**--**	**4**
BHM-203: Food & Beverage Service Operation –I	**50**	**30**	**20**	**4**
BHM-204: Food & Beverage Production –I	**50**	**30**	**20**	**4**
BHM-205: Hotel Engineering	**70**	**30**	**----**	**4**
BHM-206: Basics of Computers	**50**	**30**	**20**	**4**
BHm-207: Practical		**30**	**70-** (Including Demonstration, Viva Voce, Housekeeping, Front Office, Computers)	**2**
ENVS2AECC02-Environment Studies	**70**	**30**	**--**	**------**
Semester II: Total Credits				**26**

Semester III	Total Marks=100			Credits
Course	Theory	Internal Assessment	Practical	
BHM-301: Advanced Front Office Operations- 1	50	30	20	4
BHM-302: Hotel Housekeeping Operations III	50	30	20	4
BHM-303: Food & Beverage Service Operations II	50	30	20	4
BHM-304:Food and Beverage Production II	50	30	20	4
BHM-305: Hospitality French	70	30	-------	2
BHM-306: Hospitality Sales & Marketing	70	30	-----	4
BHm-307: Practical		30	70 (Including Viva Voce and Role Playing, Housekeeping)	2
Semester III: Total Credits				24

Semester IV Industrial Exposure Training (IET)

Duration: - Minimum 20 weeks with coverage of all major and minor departments of a full service hotel. (can be substituted with operational training in reputed Fast Food Operations, Airlines, Resorts and Similar Industry in accordance with course curriculum)

Suggested Training Schedule

F&B Service : 4 week
F&B Production : 4 week
Front Office : 4 week
Housekeeping : 4 week
Other : 4 week (HR, Sales & Marketing, Finance etc.)

Documents to be submitted after successful completion of IET

WTO (What to observe) Sheets
Training Log-Book (to be issued by Learning Centre)
Departmental Appraisal Forms
Training Report in 2 Copies (1 for HPU & 1 for LC)
Training Certificate from the concerned Hotel Authority

Semester IV	Total Marks=600	Credits
Industrial Exposure Training (IET)		12
Completed WTO sheets	100	
Industrial Training Report	150	
Industrial Training Log Book	100	
Industrial Training Project (Report)	200	
Presentation	50	
Viva		
Semester IV: Total Credits		12

Semester V				
Course	Total Marks=100			Credits
	Theory	Internal Assessment	Practical	
BHM-501: Front Office Management-I	50	30	20	4
BHM-502: Advanced Accommodation Operations-I	50	30	20	4
BHM-503: Advanced Food & Beverage Service Operations	50	30	20	4
BHM-504: Advanced Food & Beverage Production-1	50	30	20	4
BHM-505: Principles of Management	70	30	--	2
BHM-506: Hotel Accountancy	70	30	---	4
BHm-507: Practical		30	70 (Including Viva Voce Housekeeping, Front Office)	2
Semester V: Total Credits				24

Semester VI				
Course	Total Marks=100			Credits
	Theory	Internal Assessment	Practical	
BHM-601: Front Office Management-Ii	50	30	20	4
BHM-602: Advanced Accommodation Operations-II	50	30	20	4
BHM-603: Food & Beverage Controls	70	30	--	4
BHM-604: Advanced Food & Beverage Production-II	50	30	20	4
BHM-605: Hotel Law	70	30	---	4
BHM-606: Travel Agencies and Tour Operator Operations	70	30	---	2
BHM-607: Practical		30	70 (Including Demonstration Viva Voce, Food Production, F & B)	2
Semester VI: Total Credits				24

Semester VII			Total Marks = 100			Credits
Course Code	Course Type	Course Title	Theory	Internal Assessment	Practical	
BHM701	Theory	Specialization-I	50	30	20	5
BHM702	Practical	Specialization-I	--------	30	70	3
BHM703	Theory	Specialization-II	50	30	20	5
BHM704	Practical	Specialization-II	---------	30	70	3
BHM705	Theory	Principles of Marketing	70	30	-----	3
BHM706	Theory	Personality Development and Soft skills	70	30	-----	3
BHM707	Theory	Entrepreneurship	70	30	-----	3
Semester VII: Total Credits						25

	SPECIALIZATION – I	SPECIALIZATION-II
GROUP A –	Food Production Management	Tandoor-Principle, concept and application
GROUP B	Food& Beverage Service Management	Event Management
GROUP C	Front Office Management	Tour & Tràvel Management
GROUP D	Accommodation Management	Interior Decoration

NOTE: Student has to choose one group out of above as Specialization –I and Specialization-II

The class would be given the choice to pick up one of the specialized streams and the students would be divided in four groups. Each student will have to pick up specialization I and specialization II against the Group Specified.

Semester VIII			Total Marks = 300				Credit
Course Code	Course Title	Contact Hours	Marking Details				
			Training Report	Appraisal	Log book	Viva Voice	
BHM 801	Specialized Hotel Training	22 weeks	100	50	50	100	
Semester VIII: Total Credits							24

HIMACHAL PRADESH UNIVERSITY

(NAAC ACCREDITED 'A' GRADE UNIVERSITY)

DEPARTMENT OF POLITICAL SCIENCE

Syllabus

M.A. POLITICAL SCIENCE

CHOICE BASED CREDIT SYSTEM (CBCS)

(w.e.f. 2022-23)

Himachal Pradesh University

(NAAC Accredited 'A' Grade University)

Department of Political Science

M.A. in Political Science

Guidelines for the Students of M.A. in Political Science

M.A. in Political Science consists of sixteen Courses ((DSC-12; DSE -2; GE -2). The students have to qualify all the papers to complete the degree in Political Science.

Scheme of the Course Division

Semester	Subject Code	Type
Semester I	DSC-POLS 101 to 104	All Compulsory
Semester II	DSC-POLS 201 to 203	All Compulsory
	GEN-POLS 204	Compulsory (Inter-departmental)
Semester III	DSC-POLS 301 to 303	Compulsory
	DSE I-POLS304 to 306	Optional (students have to opt any one out of the three courses)
	* AEC-POLS-307	Democratic Awareness through Legal Literacy
	DSC-POLS 401to 402	Compulsory
	DSE II-POLS 403 to 405 / 406 Dissertation or Project Work	Optional (students have to opt any one out of the three courses or for dissertation or project work)
	GEN-POLS- 406	Compulsory (Inter-departmental)

Semester-I

Course Code: POLS 101

Western Political Thinkers

UNIT-I

1. Plato (Justice, Communism and Philosopher King)
2. Aristotle (Aristotle's Critique of Plato. Slavery, Property, Revolution and Maintaining Constitutional Stability)
3. Machiavelli (Machiavelli's Humanism and Statecraft)

UNIT-II

1. Thomas Hobbes (Human Nature, State of nature, Social Contract, Hobbes as an Individualist and Absolutist), John Locke (Social Contract and Locke as a Liberal Philosopher) and Rousseau (General Will and Critique of Civil Society)
2. John Stuart Mill (Liberty and Representative Government, Subjection of Women)
3. Jeremy Bentham (Utilitarianism)

UNIT-III

1. Immanuel Kant (Cosmopolitanism, Enlightenment)
2. George Wilhelm Friedrich Hegel (Civil Society and State: Views on Individual and Freedom)
3. Karl Marx (Marx on Alienation and Historical Materialism)

UNIT-IV

1. Hannah Arendt (Political Action and Ideas of the Social)
2. JurgenHabermas (Theory of Communicative Action and Public Sphere)
3. John Rawls (Theory of Justice and Political Liberalism)
4. Michel Foucault (Genealogy of Power and Its Relation to Knowledge and Truth)

Semester-I

Course Code: POLS 102

Comparative Politics: Approaches and processes

UNIT-I: COMPARATIVE POLITICS

1. Evolution, Meaning, Nature and Scope of Comparative Politics
2. Comparative Methods and its Limitations
3. Approaches to Study Comparative Politics: (i) Traditional Approaches: Historical Approach, Constitutional Legal Approach, Institutional Approach; (ii) Modern Approaches: Systems Approach, Structural Functional Approach, Marxist Approach, Political Economy Approach, New Institutionalism

UNIT-II: TYPOLOGIES / CLASSIFICATION OF POLITICAL SYSTEM

1. Meaning of Political System and its Typologies
2. Democratic Political Systems: Liberal democratic, Electoral, Majoritarian , Participatory
3. Non- Democratic: Authoritarian, Totalitarian, Military Dictatorship

UNIT-III: POLITICAL PARTIES AND PRESSURE GROUPS

1. Evolution, Meaning, Nature and Functioning Strategies of Political Parties
2. Comparative Study of support base of Political Parties of U.K, U.S.A. and India
3. Meaning and role of Pressure groups in Political systems, Pressure Groups in India

UNIT-IV: POLITICAL PROCESSES

1. Political Participation:- Its Meaning and Importance
2. Forms of Political Participation in U.K, USA, and India
3. Voting Behavior and its Determinants, Patterns of Voting Behavior in India, USA and UK

Semester-I

Course Code: POLS 103

Theories and Concepts of International Relations

UNIT-I

Introduction: Meaning, Nature, Evolution, Scope and Significance

The Great Debates: Idealism-Realism; Realism-Liberalism; Neo-realism-Neo-liberalism

Theory of Idealism: Assumption of Human Behaviour, Foundation of Idealism in IR, Origins of Idealism, Core Principle and Form, Criticism of the School

UNIT- II

Realism: Its Variants and Complements

1. Structural Realism
2. Indian Tradition: Kautilya's Realpolitik
3. Neo-Realism
4. Neo-Liberal Institutionalism
5. The English School

UNIT-III

Alternative Approaches in IR

1. Critical Theory
2. Constructivism
3. Post-Modernism
4. Feminism

UNIT- IV

Concept:

1. State
2. Power
3. National Interest
4. Security: Traditional and Non- Traditional

Semester-I

Course Code: POLS 104

Indian Politics I: Political Institutions

UNIT-I

1. Making of the Indian Constitution: Colonial Legacy and the Contribution of Indian National Movement to the Making of the Indian Constitution
2. Constituent Assembly: Composition, Ideological Moorings: Constitutional Debates.
3. Philosophy of the Constitution: Preamble, Fundamental Rights, Directive Principles of State Policy.

UNIT-II

1. Union Executive: President, Prime Minister and Council of Ministers
2. Union Parliament: Structure, Role and Functions.
3. Judiciary: Supreme Court, High Court, Judicial Review, Judicial Activism.

UNIT-III

1. Federalism in India: Strong Centre Framework
2. Asymmetrical Federal Provision: Article 370, Article 371, V and VI Schedule,.
3. Intergovernmental Bodies: NITI Aayog, Inter-State Council, Finance Commission, National Integration Council.

UNIT-IV

1. Election Commission of India, Electoral Reforms
2. Constitutional Bodies: National Commission for SC and National Commission for ST
3. Statutory Bodies: National Commission for Human Rights, National Commission for Women

Semester-II

Course Code: POLS 201

Contemporary Debates in Political Theory

UNIT-I

1. Nature and Significance of Political Theory, Major Schools (Classical, Liberal, Marxist, Empirical Scientific and Contemporary)
2. Debate about the Decline and Resurgence of Political theory
3. Historicism (Meaning, Debates and Karl Popper's critique), Positivism: August Comte's ideas, Logical Positivism and Critique of Positivism

UNIT-II

1. Libertarianism and Communitarianism
2. Marxism and Neo Marxism

UNIT-III

1. Post Modernism and Multiculturalism
2. Environmentalism and Eco-feminism

UNIT-IV

1. Structuralism and Post Structuralism
2. Orientalism and Existentialism

Semester-II

Course Code: POLS 202

Comparative Political Analysis: Concepts and Recent Theories

UNIT-I: CONCEPTS IN COMPARATIVE POLITICS

1. Political Culture and Political Socialization
2. Political Development, Political Modernization and Political Decay
3. Classical Political Elite Theory, Concept of Power Elite and Democratic Elitism (Mosca, Pareto, Michels, C. Wright Mills and Schumpeter)

UNIT-II: DEVELOPMENT THEORIES AND PROCESS OF DEMOCRATIZATION

1. Theories of Modernization and Post colonial Concept of Underdevelopment
2. Dependency, World System Theory and Theory of Unequal Exchange (with Special Reference to A.G. Frank, Wallerstein, Samir Amin)
3. Process of Democratization and Waves of Democratization (Samuel P. Huntington) and Present Debate on Development and Democracy

UNIT-III : CONSTITUTIONALISM

1. Evolution of the Concept of Constitutionalism, its meaning and Characteristics
2. Elements and Foundations of Constitutionalism, Crisis and Prospects of Constitutionalism
3. Concept of Constitutionalism : Western and Marxist

UNIT-IV: THE STATE IN COMPARATIVE PERSPECTIVE

1. Defining the Concept of State and Recent Development in State Theory
2. The Advanced Capitalist State and the Socialist State
3. Globalization and the State

Semester-II

Course Code: POLS 203

Indian Politics II: Political Processes

UNIT-I

1. Approaches to the Study of Political Processes: Legal-Institutional, Sociological and Political Economy
2. Historical Legacies: Pre-Colonial and Colonial
3. State in India: Nationalist Imagination

UNIT-II

1. Politics of Identity: Caste and Tribe
2. Politics of Language and Region
3. Gender and Politics: Women Movement

UNIT-III

1. Agrarian Development Policy
2. New Economic Policy: Social and Economic Implications
3. State and Welfare: MNREGA, JNNURM

UNIT-IV

1. Electoral Politics: Participation, Contestation, Representation
2. Ideology and Social Basis of Political Parties: Congress and BJP
3. Ideology and Social Basic of State Parties: SAD and National Conference

Semester-II

POLS 204

India and the World

UNIT-I

1. World Power Structure: Evolution and Trends
2. National Interest and National Power
3. Diplomacy: Concept, Types and Nature
4. War: Meaning, Nature and Types

UNIT-II

India's Changing World View

1. India's world view during the cold war period
2. India and IBSA and BRICS: A Political economy perspective
3. India as an Emerging Power: Strengths and Challenges
4. India's Policy towards US and China

UNIT-III

India's Policy Perspective on Asia

1. India's South Asia Policy: Bilateral and Multilateral perspectives
2. India's shift from Look East to Act East
3. Changing Contours of India's West Asia Policy
4. India's Policy towards Central Asia

UNIT-IV

India and Global Issues

1. India's Nuclear Policy: Quest for Energy Security
2. India and Geopolitics of Indian Ocean
3. India and Politics on Climate Change
4. India and Water Disputes

Semester-III

Course Code: POLS 301

Indian Political Thinkers

UNIT-I

1. Dharamshastra.
2. Kautilya: Origin and Role, Elements of State, Statecraft, Relation between Ethics and Politics.
3. DayanandaSaraswati: Monotheism and Indian Nationalism.

UNIT-II

1. BalgangadharTilak : Concept of Swaraj.
2. Vivekananda : Ideas on Nationalism, Freedom and Social Philosophy.
3. AurobindoGhosh : On Nationalism, Ideal of Human Unity, Aurobindo's Critique of Reason, Views on Freedom.

UNIT-III

1. Mahatma Gandhi : Ends and Means, Religion and Politics, Trusteeship, Hind Swaraj.
2. SardarVallabhbhaiPatel : National Integration and Service.
3. V.D.Savakar : Interpretation of Indian History, Concept of Hindutva.

UNIT-IV

1. Jawaharlal Nehru: Concept of Democratic Socialism, Concept of Secularism, Nehru's Model of Nation Building, Nationalism and Internationalism.
2. Dr. B.R. Ambedkar : Views on Varna System and Annihilation of Caste, Social justice, Views on Nationality and Concept of Indian Polity.
3. BhagatSingh : Impact of Marxism, Ideas on Revolution, Vision of Independent India, Concept of Atheism and Concept of Secularism.

Semester III

Course Code: POLS 302

India's Foreign Policy

UNIT-I: FOREIGN POLICY: HISTORY & CONTINUITY

1. Foreign Policy of India: Historical and Cultural Roots
2. Continuity and Change: Principal Phases of Indian Foreign Policy
3. Determinant of Policy Making
4. India and Non-Alignment Movement, NAM and its Contemporary Relevance

UNIT-II: INDIA AND SOUTH ASIA

1. India and Pakistan
2. India and Bangladesh
3. India and Sri Lanka
4. India and Nepal

UNIT-III: INDIA AND THE CHANGING WORLD ORDER

1. Foreign Policy and the Changing World Order
2. End of Bipolarity, Unipolarity and the Emerging Patterns of Global Order
3. The Changing Environment: Nuclear Non-proliferation, Terrorism and Outer Space

UNIT-IV: INDIA AS AN EMERGING POWER

1. India and the US, EU and Russia
2. India's Relations with China and South-East Asia
3. India and the UN, WTO, IMF, IBRD, ADB
4. India as a New Global Economic Power

Semester-III

Course Code: POLS 303

Recent Trends in Politics of South Asia (SAARC Countries)

UNIT-I

South Asia as Distinct sub-system

1. Historical Background of South Asian Countries
2. Strategic Significance and Political Geography of South Asian-Subsystem
3. Social and Demographic Composition of the South Asian countries along with the Level of Economic Development of the South Asian Countries

UNIT-II

Political System of the Region

1. Constitutional Development of the Countries of the Region
2. Nature of Political Systems and the Party System of the Countries of the region
3. Areas of Cooperation and Conflict among Countries

UNIT-III

Emerging Issues in South Asian region

1. Religion, Ethnicity and Language
2. Issues of Human Rights in Relation to Refugees and Stateless in South Asia
3. Terrorism and People's Movement in the South Asian Countries

UNIT-IV

External Factors in South Asian Region

1. Interests of Superpowers in South Asian Region (USA and Russia)
2. China as a factor in South Asian region
3. Strategic Inclusion of Afghanistan in SAARC

Semester-III

Course Code: POLS 304

International Organisations

UNIT-I

1. International Organisation: Concepts and Evolution Trajectory
2. Theoretical Approaches to the Study of International Organization: Classical, Neo-Realist, Functionalist, Conflict Resolution, World Society Approach and the Marxist Approach

UNIT- II

The United Nations:

1. Formation, Aims, Objectives, Structure and Major Specialized Agencies
2. United Nations and Maintenance of International Peace and Security
3. Collective Security and Its Alternative

UNIT-III

Regional Organisations: Concept, Factors of Regionalisation, Major Regional Organisations:

1. SAARC: Role and Major Challenges
2. European Union: European Integration, Evolution, Formation of European Union, Common Foreign and Security Policy, Present Challenges

UNIT- IV

1. ASEAN: History, Facts and Relevance
2. SCO: Role Relevance and Impact of Sino-Russian Relations

Semester-III

Course Code: POLS 305

Research Methods and Research Ethics

UNIT-I

1. Defining Social Science Research: Meaning and Nature.
2. Scope of Research in Political Science and Relevance of Social Science Research to Society.
3. Types of research: Descriptive Empirical, Analytical and Historical.

UNIT-II

1. Fact Value Controversy. The Question of Value Neutrality.
2. Theoretical and Empirical Aspects of Research, Qualitative and Quantitative.
3. Various Methods for Research: Inductive, Deductive, Comparative, Ethnographic, Case Study Methods and Mixed Methods.

UNIT-III

1. Types of Data: Primary Data, Secondary Data and Web Sources.
2. Tools and Techniques of Data Collection: Survey and Field work, Content Analysis, Interview and Questionnaires, Participant and Non-Participant Observations.
3. Sample and Sampling Procedure, Tabulation and Interpretation of Data.

UNIT-IV

1. Problem and Problem Formulation. Relevance and Justification of Problem.
2. Types of Research Design, Steps of Preparing the Research Design.
3. Report Writing, Chapterization, References and Footnotes, Bibliography, Appendix.

Semester-III

Course Code: POLS 306

Social Movements in India

UNIT-I

1. National Movement: Socio-Religious Reforms and the National Awakening
2. Agrarian Movements: Issues of Land Reforms and Farmer's Movements
3. Tribal Movements in India

UNIT-II

1. Labour Movement: Trade Unionism
2. Anti-Caste Movement: Dalit Movement
3. Politics of Reservation: OBC

UNIT-III

1. Women's Movement
2. Students Movement
3. Ethnic Movement for Autonomy

UNIT-IV

1. Environment Movements
2. Anti-Corruption Movement
3. Role of NGO

Semester-III

AEC Course

Course Code-POLS-307

Environment and Politics

Environment and Politics

UNIT-I: Basic Understanding of Environment

1. Environment: Meaning, Features and its Importance
2. Ecosystem: Its Properties and Dynamics
3. Ecology: Meaning and Types

UNIT-II: Environment and Social Theory

1. Eco-Centrism and Anthropo-Centrism
2. Green Politics
3. Eco-Feminism

UNIT-III: Environmental Movements

1. Rise of Environmental Movements (Global)
2. Environment Movements in India
3. Environment and Sustainable Development

UNIT-IV: Environmental Issues and Policies

1. Climate Change: Meaning, Factors and its Impact
2. Impact of Dam on the Environment, Issue of Displacement and Land Degradation
3. Policies for Protection of Environment in India

Semester-IV

Course Code: POLS 401

Public International Law

UNIT-I: PUBLIC INTERNATIONAL LAW

1. International Law, Meaning, Nature and Sources
2. International Law and Municipal Law
3. Codification and Progressive Development of International Law
4. Individual, Human Rights and International Law

UNIT-II: LAW OF PEACE

1. Recognition and Asylum
2. Changing Nature of Law of Sea
3. Space and Outer Space
4. Piracy and Hijacking

UNIT-III: LAWS OF WAR

1. General Laws of War
2. Changing Nature of War in 21st Century
3. Pacific and Forcible Methods of Settlement of Disputes
4. War Crimes and Treatment of Prisoners of War

UNIT-IV: LAWS OF NEUTRALITY

1. Neutrality, Its changing nature in Twentieth and Twenty First Century
2. Rights and Duties of Neutral States and Belligerents
3. Blockade, Embargo and Contraband

Semester-IV

Course Code: POLS 402

State Politics in India with Special Reference to Himachal Pradesh

UNIT-I

1. State Politics: Concept, Nature and Scope
2. Approaches to Study State Politics: Myron Weiner and IqbalNarain
3. Need and Significance of State Politics

UNIT-II

1. Democratic Movement in Himachal Pradesh with Special Reference to PrajaMandal
2. Emergence of Himachal Pradesh: Part C State to Full Fledged State.
3. Political Geography (Old Himachal and New Himachal), Administrative set-up of the State Himachal Pradesh.

UNIT-III

1. Post-Statehood Politics of Himachal Pradesh: Problem of Regionalism and Sub-Regionalism
2. Electoral Politics, Voting Behaviour and Party System in Himachal Pradesh.
3. Identity Politics in Himachal Pradesh with Special Reference to Caste, Tribe and Gender

UNIT-IV

1. Political Economy of Himachal Pradesh with Special Reference to Horticulture, Agriculture, and Tourism.
2. Impact of Information Technology in Himachal Pradesh: E-governance, Power Projects, Mining and Environment Issues.
3. Grass-root Politics in Himachal Pradesh after 73rd and 74th Constitutional Amendment.

Semester-IV

Course Code: POLS 403

Public Policy and Governance in India

UNIT-I

1. Public Policy: Concept, Nature and Scope
2. Role of Public Policy in Socio-Economic Development
3. Policy Making Process

UNIT-II

1. Approaches to Study the Public Policy: Rational Choice Approach, Incremental Model and Public Choice Theory
2. Condition for making a Public Policy: Internal and External
3. Gender issues and Public Policy

UNIT-III

1. Governance: Concept and Models
2. E-Governance and Public Administration: Role of State, Civil Society and Individuals
3. Accountability and Institutional Mechanism of Control

UNIT-IV

1. Corruption and Anti Corruption Bodies: Ombudsman, Lokpal and Lokayukta
2. Bureaucracy and Governance
3. Governance Issues and Challenges

Semester-IV

Course Code: POLS 404

Contemporary Political Thinkers

UNIT-I

1. Frantz Fanon (Race, Culture and Class Justification)
2. Martha Craven Nussbaum (Political Emotion)

UNIT-II

1. Carl Schmitt (Sovereignty)
2. GorgioAgamben (State of Exception)

UNIT-III

1. Herbert Marcuse (Critique of Capitalism, One Dimensional Man)
2. Oakeshott (The Rationalist in Politics and Politics and law)

UNIT-IV

1. Mahatma Gandhi (Conflict Resolution)
2. AmratyaSen (Justice, Capability and Freedom)

Semester-IV

Course Code: POLS 405

Contemporary World Politics

UNIT-I

1. World Wars their Causes and Consequences, Decline of Balance of Power
2. Emergence of Super Powers, Bipolarity and Cold War
3. End of Cold War and Its Impact on World Politics

UNIT- II

1. UN: Objectives, Role and Achievements
2. Reconstruction of Europe
3. The Shifting Scene in Asia

UNIT- III

1. Disarmament and Arm Control
2. Nuclear Non-Proliferation Regime
3. Globalisation and Interest of Developing Countries

UNIT- IV

1. Arab Spring, Orange Revolution, Syrian Crisis, South China Sea conflict
2. Migration: The Evolution of an International Refugee Regime, Challenges to State Sovereignty, Demographic Challenges, Politics of Resentment, Economic Considerations.
3. Environmental Issues on International Agenda and Climate Change

Note: DSE II-POLS 406 is for Dissertation or Project Work

Semester-IV

Course Code: POLS 407

International Political Economy

UNIT-I

Concepts, Theories and Evolution

1. Concept of Political Economy: Meaning and Characteristics
2. Theories of Political Economy: Liberal, Neo-Liberal, Marxist and Neo-Marxist and World System Theory
3. Political Economy of Globalisation

UNIT-III

International Monetary System

1. Bretton Woods System
2. North-South Issues
3. WTO and Emergence of Neo-Liberal regime

UNIT-III

Knowledge and Technology

1. Knowledge based economy
2. Science and Technology as source of change
3. Regionalisation and globalization

UNIT-IV

Contemporary Issues

1. Oil and Politics
2. Sustainable Development: UNDP and Millennium Development Goals
3. Emergence of New Economic Powers: Impact on International Economic Order