**IMPORTANT NOTICE**

The newly admitted students of all the Honours courses in Semester-I and the existing students of Semester-III are urgently required to exercise their option for Generic Elective Paper No. 1.4 and 3.4 respectively. It is to be noted that student admitted in one department’s course has to study the Generic Elective paper being offered by other department. For example a student admitted in B.A. (Hons.) Economics has to study the Generic Elective Paper offered by other departments (e.g. Commerce, Pol.Sc., Math, History, English, Computer Sc. etc.)

The list of papers offered by different departments are given below:

<table>
<thead>
<tr>
<th>Department of Commerce (Meant for students of B.A. (Hons.) Economics, B.B.A. (Hons.) B.Sc. (Hons.) Computer Science, B.A. (Hons.) History)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Semester-I</strong></td>
</tr>
<tr>
<td>Paper Name - (i) Insurance and Risk Management</td>
</tr>
<tr>
<td><strong>Semester-III</strong> – Any one of the following two offered by the department:</td>
</tr>
<tr>
<td>Paper Name - (i) Business Statistics</td>
</tr>
<tr>
<td>(ii) Project Management</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department of Economics (Meant for students of B.Com. (Hons.), B.P.F. (Hons.) B.Sc. (Hons.) Computer Science, B.A. (Hons.) History)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Semester-I</strong> - Any one of the following offered by the department</td>
</tr>
<tr>
<td>Paper Name - (i) Introductory Microeconomics</td>
</tr>
<tr>
<td>(ii) Economics History of India</td>
</tr>
<tr>
<td><strong>Semester-III</strong>- Any one of the following offered by the department</td>
</tr>
<tr>
<td>Paper Name - (i) Indian Economy - I</td>
</tr>
<tr>
<td>(iii) Money and Banking</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department of English (Meant for students of all Honours Courses)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Semester-I</strong> - Any one of the following offered by the department</td>
</tr>
<tr>
<td>Paper Name - (i) Media and Communication Skill</td>
</tr>
<tr>
<td>(ii) Text and Performance</td>
</tr>
<tr>
<td><strong>Semester-III</strong> - Any one of the following offered by the department</td>
</tr>
<tr>
<td>Paper Name - (i) Contemporary India: Women and Empowerment</td>
</tr>
<tr>
<td>(ii) Language, Literature and Culture</td>
</tr>
</tbody>
</table>
IV- Department of Mathematics (Meant for students of all Honours Courses)

Semester-I
Paper Name - (i) Calculus

Semester-III
Paper Name - (i) Differential Equations

V- Department of Hindi (Meant for students of all Honours Courses)

Semester-I
Paper Name - (i) Hindi Cinema Aur Uskaa Adhyayan

Semester-III
Paper Name - (i) Bhasha Aur Samaj

VI- Department of History (Meant for students of all Honours Courses except History (Hons.))

Semester-I
Paper Name - (i) Environmental Issues in India

Semester-III
Paper Name - (i) Delhi- Medieval

VII- Department of Computer Science (Meant for students of all Honours Courses except B.Sc. (Hons.) Computer Science)

Semester-I
Paper Name - (i) Introduction to Programming

Semester-III
Paper Name - (i) Computer Networks and Internet Technologies

VIII- Department of Political Science (Meant for students of all Honours Courses)

Semester-I
Paper Name - (i) Nationalism in India

Semester-III
Paper Name - (i) Gandhi in Contemporary World
Please Note: For any option to be given, a minimum of 20 students are required. If number of students opting for a particular option are below 20 then option will not be given.

Option Form is available in College's Office/College Website. Same is to be deposited in Office.

Dr. Surender Singh
Convenor
Allocation of the AECC and Generic Papers Committee

Encl.

Copies of the syllabus of different papers offered by various departments.

C.C. to:
- The Principal
- College Notice Board
- All Teachers-in-Charge
- College Website
Duration: 3 hrs.

Objective: To develop an understanding among students about identifying, analyzing, and managing various types of risk. Besides, the students will be in a position to understand principles of insurance and its usefulness in business, along with its regulatory framework.

Unit I:
Concept of Risk, Types of Risk, Managing Risk, Sources and Measurement of Risk, Risk Evaluation and Prediction, Disaster Risk Management, Risk Retention and Transfer.

Unit II:
Concept of Insurance, Need for Insurance, Globalization of Insurance Sector, Reinsurance, Co-insurance, Assignment, Endowment

Unit III:

Unit IV:

Suggested Readings:
3. All the three modules of Insurance and Risk Management by Institute of Chartered Accountants of India
5. Mishra, M. N. Principles and Practices of Insurance. S. Chand and Sons
7. Black, K. and H.D. Skipper, Life and Health Insurance. Pearson Education
10. Farnell, B.S. Elements of Insurance. Macdonald & Evans Ltd.

Note: Latest edition of text book may be used.
Objective: To familiarize students with the basic statistical tools used to summarize and analyze quantitative information for decision making.

Unit I: Statistical Data and Descriptive Statistics
1.1 Measures of Central Tendency
   a) Mathematical averages including arithmetic mean, geometric mean and harmonic mean. Properties and applications.
   b) Positional Averages: 
      Mode and Median (and other partition values including quartiles, deciles, and percentiles) (including graphic determination)
      Range, quartile deviation, mean deviation, standard deviation, and their coefficients, Properties of standard deviation/variance
1.2 Measures of Variation: absolute and relative.
1.3 Moments: Calculation and significance. Skewness: Meaning, Measurement using Karl Pearson and Bowley's measures; Concept of Kurtosis

Unit II: Probability and Probability Distributions
2.1 Theory of Probability. Approaches to the calculation of probability
2.2 Calculation of event probabilities. Addition and multiplication laws of probability (Proof not required)
2.3 Conditional probability and Bayes' Theorem (Proof not required)
2.4 Expectation and variance of a random variable
2.5 Probability distributions:
   a) Binomial distribution: Probability distribution function, Constants, Shape, Fitting of binomial distribution
   b) Poisson distribution: Probability function, (including Poisson approximation to binomial distribution), Constants, Fitting of Poisson distribution
   c) Normal distribution: Probability distribution function, Properties of normal curve, Calculation of probabilities

Unit III: Simple Correlation and Regression Analysis
3.1 Correlation Analysis. Meaning of Correlation: simple, multiple and partial; linear and non-linear, Correlation and Causation, Scatter diagram, Pearson's co-efficient of correlation calculation and properties (proofs not required), Correlation and Probable error; Rank Correlation
3.2 Regression Analysis. Principle of least-squares and regression lines, Regression equations and estimation; Properties of regression coefficients; Relationship between Correlation and Regression coefficients; Standard Error of Estimate

Unit IV: Index Numbers
4.1 Meaning and uses of index numbers. Construction of index numbers: fixed and chain
base: univariate and composite. Aggregative and average of relatives - simple and weighted

4.2 Tests of adequacy of index numbers, Base shifting, splicing and deflating. Problems in the construction of index numbers

4.3 Construction of consumer price indices. Important share price indices, including BSE SENSEX and NSE NIFTY

Unit V: Time Series Analysis

5.1 Time Series Data; Components of time series. Additive and multiplicative models

5.2 Trend analysis. Fitting of trend line using principle of least squares - linear, second degree parabola and exponential. Conversion of annual linear trend equation to quarterly/monthly basis and vice-versa; Moving averages

5.3 Seasonal variations- Calculation of Seasonal Indices using Simple averages, Ratio-to-trend, and Ratio-to-moving averages methods. Uses of Seasonal Indices

UNIT VI: Sampling Concepts, Sampling Distributions and Estimation

Populations and samples, Parameters and Statistics, Descriptive and inferential statistics. Sampling methods including Simple Random sampling, Stratified sampling, Systematic sampling, Judgement sampling and Convenience sampling.

Concept of Sampling distributions and Theory of Estimation: Point and Interval estimation of means (large samples) and proportions.

Practical Lab

The students will be familiarized with software (Spreadsheet and/or SPSS) and the statistical and other functions contained therein related to formation of frequency distributions and calculation of averages, measures of Dispersion and variation, correlation and regression co-efficient.

Suggested Readings:


Note: Latest edition of text books may be used.
Duration: 3 hrs.

Objective: To enable the student to evolve a suitable framework for the preparation, appraisal, monitoring and control and hedge risk of industrial project.

Unit I: Introduction
Objectives of Project Planning, monitoring and control of investment projects. Relevance of social cost benefit analysis, identification of investment opportunities, Pre-feasibility studies.

Unit II: Project Preparation
Technical feasibility, Marketing feasibility and Technical feasibility, estimation of costs, demand analysis and commercial viability, risk analysis, collaboration arrangements, financial planning, estimation of fund requirements, sources of funds, loan syndication for the projects, tax considerations in project preparation and the legal aspects.

Unit III: Project Appraisal
Business criteria of growth, liquidity and profitability, social cost benefit analysis in public and private sectors, investment criteria and choice of techniques. Estimation of shadow prices and social discount rate.

Unit IV: Issues in Project Planning and Management
Cost and Time Management Issues in Project planning and management.

Suggested Readings:

Note: Latest edition of text books may be used.
Generic Elective in Economics I: Introductory Microeconomics

Course Description

This course is designed to expose the students to the basic principles of microeconomic theory. The emphasis will be on thinking like an economist and the course will illustrate how microeconomic concepts can be applied to analyze real-life situations.

Course Outline

1. Exploring the subject matter of Economics
   Why study economics? Scope and method of economics; the economic problem: scarcity and choice; the question of what to produce and how to distribute output; science of economics; the basic competitive model; prices, property rights and profits; incentives and information; rationing; opportunity sets; economic systems; reading and working with graphs.

   Markets and competition; determinants of individual demand/supply; demand/supply schedule and demand/supply curve; market versus individual demand/supply; shifts in the demand/supply curve, demand and supply together; how prices allocate resources; elasticity and its application; controls on prices; taxes and the costs of taxation; consumer surplus; producer surplus and the efficiency of the markets.

3. The Households
   The consumption decision - budget constraint, consumption and income/price changes; demand for all other goods and price changes; description of preferences (representing preferences with indifference curves); properties of indifference curves; consumer's optimum choice; income and substitution effects; labour supply and savings decision - choice between leisure and consumption.

4. The Firm and Perfect Market Structure
   Behaviour of profit maximizing firms and the production process; short run costs and output decisions; costs and output in the long run.

5. Imperfect Market Structure
   Monopoly and anti-trust policy; government policies towards competition; imperfect competition.

6. Input Markets
   Labour and land markets - basic concepts (derived demand, productivity of an input, marginal productivity of labour, marginal revenue product); demand for labour; input demand curves; shifts in input demand curves; competitive labour markets; and labour markets and public policy.
Readings

Generic Elective in Economics LV(b): Economic History of India 1857-1947

Course Description

This course analyses key aspects of Indian economic development during the second half of British colonial rule. In doing so, it investigates the place of the Indian economy in the wider colonial context, and the mechanisms that linked economic development in India to the compulsions of colonial rule. This course links directly to the course on India’s economic development after independence in 1947.

Course Outline

1. Introduction: Colonial India: Background and Introduction
   Overview of colonial economy.

2. Macro Trends
   National Income; population; occupational structure.

3. Agriculture
   Agrarian structure and land relations; agricultural markets and institutions – credit, commerce and technology; trends in performance and productivity; famines.

4. Railways and Industry
   Railways: the de-industrialisation debate; evolution of entrepreneurial and industrial structure; nature of industrialisation in the interwar period; constraints to industrial breakthrough; labor relations.

5. Economy and State in the Imperial Context
   The imperial priorities and the Indian economy; drain of wealth; international trade, capital flows and the colonial economy – changes and continuities; government and fiscal policy.

Readings:

Chapter 4.
11. MD Morris, Emergence of an Industrial Labour Force in India, OUP 1965, Chapter 11, Summary and Conclusions.

Background reading for students:


Generic Elective in Economics III(a): Indian Economy-I

Course Description

Using appropriate analytical frameworks, this course reviews major trends in economic indicators and policy debates in India in the post-Independence period, with particular emphasis on paradigm shifts and turning points.

Course Outline

1. Economic Development since Independence
   Major features of the economy at independence; growth and development under different policy regimes—goals, constraints, institutions and policy framework; an assessment of performance—sustainability and regional contrasts; structural change, savings and investment.

2. Population and Human Development
   Demographic trends and issues; education; health and malnutrition.

3. Growth and Distribution
   Trends and policies in poverty; inequality and unemployment.

4. International Comparisons

Readings:

Generic Elective in Economics III(b): Money and Banking

Course Description

This course exposes students to the theory and functioning of the monetary and financial sectors of the economy. It highlights the organization, structure and role of financial markets and institutions. It also discusses interest rates, monetary management and instruments of monetary control. Financial and banking sector reforms and monetary policy with special reference to India are also covered.

Course Outline

1. Money
   Concept, functions, measurement; theories of money supply determination.

2. Financial Institutions, Markets, Instruments and Financial Innovations
   a. Role of financial markets and institutions; problem of asymmetric information – adverse selection and moral hazard; financial crises.

   b. Money and capital markets: organization, structure and reforms in India; role of financial derivatives and other innovations.

3. Interest Rates
   Determination; sources of interest rate differentials; theories of term structure of interest rates; interest rates in India.

4. Banking System
b. Indian banking system: Changing role and structure; banking sector reforms.

5. Central Banking and Monetary Policy
Functions, balance sheet, goals, targets, indicators and instruments of monetary control; monetary management in an open economy; current monetary policy of India.

Readings

**Generic Elective in Economics III(c): Environmental Economics**

**Course Description**

This course introduces students to concepts, methods and policy options in managing the environment using tools of economic analysis. This course should be accessible to anyone with an analytical mind and familiarity with basic concepts of economics. Since several environmental problems are caused by economic activity (for instance, carbon emissions, over-harvesting of renewable resources and air and water pollution as a by-product of industrial activity), this course examines different approaches to adjusting behaviour through economic institutions such as markets and incentives as well as through regulation, etc. It also addresses the economic implications of environmental policies through practical applications of methods for valuation of environmental goods and services and quantification of environmental damages. Conversely, the impact of economic growth on the environment is also addressed under the rubric of sustainable development. Environmental problems and issues from the India and international context (especially global warming) are used to illustrate the concepts and methods presented in the course. The course will be useful for students aiming towards careers in the government sector, policy analysis, business, journalism and international organisations.

**Course Outline**
GENERIC ELECTIVE (ENGLISH)
SEMESTER -1

Option1: Media and Communication Skills

Or

Option 2: Text and Performance

Detailed Syllabus

Option 1

Media and Communication Skills

1. Introduction to Mass Communication
   1. Mass Communication and Globalization
   2. Forms of Mass Communication

Topics for Student Presentations:
   a. Case studies on current issues Indian journalism
   b. Performing street plays
   c. Writing pamphlets and posters, etc.

2. Advertisement
   1. Types of advertisements
   2. Advertising ethics
   3. How to create advertisements/storyboards

Topics for Student Presentations:
   a. Creating an advertisement/visualization
   b. Enacting an advertisement in a group
   c. Creating jingles and taglines
3. Media Writing
   1. Scriptwriting for TV and Radio
   2. Writing News Reports and Editorials
   3. Editing for Print and Online Media

Topics for Student Presentations:
   a. Script writing for a TV news/panel discussion/radio programme/hosting radio programmes on community radio
   b. Writing news reports/book reviews/film reviews/TV program reviews/interviews
   c. Editing articles
   d. Writing an editorial on a topical subject

4. Introduction to Cyber Media and Social Media
   1. Types of Social Media
   2. The Impact of Social Media
   3. Introduction to Cyber Media

Option 2

Text and Performance

1. Introduction
   1. Introduction to theories of Performance
   2. Historical overview of Western and Indian theatre
   3. Forms and Periods: Classical, Contemporary, Stylized, Naturalist

Topics for Student Presentations:
   a. Perspectives on theatre and performance
   b. Historical development of theatrical forms
   c. Folk traditions

2. Theatrical Forms and Practices
   1. Types of theatre, semiotics of performative spaces, e.g. proscenium 'in the round', amphitheatre, open-air, etc.
   2. Voice, speech: body movement, gestures and techniques (traditional and contemporary), floor exercises: improvisation/characterization

Topics for Student Presentations:
   a. On the different types of performative space in practice
   b. Poetry reading, elocution, expressive gestures, and choreographed movement
3. Theories of Drama
   1. Theories and demonstrations of acting: Stanislavsky, Brecht
   2. Bharata

Topics for Student Presentations:
   a. Acting short solo/ group performances followed by discussion and analysis with application of theoretical perspectives

4. Theatrical Production
   1. Direction, production, stage props, costume, lighting, backstage support.

Topics for Student Presentations:
   a. All aspects of production and performance; recording, archiving, interviewing performers and data collection.
GENERIC ELECTIVE (ENGLISH)

SEMESTER -III

Option 1: Contemporary India: Women and Empowerment

Or

Option 2: Language, Literature and Culture

Detailed Syllabus

(Option-1)

Contemporary India: Women and Empowerment

1. Social Construction of Gender (Masculinity and Femininity)
   Patriarchy
2. History of Women’s Movements in India (Pre-independence, post independence)
   Women, Nationalism, Partition
   Women and Political Participation
3. Women and Law
   Women and the Indian Constitution
   Personal Laws (Customary practices on inheritance and Marriage)
   (Supplemented by workshop on legal awareness)
4. Women and Environment
   State interventions, Domestic violence, Female foeticide, sexual harassment
   Female Voices: Sultana’s Dream
   Dalit Discourse: ’Details awaited

(Option-2)

Language, Literature and Culture

An anthology of writings on diversities in India

Editorial Board: Department of English, University of Delhi
Option 1: Contemporary India: Women and Empowerment

Or

Option 2: Language, Literature and Culture

Detailed Syllabus

(Option-1)

Contemporary India: Women and Empowerment

1. Social Construction of Gender (Masculinity and Femininity)
   - Patriarchy
2. History of Women's Movements in India (Pre-independence, post independence)
   - Women, Nationalism, Partition
   - Women and Political Participation
3. Women and Law
   - Women and the Indian Constitution
   - Personal Laws (Customary practices on inheritance and Marriage)
   - (Supplemented by workshop on legal awareness)
4. Women and Environment
   - State interventions, Domestic violence, Female foeticide, sexual harassment
   - Female Voices: Sultana's Dream
   - Dalit Discourse: * Details awaited

(Option-2)

Language, Literature and Culture

An anthology of writings on diversities in India

Editorial Board: Department of English, University of Delhi
बांधकाम, फाउंडेशन कोर्स की सहायता से हिंदी सामान्य एंड चिर्चिक पादयक्रम (HGEC) (मुंबई - विज्ञान, 2016)

• सेमेस्टर 1
  1. लोकप्रिय साहित्य अथवा हिंदी सिनेमा और उसका अर्थयान
• सेमेस्टर 2
  2. रचनात्मक लेखन अथवा पत्रकारिता तथा साहित्य लेखन
• सेमेस्टर 3
  3. हिंदी में व्याकरणिक अनुवाद अथवा भाषा और समाज
• सेमेस्टर 4
  4. हिंदी का वैज्ञानिक परिदृश्य अथवा भाषा शिक्षण

हिंदी विषय आधारित एंड चिर्चिक पादयक्रम (HDSEC)

• सेमेस्टर 5
  1. हिंदी की मौखिक और लोक-साहित्य परंपरा अथवा अभिव्यक्तिमूलक विषयों और हिंदी साहित्य अथवा भारतीय एवं पारंपरिक संस्कृति मिश्रित

• सेमेस्टर 5
  2. हिंदी भाषा का व्याकरणिक व्याख्यान अथवा क्रांति विज्ञान : शब्दकोश और विविधकोश अथवा भारतीय साहित्य की सहस्राब्द रुपरेखा

• सेमेस्टर 6
  3. लोकनाट्य अथवा हिंदी की मौखिक विविधताएं अथवा भारतीय साहित्य : पारंपरिक अथवा
  4. शोभाप्रचीर्थ कथा अन्तर्वेगनात्मक साहित्यिक पद अथवा हिंदी संस्कृति
अध्याय

(ख) हिंदी सिनेमा और उसका अध्ययन

इकाई-1 : कला विषय के रूप में सिनेमा और, उसकी सैद्धांतिकी
इकाई-2 : हिंदी सिनेमा : उद्भव और विकास
इकाई-3 : सिनेमा में कैमरे की भूमिका
इकाई-4 : नयी तकनीक और सिनेमा - सम्भावनाएँ और चुनौतियाँ
(संदर्भ : मुगले आजम, नदर इरहिमा, दीवार, पंजक)

सहायक ग्रंथ :

- फिल्म निर्देशन : कुलदीप सिन्हा
- हिंदी सिनेमा का इतिहास - मनोजचन्द्र चाँद्रा
- नया सिनेमा - ब्रजेश्वर मदन
- भारतीय सिनेमा : मुरलीदास - अनुपम आंबाजा
- सिनेमा : कला, आज, कल - विनोद भारद्वाज
- हिंदी सिनेमा के सौ सन्दर्भ - प्रकाशन विभाग
- हिंदी सिनेमा के सौ सन्दर्भ - प्रहलाद अग्रवाल
- राजकपूर : आधी हजार साल - आदित्य फसला - प्रहलाद अग्रवाल
- सिनेमा का जादुई सफर - प्रताप सिंह
- मोहनदास राम : पैगम्बर-ए-हिंदी - जिया इशाम
- नीलांग : जो आफ़्ताब चन्द्र - जिया इशाम
- सिनेमा के बारे में जानकारी - कालनीत - नसरीन गुप्ता कवियर
- गुहा - विमल मिश्रा
- सत्यजीत रे - मंडेल मिश्रा
- कैमरा में गरीबों का आखर - राधु कुमार
- धुनों की यात्रा - पंजक श्रग
अथवा

(ख) भाषा और समाज

इकाई-1: भाषा, समाज और समर्थन
- भाषा और समाज का अंतर्संबंध
- भाषा-व्यवस्था और भाषा-व्यवहार
- समाज भाषाविज्ञान और उसका स्वरूप
- भाषा का समाजसाधन

इकाई-2: भाषाएं विविधता और भाषिक समुदाय
- भाषा और समुदाय
- भाषा और जाति
- भाषा और जीवनशैली
- दिमागलिखता और बहुभाषिकता (पिंजन व जिम्योल)

इकाई-3: भाषा और सामाजिक व्यवहार
- भाषा और वर्ग
- व्यक्ति, समाज और भाषा वर्ग
- भाषाई अभिव्यक्ति और जोश्वर
- भाषा और संस्कृति

इकाई-4: भाषा सर्वेक्षण
- भाषा सर्वेक्षण: स्वरूप और प्रविधि
- भाषा नर्माण का सर्वेक्षण
- भाषा नर्माण का विश्लेषण
- भाषा के नयें गणनों प्रयोग

सहायक ग्रंथ

➤ भाषा और समाज - समविलास शर्मा
Socio Linguistics: An Introduction to Language and Society – Peter Trudgill
Socio Linguistics – R.A. Hudson
An Introduction to Socio Linguistics – Ronald Wodhaugh
The Shadow of Language – George Yule
Paper-1: Environmental Issues In India

1. The importance of Environment.
2. Geography, Ecology and Cultures in Pre-Colonial India
   - Land, Forests, Dams, Water, Pastures, Ecology of Hills and Mountains
3. Colonialism and developments in the Environment
   - New Regimes of land, Forests, Water and Irrigation
   - Resistance: Peasants, Tribals and Pastoralists.
4. Environmental Issues in Independent India
   - Forests, Dams, Displacement, Pollution, Degradation.
5. Environmental Movements in Independent India
   - Forests, Dams, Displacement, Pollution.

Suggested Readings
Mahesh Rangarajan, et al, Environmental issues in India
Madhav Gadgil & Ramchandran Guha, This Fissured Land, An Ecological History of India, Delhi, OUP, 1990
-----Ecology and Equity, the use & abuse of nature in contemporary India, 1995
Salim Ali, The Fall of a Sparrow, 1985
Paper-V: Delhi: Medieval

The medieval history of cities of Delhi is associated with the Sultanate & the Mughals with the Sufis, the Courtiers and the people who resided here. It is connected with the artisanate, the commercial groups and the brokers, the bazaar and their hinterlands that created a glittering emporium & a culture of urbanity that seized the imagination of the people of age.

1. An account of many Cities,
2. Delhi as Imperial Camp & City,
3. Delhi as Economic Centre,
4. Delhi as Social & Cultural Centre.

Suggested Readings
R.E Frykenberg, Delhi Through the Ages: Essays in Urban History, Culture and Society, Delhi, OUP, 1986 (Relevant Chapters)
Ebba Koch, "The Delhi of the Mughals prior to Shajahanabad as reflected in the pattern of Imperial visits" in Ebba Koch, Ed Mughal Art & Imperial Ideology, Delhi, OUP, 2001.
Mohd Habib, "Introduction to Elliot & Dowson’s History of India, Vol. 11, in Khaliq Nizami, Ed, Politics & Society during the Early Mughal Period, Collected Works of Irfan Habib, PPH, 1974, PP, 80-84
Francois Bernier, Travels in the Mughal Empire, AD, 1656-68, Delhi, OUP, 1989,
Semester I

GE-I CALCULUS
Five Lectures per week + Tutorial as per University rules
Max. Marks 100 (including internal assessment)
Examination 3 hrs.

UNIT-I
δ-δ Definition of limit of a function, One sided limit, Limits at infinity, Horizontal asymptotes, Infinite limits, Vertical asymptotes, Linearization, Differential of a function, Concavity, Points of inflection, Curve sketching, Indeterminate forms, L'Hopital's rule, Volumes by slicing, Volumes of solids of revolution by the disk method.

UNIT-II

UNIT-III
Curvature, Unit normal vector, Torsion, Unit binormal vector, Functions of several Variables, Graph, Level curves, Limit, Continuity, Partial derivatives, Differentiability Chain Rule, Directional derivatives, Gradient, Tangent plane and normal line, Extreme values, Saddle points

REFERENCES:
Semester III

GE- 3 DIFFERENTIAL EQUATIONS
Five Lectures per week + Tutorial as per University rules
Max. Marks 100 (including internal assessment)
Examination 3 hrs.

UNIT-I
First order ordinary differential equations: Basic concepts and ideas, Exact
differential equations, Integrating factors, Bernoulli equations, Orthogonal
trajectories of curves, Existence and uniqueness of solutions, Second order
differential equations: Homogenous linear equations of second order, Second
order homogenous equations with constant coefficients, Differential operator,
Euler-Cauchy equation.

UNIT-II
Existence and uniqueness theory, Wronskian, Nonhomogenous ordinary
differential equations, Solution by undetermined coefficients, Solution by variation
of parameters, Higher order homogenous equations with constant coefficients,
System of differential equations, System of differential equations, Conversion of
n order ODEs to a system, Basic concepts and ideas, Homogenous system with
constant coefficients.

UNIT-III
Power series method: Theory of power series methods, Legendre's equation,
Legendre polynomial, Partial differential equations: Basic Concepts and
definitions, Mathematical problems, First order equations: Classification,
Construction, Geometrical interpretation, Method of characteristics, General
solutions of first order partial differential equations, Canonical forms and method
of separation of variables for first order partial differential equations,
Classification of second order partial differential equations, Reduction to
canonical forms, Second order partial differential equations with constant
coefficients, General solutions.

REFERENCES:
9/e, (2006)
Scientists and Engineers, Springer, Indian Reprint (2009)