BANGALORE UNIVERSITY
DEPARTMENT OF ECONOMICS
Jnanabharathi campus
BANGALORE-560056

Submitted to

Faculty of Science

CHOICE BASED CREDIT SYSTEM

Approved Syllabus

BOS (UG) Approved Syllabus for I&II semester Economics papers
For Under Graduation (UG) Programme
Framed according to the National Education Policy (NEP 2020)
For B.SC in Economics (Basic and Honors)

(EFFECTIVE   FROM ACADEMIC YEAR 2021-22)

SEPTEMBER 2021

Proceedings of the meeting of BOS (UG)
in Economics

References;

1. G.O.ED;260/UNE/2019 (part-1), Bangalore University dated 07/08/2021/ and 15.09.2021

2. Email from HEC, GOK dated 15.09.2021

3. University order dated 17.09.2021.

BOS (UG) meeting was held on 20/09/2021 and 21/09/2021 at Chairperson Chamber of the Department of Economics, Bangalore University Bangalore. The state level committee member Professor S R Keshava also invited for the meeting and he gave a valuable inputs and suggestions regarding curriculum structure, design and evaluation pattern for B. A/B.SC (Basics &Honors).

The following are the UG BOS members.

1. Pro. K.M. MayigeGowda
2. Dr.Shubha Ramesh
3. Captain. R. Raghavendra rao
4. Dr. Pushpa B
5. Dr. Rathnamma.R
6. Dr.Shylaja
7. Sri Kumar
8. Dr.C.L. Gayathri Devi
9. Dr. B.V.Sudha

BENGALURU   UNIVERSITY
DEPARTMENT OF ECONOMICS
JNANABHARATHI CAMPUS,BANGALORE-560056

BOS PROCEEDINGS

Board of Studies in Economics (UG) meet was held on 20/09/2021 and 21/09/2021 at 11 AM in Chairpersons chamber of the Department of Economics, Bangalore University, to make essential changes and approve the UG NEP Syllabus for B.A and BSC honors in Economics, which will be implemented during 2021-2022 Academic year. In the beginning of the meeting, Prof. G L Parvathamma, Chairperson of the BOS welcomed the members and requested the members to look into the syllabus given by the state level committee and to make changes if where ever is required, scrutinize and approve the same.

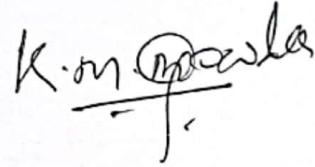The same were scrutinized and approved by the Board.

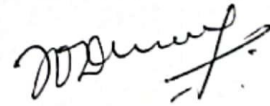The following members were present in the BOS (UG) meeting conducted on both the days.

NAME&ADDRESS:	SIGNATURES
1. Dr. G L Parvathamma – Chairperson Professor Dept. of Economics, Bangalore University Ph.No: 9741175185 Email: glparvathi@gmail.com	
2. Prof. K.M. MayigeGowda(Internals Member) HOD of Economics Government First Grade College Channaptna Ph.No: 9844731449	
3. Dr.Shubha Ramesh(Internals Members) Associate Professor & Principal Department of Economics Government First Grade College Basavangudi, Benguluru Benguluru-560019 Ph.No: 9945279412 Email- shubramani@gmail.com	

4. Captain. R. Raghavendra rao(Internals Member)
   Associate Professor
   Department of Economics
   Government First Grade College, Ramanagara.
   Ph.No: 9900491208
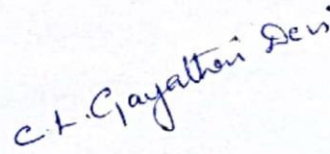   Email-captainragavendra@gmail.com

5. Dr. Pushpa B (Internals Member)
   Assistant Professor
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   Government First Grade College
   Nelamangala
   Ph.No: 9480450532
   pushpasirisathi@gmail.com

6. Dr. Rathnamma.R(Internals Member)
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   Department of Economics
   Government First Grade College
   Kanakapura-562117
   Ph.No: 9902785130
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7. Dr.C.L. Gayathri Devi(External Member)
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8. Dr. B.V.Sudha(External Member)
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   Race course Road
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The Meeting came to an end with the Chairperson thanking the members for their co-operation and smooth conduct of the meeting.

CHAIRPERSON

Dr. G L Parvathamma
CHAIRMAN
Department of Economics
Bangalore University
Bangalore - 560 056.

Program Structure for undergraduate Program and Master Program in Economics (B Sc (Basic)/ B Sc (Hons) / M Sc)

Semester	Paper Code	Title of the Paper	Credits
I Semester	DSC-1	1.1. Micro Economics	**3**
	DSC-2	1.2. Mathematical Economics	**3**
	Choose any one of the Following		**3**
	OEC-1.7.1.	Managerial Economics	
	OEC-1.7.2	Business Environment	
		Total Credits	**9**
II Semester	DSC-3	2.1. Macro Economics	**3**
	DSC-4	2.2. Statistical Economics	**3**
	Choose any one of the Following		**3**
	OEC-2.7.1	Reforms in Indian Economy	
	OEC-2.7.2	Development Studies	
		Total Credits	**9**
III Semester	DSC-5	Factor Pricing and Welfare Economics	**3**
	DSC-6	Basic Econometrics	**3**
	Choose any one of the Following		**3**
	OEC-3.1	Rural Economics	
	OEC-3.2	Economics of Insurance	
	OEC-3.3	Economics of Human Development	
		Total Credits	**9**
IV Semester	DSC-7	Monitory Economics	**3**
	DSC-8	Time Series Econometric	**3**
	Choose any one of the Following		**3**
	OEC-4.1	Karnataka Economy	
	OEC-4.2	Entrepreneurial Economics	
	OEC-4.3	Economics and Law	
		Total Credits	**9**

Semester	Paper Code	Title of the Paper	Credits
V Semester	DSC-9	Public Economics	**4**
	DSC-10	International Economics	**4**
	Choose any one of the Following		**3**
	DSE-5.1	Environmental Economics	
	DSE-5.2	Economics of Information	
	DSE-5.3	Operations research in Economics	
	Choose any one of the Following		**3**
	DSCV-5.1	Entrepreneurial Economics	
	DSCV-5.2	Digital Economics	
		Total Credits	**14**
VI Semester	DSC-11	Economics of Growth and Development	**4**
	DSC-12	Indian Economy	**4**
	Choose any one of the Following		**3**
	DSE-6.1	Experimental Economics	
	DSE-6.2	Game theory	
	DSE-6.3	Economics of Artificial Intelligence	
	Choose any one of the Following		**3**
	DSCV-6.1	Micro Entrepreneurs Development	
	DSCV-6.2	Project Planning & Management	
		Total Credits	**14**
VII Semester	DSC-13	Advanced Microeconomics	**4**
	DSC-14	Financial Economics	**4**
	DSC-15	Computer Applications in Economics	**3**
	DSCR-7.1	Research Methodology	**3**
	Choose any one of the Following		**3**
	DSE-7.1	Agricultural Economics	
	DSE-7.2	Health Economics	
	DSE-7.3	Monitory Economics	
	Choose any one of the Following		**3**
	DSE-7.1	Economics of Climate Change	
	DSE-7.2	Financial Econometrics	
		Total Credits	**20**
VIII Semester	DSC-16	Advanced Macroeconomics	**4**
	DSC-17	Economics and Business Analytics	**4**
	DSC-18	Programming with R for Economists	**3**
	DSCP-8.1	Research Project	**6**
	Choose any one of the Following		**3**
	DSE-8.1	International Economics	
	DSE-8.2	Economics of Education	
	DSE-8.3	Economics of Artificial Intelligence and Machine learning	
		Total Credits	**20**

Semester	Paper Code	Title of the Paper	Credits
IX Semester	DSC-19	International Trade and Finance	4
	DSC-20	Advanced Econometrics	4
	DSC-21	Advanced Research methodology	3
	DSCI-9.1	Internship	6
		Choose any one of the Following	3
	DSE-9.1	Labour Economics	
	DSE-9.2	International Finance	
	DSE-9.3	Stock Market Analysis	
		Total Credits	**20**
X Semester	DSC-22	Contemporary Indian Economy	4
	DSC-23	Advanced Development Economics	4
	DSC-24	Advanced Public Economics	3
	DSCP-10.1	Research Project	6
		Choose any one of the Following	3
	DSE-10.1	Behavioural Economics	
	DSE-10.2	Corporate Finance	
	DSE-10.3	Big Data Analysis	
		Total Credits	**20**

Acronyms Expanded	
DSC	Discipline Specific Core
DSE	Discipline Specific Elective
OEC	Open Elective Course
DSCV	Discipline Specific Core Vocational
DSCR	Discipline Specific Core Research Method
DSCP	Discipline Specific Core Project

1. Relevance of Economics in Science discipline

Economic wellbeing is focal point in the decision making process of individuals and organizations of all kinds. Over the period as the economies become more and more complex comprehending the relationship between economic variables compels the need for specialisation in the field of economics. Applications of advanced quantitative techniques growing with increasing complexity among economic variables give rise to the new disciplines like econometrics, financial econometrics,big data analytics and so on. In this backdrop, the demand for specialist with blend of knowledge in economics with other areas of science like mathematics, statistics and computer science is at rise.

The knowledge of economics enables the students to understand the human behaviour besides inculcating analytical ability, problem solving skill and rational decision making capability which are critical for success in today's job market. Higher education in economics develop the deep insights into consumer behaviour and business strategies in the volatile markets that help the business organisations intaking informed intelligent decisions to promote greater business growth. The knowledge of economics blended with the knowledge in science and management discipline opens up lucrative opportunities in product planning, financial management, internalizing the externalities, environmental management, resource planning, optimization techniques, efficient budgeting, decisions in international trade, forex market and so on. The study of Economics could also help in suggesting the policy measures that encourage prosperity and avoid inefficiency, making it a crucial driver in the search for sustainable growth.

2. Program Outcomes

On the successful completion of B Sc. with Economics as one of the core course students will be able to;

1. Understand of markets and their functions in the economy
2. Understand real-world markets and the economies
3. Analyse micro and macroeconomic problems
4. Understand the macroeconomic policies and their impact
5. Understand the basics of Quantitative techniques their applications
6. Critically evaluate the ongoing economic developments in India and abroad
7. Understand the basics of public finance
8. Understand research methods in economics

3. Pedagogy

The goal of economics pedagogy is to awaken a student's critical consciousness and empower them with economic tools that help them in taking the crucial decision which helps them with economic tools through which they can make the efficient choices in managing scarce resources such as resources, money and time.

1. **Importance to theory as well as application:** all these years economics curriculum was concentrating more on teaching theoretical aspects, but the new curriculum gives importance to application through many hands-on training, case studies, empirical studies etc.

2. **Utilisation of ICT:** in order to make the Critical and creative thinking among the students better the ICT tools will be used.it includes case studies of research-ledteaching, via presentations, websites and other media

3. **Research-based and research-led teaching:** The theories will be explained with application. In order to give more hands-on training, the Projects and internships are introduced in the economics curriculum. The students will do the research project of their choice under the supervision of the research guide.

4. **Exposure to maths and statistics:** in today's world, economics is using more of statistics and mathematics in economic analysis. Hence the curriculum is designed in such a way which gives more exposure to maths and statistics training.

5. **Brain Storming Approach:** Students will be deliberately involved either in groups or as individuals to deliberately discuss the possible implications or solutions to theIndian economic problems. The teacher will guide the process and help the students to think in right perspective and direction. This will help the teachers understand the extent of the student understanding and take corrective steps, but also helps in student involvement in the curriculum.

6. **Prominence to Indian economic contribution and Indian examples;** The western economic theories were taught ignoring the contribution of Indian economists. The new curriculum also emphasis on the Indian economist contribution, their theories and application. The teachers may highlight the Indian economic contribution and Indian examples in the pedagogy.

4. Exit Options and Credit Requirements

A Certificate / Diploma/ Bachelor Degree or Bachelor Degree with Honours in Economics both in BA / B.Sc. in Economics is awarded at the end of the each year of the exit of the four year under graduate programme /Five year integrated Master Degree programme.

Exit Option with	Certificate/ Diploma/ Degree/ Honors
Successful completion of First year (two semesters) of the four years multidisciplinary undergraduate degree programme.	Certificate in Economics (Science)-48 credits
Successful completion of second year (four semesters) of the four years multidisciplinary undergraduate degree programme	Diploma in Economics (Science)-96 credits
Successful completion of three year (six semesters) of the four years multidisciplinary undergraduate degree programme	Bachelor of Science Degree in Economics - 136 credits
Successful completion of four year (eight semesters) of the four years multidisciplinary undergraduate degree programme	Bachelor of Science Degree with Honours in Economics- 176 credits
Successful completion of Five year (Ten semesters) of the five years multidisciplinary degree programme	Master of Science Degree in Economics -216 credits

A student will be allowed to enter/re-enter only after the odd semester and they can only exit after even semester. Re-entry at various as lateral academic programmes based on the above mentioned earned proficiency test records. The validity of the eared credit will be for a maximum period year or as specified by the academic bank of credits (ABC).

5. Continuous Internal Evaluation and Semester end Examination.

Total marks for each course shall be based on continuous assessments and term end examinations. As per the decision of the Karnataka State Higher Education Council, it is necessary to have uniform pattern of 30: 70 for CIA and Semester End examinations respectively, among all the Universities, their affiliated and autonomous colleges.The committee deliberated on the same and suggested the following pattern for the CIEMarks.

Sl. No.	Parameters for the Evaluation	Marks
A	Continuous Internal Evaluation (CIE)	40 Marks
B	Semester End Examination (SEE)	60 Marks
	Total of CIE and SEE (A + B)	100 Marks

Scheme of Continuous Internal Evaluation

Activities	C1	C2	Total Marks
Session Test	6 marks	6 marks	12
Seminars etc.	6 marks		06
Case study / Assignment / Field work / Project work/		6 Marks	06
Sub Total	12	12	24
Attendance	06 marks		06
			10
Total			40

Scheme for Attendance Marks

Sl No	Attendance Percentage	Marks
1	75 to 80	2
2	80 to 85	3
3	85 to 90	4
4	90 to 95	5
5	95 to 100	6

Question Paper Pattern for Semester End Examination (SEE)

B. Sc /M.Sc Course
Name of the Paper:

Duration: 90 Minutes   Max Marks: 60

SECTION-A

Answer any **three** of the following questions.

(5 X 3= 15)

1.
2.
3.
4.
5.
6.
7.
8.

SECTION- B

Answer   Any t h r e e of the following   questions   (3 X 10= 30)

9.
10
11
12
13   **S ECTION- C**

Answer any one of the following questions.   (15X1=15)
14.

15.

Structure of B.Sc. (Basic) B.Sc (Honors) and M.Sc.

In

Economics

Program Structure

Proposed Scheme of Teaching and Evaluation for B. Sc. with Economics as Core Subject

Discipline Core: Economics   **Total Credits:**

Semester -I

Sl No	Course Code	Title of the Course	Category of Courses	Teaching Hours /Week (L+T+P)	SEE	CIE	Total Marks	Credits
1								
2								
3	Economics-C1	1.1. Micro Economics	DSC	3+0+0	60	40	100	3
4	Economics-C2	1.2. Mathematical Economics	DSC	3+0+0	60	40	100	3
5								
6								
7	O E C	1. 7.1. Managerial Economics 1.7.2. Business Environment	OEC	3+0+0	60	40	100	3
8								
		Sub- Total						9

Semester -1I								
Sl No	Course Code	Title of the Course	Category of Courses	Teaching Hours /Week (L+T+P)	SEE	CIE	Total Marks	Credits
1								
2								
3	Economics-C3	2.1. Macro Economics	DSC	3+0+0	60	40	100	3
4	Economics-C4	2.2. Statistical Economics	DSC	3+0+0	60	40	100	3
5								
6								
7	O E 2	2.7.1. Reforms in Indian Economy 2.7.2 Development studies	OEC	3+0+0	60	40	100	3
8								
9								
		Sub- Total						9

Exit option with Certificate (48 credit)

Semester -1II								
Sl No.	Course Code	Title of the Course	Category of Courses	Teaching Hours /Week (L+T+P)	SEE	CIE	Total Marks	Credits
2								
	Economics-C5	Factor pricing and Welfare Economics	DSC	3+0+0	60	40	100	3
4	Economics-C6	Basic Econometrics	DSC	3+0+0	60	40	100	3
6								
	O E 3	1. Rural Economics 2. Economics of Insurance 3. Economics of Human Development	OEC	3+0+0	60	40	100	3
8								
								9

Semester -1V								
Sl No	Course Code	Title of the Course	Category of Courses	Teaching Hours /Week (L+T+P)	SEE	CIE	Total Marks	Credits
2								
	Economics-C7	Monetary Economics	DSC	3+0+0	60	40	100	3
4	Economics-C8	Time series Econometrics	DSC	3+0+0	60	40	100	3
6								
	OE 4	1. Karnataka Economy 2. Entrepreneurial Economics 3. Economics and Law	OEC	3+0+0	60	40	100	3
8								
		Sub- Total						9

Exit option with Diploma (96 credits)/ Choose any one Discipline as Major, the other as the Minor

Semester -V									
Sl No	Course Code	Title of the Course	Category of Courses	Teaching Hours /Week (L+T+P)	SEE	CIE	Total Marks	Credits
	Economics-C9	Public economics	DSC	4+0+0	60	40	100	4
2	Economics-C10	International economics	DSC	4+0+0	60	40	100	4
	Economics DSE-1 (Choose-1)	1. Environmental Economics 2. Economics of Information 3. Operations Research in Economics	DSE	3+0+0	60	40	100	3
4	Economics DSC-1 (Choose-1)	**Vocational Course – 1** 1. Entrepreneurial Economics 2. Digital economics	DSC	3+0+0	60	40	100	3
6								
								14

Semester -VI									
Sl No	Course Code	Title of the Course	Category of Courses	Teaching Hours /Week (L+T+P)	SEE	CIE	Total Marks	Credits
	Economics-C11	Economics of Growth & Development	DSC	4+0+0	60	40	100	4
2	Economics-C12	Indian Economy	DSC	4+0+0	60	40	100	4
	Economics DSE-2 (Choose-1)	1. Experimental economics 2. Game theory 3. Economics of Artificial Intelligence	DSE	3+0+0	60	40	100	3
4	Economics DSC-2 (Choose-1)	Vocational Course – 2 1. Micro Entrepreneur Development 2. Project Planning & Management	DSC	3+0+0	60	40	100	3
6								
								14

Exit option with Bachelor of Science, B.Sc. Basic Degree (136 credits}

Semester -VII

Sl No	Course Code	Title of the Course	Category of Courses	Teaching Hours /Week (L+T+P)	SEE	CIE	Total Marks	Credits
1	Economics-C13	Advanced Micro economics	DSC	4+0+0	60	40	100	4
2	Economics-C14	Financial Economics	DSC	4+0+0	60	40	100	4
3	Economics C15	Computer application in economics	DSC	3+0+0	60	40	100	3
4	Economics DSE-3 (Choose-1)	1. Agricultural Economics 2. Health Economics 3. Monitory Economics	DSE	3+0+0	60	40	100	3
5	Economics DSE-4 (Choose-1)	4. Economics of Climate Change 5. Financial Econometrics	DSE	3+0+0	60	40	100	3
6	Economics DSC-3	Research Methodology	DSC	2+1+0				3
		Sub- Total						20

Semester -VIII

Sl No	Course Code	Title of the Course	Category of Courses	Teaching Hours /Week (L+T+P)	SEE	CIE	Total Marks	Credits
1	Economics-C16	Advanced Macroeconomics	DSC	4+0+0	60	40	100	4
2	Economics-C17	Economic and Business Analytics	DSC	4+0+0	60	40	100	4
3	Economics C18	Programming with R for Economists	DSC	3+0+0	60	40	100	3
4	Economics DSE-5 (Choose-1)	1. Industrial Economics 2. Economics of Education 3. Economics of Artificial Intelligence and Machine learning	DSE	3+0+0	60	40	100	3
5	Economics DSC-4	Research Project	-					6
		Sub- Total						20
	Grand Total (I to VIII) (Only Economics)							**104**

Exit option with Bachelor of Science, B.Sc. Basic (Hons) Degree (176 credits}

Semester -IX								
Sl No.	Course Code	Title of the Course	Category of Courses	Teaching Hours /Week (L+T+P)	SEE	CIE	Total Marks	Credits
1	Economics-C19	International Trade and Finance	DSC	4+0+0	60	40	100	4
2	Economics-C20	Advanced Econometrics	DSC	4+0+0	60	40	100	4
3	Economics C21	Advanced Research Methodology	DSC	3+0+0	60	40	100	3
4	Economics DSE-6 (Choose-1)	1. Labour Economics 2. International Finance 3. Stock Market Analysis	DSE	3+0+0	60	40	100	3
5	Economics DSC-5	Internships	DSC					6
		Sub- Total						20

Semester -X								
Sl No	Course Code	Title of the Course	Category of Courses	Teaching Hours /Week (L+T+P)	SEE	CIE	Total Marks	Credits
1	Economics -C22	Contemporary Indian Economy	DSC	4+0+0	60	40	100	4
2	Economics -C23	Advanced Development Economics	DSC	4+0+0	60	40	100	4
3	Economics C18	Advanced Public Economics	DSC	3+0+0	60	40	100	3
4	Economics DSE-7 (Choose-1)	1. Behavioral Economics 2. Corporate Finance 3. Big Data Analytics	DSE	3+0+0	60	40	100	3
5	Economics DSC-7	Project Work	-					6
		Sub- Total						20
		Grand Total (I to X) (Only Economics)						146

Students who earn 216 credits will get M Sc. in Economics

Name of the Course: 1.1.Micro Economics

Course Credits	Number of Hours per Week	Total No of Teaching Hours
3 Credits	**3 Hours**	**42 Hrs**

Course Outcome: On Successful completion of the course, the student will be able to; 1. Analyse the economic behaviour of the consumer and the firm 2. Explain the relationship between various variables such as Input and output, cost and output, price of the product and quantity demand and so on 3. Product and Factor pricing under different market structure	
Unit – 1 : Introduction to Economics, Demand and Supply	14
Chapter-1 introduction to Economics: Nature and scope of economics, Basic Concepts in economics, Importance of study of Economics, Understanding the economy, Mankiw's ten principles of economics	7
Chapter- 2: Demand: Meaning and Determinants of Demand, the Demand Schedule, The Law of Demand Exceptions to the Law of Demand, Elasticity of Demand: Meaning- Types: Price, Income and Cross Elasticity, Measurement of Elasticity of Demand	6
Chapter- 3: Supply: Concept of Supply**,** the Law of Supply, and Determinants of Supply.	
	1
Unit – 2 Theory of Demand and Production function	14
Chapter-4. Cardinal Analysis: Utility: Law of diminishing marginal utility, equi- marginal utility, consumer's equilibrium, Consumer surplus and its application	3
Chapter-5. *Ordinal analysis:* Meaning of Indifference curves- Indifference Schedule- Indifference Map, properties of Indifference curves Budget line-Equilibrium position, Income, Price and substitution effects -inferior goods v/s Geffen goods, Samuelson's revealed preference theory	6
Chapter-6. Production Function Production Function - The Law of Variable Proportion - the Law of Returns to Scale- Least cost combination of Inputs	
	5
Unit – 3: Cost, Revenue, Price and Output determination under different Markets	14
Chapter No. 7 Cost Concepts, Cost output relationship in the short-run and long- run **Chapter No. 8. Concepts of Revenue**: Total, Average and Marginal Revenue Curve	4
Chapter No. 9. Price and Output determination under different market: Meaning and features of perfect competitive market, Monopoly, Monopolistic competitionand oligopoly, Price and Output determination under these markets	1
	9

Text Books

Ahuja H.L (2017) Advanced Economic Theory, S. Chand and Company, New Delhi.

Koutsoyiannis A, (2008) Modern Microeconomics, Macmillan, London.

References

Dominick Salvatore (2002) Theory and Problems of Microeconomic Theory, Schaum's Outline Series, McGraw-Hill Book Company, Singapore.

Ferguson C.E and Maurice S. Charles, (1978) Economic Analysis-Theory and Applications, Richard D. Irwin Inc. USA.

Hubbard R. Glenn and Anthony Patrick O'Brien, (2016) Microeconomics, Pearson PrenticeHall, New Jersey.

Pindyck Robert S., and Daniel L. Rubinfeld, (2012) Microeconomics, Pearson PrenticeHall, New Jersey.

Varian, H. R., "Intermediate Microeconomics: A Modern Approach", W. W. Norton and Company, 8th Edition, 2010

Pedagogy: Classroom lecture, tutorials, Seminar and Case analysis

Formative Assessment	
Assessment Occasion/ type	**Weightage in Marks**
Continuous & Comprehensive Evaluation (CCE)	10 Marks
Internal Assessment Test (IAT)	20 Marks
Presentation &fieldwork	10 Marks
Semester End Exam (SEE)	60 Marks
Total	100 Marks

Name of the Programme: Bachelor of Science (B. Sc)
Course Coe: B. Sc.
Name of the Course:1.2 Mathematical Economics

Course Credits	Number of Hours per Week	Total No of Teaching Hours
3 Credits	**3 Hours**	**42 Hrs**

Course Outcome: On Successful completion of the course, the student will be able to; 1. Perform basic operations in Vectors and Matrix algebra. 2. Calculate limits, derivatives and integrals of functions of multiple variables. 3. Calculate Optima for constrained and unconstrained optimization problems encountered in Economics.	
Unit – 1: Basics of Mathematical Economics, Vectors, Matrices and Their applications	14
Chapter-1 Basics of Mathematical Economics: Nature of Mathematical Economics and its applications in Economic Analysis -Mathematical Model: Variables, Constants, Parameters, Equations and Identities- Sets: Set notation, operations, finite and infinite sets, laws of set operations	5
Chapter-2 Relations and Functions: Ordered pairs, relations and functions - Meaning and types of functions- constant function, polynomial functions, rational functions and non-algebraic functions. Simultaneous Equations- **Vectors**-vector spaces, linear dependence	4
Chapter-3 Matrices: Matrix Operations- Addition and Subtraction, Matrix Multiplication, Commutative, Associative and Distributive laws-Transpose - Inverse Matrix - Determinants: Properties, Rank of Matrix, Minor, Co-factor - Cramer's Rule, Derivation and its Applications in Economics	5
Unit – 2: Comparative Statics and Derivatives	14
Chapter- 4. Nature of Comparative Statics, Rate of Change and the Derivative -The concept of limit, limit theorems	3
Chapter–5: Continuity and Differentiability of a function – rules of differentiation of a function, Constant Functions, Linear, Power, Sums and Differences of Functions, Product of Functions, Quotient of Functions, Chain Rule, Exponential and Logarithmic Functions	5
Chapter - 6. Functions of Two or More Variables - Partial Derivatives, Higher Order Partial Derivatives, the Chain Rule and Total Derivatives- Maxima and Minima – One and two variables- Differential Equations- First Order Linear Differential Equations- Nonlinear First Order Differential Equations- Second Order Linear Differential Equations	6
Unit – 3: Integration and Optimization Techniques	14
Chapter - 7 Concept of Integration -Rules of Integration – Definite Integrals – Area and summation – Indefinite Integration.	4
Chapter - 8. Applications integrations in Economic Analysis-Consumers Surplus-Producers surplus-Obtaining primitive function from marginal function	5

Chapter - 9. Concept of optimisation - Unconstrained Optimization - Lagrangian Multiplier, Constrained Optimization.	5

Text Books

Chiang, A. C. and Wainwright, K., "Fundamental Methods of Mathematical Economics", McGraw-Hill/Irwin, 4th Edition, 2005.

Sydsaeter, K and Hammond, P., Mathematics for Economic Analysis, Pearson EducationalAsia, 4th Edition, 2002.

References

Allen R.G.D., (2015) Mathematical Analysis for Economists, Macmillan.

Bose D., (2003) An Introduction of Mathematical Economics, Himalaya Publishing House, Mumbai.

Sydsaeter, K and Hammond, P., Mathematics for Economic Analysis, Pearson EducationalAsia, 4th Edition, 2002.

Dowling, E. T., "Introduction to Mathematical Economics", McGraw-Hill, 2001. Hoy, M.,

Livernois, J. McKenna, C, Rees, R. and Stengos, T., "Mathematics for

Economics", MIT Press, 3rd Edition, 2011

Yamane Taro, (2002) Mathematics for Economists - An Implementer Analysis, Phi Learning Publishers.

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

Formative Assessment	
Assessment Occasion/ type	**Weightage in Marks**
Continuous & Comprehensive Evaluation (CCE)	10 Marks
Internal Assessment Test (IAT)	20 Marks
presentations	10 Marks
Semester End Exam (SEE)	60 Marks
Total	100 Marks

Name of the Programme: Bachelor of Science (B. Sc)
Course Coe: B. Sc. 1.7.1 (OE)
Name of the Course: Managerial Economics

Course Credits	Number of Hours per Week	Total No of Teaching Hours
3 Credits	3 Hours	42 Hrs

Course Outcome: On Successful completion of the course, the student will be able to;	
1. Forecast the demand for goods and services 2. Analyse the efficiency of resource use in the production 3. Understand the determination of price and output under different market besides the methods of pricing in practice	

Content of Course 1	42 Hrs
Unit – 1 Introduction to Managerial economics, Demand analysis andForecasting	14
Chapter-1: Meaning, nature and scope of Managerial Economics- Organisation of business firms- General Objectives of business firms	3
Chapter-2: Application of Basic Economic Principles to Managerial Problems: Incremental, Discounting, Time Perspective, Opportunity Cost and Equi-Marginal Principle	5
Chapter-3: Demand and its determinants- Elasticity of demand; Meaning, types and determinants-Meaning and Objective Demand Forecasting - Methods of demand forecasting and their usefulness and limitations	6
Unit – 2 : Production Analysis, Cost Analysis and Determination of price	14
Chapter- 4.: Managerial applications of production function- Laws of returns and their applications -Least cost combinations of inputs	
Chapter - 5. Cost concepts and cost function- Cost-output relationship and its usefulness in production decision **Chapter - 6.** Price and output determination in various markets; Perfect competition, monopoly, monopolistic competition and oligopoly	
Unit – 3: Pricing Methods in Practice, Profit Management and CapitalBudgeting	14
Chapter – 7: Pricing Methods in Practices: Specific Pricing Problems - Popular Pricing Practices: Cost-Oriented Pricing, Cost-Plus Pricing and Other Price Determinants, Peak - Load Pricing, Price over the Life Cycle of the Product, Penetration Price - Pricing of Multiple Products	5
Chapter – 8: Profit Analysis: Meaning of Profit - Accounting Profit and Economic Profit- Break-Even Analysis - Problems, Break-even Quantity, Break- Even Sales - Targeted Profit, Safety Margin.	5
Chapter – 9: Capital Budgeting: Meaning and Importance - Techniques: Payback Period and Net Present Value (NPV) Method.	4

Text Books

Salvatore Dominick, (2014) Managerial Economics in a Global Economy, McGraw HillInc., New York.

Mehta P.L., (2007) Managerial Economics: Analysis, Problems and Cases, Sultan Chandand Sons, New Delhi.

References

Mc Guigon R. James, R. Charles Moyer, Frederick H Deb, Harris (2017) Managerial Economics: Applications, Strategy and Tactics, South Western, USA

Keat Paul G. and Philip K.Y. Young, (2003) Managerial Economics- Economic Tools for Today's Decision Makers, Prentice Hall, New Jersey.

Petersen H. Craig and W. Cris Lewis, (2006) Managerial Economics, Maxwell Macmillan International Editions, New York.

Samuelson William F, and Stephen G. Marks, (2006) Managerial Economics, John Wileyand Sons, Inc., New Jersey

Pedagogy: Classroom lecture, tutorials, Seminar and Case analysis

Formative Assessment	
Assessment Occasion/ type	**Weightage in Marks**
Continuous & Comprehensive Evaluation (CCE)	10 Marks
Internal Assessment Test (IAT)	20 Marks
	10 marks
Semester End Exam (SEE)	60 Marks
Total	100 Marks

Course Title: **OEC 1.7.2: Business Environment**	
Total Contact Hours: 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 3 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

Course Pre-requisite(s):

Course Outcomes (COs):

At the end of the course the student should be able to:

Explain the elements of Business environment.

Identify the environmental constraints in the growth of a business firm.

Analyze the ways to utilize the current environmental conditions to achieve higher businessgrowth.

Unit	Content of Course	42 Hrs
I	**Introduction to Business Environment**	12
	Chapter 1: Introduction • Meaning and definition, objectives, importance and uses of study of business environment. Environmental analysis • Meaning, process of environmental analysis, limitations of environmental analysis, environmental factors • The Micro environment of business and the macro environment of business.	3
	Chapter 2: Economic Environment • Meaning of Economic Environment • Characteristics of Indian economy • Impact of Liberalization Privatization & Globalization of Indian Business. • Monetary policy – Meaning, objectives • Fiscal policy – Meaning, objectives, budget and importance • EXIM policy – meaning and objectives • Industrial policy – meaning, objectives (Latest Policy Measures).	6
	Chapter 3: Global Business Environment • Meaning • Globalization: Nature and Impact of globalization • Challenges of international business • GATT and WTO and its implications on Indian economy.	3
	Practicum 1. Identification of the impact of business environment through surveys 2. Group discussion on WTO and its impact on Indian business	
II	**Non-Economic Environment**	10
	Chapter 4: Social and Cultural Environment Business and Society Social Objectives of Business Corporate Social Responsibility Consumer Rights & Corporate Governance ☐ Business Ethics	4
	Chapter 5: Technological Environment: ☐ Meaning	2

	• Technological changes – R & D in India
	• Public and Private Investment in R and D.
	Chapter 6: Financial Environment
	   • Introduction and Meaning
	   • An Overview of Indian Financial System
	   • Financial Institutions and their Roles
	   • Role of Foreign Direct Investment and its impact on Indian Business
	Practicum: Students are expected to analyze the major economic and financial indicators such as GDP, Inflation, CPI, BSE, NSE, Currency, Gold rate, Oil barrel price etc., for a particular period of time and submit the report on the same.
		4

III	**Government and Business in India**	22

	Chapter 7: Political Environment
	   • Introduction and Meaning
	   • Political Environment and the Economic system
	   • Government and Business Relationship in India
	   • Provisions of Indian Constitution for Business
		4

	Chapter 8: Legal Environment of Business
	   • Indian Company Law
	   • Competition policy and law
	   • Patents & Trademarks
	   • Industrial Policy- An overview
	   • Labor Laws & Social Security,
	   • Environmental Laws.
		8

	Chapter 9: Current Issues
	   • Ease of Doing Business
	   • Performance of MSMEs
	   • Make in India,
	   • Development of economic and social infrastructure
	   • National Monetization Pipeline
	(The teacher should include the latest policy of the government)
	Practicum: Students are expected to give a report on how the economic environment has affected the performance of any five large Indian Business Houses.
		10

	REFERENCES: Francis Cherunilam: Business Environment, Himalaya Publishing House, Mumbai. K. V. Sivayya and VBM Das: Indian Industrial Economy, Sulthan Chand Publications, Delhi. M. Adhikari: Economic Environment of Business, Sulthan Chand and Sons, New Delhi. Raj Agarwal: Business Environment, Excel Publications, New Delhi.	

Pedagogy

Formative Assessment	
Assessment Occasion/ type	**Weightage in Marks**
Internal Test	50%
Assignment	20%
Presentation/Project	30%
Total	100

Semester-II
Name of the Programme: Bachelor of Science (B. Sc)
Course Coe: B. Sc
Name of the paper:2.1 Macro Economics

Course Credits	Number of Hours per Week	Total No of Teaching Hours
3 Credits	**3 Hours**	**42 Hrs**

Course Outcome: On Successful completion of the course, the student will be able to;
1. Explain the concept of National Income and methods of its estimation
2. Analyse the relationship between Macroeconomic variables
3. Understand the determination of income and employment under Classical and Keynesian framework

Unit – 1:Introduction to Macro Economics and National Income accounting	14
Chapter-1: Introduction to Macroeconomics: Nature of Macroeconomics and its significance, Indicators of Macro Economic Activity - Key Concepts: Stock andflow variables.	3
Chapter-2 Building blocks of Macro Economic Analysis: Aggregate Demand (AD) curve, Aggregate Supply (AS) curve, Sources of shift in AD an AS, Equilibriumin National Income and Price level, Unemployment and National Income, Inflation and Unemployment, Circular flow of Income, Goods market and Money Market	4
Chapter-3 National Income Accounting: Measurement of Macro Variables and Economic Performance: National Income Accounting - *Important Concepts*: GNP, GDP, NNP, NDP, NI, PI, DPI- Real GDP versus Nominal GDP- GDP deflator- *Method of estimating National Income*- Expenditure Method- Income method- Value added or Net Product method- Difficulties in National Income Accounting- Trends in GDP in India -GNP and Quality of Life - Net Economic Welfare - Green Income.	7
Unit – 2: Classical and Keynesian Macro Economics	14
Chapter- 4. Classical Theory: Introduction to classical theory of employment - Basic Assumptions of the Classical School- Say's law of Market- Determinants of Output, Employment, Savings, Investment, Wages, Prices, Interest Rate - Equilibrium Output and Employment-Implications of Classical Full- Employment Model-Critical Evaluation.	5
Chapter - 5. Keynesian Macro Economics: Principle of effective demand- Keynesian theory of output, income and employment- Equilibrium Income and Output in Simple Two Sector Model, Three Sector & Four Sector Models	4
Chapter- 6: Keyes Psychological law of consumption- An Overview of Post Keynesian theories of consumption: absolute income, relative income, permanent income & life cycle hypothesis- Multiplier and Accelerator Analysis -Marginal Efficiency of Capital- Relevance and Critique of KeynesianMacroeconomics	5
Unit – 3 Recent Debates in Macroeconomics	14

Chapter - 7 Supply side Economics	4
Chapter - 8. Money market and Goods market equilibrium-IS-LM model-Business cycle- Concept and theories	5
Chapter - 9. Macroeconomic policies; Monitory Policy and Fiscal Policy-Relative effectiveness of monetary and fiscal policy	5

Text Books

Ahuja H L (2013) Macroeconomics: Theory and Policy, S Chand & Company Pvt Ltd. NewDelhi
Mankiw N. Gregory, (2012) Macroeconomics, Worth Publishers, New York.
Shapiro Edward, (2004) Macroeconomic Analysis, Galgotia Publications Pvt. Ltd, NewDelhi.

References

Ackley Gardner, (1978) Macroeconomics: Theory and Policy, Macmillan, New York Dornbusch, R., Fischer, S. and Startz, R., "Macroeconomics", McGraw-Hill, 11th Ed 2010D'Souza E., "Macroeconomics", Pearson Education, 2009

Froyen Richard T. (2013) Macroeconomics-Theories and Policies, Macmillan Pub., Company, NY.

Hubbard R. Glenn and Anthony Patrick O'Brien, (2012) Macroeconomics, Pearson Prentice,New Jersey, USA.

Oliver Blanchard, (2016) Macroeconomics, Pearson Prentice Hall, New Jersey, USA.

Pedagogy : Classroom lecture, tutorials, Seminar and Case analysis

Formative Assessment	
Assessment Occasion/ type	**Weightage in Marks**
Continuous & Comprehensive Evaluation (CCE)	10 Marks
Internal Assessment Test (IAT)	20 Marks
Presentation &field work	10 Marks
Semester End Exam (SEE)	60 Marks
Total	100 Marks

Name of the Programme: Bachelor of Science (B. Sc)
Course Coe: B. Sc.semester-II
Name of the paper: 2.2 Statistical Economics

Course Credits	Number of Hours per Week	Total No of Teaching Hours
3 Credits	**3 Hours**	**42 Hrs**

Course Outcome: On Successful completion of the course, the student will be able to;	
1. Calculate basic descriptive and inferential statistics. 2. Interpret descriptive and inferential statistics. 3. Explain the process of hypothesis testing	

Unit – 1: Basics of Statistics for economics, Measures of central tendency and dispersion	14
Chapter-1 Basics of Statistics for Economics: Why Study Statistics -Importance of Statistics in Economics- Descriptive and Inferential statistics -Data **-** Elements, Variables, and Observations, Scales of Measurement - Qualitative and Quantitative Data - Cross-Sectional and Time Series data- Data sources - Computers and Statistical Analysis	4
Chapter-2 Measures of Central Tendency: Arithmetic mean, median, mode, Geometric mean and Harmonic mean measurement and applications in Economics	5
Chapter-3 Measures of dispersion- Meaning and significance of measure of dispersion -Measurement and applications of Range , quartile deviation, mean deviation , standard deviation , variance and coefficient of variation	5

Unit – 2 Correlation, Regression, Time Series Analysis and Index Numbers	14
Chapter- 4. Correlation and Regression: Meaning and types of correlation, methods of computation of correlation coefficient –Karl Pearson's method, Spearman's rank correlation method- **Regression**–meaning and importance of regression analysis, simple regression lines and equations and forecasting (two variables only)	6
Chapter - 5. Time Series: Nature and Decomposition of Time Series - Analysis of Trend - Moving Average Method, Least-Square Method	3
Chapter - 6. Index Numbers: Nature and Purpose of Index Numbers - Types of Index Numbers: Price Index - Quantity Index, Link and Chain Index -Simple and Aggregate Index Numbers -Laspyre's Index, Paasche's Index, Marshall and Edgeworth's Index - Fisher's Index – Time- Reversal and Factor Reversal Tests-Deflation and Splicing of Index Numbers - Problems in the Construction of Index Numbers - Limitation of Index Numbers.	5

Unit - 3 Introduction to Probability Distributions and Hypothesis Testing	14
Chapter - 7 Probability: Basic Concepts- Properties of Probability- Expected Values, Conditional Probability Random Variables: Discrete and Continuous	3
Chapter - 8. Probability Distributions - Probability Density Functions and Cumulative Distribution Functions – Expected values and Moments - The	6

Binomial Probability Distribution, Poisson and Normal Distribution	
Chapter - 9. Hypothesis Testing: Meaning of Hypothesis testing-Null and Alternative hypothesis, level of significance, One-tailed and two-tailed tests,Type I, Type II errors - Approaches to Hypothesis Testing - Confidence Interval Approach -Test of Significance Approach	5

Text Books

Gupta S P. (2012) *Statistical Methods,* S. Chand and Company, New Delhi.

References

Anderson, Sweeney & Williams, (2002) *Statistics for Business & Economics,* ThomsonSouth-Western, Bangalore.

Daniel and Terrel: Business Statistics for Management and Economics; Hoaghton MifflinCo., Boston, Toronts, 7th Edition, 1995, PP 1 to 972 + 6 Appendices

Medhi, J., Statistical Methods: An Introductory Text, Wiley, 1992

Morris H. Degroot and Mark J. Schervish, "Probability and Statistics", 4th edition, 2012. Teresa Bradley, Essential Statistics for Economics, Business and Management, John Willey Publisher, 2007

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

Formative Assessment	
Assessment Occasion/ type	**Weightage in Marks**
Continuous & Comprehensive Evaluation (CCE)	10 Marks
Internal Assessment Test (IAT) Marks	20 Marks
Presentations	10 Marks
Semester End Exam (SEE)	60 Marks
Total	100 Marks

Semester II

Course Title: **OEC 2.7.1: Reforms in Indian Economy (OEC)**	
Total Contact Hours: 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 3 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

Course Pre-requisite(s): *12th Standard Pass*

Course Outcomes (COs):
- At the end of the course the student should be able to:
- Trace the evolution of Indian Economy
- Identify the structural features and constraints of the Indian economy
- . Evaluate planning models and strategy adopted in India
- Analyze the sector specific problems and contributions towards overall economic growth
- Review various economic policies adopted

Unit	Description	Hours
I	**Features and problems of Indian Economy**	15
	Chapter 1: Features of Indian Economy • India as a developing economy, • Demographic features • Human Development (HDI), • Problems of Poverty, Unemployment, Inflation, income inequality	4
	Chapter 2: Issues in Agriculture sector in India • Land reforms • Green Revolution • Agriculture marketing in India • Agricultural price policy	6
	Chapter 3: Industrial and Service Sector • Industrial development; • Micro, Small and Medium Enterprises, • Industrial Policy • Performance of public sector in India, • Service sector in India.	5
	Practicum: 1. Identifying economic problems and their causes; 2. Mini-project on any aspect of Indian agriculture, industry, service and public sectors	
II	**Economic Policies**	13
	Chapter 4: Planning • Mixed Economy • Bombay Plan • Gandhian Model • Nehru Mahalanobis Model • Objectives and achievements of economic planning in India	5
	Chapter 5: Monetary policy in India • Instruments of Monetary Policy	2

	• Black money in India – Magnitude and Impact	
	Chapter 6: Fiscal Policy in India • Tax Revenue • Public expenditure • Budgetary deficits • Fiscal reforms • Public debt management and reforms • Centre state Finance Relations and Finance commissions in India. **Practicum:** Assignment on successes and failures of India's planning; Monetary and Fiscal Policy instruments	6
III	**External sector and Nature of Reforms in India**	**14**
	Chapter 7: India's foreign trade • Salient features • Value, composition and direction of trade • Balance of payments • Goal of self-reliance based on import substitution and protection • Tariff policy • Exchange rate	6
	Chapter 8: Post-1991 strategies • Stabilisation and structural adjustment packages • Liberalisation Privatisation Globalisation (LPG) Model • Impact of LPG Policies on Indian Economy	6
	Chapter 9: NITI Ayog • Organization • Functions Practicum: Calculation of BOP and evaluating trade policies; Assignment and groupdiscussion on the impact of LPG Policies	2
Suggested Readings: • Dutt Ruddar and K.P.M Sundaram (2001): Indian Economy, S Chand & Co. Ltd. New Delhi. • Mishra S.K & V.K Puri (2001) "Indian Economy and –Its development experience", HimalayaPublishing House. • Kapila Uma: Indian Economy: Policies and Performances, Academic Foundation • Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India, OxfordUniversity Press, New Delhi. • Jalan, B. (1996), India's Economic Policy- Preparing for the Twenty First Century, Viking, • NewDelhi.		

Pedagogy

Formative Assessment	
Assessment Occasion/ type	**Weightage in Marks**
Internal Test	50%
Assignment	20%
Presentation/Project	30%
Total	100

Semester II

Course Title: **OEC 2.7.2: Development Studies (OEC)**	
Total Contact Hours: 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 3 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

Course Pre-requisite(s): *12ᵗʰ Standard Pass*

Course Outcomes (COs):
- At the end of the course the student should be able to:
- Graduates will be able to excel in higher studies and/or to succeed in profession.
- Graduates will get a solid foundation of fundamentals required to solve socioeconomic problems and also to pursue higher studies.
- Graduates will demonstrate knowledge to appreciate of the dimensions of contemporary development issues, to generate sensitivity to problems concerningethics and human values to develop orientation towards effective communicationand critical analysis, and to appreciate the interrelationships among disciplines asthey relate to everyday realities.
- Graduates will cultivate professional and ethical attitude, effective Communication skills, teamwork skills, multidisciplinary approach, and to facilitate an advanced understanding and appreciation of the principles, methodologies, value systems, andthought processes employed in human inquiries.

Unit	Description	Hrs
I	**Development: Meaning and Current Challenges**	**9**
	Chapter 1: Meaning of Development • The approaches to development, • Growth and Development • Transition from quantitative to qualitative indices	3
	Chapter 2: Modern economic growth • Characteristics of modern economic growth • Regional and global disparities • Common characteristics and dissimilarities among developing countries.	3
	Chapter 3: Current Development Challenges • Inequality • Migration • Conflicts	3
II	**Approaches to Development**	**12**
	Chapter 4: Development Ethics • Concept and meaning • Principles and importance of Development Ethics	2
	Chapter 5: Assessing Development • Per capita income • PQLI • Choice and Capabilities • HDI	4
	Chapter 6: Approaches of Development • Adam Smith	6

	• Marx • Schumpeter • Structuralist approach • Neo-liberalism, IMF and structural adjustment • Capabilities Approach Practicum: Assignments and Group discussion		
III	**Theories and Current Issues in Development**	21
	Chapter 7: Theories of Development • Theorizing Development - Modernization Theory, Dependency Theory • Capitalist World System • The evolution of thought on poverty reduction	6
	Chapter 8: The Industrial Revolution • Genesis and Spread • Industrial Labour • ILO and its activities to promote labour standards	5
	Chapter 9: Environment and development • Increasing degradation of natural environment – water and air pollution and deforestation • Sustainable development - concept and measures • SDGs • Depletion of Global commons • Climate Change – Causes, Impact, Measures of Mitigation and Adaptations	10

1. **Suggested Readings:**
2. Crocker, D. (2008). Ethics and development theory-practice, Ethics of Global Development Agency, Capability, and Deliberative Democracy, 67-106
3. Des Gasper (2008), 'Denis Goulet and the Project of Development Ethics: Development,8, 99.481-9, Elsevier Science, 1, pp.10-26.
4. Drèze, Jean and Amartya Sen(2002), India: Development and Participation, second edition.Oxford: Oxford University Press.
5. Gasper, D. (2004). The ethics of development: From Economism to human development.Edinburgh: Edinburgh University Press
6. Huntington, Samuel (1971), The change to change: Modernization, development and politics.Comparative Politics, 3.
7. Myrdal, Gunnar. (1974), "What is Development?" Journal of Economic Issues 8(4):729-736.
8. Peet, Richard with Elaine Hartwick (2009), Theories of Development: Contentions, Arguments,Alternatives (2nd edition). New York: Guilford.
9. Sen, Amartya (1999) Development as Freedom. New York: Anchor Books.

10. Pedagogy

Formative Assessment	
Assessment Occasion/ type	**Weightage in Marks**
Internal Test	50%
Assignment	20%
Presentation/Project	30%
Total	100