NATIONAL EDUCATION POLICY 2020

COMMON MINIMUM SYLLABUS FOR UNIVERSITY CAMPUSES AND
ALL
AFFILIATED COLLEGES OF
SOBAN SINGH JEENA UNIVERSITY ALMORA

ECONOMICS SYLLABUS

For
Four Year Undergraduate Programme (FYUP)
and MASTER'S Programme
2025

DEPARTMENT OF ECONOMICS

SOBAN SINGH JEENA UNIVERSITY
CAMPUS ALMORA

SOBAN SINGH JEENA UNIVERSITY ALMORA
(Uttarakhand)

NATIONAL EDUCATION POLICY-2020

ECONOMICS SYLLABUS

FOR

FOUR YEAR UNDERGRADUATE PROGRAMME (FYUP) AND

MASTER'S PROGRAMME

2025

DEPARTMENT OF ECONOMICS

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11.	Dr. Arti Parihar	Assistant Professor Economics S.S.J. Campus Almora	Member	

SYLLABUS DRAFTING COMMITTEE

S.N.	NAME	DESIGNATION	DEPARTMENT	AFFILIATION
1.	Dr. Padam S. Bisht* (Head and Convenor)	Professor	Economics	Kumaun University, Nainital
2.	Dr. Rajnish Pande** (Head and Convenor)	Professor	Economics	Kumaun University, Nainital
3.	Dr. H.C. Joshi (Head and Convenor)	Professor	Economics	S.S.J.University, Almora
4.	Dr. Pushpanjali Arya (Head and Convenor)	Professor	Economics	Sri Dev Suman University, Rishikesh
5.	Dr. Nandan S. Bisht Assistant Professor	Assistant Professor	Economics	Kumaun University, Nainital
6.	Dr. Jitendra K. Lohani	Assistant Professor	Economics	Kumaun University, Nainital
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9.	Dr. Preeti Chandra	Assistant Professor	Economics	Kumaun University, Nainital
10.	Dr. Amit Melkani	Assistant Professor	Economics	Kumaun University, Nainital
11.	Dr. Ramesh	Assistant Professor	Economics	Kumaun University, Nainital

*Prof. Padam S. Bisht retired as Head and Convenor on 28 February 2025.

**Prof. Rajnish Pande took charge as Head and Convenor on 01 March 2025.

SYLLABUS REVIEW COMMITTEE

EXTERNAL EXPERT

S.N.	NAME	DESIGNATION	DEPARTMENT	AFFILIATION
1.	Dr. Indrani Roy Chowdhury	Professor	Economics	JNU, New Delhi
2.	Dr. Saumen Chattopadhyay	Professor	Economics	JNU, New Delhi
3.	Dr. Surender Kumar	Professor	Economics	University of Delhi, New Delhi
4.	Dr. Narender Thakur	Professor	Economics	University of Delhi, New Delhi
5.	Dr. Nidhi Sharma	Professor	Economics	Banaras Hindu University, Varanasi
6.	Dr. G.S. Mehta	Professor(Retd.)	Economics	GIDS, Lucknow
7.	Dr. S.N. Chaturvedi	Professor(Retd.)	Economics	Kashi Vidyapeeth, Varanasi
8.	Dr. Akhilesh K. Sharma	Assistant Professor	Economics	ISID, New Delhi
9.	Dr. Shailendra K. Singh	Assistant Professor	Economics	Nodal NEP-PMU
10.	Dr. Partha Banerjee	Sr. Specialist Consultant	ADB	ADB

INTERNAL EXPERT

S.N.	NAME	DESIGNATION	DEPARTMENT	AFFILIATION
1.	Dr. Padam S. Bisht* (Head and Convenor)	Professor	Economics	Kumaun University, Nainital
2.	Dr. Rajnish Pande** (Head and Convenor)	Professor	Economics	Kumaun University, Nainital
3.	Dr. H.C. Joshi (Head and Convenor)	Professor	Economics	S.S.J.University, Almora
4.	Dr. Pushpanjali Arya (Head and Convenor)	Professor	Economics	Sri Dev Suman University, Rishikesh

*Prof. Padam S. Bisht retired as Head and Convenor on 28 February 2025.

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CONTENTS

List of Papers (DSC,DSE,GE) with Semester Wise Titles for 'Economics... 9

Programme Specific Outcomes (PSOs) (Undergraduate Programme)... 11

Programme Specific Outcomes (PSOs) (Bachelor of Economics with Research) 12

Programme Specific Outcomes (PSOs)-MASTER'S IN ECONOMICS 12

Semester-I 13

Course Title: Basics of Micro economics with Mathematical Techniques 14

Course Title: Fundamentals of Economics... 16

Semester-II 18

Course Title : Basics of Macro economics with Mathematical Techniques 18

Course Title: Fundamentals of Indian Economy. 20

Semester-III... 22

Course Title : Basics of Public Finance 23

Course Title: Basic Mathematical and Statistical Techniques in Economics 25

Course Title: Economic History of India (1857-1947) 27

Semester-IV 28

Course Title : Basics of Money and Banking... 29

Course Title: History of Economic Thought... 31

Course Title : Fundamentals of Environmental Economics... 33

Semester-V... 35

Course Title : Basics of International Economics 36

Course Title : Data Science Techniques in Economics 38

Course Title: Fundamentals of Economy of Uttarakhand... 40

Course Title: Project/Field Survey 42

Semester-VI 44

Course Title : Structure & Problems of Indian Economy... 44



Course Title: Basics of Economic Growth and Development 46
Course Title: Fundamentals of Gender Studies.....48
Course Title: Project/Field Survey 50
Semester-VII.....52
Course Title: Advanced Microeconomics-I 53
Course Title: Advanced Public Finance-I 56
Course Title: Research Methodology-I 58
Course Title: Mathematical Economics 60
Course Title: Labour Economics-I 63
Course Title: Agriculture Economics-I 65
Course Title: Indian Economy-I.....67
Course Title: Cultural Economics-I 69
Course Title: Academic Project 71
Semester-VIII.....72
Course Title: Advanced Macroeconomics-I 72
Course Title: Advanced Public Finance-II 74
Course Title: Research Methodology-II 76
Course Title: Advanced Statistics 78
Course Title: Labour Economics-II 80
Course Title: Agriculture Economics-II.....82
Course Title: Indian Economy-II.....84
Course Title: Cultural Economics-II 86
Course Title: Dissertation on Major/Minor 88
Semester-IX.....89
Course Title: Advanced Microeconomics-II 90
Course Title: Advanced Economic Growth and Development-I 93
Course Title: Advanced International Economics-I 95
Course Title: Econometrics-I 97
Course Title: History of Economic Thought -I 99
Course Title: Financial Institutions and Markets- I 101

Course Title: Demography -I.....103
Course Title: Industrial Economics-I 105
Course Title: Academic Project 107

Semester-X 108
Course Title: Advanced Macroeconomics-II 108
Course Title: Advanced Economic Growth and Development-II 110
Course Title: Advanced International Economics-II 112
Course Title: Econometrics-II 114
Course Title: History of Economic Thought -II 116
Course Title: Financial Institutions and Markets- II 118
Course Title: Demography -II.....120
Course Title: Industrial Economics-II 122
Course Title: Dissertation on Major/Minor 124

NEP 2020 Course Structure

Semester	Core (DSC)	Elective (DSE)	Generic Elective (GE)	Ability Enhancement Course (AEC)	Skill Enhancement Course (SEC)	Internship/ Apprenticeship/Project (2)	Value addition course (VAC)	Total Credits
I	Discipline A1- (4) Discipline B1- (4) Discipline C1- (4)		Choose one from a pool of courses GE-1 (4)	Choose one from a pool of AEC courses (2)	Choose one from a pool of courses (2)		Choose one from a pool of courses (2)	22 credits
II	Discipline A 2 (4) Discipline B 2 (4) Discipline C 2 (4)		Choose one from a pool of courses GE-2 (4)	Choose one from a pool of AEC courses (2)	Choose one from a pool of courses (2)		Choose one from a pool of courses (2)	22 credits
	Students on exit shall be awarded Undergraduate Certificate (in the Field of Multidisciplinary Study) after securing the requisite 44 credits in Semesters I and II							Total = 44
III	Discipline A 3 (4) Discipline B 3 (4) Discipline C 3 (4)	Choose from pool of courses, DSE A/B/C (4) OR Choose from pool of courses, GE -3 (4)		Choose one from a pool of AEC courses (2)	Choose one SEC (2)		Choose one from a pool of courses (2)	22 credits
IV	Discipline A 4 (4) Discipline B 4 (4) Discipline C 4 (4)	Choose from pool of courses, DSE A/B/C (4) OR Choose from pool of courses GE - 4 (4)		Choose one from a pool of AEC courses (2)	Choose one SEC (2)		Choose one from a pool of courses (2)	22 Credits
	Students on exit shall be awarded Undergraduate Diploma (in the Field of Multidisciplinary Study) after securing the requisite 88 credits on completion of Semester IV							Total = 88
V	Discipline A 5 (4) Discipline B 5 (4) Discipline C 5 (4)	Choose one from a pool of courses DSE A/B/C- (4) OR Choose one from a pool of courses GE-5 (4)			Choose one SEC (2)	Internship/ Apprenticeship/ Project/Community outreach (4)		22 credits
VI	Discipline A 6 (4) Discipline B 6 (4) Discipline C 6 (4)	Choose one from a pool of courses DSE A/B/C– (4) OR Choose one from a pool of courses GE-6 (4)			Choose one SEC (2)	Internship/ Apprenticeship/ Project/Community outreach (4)		22 credits
	Students on exit shall be awarded Bachelor of (in the Field of Multidisciplinary Study) after securing the requisite 132 credits on completion of Semester VI							Total= 132

VII	DSC-(4)	Choose three DSE (3x4) courses OR Choose two DSE- (2x4) and one GE (4) course OR Choose one DSE (4) and two GE (2x4) courses (total = 12)				Dissertation on Major (4+2) OR Dissertation on Minor (4+2) OR Academic project/ Entrepreneurship (4+2)	22 credits
VIII	D SC- (4)	Choose three DSE (3x4) courses OR Choose two DSE -(2x4) one GE (4) course OR Choose one DSE (4) and two GE (2x4) courses (total = 12)				Dissertation on Major (4+2) OR Dissertation on Minor (4+2) OR Academic project/ Entrepreneurship (4+2)	22 credits
Students on exit shall be awarded Bachelor of Economics with Research after securing the requisite 176 credits on completion of Semester VIII Or If a student opts for a two-year PG program, they have the option to obtain a PG diploma in the core subject upon earning 44 credits at the conclusion of the second semester of the PG program.							Total = 176
IX	DSC-(4)	Choose three DSE (3x4) courses OR Choose two DSE- (2x4) and one GE (4) course OR Choose one DSE (4) and two GE (2x4) courses (total = 12)				Dissertation on Major (4+2) OR Dissertation on Minor (4+2) OR Academic project/ Entrepreneurship (4+2)	22 credits
X	D SC- (4)	Choose three DSE (3x4) courses OR Choose two D SE -(2x4) one GE (4) course OR Choose one DSE (4) and two GE (2x4) courses (total = 12)				Dissertation on Major (4+2) OR Dissertation on Minor (4+2) OR Academic project/ Entrepreneurship (4+2)	22 credits
Students on exit shall be Master's in Economics after securing the requisite 220 credits on completion of Semester X							Total = 220

List of Papers (DSC, DSE, GE) with Semester Wise Titles in "Economics"					
Year	Semester	Course	Paper Title	Theory/Practical	Credits
Undergraduate Certificate in Economics					
FIRST YEAR	I	DSC	Basics of Microeconomics with Mathematical Techniques	Theory	4
		GE	Fundamentals of Economics	Theory	4
	II	DSC	Basics of Macroeconomics with Mathematical Techniques	Theory	4
		GE	Fundamentals of Indian Economy	Theory	4
Undergraduate Diploma in Economics					
SECOND YEAR	III	DSC	Basics of Public Finance	Theory	4
		DSE	Basic Mathematical and Statistical Techniques in Economics	Theory	4
		GE	Economic History of India (1857-1947)	Theory	4
	IV	DSC	Basics of Money and Banking	Theory	4
		DSE	History of Economic Thought	Theory	4
		GE	Fundamentals of Environmental Economics	Theory	4
Bachelor of Economics					
THIRD YEAR	V	DSC	Basics of International Economics	Theory	4
		DSE	Data Science Techniques in Economics	Theory	4
		GE	Fundamentals of Economy of Uttarakhand	Theory	4
		Project	Project/Field Survey	Theory/Practical	4
	VI	DSC	Structure & Problems of Indian Economy	Theory	4
		DSE	Basics of Economic Growth & Development	Theory	4
		GE	Fundamentals of Gender Studies	Theory	4
		Project	Project/Field Survey	Theory/Practical	4
Bachelor of Economics with Research					
FOURTH YEAR	VII	DSC	Advanced Microeconomics- I	Theory	4
		DSE 1	Advanced Public Finance-I	Theory	4
		DSE 2	Research Methodology-I	Theory	4
		DSE 3	Mathematical Economics	Theory	4
		GE 1	Labour Economics-I	Theory	4
		GE 2	Agriculture Economics-I	Theory	4
		GE 3	Indian Economy –I	Theory	4
		GE 4	Cultural Economics -I	Theory	4
		Academic Project	Academic Project	Academic Project	6
		DSC	Advanced Macroeconomics- I	Theory	4
		DSE 1	Advanced Public Finance-II	Theory	4

	VIII	DSE 2	Research Methodology-II	Theory	4
		DSE 3	Advanced Statistics	Theory	4
		GE 1	Labour Economics-II	Theory	4
		GE 2	Agriculture Economics-II	Theory	4
		GE 3	Indian Economy –II	Theory	4
		GE 4	Cultural Economics -II	Theory	4
		DISSERTATION	Dissertation on Major/Dissertation on Minor	Practical	6
Master's in Economics					
FIFTH YEAR	IX	DSC	Advanced Microeconomics- II	Theory	4
		DSE 1	Advanced Economic Growth & Development-I	Theory	4
		DSE 2	Advanced International Economics-I	Theory	4
		DSE 3	Econometrics- I	Theory	4
		GE 1	History of Economic Thought-I	Theory	4
		GE 2	Financial Institutions and Markets-I	Theory	4
		GE 3	Demography-I	Theory	4
		GE 4	Industrial Economics -I	Theory	4
		Academic Project	Academic Project	Academic Project	6
	X	DSC	Advanced Macroeconomics- II	Theory	4
		DSE 1	Advanced Economic Growth & Development-II	Theory	4
		DSE 2	Advanced International Economics-II	Theory	4
		DSE 3	Econometrics- II	Theory	4
		GE 1	History of Economic Thought-II	Theory	4
		GE 2	Financial Institutions and Markets-II	Theory	4
		GE 3	Demography-II	Theory	4
		GE 4	Industrial Economics -II	Theory	4
		DISSERTATION	Dissertation on Major/Dissertation on Minor	Practical	6

Abbreviations-

DSC- Discipline Specific Course; DSE- Discipline Specific Elective; GE- Generic Elective

Mode of Evaluation-

Internal evaluation will be based on Assignment + Presentation

COURSE INTRODUCTION

The Course is designed for the students to pursue graduation and post-graduation with Economics in regular mode in semester system. The programme aims to inculcate economic thinking in students and help them in economic decision making. It aims to develop analytical view point in the students about the economic behavior of the people. The objective is to nurture the students as socially responsible and ethically aware citizens.

Programme Outcomes (Pos):	
PO 1	Economics subject enables the learners to build up a professional career as economists, financial advisors, economic planners and policy makers. It prepares them to cope up with the stress and strain involved in the process of economic development.

Programme Specific Outcomes (PSOs): UG I Year Undergraduate Certificate in Economics	
PSO1	To understand the basic concepts of Microeconomics and its applications.
PSO2	To understand the basic concepts of Economics.
PSO3	To understand the basic concepts of Macroeconomics and its applications.
PSO4	To understand the basic concepts of Indian Economy.

Programme Specific Outcomes (PSOs): UG II Year Undergraduate Diploma in Economics	
PSO1	To understand the basic concepts of Public Revenue, Public Debt, Public Expenditure etc.
PSO2	To understand the concepts of Mathematical and Statistical Techniques that are used in economic analysis.
PSO3	To understand the concept regarding Economic History of India.
PSO4	To understand the basic concepts of Money, Banking, & monetary standards, central banking system etc.
PSO5	To understand the concepts of Economic Thoughts.
PSO6	To understand the concepts of Environment Economics.

Programme Specific Outcomes (PSOs): UG III Year Bachelor of Economics	
PSO1	To understand the basic concept of International Trade.
PSO2	To understand the concept of Data Science and its applications.
PSO3	To understand the economy of Uttarakhand.
PSO4	To understand the concept of Structure & Problems of Indian Economy.
PSO5	To understand the basic concept of Theory of Economic Growth & Development.
PSO6	To understand the concepts of Gender studies.

Programme Specific Outcomes (PSOs): UG IV Year Bachelor of Economics with Research	
PSO1	To understand the Advanced concepts of Microeconomics.
PSO2	To understand the Advanced concepts of Macroeconomics.
PSO3	To understand the Advanced concepts of Public Finance.
PSO4	To understand the concepts of Research Methodology.
PSO5	To understand the concepts of Mathematical Economics.
PSO6	To understand the Advanced concepts of Labour Economics.
PSO7	To understand the Advanced concepts of Agricultural Economics.
PSO8	To understand the Advanced concepts of Indian Economy.
PSO9	To understand the concepts of Cultural Economics.
PSO10	To understand the Advanced concept of Statistics.

Programme Specific Outcomes (PSOs): PG V Year Master's in Economics	
PSO1	To understand the Advanced concepts of Microeconomics.
PSO2	To understand the Advanced concepts of Macroeconomics.
PSO3	To understand the Advanced concept of Economics Growth & Development.
PSO4	To understand the concepts of Advanced International Economics.
PSO5	To understand the concept of Econometrics.
PSO6	To understand the concept of History of Economic Thought.
PSO7	To understand the concepts of Financial Institutions and Markets.
PSO8	To understand the concepts and theories of Demography.
PSO9	To understand the concepts of Industrial Economics.

UNDERGRADUATE CERTIFICATE IN ECONOMICS

FIRST YEAR	I	DSC	Basics of Microeconomics with Mathematical Techniques	Theory	4
		GE	Fundamentals of Economics	Theory	4
	II	DSC	Basics of Macroeconomics with Mathematical Techniques	Theory	4
		GE	Fundamentals of Indian Economy	Theory	4

Semester I

Undergraduate Certificate in Economics

Discipline Specific Course (DSC)- Basics of Microeconomics with Mathematical Techniques

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSC: Basics of Microeconomics with Mathematical Techniques	4	3	1	0	Passed class XII	Nil

Undergraduate Certificate in Economics		
Programme : Undergraduate Certificate in Economics	Year 1	Semester 1 Paper 1
Subject : Economics		
Course Code : ECODSC101	Course Title : Basics of Microeconomics with Mathematical Techniques	

Course Outcomes: The course will help students to:

- Overview of economics, including definitions, equilibrium types, economic analysis, and the role of mathematics in economic theory.
- Examination of demand theory through utility analysis, elasticity, consumer surplus, and the application of linear equations in demand and supply.
- Analysis of production theory, including returns to factors, production possibility curves, and the application of calculus in cost and revenue functions.
- Exploration of market types, classical theories of wages, rent, interest, profit, and the use of mathematical techniques for profit maximization and equilibrium calculations.

Credits : 4 Credits — Discipline Specific Course

Unit	Topic	No. of Hours
I	Definition, Nature, Scope and Methods of Economics. Production Possibility Curve and Opportunity Cost. **Equilibrium**: Stable, Unstable & Neutral, Short-Term & Long-Term, Particular & General, Static & Dynamic, Unique and Multiple. **Economic Analysis:** Micro & Macro Analysis. Static & Dynamic Analysis. **Mathematical Techniques in Economics:** Nature and Scope of Mathematical Economics. Mathematical Economics Vs Literary Economics. Mathematical Economics Vs Econometrics. Role of Mathematical Techniques in Economic Analysis.	13
II	**Theory of Demand:** Utility Analysis of Demand. (Cardinal & Ordinal Approach) Indifference Curve Analysis. Consumer's Equilibrium. Law of	17

	Demand, Giffen Goods and Inferior Goods. Concept of Elasticity of Demand & Consumer's Surplus. **Economic Applications using Mathematics- Functional Relationship:** Graphical Representation of Functions. **Equation of Straight Lines:** Understanding Application of Straight Lines in Economics. **Use of Linear Equations:** Linear Demand & Supply Law, Market Equilibrium. **Functions:** Demand and Supply. Equilibrium. **Application of Differentiation:** Elasticity of Demand, Use of Differential and Integral Calculus in understanding the concepts of Total (TU) and Marginal Utility (MU) and their relation. **Maxima & Minima:** Calculation of Consumer Surplus.	
III	**Theory of Production:** Returns to a Variable Factor. **Production Function:** Isoquants, Fixed Proportions and Variable Proportions, Returns to Scale. Law of Diminishing Marginal Returns. Concept of Cost and Revenue. **Economic Application using Mathematics: Use of Functions** in Production, Cost and Revenue. **Use of Differential and Integral Calculus** in understanding the concepts of total, marginal, and average cost and revenue.	15
IV	**Introduction to Different Types of Markets in Economics:** Perfect Competition, Monopoly and Monopolistic Competition. Classical Theory of Wage, Rent, Interest & Profit. Introduction to Welfare Economics. **Economic Application using Mathematics:** Calculation of Profit Maximisation for Perfect Competition & Monopoly Market using Maxima-Minima, Use of Definite Integration in different markets to find Equilibrium Price and Equilibrium Quantity.	15

Essential Readings:

1. Hal R. Varian, Intermediate Microeconomics, Springer Publication.
2. Agarwal, D.R., Elementary Mathematics and Statistics for Economists, Vrinda Publication Delhi
3. Nicholson, W. and Synder C., Basic Principles in Microeconomics, Cengage Learning
4. Pindyck, R and Rubinfeld D., Microeconomics, Perason
5. Bose, D. An Introduction to Mathematical Economics. Himalaya Publishing House.
6. लोहनी, जीतेन्द्र कुमार एवं पदम् इस बिष्ट, अर्थशात्र में गणितीय एवं सांख्किकीय विधियां, कुणाल बुक्स, नई दिल्ली

Recommended/Additional Readings:

1. Koutsoyiannis, A., Modern Microeconomics, Macmillan, London.
2. Roy Choudhary, K., Modern Micro Economics, Theory and Application, Vols. I, II & III, Dominant Publishers and Distributors, New Delhi.
3. लाल, एस. एन. एवं एस. के. चतुर्वेदी, आर्थिक विश्लेषण की तकनीक, शिव पब्लिशिंग हाउस, इलाहाबाद।
4. गुप्ता, के एल, रविकांत अग्गरवाल एवं प्रवीण जैन. अर्थशास्त्र ली आधारभूत परिमाणात्मक विधियां, नवनीत प्रकाशन, आगरा.

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www.swayam
www.inflibnet

15

Semester I

Undergraduate Certificate in Economics

Generic Elective (GE)- Fundamentals of Economics

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
GE: Fundamentals of Economics	4	3	1	0	Passed class XII	Nil

Undergraduate Certificate in Economics			
Programme :Undergraduate Certificate in Economics		Year 1	Semester 1 Paper II
Subject : Economics			
Course Code : ECOGE101	Course Title : Fundamentals of Economics		
Course Outcomes : The course will help students to: • Understand the fundamentals of Economics. • Know about Micro & Macro Economics. • Learn about the Banking system and Public Finance.			
Credits : 4 Credits		Generic Elective	

Unit	Topics	No. of Hours
I	Meaning, Nature & Scope of Micro Economics. Concept of Cardinal & Ordinal approach of Utility. Indifference Curve Analysis. Consumer Equilibrium. Concept of Demand.	17
II	Meaning, Nature & Scope of Macro Economics. Type of Macro Economics. National Income and Related Concepts. Concept of Inflation and Employment.	17
III	Types & Classification of Money. Commercial Banks: Meaning and Function, Central Bank: Meaning and Functions.	14
IV	Meaning & Scope of Public Finance. Concept of Direct & Indirect Tax.	12

Essential Readings:

1. Chaturvedi, D.D. & Anand Mittal; Principles of Macro Economics ; Kitab Mahal, Delhi
2. Mankiw, N.G., Principles of Economics.
3. Hal R. Varian, Intermediate Microeconomics, Springer Publication.

Recommended/Additional Readings

1. Musgrave, R.A. and Musgrave P.B., Public Finance in Theory and Practice, McGraw Hill, New York.
2. Prest, A.R. and Barr, N.A., Public Finance in Theory and Practice, ELBS, London.
3. Buchanan, J.M., Public Finance, Irwin, New York.
4. Hillman, A.L., Public Finance and Public Policy, Cambridge University Press.
5. Mithani, D.M. : Macro Economics.
6. एस० के० सिंह, लोक वित्त, साहित्य भवनआगरा।
7. एम० एल० झिंगन, उच्च आर्थिक सिद्धान्त, वृन्दा पब्लिकेशन, नई दिल्ली।
8. एच० एल०आहूजा, उच्चतर आर्थिक सिद्धान्त, एस० चाँद, नई दिल्ली

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Semester II

Undergraduate Certificate in Economics

DISCIPLINE SPECIFIC COURSE (DSC)- Basics of Macroeconomics with Mathematical Techniques

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSC: Basics of Macroeconomics with Mathematical Techniques	4	3	1	0	Passed class XII	Nil

Undergraduate Certificate in Economics		
Programme : Undergraduate Certificate in Economics	Year I	Semester 2 Paper I
Subject : Economics		
Course Code : ECODSC201	Course Title : Basics of Macroeconomics with Mathematical Techniques	
Course Outcomes: • Students will learn about macroeconomics, different theories and their applications regarding the determination of production, income and employment. • Students will learn about the consumption, saving and investment functions.		
Credits : 4 Credits	Discipline Specific Course	

Unit	Topics	No. of Hours
I	Macroeconomics: Meaning, Nature, Scope, Importance and Limitations. Types of Macro Economics – Macro-Statics and Macro Dynamics.	10
II	National Income Concepts: Gross Domestic Product (GDP), Net Domestic Product (NDP), Gross National Product (GNP), Net National Product (NNP), Personal Income (PI), Disposable Income (DI). **Mathematical Applications**: How to calculate the GDP with Expenditure, Income & Output approach.	13
III	Classical Approach to Employment: Classical Theory of Employment, Say's Law of Market. Unemployment – Types and	13

	Causes. **Mathematical Applications:** Graphical representation of the labour market equilibrium (under flexible wages) and aggregate production function.	
IV	Keynesian Economics: Theory of Employment, Aggregate Demand and Aggregate Supply. Concept of Effective Demand. Consumption Function, Saving Function and Investment Function: Average Propensity to Consume and Marginal Propensity to Consume, Average Propensity to Save and Marginal Propensity to Save, Marginal Efficiency of Capital. Introduction to Multiplier (investment multiplier, tax cut multiplier, balanced budget multiplier, foreign trade multiplier) and Accelerator. **Mathematical Applications:** Basic concepts of AD-AS Model for Effective Demand, Examples of Calculating APC, MPC, APS, MPS, MEC, Investment Multiplier & Investment using Differentiation and Graphical Analysis.	24

Essential Readings:

1. Dornbusch, R. and F. Stanley, Macroeconomics, Mc Graw Hill, New York.
2. N.G. Mankiw, Macroeconomics, W.H. Freeman & Co.
3. O. Blanchard and D.R. Johnson, Macroeconomics, Pearson.
4. Agarwal, D.R., Elementary Mathematics and Statistics for Economists, Vrinda Publication Delhi

Recommended/Additional Readings:

1. Jha, R., Contemporary Macroeconomic Theory and Policy, Wiley Eastern, New Delhi.
2. Vaish, M.C., Macroeconomic Theory, Vikas, New Delhi.
3. Gupta, S.B., Monetary Planning in India, OUP, New Delhi.
4. Reddy, Y.V., A Review of Monetary and Financial Sector Reforms in India, UBSPD, New Delhi.
5. Keynes, J.M. General Theory of Employment Money and Interest.
6. Frisch, H., Theories of Inflation, Cambridge University Press.
7. Rakshit, M., Studies in the Macroeconomics of Developing Countries, OUP, New Delhi.
8. Rana K.C. and K.N. Verma, Macro Economic Analysis, Vishal Publishing Co., Jalandhar.
9. एम0 एल0 झिंगन, समष्ट अर्थशास्त्र, वृन्दा पब्लिकेान, नई दिल्ली।
10. लाल, एस. एन. एवं एस. के. चतुर्वेदी, आर्थिक विश्लेषण की तकनीक, शिव पब्लिशिंग हाउस, इलाहाबाद।

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Semester II

Undergraduate Certificate in Economics

Generic Elective (GE)-Fundamentals of Indian Economy

No.ofHours-60

CREDITDISTRIBUTION, ELIGIBILITY, PRE-REQUISITESOFTHECOURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course(if any)
		Lecture	Tutorial	Practical/Practice		
GE: Fundamentals Of Indian Economy	4	3	1	0	Passed Class XII	Nil

Undergraduate Certificate in Economics		
Programme: Undergraduate Certificate in Economics	Year1	Semester2 Paper II
Subject: Economics		
Course Code : ECOGE201	Course Title: Fundamentals of Indian Economy	

Course Outcomes: The course will help students to

- Learn the basic structure of Indian Economy.
- Learn about the demographic profile of India.
- Learn about the agriculture, secondary and tertiary sector of India.
- Learn the basic concept of unemployment and its types.

Credits: 4 Credits	Generic Elective

Unit	Topics	No.of Hours
I	Indian Economy-Nature, structure and features. Natural Resources-Land, water, forest and minerals. Infrastructure-Importance and its Development in India	17
II	Demographic Profile of Indian Economy-Size and growth rate of population in India. Demographic dividend and unorganized sector	13
III	Agriculture, Manufacturing and Service Sectors in India-Importance &Nature.	17
IV	Unemployment and Poverty in India: Nature, Estimation, Types and Causes. current/Emerging policies	13

Essential Readings:

1. Agrawal, A.N. : Indian Economy, Wishwa Prakashan, New age International (P) Limited, New Delhi.
2. Misra, S. K. & V. K.Puri : Indian Economy.
3. Ruddar Datt & K. M..P.Sundharam: Indian Economy, S. Chand, New Delhi.
4. Recent Economic Survey of Government of India

Recommended/ Additional Readings:

1. Bimal Jalan : Problems of Indian Economy.
2. Parekh, K.S.: India Development Report.
3. Dutt, R. (ed.): Second Generation Economic Reforms in India.
4. रूद्दत्त एवं के० एम० पी० सुन्दरम, भारतीय अर्थव्यवस्था, एस० चाँद, नईदिल्ली।
5. मिश्रा एवं पुरी, भारतीय भारतीय अर्थव्यवस्था, हिमालया पब्लिकेशन, दिल्ली।

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UNDERGRADUATE DIPLOMA IN ECONOMICS

SECOND YEAR	III	DSC	Basics of Public Finance	Theory	4
		DSE	Basic Mathematical and Statistical Techniques in Economics	Theory	4
		GE	Economic History of India (1857-1947)	Theory	4
	IV	DSC	Basics of Money and Banking	Theory	4
		DSE	History of Economic Thought	Theory	4
		GE	Fundamentals of Environmental Economics	Theory	4

Semester III

Undergraduate Diploma in Economics

DISCIPLINE SPECIFIC COURSE (DSC)- Basics of Public Finance

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSC: Basics of Public Finance	4	3	1	0	Passed Undergraduate Certificate in Economics	Nil

Undergraduate Diploma in Economics		
Programme : Undergraduate Diploma in Economics	Year 2	Semester 3 Paper 1
Subject : Economics		
Course Code : ECODSC301	Course Title : Basics of Public Finance	
Course Outcomes : • The students will become familiar with Public Finance and Social Welfare. • The students will be able to know about Public Expenditure, Public Revenue and Public Debt.		
Credits : 4 Credits		Discipline Specific Course

Unit	Topics	No. of Hours
I	Public Finance: Meaning, Nature, Scope and Importance. Principle of Maximum Social Advantage. Public goods, Private goods & Merit goods, Fiscal Policy – Meaning and Scope	12
II	Public Expenditure: Meaning, Scope, Canons. Effects and Significance of Public Expenditure. Causes of increasing Public Expenditure.	12
III	Public Revenue: Meaning and Sources. Taxation: Meaning and Objectives, Canons of taxation, Direct & Indirect Taxes, Effects of Taxation	12
IV	Deficit: Meaning and Types- Revenue Deficit, Fiscal Deficit and Primary Deficit. Public Debt: Meaning, Objectives, Sources, Types and	24

	Effects, Debt Redemption. Introduction to Monetary Policy and the Interaction between Fiscal and Monetary Policy Public Revenue ,Expenditure and Debt in India's Recent Budget	

Essential Readings:

1. Hillman, A.L.,Public Finance and Public Policy, Cambridge University Press.
2. Musgrave,R.A. and Musgrave P.B.,Public Finance in Theory and Practice, Mc Graw Hill, New York.
3. Singh,S.K.,Public Finance in Theory and Practice,S.Chand, NewDelhi.
4. India's Recent Budget Papers

Recommended/AdditionalReadings:

1. Prest,A.R.and Barr,N.A.,Public Finance in theory and Practice, ELBS, London.
2. Prest,A.R.,Public Finance in Under-developed Countries,Vikas, New Delhi.
3. Bhatia,H.L.,Public Finance,Vikas Publishing House, New Delhi.
4. Herber,B.P.,Modern Public Finance,AITBS,NewDelhi.
5. Reserve Bank of India, Monthly Bulletins.
6. Recent Budget Papers of the Government of India.
7. Mithani,D.M. :Modern Public Finance.
8. Andley,K.K.and Sundharam,K.M.P. :Public Finance and Public Economics.
9. ,l0ds0flag]yksdfoRr]lkfgR;Hkouvkxjk\
10. Papola T.s : Public Finance

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Semester III

Undergraduate Diploma in Economics

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Basic Mathematical and Statistical Techniques in Economics

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSE: Basic Mathematical and Statistical Techniques in Economics	4	3	1	0	Passed Undergraduate Certificate in Economics	Nil

Undergraduate Diploma in Economics		
Programme : Undergraduate Diploma in Economics	**Year 2**	**Semester 3 Paper II**
Subject: Economics		
Course Code: ECODSE301	**Course Title: Basic Mathematical and Statistical Techniques in Economics**	

Course Outcomes: The course will help students to:

- Understand and apply various number types and functions, including linear, quadratic, and exponential, to analyse economic relationships and visualize data behaviour.
- Grasp the concepts of limits and continuity, and utilize differentiation to identify maxima and minima, applying these principles to solve economic problems.
- Master integration techniques and their applications in economics, enabling the evaluation of economic models and functions.
- Employ statistical methods to analyse economic data, make informed decisions, and understand data types, measures of central tendency, and dispersion, including income inequality analysis.
- Utilize matrix operations and index number construction methods to analyse economic data and calculate economic indicators like dearness allowance.

Credits: 4 Credits	**Discipline Specific Elective**

Note: Elementary Quantitative concepts with illustration from Economics with the help of graph and equations where ever possible. Proof of theorems is not expected. (Simple Calculator without mathematical and statistical functions is allowed but candidates shall have to arrange the calculator at their own)

Unit	Topics	No. of Hours
I	**Theory of Numbers:** Natural Numbers, Integers, Rational Numbers, Irrational Numbers, Real Numbers and Complex Numbers. Indices and Surds. **Variables and Constant. Equation and Identity:** Linear, Simultaneous and	10

	Quadratic Equations, Use of Equations in Economics. **Functions of a Single Variable:** Linear Functions. Quadratic Functions. Polynomial Functions. Logarithmic and Exponential Functions, **Graphing Functions:** Techniques for visualizing the behaviour of different types of functions. Economic Applications of Functions.	
II	**Limits and Continuity of Functions:** Understanding limit & Continuity of functions. Economic Applications of Continuous and Discontinuous Functions. **Derivatives and Differentiation:** Definition of derivative and differential, Basic rules of Differentiation, Partial Derivatives, Higher-order derivatives, **Maxima & Minima**: Introduction, Absolute Maximum and Minimum Value, Application of Differentiation in Economics. **Integral Calculus**: Theorems of Integration, **Definite Integration:** Evaluation using by Substitution. Economic Application of Integration.	20
III	**Statistics in Economics:** Application of statistical methods to analyse economic data. Use of statistics for decision-making and policy formulation. **Data Types:** Primary Vs Secondary Data. **Data Classifications:** Point-in-Time Data, Time Series Data, Cross-Section Data. **Measurement Scales:** Nominal Scale, Ordinal Scale, Interval Scale. Classification and Tabulation of Data. Graphical Representation of Data. **Measure of Central Tendency:** Mean, Median, Mode. **Measure of Dispersion**: Range, Standard Deviation, Coefficient of Variation, Lorenz Curve. **Skewness & Kurtosis. Application of Statistical Techniques in Economics**: Summarizing Economic Data (Average Income etc.), Measurement of Income Inequality using Dispersion, Income Distribution asymmetry using Skewness.	18
IV	**Matrix:** Definition, Types, Elementary Operations on Matrices. **Determinants**. Inverse of a Matrix. Cramer's Rule. **Index Numbers:** Definition, Types. Simple vs. Weighted Index Numbers **Construction of Index Numbers:** Methods (Aggregative and Relative Methods) Fisher's Ideal Formula. Calculation of Dearness Allowance using Index Number.	12

Essential Readings:

1. Gupta, S.P., Statistical Methods, Sultan Chand, New Delhi.
2. Chiang, A.C., Fundamental Methods of Mathematical Economics, McGraw Hill.
3. Monga, G.S., Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi.

Recommended/Additional Readings:

1. Allen, R.G.D., Mathematical Analysis for Economists, A.I.T.B.S., Publishers and Distributors, Delhi.
2. D.N. Gujarati, Student Solutions Manual for use with Basic Econometrics, McGraw Hill.
3. D.N. Gujarati, Basic Econometrics, McGraw Hill
4. Yamane, T., Mathematics for Economists- An Elementary Survey, Prentice Hall of India, New Delhi.
5. Gupta, S.P., Statistical Methods, Sultan Chand, New Delhi.
6. Bose, D., An Introduction to Mathematical Economics, Himalaya Publishing House, New Delhi.
7. जीतेन्द्र कुमार लोहनी एवं पदम एस बिष्ट अर्थशास्त्र में गणितीय एवं सांख्यिकीय विधियाँ कुनाल बुक्स दिल्ली

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Semester III
Undergraduate Diploma in Economics

Generic Elective (GE)- Economic History of India (1857-1947)

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
GE: Economic History of India (1857-1947)	4	3	1	0	Passed Undergraduate Certificate in Economics	Nil

Undergraduate Diploma in Economics		
Programme : Undergraduate Diploma in Economics	**Year 2**	**Semester 3 Paper III**
Subject : Economics		
Course Code : ECOGE301	**Course Title : Economic History of India (1857-1947)**	
Course Outcomes: • Students will learn about the economic history of India during the colonial period. • Students will learn about the development of agriculture, industry and transport during the colonial era.		
Credits : 4 Credits	**Generic Elective**	

Unit	Topics	No. of Hours
I	Introduction to Colonial India: Overview of Economic Structure and Policies in colonial era. Economic Ideas of Naoroji, Ranade and Gandhi.	15
II	Macro Trends- Composition of National Income, Demographic features & Occupational Structure during colonial period.	12
III	Agriculture- Agrarian Structure & Land relations, agriculture markets, rural indebtedness and agriculture during colonial period.	13
IV	Industry & Transport- Evolution of Industrial Structure, Nature of Industrialization in inter war period: World War I and World War II (1914 to 1945). The Deindustrialization and Industrial sector in India. Development of transport in India during Colonial era.	20

Essential Readings:

1. Roy, Tirthankar, The Economic History of India, Oxford.
2. Bagchi, A.K., Colonialism and Indian Economy, Oxford University Press.
3. Irfan Habib, Indian Economy 1858-1914, A people History of India, Vol.28, Tulika,2006.
4. Dharma Kumar, The Cambridge Economic History of India, Cambridge University Press.

Recommended/Additional Readings.

1. Sheshadri, G.B.: Economic Doctrines.
2. Ganguli, B.N.: Indian Economic Thought: A 19th Century Perspective.
3. Lakshmi Subramanian, History of India 1707-1857, Orient Black swan, 2010, Chapter 4.
4. Rajat Ray; Entrepreneurship and Industry in India, 1994.
5. Kaushal G. Economic History of India -17 to 1966, Kalyani Publishers.
6. वी०सी० सिन्हा, आर्थिक विचारों का इतिहास, एस० बी० पी० डी० पब्लिकेशन आगरा।

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Semester IV

Undergraduate Diploma in Economics

DISCIPLINE SPECIFIC COURSE (DSC)- Basics of Money & Banking

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSC: Basics of Money & Banking	4	3	1	0	Passed Undergraduate Certificate in Economics	Nil

Undergraduate Diploma in Economics		
Programme : Undergraduate Diploma in Economics	Year 2	Semester 4 Paper I
Subject: Economics		
Course Code: ECODSC401	Course Title: Basics of Money & Banking	

Course Outcomes:

- Students will understand the concept of money and banking and their theories.
- Students will learn about inflation and deflation.
- Students will learn about Indian monetary system and its working.

Credits : 4 Credits — **Discipline Specific Course**

Unit	Topics	No. of Hours
I	Money: Nature, Functions, Significance and Classification. Role of Money in Capitalist, Socialist and Mixed Economies. Monetary Standards: Gold and Paper, Gresham's Law.	13
II	Supply and Demand for Money. High Powered Money. Fisher's Quantity Theory of Money. Income Theory of Money. Keynesian Theory of Money and Prices. Friedman Money Demand Function. Value of Money and its Measurement. Concept of Endogenous Money. IS-LM Curve.	15
III	Inflation and Deflation – Definition, Type and Causes. Financial Market: Money Market and Capital Markets.	12
IV	Commercial Banking: Meaning & Functions. Credit Creation-Process, Purpose and Limitation. Central Banking: Meaning,	20

	Functions and Methods of Credit Control. Role and Functions of the Reserve Bank of India, Rural Banking.	

Essential Reading: -

1. K.M.P.Sumdharam: Money, Banking and International Trade, Sultan Chand, New Delhi.
2. Sethi,T.T,Money, Banking & International Trade, S Chand, New Delhi.
3. Bhaduri, Amit, Macroeconomics: The Dynamics of Commodity Production (chapters on money).

Recommended/Additional Readings

1. Recent Report on Finance
2. RBI Bulletin
3. Ackley, G.:Macro economics: Theory and Policy.
4. Vh-Vh-L-fh]egnzkcafdax, ovUr jkV%; 0;kikj]y[ehukjk;.kvxoky]vkxjk
5. fla*kb[th-lh-,oa t-rih-feJk]egnzkcSafdax, oavUr jkV%; 0;kikj]lkfgR;fkouifeyds'ku]vkxjk

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Semester IV

Undergraduate Diploma in Economics

DISCIPLINE SPECIFIC ELECTIVE (DSE)- History of Economic Thought

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSE: History of Economic Thought	4	3	1	0	Passed Undergraduate Certificate in Economics	Nil

Undergraduate Diploma in Economics		
Programme : Undergraduate Diploma in Economics	**Year 2**	**Semester 4 Paper II**
Subject : Economics		
Course Code: ECODSE401	**Course Title: History of Economic Thought**	

Course Outcomes:

- Students will come to know the thoughts of Mercantilism and Physiocracy.
- Students will come to know about Classical thinkers in economics.
- Students will know about Socialist, Welfare and Keynesian Economics

Credits : 4 Credits	**Discipline Specific Elective**
Unit	**Topics**	**No. of Hours**
I	Ancient Indian Economic Thought: Shukracharya and Kautilya. Economic Ideas of Mercantilism, Economic Ideas of Physiocrats.	18
II	Classical and Neo-classical Thought: Adam Smith, David Ricardo, Thomas R. Malthus and Marshall.	13
III	Socialist, Welfare and Keynesian Thought - Karl Marx, Irving Fisher, A.C. Pigou & J.M. Keynes.	15
IV	Indian Economists: M.K. Gandhi, J.K. Mehta, Amartya Sen, Deen Dayal Upadhyay, Dattopant Thengdi and Prabhat Patnaik.	14

Essential Readings:

1. Schumpeter, J.A.: A History of Economic Analysis.
2. Stigler, G.J.: Essays in the History of Economics.
3. Sheshadri, G.B.: Economic Doctrines.
4. Ganguli, B.N.: Indian Economic Thought: A 19th Century Perspective.
5. T.N. Hajela, History of Economic Thought, Ane Books

Recommended/ Additional Readings:

1. Dobb, Maurice: Theories of Value and Distribution since Adam Smith.
2. Obrien: Classical Theory of Value and Distribution.
3. Meek, R.L.: Physiocracy.
4. Meek R.L.: The Labour Theory of Value.
5. Ricordo, David: Principles of Political Economy and Taxation Edited by P. Sraffa.
6. Smith, A.: Wealth of Nations, Book I, Chap. I to X.
7. Blaug, Mark: Economic Theory in Retrospect.
8. Stigler, G.J.: Production and Distribution Theories.
9. Roll, Eric: History of Economic Thought.
10. Haney: History of Economic Thought.
11. Dharma Kumar, The Cambridge Economic History of India, Cambridge University Press.
12. Prabhat Patnaik, Value of Money, Columbia University Press.
13. Utsa Patnaik and Prabhat Patnaik, Theory of Imperialism, Columbia University Press.
14. Gide and Rist: History of Economic doctrines. (हिन्दी रूपान्तर)
15. वी०सी० सिन्हा, आर्थिक विचारों का इतिहास, एस० बी० पी० डी० पब्लिकेशन आगरा।
16. दत्तोपंथ ठेंगड़ी जीवन दर्शन अमरनाथ डोगरा,सुरुचि प्रकाशन नई दिल्ली।

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Semester IV

Undergraduate Diploma in Economics

Generic Elective (GE)- Fundamentals of Environmental Economics

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
GE: Fundamentals of Environmental Economics	4	3	1	0	Passed Undergraduate Certificate in Economics	Nil

Undergraduate Diploma in Economics		
Programme :Undergraduate Diploma in Economics	**Year 2**	**Semester 4 Paper III**
Subject : Economics		
Course Code: ECOGE401	**Course Title : Fundamentals of Environmental Economics**	
Course Outcomes: • Students will learn about Environmental Economics and its concepts. • Students will learn the welfare implications of Environmental Economics.		
Credits : 4 Credits	**Generic Elective**	

Unit	Topics	No. of Hours
I	Environmental Economics- Meaning, Nature, Scope and Significance. Interaction of Economy and Environment. Material Balance Principle. Entropy Law.	13
II	Economic Development and Environment. Future of Economic Development and Environment. Economics of Recycling and Waste Management. Sustainable Use of Resources.	19
III	Environmental Problems - Causes, Issues of Climate Change, Global warming, Green House Effect, Ozone Layer Depletion, Land Degradation and Various type of Pollutions.	15
IV	Sustainable Development- Basic Concept, Sustainable approaches to Sustainability and Development Indicators. Sustainable Development Goals and India.	13

Essential Readings:

1. Jhingan, M.L., Environmental Economics: Theory, Management and Policy, Vrinda Publication, New Delhi.
2. Anthony, C. Fisher, Environment and Resource Economics, 1995.
3. Sharma, Environmental Economics, National Publication, New Delhi.
4. Awasthi, N.M. and P.R. Pande, Environmental Studies, Laxmi Narayan Agarwal Pub, Agra.
5. Rao, V.K. & R.S.Reddy, Environment Education, Commonwealth Publishers, New Delhi.

Recommended/Additional Readings:

1. Murthi, M.N., Economic Evaluation of Environmental Programmes, Commonwealth Publishers, New Delhi.
2. Vohra, P. & R. Mehta, Environmental Economics, Commonwealth Publishers, New Delhi.
3. Sankar, Ulaganthan ed., Environmental Economics, OUP, New Delhi, 2001.
4. Perman, R.M and J. McGilvary: Natural Resource and Environmental Economics.
5. Mehta, S., S. Mundle and U. Sankar: Controlling Pollution: Incentives and Regulation, SAGE, New Delhi.
6. Dasgupta, P.S. and G.M. Heal: Economic Theory and Exhaustible Resources, Cambridge. University Press, Cambridge.
7. ESCAP: Accounting and Valuation of Environment – A Primer for Developing Countries, Vol.I, United Nations, New York.
8. अवस्थी, एन.एम., पर्यावरणीय अध्ययन, लक्ष्मी नारायण अग्रवाल पब्लिकेशन, आगरा।

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BACHELOR OF ECONOMICS

THIRD YEAR	V	DSC	Basics of International Economics	Theory	4
		DSE	Data Science Techniques in Economics	Theory	4
		GE	Fundamentals of Economy of Uttarakhand	Theory	4
		Project	Project/Field survey	Theory/ Practical	4
	VI	DSC	Structure & Problems of Indian Economy	Theory	4
		DSE	Basics of Economic Growth & Development	Theory	4
		GE	Fundamentals of Gender Studies	Theory	4
		Project	Project/Field survey	Theory/ Practical	4

Semester V

Bachelor of Economics

DISCIPLINE SPECIFIC COURSE (DSC)- Basics of International Economics

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSC: Basics of International Economics	4	3	1	0	Passed Undergraduate Diploma in Economics	Nil

Bachelor of Economics		
Programme : Bachelor of Economics	Year 3	Semester 5 Paper I
Subject : Economics		
Course Code : ECODSC501	Course Title: Basics of International Economics	

Course Outcomes:

- Students will be able to learn about inter-regional and international trade and its theories.
- Students will be able to learn the concepts of balance of trade, balance of payment and rate of exchange.
- Students will be able to learn about various international organisations.

Credits :4 Credits	Discipline Specific Course

Unit	Topics	No. of Hours
I	International Trade: Nature, Scope, Importance, Merits & Demerits. Inter-regional and International Trade.	12
II	Theories of International Trade: Theory of Absolute Advantage, Theory of Comparative Advantage. Modern Theory of Trade: Heckscher Ohlin Theory. Paul Krugman Theory of International Trade.	16
III	Gains and Terms of Trade. Balance of Payments and Balance of Trade. Disequilibrium in the Balance of Payments: Types, Causes and Correction.	16

IV	Rate of Exchange: Fixed vs. Flexible Exchange Rates. Purchasing Power Parity theory of Exchange Rate and Exchange Control. Free Trade vs. Protection. International Monetary Fund, World Bank, Asian Development Bank, World Trade Organization and BRICS.	16

Essential Readings:

1. Krugman, P.R., International Economics, Add Wesley Longman, Delhi.
2. Bhatia, H.L., International Economics, Vikas Publishing House, New Delhi.
3. Salvatore, D., International Economics, John Wiley, New York.

Recommended/Additional Reading:

1. Sodersten, Bo., International Economics, MacMillan, London.
2. Mannur, H.G., International Economics, Vikas Publishing House, New Delhi.
3. Meier G. M., Leading Issues in Economic Development, OUP, Mumbai.
4. Caves, R.E., et.al., World Trade and Payments, Harper Collins, U.
5. Chacholiades, M., International Trade Theory and Policy, McGraw Hill, New York.
6. Pearce, I.J., International Trade, Vols. I & II, Macmillan, London.
7. Bhagwati, J. and T.N. Srinivasan, Hours on International Trade, MIT Press, Cambridge.
8. Bhagwati, J., ed., International Economics, OUP, New Delhi.
9. Rana K.C. and K.N. Verma, International Economics, Vishal Publishing Co., Jalandhar.
10. Jajal R.S. & Bisht, N.S., Emerging Dimensions of Global Trade.
11. Jalal R.S., Trade Policy and Global Participation: Indian Experience, Swaroop & Sons, New Delhi.
12. एम० एल० शिंगन, अन्तर्राष्ट्रीय अर्थशास्त्र, वृन्दा पब्लिकेशन, नईदिल्ली।

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Semester V

Bachelor of Economics

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Data Science Techniques in Economics

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSE: Data Science Techniques in Economics	4	3	1	0	Passed Undergraduate Diploma in Economics	Nil

Bachelor of Economics		
Programme : Bachelor of Economics	**Year 3**	**Semester 5 Paper II**
Subject : Economics		
Course Code: ECODSE501	**Course Title : Data Science Techniques in Economics**	

Course Outcomes: The course will help students to:

- Understand the foundational concepts of data science, including data types, roles of data professionals, and data preprocessing techniques.
- Analyze and interpret various data types and collection methods in economics, while applying data cleaning and summarization techniques.
- Utilize data visualization tools and techniques to effectively present economic data, and understand the basics of predictive modelling and model evaluation.
- Explore the application of data science and machine learning in economics, addressing ethical considerations and future trends in the digital economy.

Credits : 4 Credits		**Discipline Specific Elective**
Unit	**Topics**	**No. of Hours**
I	**Understanding Data Science:** Definition, Importance, Scope. Understanding Structured vs. Unstructured Data. Big Data & Economic Data Sources. Role of data scientists and data analysts. Data Acquisition and Preprocessing.	10
II	**Understanding Variables:** Quantitative, Qualitative, Time-series, Cross-sectional Data. **Data Collection Methods in Economics:** Survey, Administrative Data, Experiments. **Data Cleaning:**	20

	Handling Missing Values, Outliers, and Duplicates. **Measures of Central Tendency**: Mean, Median, Mode. **Measures of Dispersion:** Variance, Standard Deviation. **Introduction to Correlation and Regression:** Focusing Economic Interpretation. **Data Summarization Techniques**: Tables, Charts, Economic Graphs.	
III	**Data Visualization:** Importance in Economics. **Types of Graphs for Visualization**: Line, Bar, Pie, Histogram, Scatter Plots (Use cases in Economic data). **Overview of Tools**: Microsoft Excel, Google Sheets, Tableau (Conceptual Understanding Only). **Predictive Modelling**: Introduction to Predictive Modelling (Simple Linear Regression, Introduction to Time Series Forecasting (e.g., GDP growth prediction). **Basics of Model Evaluation:** Concept of Overfitting and Underfitting.	15
IV	**Data Science Techniques in Economics:** Overview of data science relevance to economics (e.g. Spending Pattern of Consumer). Machine Learning Techniques in Economics. Data Mining and Economic Modeling. Big Data in Economics and tools for handling Big Data. **Ethics and Challenges in Data Science for Economics:** Ethical considerations in data collection and analysis, Challenges in Data Quality, Privacy, and Bias. Role of Artificial Intelligence in Economic Forecasting. **Future Trends:** Digital Economy, E-Governance, Data-driven Development. Some Real-World Case Studies.	15

Essential Readings:

1. Cathy O'Neil and Rachel Schutt, Doing Data Science, O'Reilly Media, 2013.
2. Joel Grus, Data Science from Scratch: First Principles with Python, O'Reilly Media, 2019.
3. Jeffrey S. Racine, An Introduction to Data Science, Princeton University Press, 2016.
4. G. Casella and R. Berger, Statistical Inference, Cengage Learning, Latest Edition.

Recommended/Additional Readings:

1. H. Kieran, Data Visualization: An Introduction, Princeton University Press
2. Schonberger, V.K. and Cucier K., Big Data, Hodder and Stoughton.
3. James, G., Witten, D. and Tibshirani, T.H.R., An Introduction to Statistical Learning with Applications in R, Springer
4. गुप्ता, एस पी, एवं गुप्ता, ए. सांख्यिकीय विधियाँ, शारदा पुस्तक भवन
5. जीतेन्द्र कुमार लोहनी एवं पदम एस बिष्ट अर्थशास्त्र में गणितीय एवं सांख्यिकीय विधियाँ कुनाल बुक्स दिल्ली

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Semester V
Bachelor of Economics

Generic Elective (GE)- Fundamentals of Economy of Uttarakhand

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
GE: Fundamentals of Economy of Uttarakhand	4	3	1	0	Passed Undergraduate Diploma in Economics	Nil

Bachelor of Economics		
Programme : Bachelor of Economics	Year 3	Semester 5 Paper III
Subject : Economics		
Course Code: ECOGE501	Course Title : Fundamentals of Economy of Uttarakhand	

Course Outcomes :

- The course introduces about the economy of Uttarakhand and demographic profile of Uttarakhand.
- Students will learn about the agriculture, industry and tourism economy of Uttarakhand.

Credits : 4 Credits	Generic Elective	
Unit	**Topics**	**No. of Hours**
I	Economy of Uttarakhand - Introduction & Characteristics. Demographic Profile of Uttarakhand. Unemployment, Poverty & Natural Resources in Uttarakhand.	15
II	Agricultural Profile – Agriculture, Animal Husbandry and Dairy Farming in Uttarakhand. Problems in Agriculture Sector.	18
III	Industrial Profile of Uttarakhand - MSME in Uttarakhand, Problems of Village and Cottage Industries.	15
IV	Tourism sector in Uttarakhand. Migration & Reverse Migration in Uttarakhand. Role of Women in Uttarakhand's Economy.	12

Essential Readings:

1. Pandey, P.C., D.C.Pandey, P.S. Bisht, RajnishPande: Economy of Uttaranchal Profile and Dynamics of Change, co-ed. Anamika Publishers & Distributors Pvt. Ltd. New Delhi.
2. Lohani, Jitendra Kumar, Rajnish Pande, Sarika Verma; Economy of Uttarakhand; Indu Book Services New Delhi.
3. Pandey, R.K., Rajnish Pande & Padam S. Bisht: Economy of Uttaranchal- Profile and Dynamics of Change, co-ed., Anamika Publishers & Distributers (P) Ltd., New Delhi.
4. Mehta, G.S. , Development of Uttarakhand : Issues and Perspectives, APH Publishing.
5. Joshi, Harish Chandra & Jitendra Kumar Lohani: Micro Finance Entrepreneurship and Empowerment.
6. लोहनी,जतेंद्र कुमार और पदम एस. बिष्ट :उत्तराखंड की अर्थिव्यवस्था ,कुनालबुक्स, नईदिल्ली।
7. सत्याल, विजेता: हिमालय क्षेत्र में प्रवासी श्रम शक्ति, कुनाल बुक्स, नई दिल्ली।
8. टम्टा, दीपक कुमार एवं श्वेता चनियाल: प्रवास समस्या एवं निदान, अखण्ड पब्लिशिंग हाऊस, दिल्ली।
9. टम्टा, दीपक कुमार एवं श्वेता चनियाल: ग्रामीण विकास, राधिका बुक्स, नई दिल्ली।
10. टम्टा, दीपक कुमार, पर्वतीय क्षेत्रों में सैन्य पृष्ठभूमि: एक अध्ययन, अखण्ड पब्लिशिंग हाऊस, दिल्ली।

Recommended/AdditionalReadings:

1. Recent Economic Survey of Uttarakhand
2. Bisht, Padam S.;Tourism Development in Kumaon, Anamika Publishers & Distributors Pvt. Ltd. New Delhi.
3. Recent Reports of NITI Aayog

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Semester V

Bachelor of Economics

Project/FieldSurvey

No.ofHours-105

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course(if any)
		Lecture	Tutorial	Practical/Practice		
Project/Field Survey	4	1	0	3	Passed Undergraduate Diploma in Economics	Nil

BachelorofEconomics

Programme: Bachelor of Economics	Year3	Semester5 Paper IV
Subject: Economics		
CourseCode: ECOP501	CourseTitle: Project/Field Survey	

Course Outcomes:

- The students will learn about research proposal, hypotheses, questionnaire ,report writing, citations, references and bibliography.
- It will help the students in developing a research temperament and experiential learning.

Credits:4Credits	Project

Unit	Topics	No.of Hours
I	Preparation of a Research Proposal. Framing of Objectives and Hypotheses. Review of Literature. Designing of a Questionnaire. Classification and tabulation of Data. Introduction to Descriptive and Inferential Statistical tools. Steps in Report Writing. Format of the research report. Footnote and Endnote. Rules for Citations & References. Bibliography writing-APA &MLA methods. Use of Tables and graphs in report.	15
II	**The students will be required to conduct a field study on any economic issue of Uttarakhand under the supervision of the assigned teacher and will submit a report. The report should not be less than 50 pages in a standard format and submitted to the concerned teacher.**	90

Essential Reading:

1. Sharma, Manoj, Research Methodology, Anmol Publications, New Delhi, 2004.
2. Kothari, C.R.: Research Methodology.
3. R.N. Trivedi & D.P. Shukla: Research Methodology (in Hindi).
4. पारस राय, अनुसंधान परिचय।

Recommended/Additional Readings:

1. Tandon: Research Methodology in Social Sciences.
2. Cauvery, R., et.al., Research Methodology, S. Chand, New Delhi.

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Semester VI

Bachelor of Economics

DISCIPLINE SPECIFIC COURSE (DSC)- Structure & Problems of Indian Economy

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSC: Structure & Problems of Indian Economy	4	3	1	0	Passed Undergraduate Diploma in Economics	Nil

Bachelor of Economics		
Programme: Bachelor of Economics	**Year 3**	**Semester 6 Paper I**
Subject : Economics		
Course Code: ECODSC601	**Course Title : Structure & Problems of Indian Economy**	

Course Outcomes: The course will help the students to

- Know about the features of the Indian Economy.
- Learn about the agricultural and industrial sectors of the economy.
- Learn about the problems of unemployment.

Credits :4 Credits	**Discipline Specific Course**

Unit	Topics	No. of Hours
I	Indian Economy: Nature, Structure and Features. Natural Resources: Land, Water, Forest, Minerals and Environment.	10
II	Demographic Profile of Indian Economy: Population Composition and main characteristics. Demographic dividend and unorganized sector. Unemployment in India: Causes, Types and Remedies. Poverty: Concept and types.	18
III	Agricultural structure in India: Importance, Nature and Features. Land Reforms. Green Revolution. Agricultural Labour. Agricultural Credit and Marketing.	15

IV	Industry and Services Sectors: Growth & Problems. Recent Industrial Policy: Make in India.	17

Essential Reading:

1. Amartya Sen, Development as Freedom, Alfred A. Knope, Inc.
2. Misra, S. K. & V. K.Puri : Indian Economy.
3. मिश्रा एवं पुरी, भारतीय अर्थव्यवस्था, हिमालया पब्लिकेशन, दिल्ली।
4. Bimal Jalan: Problems of Indian Economy.
5. Ruddar Datt& K. M.P.Sundharam: Indian Economy, S. Chand, New Delhi.
6. रुद्र दत्त एवं के० एम० पी० सुन्दरम, भारतीय अर्थव्यवस्था, एस० चाँद, नई दिल्ली।

Additional Reading:

1. Agrawal, A.N.: Indian Economy, Wishwa Prakashan, New age International (P) Limited, New Delhi.
2. J. Dreze and A. Sen, An Uncertain Glory: India and its Contradictions, Princeton University Press.
3. R.S.Jalal, "Rural Development in India: Issues and Policy" (Vol. I & II), Anmol Publication, New Delhi
4. Parekh, K.S.: India Development Report.
5. Dutt, R. (ed.): Second Generation Economic Reforms in India.
6. Rupa Chanda, Indian Tertiary Sector
7. Recent Economic Survey
8. Report on State of Working India 2023: Social Identities and Labour Market Outcome, Centre for Sustainable Employment.
9. Recent Reports of NITI Aayog

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Semester VI

Bachelor of Economics

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Basics of Economic Growth & Development

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSE: Basics of Economic Growth & Development	4	3	1	0	Passed Undergraduate Diploma in Economics	Nil

Bachelor of Economics		
Programme : Bachelor of Economics	**Year 3**	**Semester 6 Paper II**
Subject : Economics		
Course Code: ECODSE601	**Course Title : Basics of Economic Growth & Development**	
Course Outcomes: The course will help the students to • Understand various development theories along with the conceptual issues in growth and development. • Understand the various measures and indicators of development.		
Credits : 4 Credits		**Discipline Specific Elective**

Unit	Topics	No. of Hours
I	Meaning, Measurement and Gaps of Economic Growth and Development, Factors of Economic Growth and Development.	12
II	Concept of Poverty and Inequality, Vicious cycle of poverty. Concept of Human Development: Physical Quality of Life Index (PQLI), Human Development Index (HDI), Gender Development Index (GDI), Human Poverty Index (HPI) & Purchasing Power Parity (PPP).	17
III	Economic Models: Adam Smith, Ricardo, Malthus and Marxian theory of Capitalist Development. Theories of Development: Rostow's Stages of Growth, Introduction to Balanced and Unbalanced Growth. Amartya Sen's Capability Approach.	20

IV	Sustainable Development Goals: Introduction, Goals, Targets and Indicators. Relationship between Environment and Development.	11

Essential Reading:

1. Misra, S.K.&V.K. Puri, Economics of Growth and Development, Himalaya Publishing House, Mumbai.
2. Thriwall, A. P., (1978), Growth and Development, McMillan, London.
3. United Nations: Human Development Report.
4. Adelman I (1969) : Theories of Economic Growth and Development, Stanford University Press, Stanford

Recommended /Additional Reading:

1. Meier, G.M., (1984): Leading Issues in Economic Development, Oxford University Press, New York.
2. Higgins, B. (1959) : Economic Development, Norton, New York
3. Kindleberger, C.P. and B. Harrik (1983): Economic Development, McGraw-Hill, Tokyo.
4. Salvatore, D. and E. Dowling (1977) : Development Economics, Schuam's Outline Series in Economics, McGraw
5. Agarwal, A. N. and S.P. Singh, (Eds.) (1985): Economics of Underdevelopment Oxford University Press, London.
6. Sen, A.K. (ed.) (1971): Growth Economics, Penguin, Harmondsworth.
7. Chenery, H.: Redistribution with Growth, Oxford University Press.
8. Todaro, M.P. : Economic Development, Longman, London
9. Amartya Sen, Commodities and Capabilities, Oxford University Press.
10. Amartya Sen, An Uncertain Glory: India and its Contradiction, Penguin Books Ltd.
11. Amartya Sen, Development as Freedom, Alfred A. Knope, Inc.
12. Sundaram, R.M. (1984): Development Economics: A Framework for Analysis and Policy.
13. UNDP- India's Recent SDG Report
14. Ghatak, S., (1986), An Introduction to Development Economics, Allen and Unwin, London.

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Semester VI

Bachelor of Economics

Generic Elective (GE)- Fundamentals of Gender Studies

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
GE: Fundamentals of Gender Studies	4	3	1	0	Passed Undergraduate Diploma in Economics	Nil

Bachelor of Economics		
Programme : Bachelor of Economics	**Year 3**	**Semester 6 Paper III**
Subject : Economics		
Course Code: ECOGE601	**Course Title : Fundamentals of Gender Studies**	
Course Outcomes: • Students will be able to understand the concepts of gender economics, and its role in economic development. • Students will learn about gender budgeting, women participation and policies and programs related to women empowerment.		
Credits : 4 Credits	**Generic Elective**	

Unit	Topics	No. of Hours
I	Importance of Gender Studies. Economic Basis and Functioning of Patriarchy in Developed and Developing Countries with Special Reference to India. Women's contribution to National Income.	13
II	Indicators & Budget – Gender related Inequality Indicators, Gender development Indices, Gender Empowerment Measuring Tools. Gender Budgeting and Gender Policies at Regional & National Level.	20
III	Gender Empowerment in India: Women's Education – Gender Gaps, Policies & Programmes, Women's Health – Policies and Programmes, Women Entrepreneurship – Policies & Programmes.	12
IV	Gary Becker Model of Economic Discrimination using Demand and Supply in Hypothetical Labour Market, Caste Discrimination and Affirmative Action.	15

Essential Reading:

1. Seth, M.: Women and Development: The Indian Experience, Sage Publications, New Delhi.
2. Chakraborty, L.: Fiscal Policy for Sustainable Development in Asia-Pacific – Gender Budgeting in India, Palgrave-McMilan
3. Venkateswaran, S.: Environment, Development and the Gender Gap, Sage Publications, New Delhi.
4. Boserup, E.: Women's Role in Economic Development, George Allen and Unwin, London.
5. Desai, N. and M.K. Raj (eds): Women and Society in India, Research Centre for Women Studies, SNDT University, Bombay.

Recommended /Additional Reading:

1. Govt. of India: Towards Equality – Report of the Committee on the Status of Women in India,
2. Agnihotri, S.B.: Sex Ratio in Indian Population: A Fresh Exploration, Sage Pub., New Delhi.
3. Dept. Of Social Welfare, Ministry of Education and Social Welfare, New Delhi.
4. Krishnaraj, M., R.M. Sudharshan and A. Shariff: Gender, Population and Development, OUP, New Delhi.
5. Wazir, R.: The Gender Gap in Basic Education: NGOs as Change Agents, Sage Pub., New Delhi.
6. Kabeer, N.: Reversed Realities: Gender Hierarchies in Development Thought, Kali for Women, New Delhi.
7. Kabeer,N. and R.Subrahmanyam (ed): Institutions, Relations and Outcomes: A Framework and Case Studies for Gender-aware Planning, Kali for Women, New Delhi.
8. Report on State of Working India 2023: Social Identities and Labour Market Outcome, Centre for Sustainable Employment

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Semester VI

Bachelor of Economics

Project/Field Survey

No. of Hours-105

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course(if any)
		Lecture	Tutorial	Practical/Practice		
Project/Field Survey	4	1	0	3	Passed Undergraduate Diploma in Economics	Nil

Bachelor of Economics		
Programme: Bachelor of Economics	**Year3**	**Semester6 Paper IV**
Subject: Economics		
Course Code: ECOP601	**Course Title: Project/Field Survey**	
Course Outcomes: • The students will learn about Data, Questionnaire, Interview, Census and Sample. • It will help the students in developing a research temperament and experiential learning.		
Credits:4Credits	**Project**	

Unit	Topics	No.of Hours
I	Concept of Data Collection. Types of Data. **Methods of Primary data collection** – Questionnaire, Interview, Focus Group Interview, Observation, Survey, Case Studies, Diaries. Census and Sample. **Sampling Techniques**– Probable and Non-Probable (Simple random Sampling, Systematic Sampling, Stratified Sampling, Clustered Sampling, Convenience Sampling, Quota Sampling, Purposive or Judgement Sampling, Snowball Sampling).	15
II	**The students will be required to conduct a field study on any economic issue of Uttarakhand under the supervision of the assigned teacher and will submit a report. The report should not be less than 50 pages in a standard format and submitted to the concerned teacher.**	90

50

Essential Reading:

1. Sharma, Manoj, Research Methodology, Anmol Publications, New Delhi, 2004.
2. Kothari, C.R.: Research Methodology.
3. R.N. Trivedi & D.P. Shukla: Research Methodology (in Hindi).
4. पारस राय, अनुसंधान परिचय।

Recommended/Additional Readings:

1. Tandon: Research Methodology in Social Sciences.
2. Cauvery, R., et.al., Research Methodology, S. Chand, New Delhi.

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BACHELOR OF ECONOMICS WITH RESEARCH

FOURTH YEAR	VII	DSC	Advanced Microeconomics- I	Theory	4
		DSE 1	Advanced Public Finance-I	Theory	4
		DSE 2	Research Methodology-I	Theory	4
		DSE 3	Mathematical Economics	Theory	4
		GE 1	Labour Economics-I	Theory	4
		GE 2	Agriculture Economics-I	Theory	4
		GE 3	Indian Economy –I	Theory	4
		GE 4	Cultural Economics -I	Theory	4
		Academic Project	Academic Project	Practical	6
	VIII	DSC	Advanced Macroeconomics- I	Theory	4
		DSE 1	Advanced Public Finance-II	Theory	4
		DSE 2	Research Methodology-II	Theory	4
		DSE 3	Advanced Statistics	Theory	4
		GE 1	Labour Economics-II	Theory	4
		GE 2	Agriculture Economics-II	Theory	4
		GE 3	Indian Economy –II	Theory	4
		GE 4	Cultural Economics -II	Theory	4
		DISSERTATION	Dissertation on Major/Dissertation on Minor	Practical	6

Semester VII

Bachelor of Economics with Research

DISCIPLINE SPECIFIC COURSE (DSC)- Advanced Microeconomics-I

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSC: Advanced Microeconomics-I	4	3	1	0	Passed Bachelor of Economics	Nil

Bachelor of Economics with Research		
Programme : Bachelor of Economics with Research	Year 4	Semester 7 Paper I
Subject : Economics		
Course Code: ECODSC701	Course Title : Advanced Microeconomics-I	

Course Outcomes: The course will help students to:

- Students will be able to analyze consumer choices using utility theory and indifference curve analysis, and evaluate demand elasticity and consumer surplus.
- Students will understand production functions, optimal factor combinations, and the impact of technological advancements on production efficiency.
- Students will be able to derive cost curves from production functions and analyze cost behavior, economies of scale, and their implications for business decisions.
- Students will evaluate market dynamics under perfect competition, including demand and supply interactions, market equilibrium, and the effects of taxes and price controls

Credits :4 Credits	Discipline Specific Course

Unit	Topics	No. of Hours
I	**Introduction to Consumer Behavior:** Choice & Preference of Consumer, Axioms of Rational Choice. **Utility Theory:** Ordinal Utility analysis, Indifference curves, Budget Constraints and their properties, Marginal Rate of Substitutions, Utility Maximization and Consumer Equilibrium. **Demand Analysis:** Theories of Demand, Elasticity of Demand, Concepts, Measurements. Comparative Statics- Engel Curve. Price, Substitution and Income Effects, Hicks and Slutsky Decomposition; For normal goods, Inferior goods and Giffen Goods;	16

	Marshallian and Hicksian Demand Functions. **Consumer Surplus**: Definition, Importance, and Calculation, Applications in Economic Analysis. Revealed Preference Hypothesis, Hicksian Revisions. **Consumer Choice under Uncertainty**: Simple Lottery, Compound Lottery, Definitions of Risks Aversion, Risk Lover & Risk neutral, Von Neumann-Morgenstern's Expected Utility Theory, Certainty Equivalent, Concavity of utility function and Measures of Risk Aversion.	
II	**Production Theory:** Overview of Production Functions, Short-Run vs. Long-Run Production Functions. **Theories of Production:** Law of Variable Proportions, Returns to Scale: Increasing, Constant, and Decreasing Returns. Isoquants: Definition and Interpretation, Marginal rate of technical substitution, Elasticity of Substitution. **Optimal Factor Combination**: Equilibrium of the Firm, Choosing the Optimal Combination of Production Factors. **Production Function:** Cobb Douglas, Constant Elasticity of Substitution (CES), Variable Elasticity of Substitution (VES), Trans-log Production Function. The Role of Technical Progress in Shaping Production Functions, Impact of Technological Advancements on Production Efficiency. Producer's Equilibrium and Input supply functions.	16
III	**Cost and Revenue Functions:** Short run and long run cost, Marginal and Average Cost Concepts. **Traditional and Modern Theories of Costs:** Examination of Traditional Cost Theories, Overview of Modern Approaches to Cost Analysis. Definition of Iso-cost curve, Scale Lines and Ridge Lines. **Derivation of Cost Curves from Production Functions:** Understanding the Relationship Between Production Functions and Cost Curves. **Economies of Scale:** Definition and Types, Impact on Long-Run Average Cost Curves. **Cost Structures:** Fixed Costs vs. Variable Costs, Economies and Diseconomies of Scale. Analysis of Cost Behavior over different Time Horizons. **Revenue Concepts**: Understanding the relations between Revenue Curves (Average Revenue (AR), Marginal Revenue (MR), and Total Revenue (TR)).	16
IV	**Competitive Markets -Perfect Competition:** Introduction to Market Structures and Perfect Competition – Definition, Market Equilibrium and Equilibrium of a firm under Perfect Competition (Short Run &Long Run), Shut Down Point, Break-Even Point, AVC and Supply Curve. **Tax Incidence Analysis:** Understanding how taxes affect market prices and consumer behaviour, Analysis of the distribution of tax burdens between consumers and producers. **Price Controls and Their Effects:** Overview of government-imposed price controls, including price ceilings and floors, Discussion of the consequences of these controls on market efficiency and resource allocation.	12

Essential Reading:

1. Hal R. Varian, Intermediate Microeconomics, Springer Publication.
2. Nicholson W., Snyder, C., Microeconomic Theory, Basic Principles and Extensions, South-Western, USA.
3. Serrano, R., Feldman, A.M., A short course in Intermediate Microeconomics with Calculus, Cambridge University Press

Recommended /Additional Reading:

1. Henderson, J.M. and R.E. Quandt, Microeconomic Theory: A Mathematical Analysis, McGraw Hill, Singapore.
2. J. C. Pant.
3. P. Krugman and R. Wells, Economics, Worth Publishers Macmillan.
4. Ahuja, H.L., Advanced Economic Theory, S. Chand & Co., New Delhi.
5. Lipsey, R.G., Introduction to Positive Economics, ELBS, London.
6. Baumol, W., Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi.
7. Roy Choudhary, K., Modern Micro Economics, Theory and Application, Vols. I, II & III, Dominant Publishers and Distributors, New Delhi.
8. Weintraub, E.R., General Equilibrium Theory, Macmillan, London.
9. Da Costa, G.C., Production, Prices and Distribution, Tata McGraw Hill, New Delhi.
10. Mishan, E.J., Welfare Economics: An Assessment, North Holland, Amsterdam.
11. एच० एल०. आहूजा उच्चतर आर्थिक सिद्धान्त, एस० चाँद, नई दिल्ली
12. एम० एल० झिंगन, उच्च आर्थिक सिद्धान्त, वृन्दा पब्लिकेशन, नई दिल्ली।

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Semester VII

Bachelor of Economics with Research

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Advanced Public Finance-I

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSE: Advanced Public Finance-I	4	3	1	0	Passed Bachelor of Economics	Nil

Bachelor of Economics with Research		
Programme : Bachelor of Economics with Research	**Year 4**	**Semester 7 Paper II (a)**
Subject : Economics		
Course Code: ECODSE701	**Course Title : Advanced Public Finance-I**	

Course Outcomes: The course will help students to:

- Understand and analyze the impact of public finance on allocation of resources and the distribution of income.
- Learn about public expenditure, taxation and debt issues in the economy.

Credits : 4 Credits — **Discipline Specific Elective**

Unit	Topics	No. of Hours
I	Meaning, Scope & Importance of Public finance. The Principle of Maximum Social Advantage, View of Mrs. Hicks: Production Optimum, Utility Optimum, Major Fiscal Functions, Public goods, Private goods & Merit goods and Externalities. Coase Theorem Functional and Activating finance.	15
II	Public Expenditure: Wagner's law of Increasing State Activities; Wiseman- Peacock's Hypothesis; Principles of public expenditure, Reasons for increasing in Public Expenditure. Evaluation of Public Expenditure.	12
III	Public Revenue: Structure and Finance. Principles of Taxation. Incidence, Impact and Shifting of Taxation. Effects of a Taxation. Direct Vs Indirect Taxes, GST: CGST, SGST, IGST. Tax Evasion, Tax Avoidance and Corruption. Incidence under Perfect Competition and	18

	Monopoly. Income Tax (individual and corporation), Wealth Tax, Death Duty and Law of Returns. Taxable Capacity. Theory of Optimal Taxation.	
IV	Public Debt: Objectives, Sources, Composition and Ownership. Debt Vs Tax, Debt Burden, Effects and Types of Public Debt, Repayment and Debt Management.	15

Essential Reading:

1. Singh, S. K., Public Finance in Theory and Practice, S. Chand, New Delhi.
2. Bhatia, H.L., Public Finance, Vikas Publishing House, New Delhi.
3. Musgrave, R.A. and Musgrave P.B., Public Finance in Theory and Practice, McGraw Hill, New York.
4. Bagchi, A., Readings in Public Finance, Oxford University Press
5. Prest, A.R. and Barr, N.A., Public Finance in Theory and Practice, ELBS, London.
6. Buchanan, J.M., Public Finance, Irwin, New York.
7. Herber, B.P., Modern Public Finance, AITBS, New Delhi.

Recommended /Additional Reading:

1. Prest, A. R., Public Finance in Under-developed Countries, Vikas, New Delhi.
2. Buchanan, J.M., Public Principles of Public Debt, Irwin, Homewood. Ill., USA.
3. Kumar, Arun, The Black Economy in India, Penguin Random House India
4. Chattopadhyay, Saumen, Macroeconomics of Black Economy, Orient Blackswan
5. Reserve Bank of India, Monthly Bulletins.
6. Budget Papers of the Government of India.
7. Recent Budget of India

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Semester VII

Bachelor of Economics with Research

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Research Methodology-I

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSE: Research Methodology-I	4	3	1	0	Passed Bachelor of Economics	Nil

Bachelor of Economics with Research			
Programme : Bachelor of Economics with Research		**Year 4**	**Semester 7 Paper II (b)**
Subject : Economics			
Course Code: ECODSEM702	**Course Title : Research Methodology-I**		
Course Outcomes: The course will help students to: • Learn research methodology in the social sciences and its implications. • Learn data collection, data analysis and statistical hypothesis testing.			
Credits : 4 Credits		**Discipline Specific Elective**	
Unit	**Topics**		**No. of Hours**
I	Research: Meaning, Objectives, Types, Need and Significance. Research Methods vs Research Methodology. Preparation of a Research Proposal. Formulation of a Research Design. Framing of Objectives and Hypotheses. Review of Literature.Methods of Research Proposal.		15
II	Research Hypothesis: Definition, Characteristics, Sources and Importance. Problems in formulating Hypothesis, Statistical Hypotheses - Simple and Composite, Null Vs Alternative Hypotheses, prerequisites for testing of Hypotheses, Testing of Hypotheses, Goodness of Fit, Types of errors in testing of Hypotheses and Level of Significance.		15

III	Data Collection and Processing: Methods of collecting Primary and Secondary data; Limitations of Secondary Data, Precautions in the use of Secondary Data. Sampling techniques: Samplesize, and problems in Sampling. Different tools of Data Collection. Designing of a Questionnaire and difference between Questionnaire & Schedule. Sampling frame and Sample Selection.	15
IV	Preparation for Analysis, Editing, Coding, Classification of Data. Qualitative and Quantitative Data. Tabulation, Construction of Frequency Table, Types of Tables, Format of a simple one-way table, three-way table. Presentation of Data: Graphs, Charts, Diagrams. StatisticalAnalysisofData: Descriptive statistics. Measures of Central Tendency (Mean, Median, Mode) & Dispersion (Standard Deviation and Coefficient of Variation). Correlation and Regression Analysis: Use of Statistical Package (s): STATA, R, SPSS and MS-Excel.	15

Essential Reading:

1. Cauvery, R.,et. al.,Research Methodology ,S.Chand, New Delhi.
2. Sharma, Manoj, Research Methodology, Anmol Publications, New Delhi, 2004.
3. R.N.Trivedi & D.P. Shukla : Research Methodology (in Hindi).
4. Kothari , C. R.:Research Methodology.
5. Tandon: Research Methodology in Social Sciences.
6. Pant, S.K., Research Methods for Practioners, Atlantic, Publishers & Distributers (p) Ltd.
7. ikjljk;]vula\luifjp;A
8. ,p0ddfiy]vula\lufof/k;ak],p0ih0HkkxZocdgkÅlvkxjk

Recommended/AdditionalReading:

1. Paul Wright,Qualitative Research and Evaluation, Jones & Bartlett Learning
2. D.N.Gujrati, Basic Econometrics, McGraw Hill Publication
3. K.Sydsaeter and P.J. Hammond, Mathematics for Economic Analysis, Pearson.
4. Yojna. Monthly Magazine.
5. EconomicTimes, Financial Express and other Newspapers.
6. Economic Magazines.
7. Reports of various agencies.

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Semester VII

Bachelor of Economics with Research

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Mathematical Economics

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSE: Mathematical Economics	4	3	1	0	Passed Bachelor of Economics	Nil

Bachelor of Economics with Research		
Programme : Bachelor of Economics with Research	Year 4	Semester 7 Paper II (c)
Subject : Economics		
Course Code: ECODSE703	Course Title : Mathematical Economics	
Course Outcomes: The course will help students to: • Analyze and apply key economic functions and their implications. • Perform matrix operations and solve linear equations using determinants. • Apply differentiation and integration to optimize economic models. • Utilize input-output analysis, linear programming, and game theory in economic decision-making.		
Credits : 4 Credits	Discipline Specific Elective	

Unit	Topics	No. of Hours
I	**Functions in Economic Analysis** **Types of Functions:** Overview of Different Types of Functions, Introduction to Economic Functions: Revenue, Cost, Demand, and Supply Functions. **Convex and Concave Functions:** Characteristics of Convex and Concave Functions, Implications for Economic Models. **Multivariable Functions:** Introduction to Multivariable Functions. **Types of Production Functions:** Homogeneous and Homothetic Functions	15
II	**Linear Algebra, Matrix and Determinants** **Introduction to Linear Algebra:** Key Concepts and Terminology in Linear Algebra. **Matrix Operations:** Addition, Subtraction, and Scalar Multiplication & Multiplication of Matrix. **Properties in Matrix Operations:** Commutative, Associative, and Distributive laws. Types of	15

	Matrices. **Determinants and Their Properties:** Introduction to Determinants and Non-Singularity, Calculation of Third-Order Determinants, Minors, and Cofactors, Laplace Expansion and Properties of Higher-Order Determinants. **Matrix Inversion and Applications:** Understanding Co-factor and Adjoint Matrices, Calculating Inverse Matrices and Their Role in Solving Linear Equations, Application of Cramer's Rule and Gaussian Method for Matrix Inversion.	
III	**Differentiation:** Rules of Differentiation, Derivative vs. Differential. First and Second Order Derivatives. **Applications of Second Order Derivatives:** Optimization Problems: Identifying Maximum and Minimum Values. Application of Differential calculus in Economics. **Integration:** Elementary Integration. Difference Equations of First and Second Order. Simple Applications of Integral Calculus in Economics.	15
IV	**Input-Output Analysis, Linear Programming & Game Theory** **Input-Output Analysis:** Understanding Open and Closed Economic Systems, Analyzing Interdependencies Between Different Sectors. **Linear Programming:** Introduction to Primal and Dual Problems in Linear Programming. Solving Linear Programming Problems Using Graphical and Simplex Methods. **Game Theory Fundamentals:** Key Terminology and Concepts in Game Theory, Exploring Strategic Form Games and Identifying Dominant Strategies.	15

Essential Reading:

1. A.C. Chiang: Fundamental Methods of Mathematical Economics, McGraw Hill
2. Sydester, K and P Hammond. "Essential Mathematics for Economic Analysis", Pearson Publications
3. Hoy, M., Livernois, J., McKenna, C., Rees, R., Stengos, T. (2001). Mathematics for Economics.
4. B.C.Mehta & G.M.K.Madnani, (2008)Mathematics for Economics, Sultan Chand& Sons.

Recommended / Additional Reading:

1. Dowling, Edward T. (2004), Introduction to Mathematical Economics, 3rd Ed. Mcgraw-Hill.
2. Allen, RGD. "Mathematical analysis for economics", A.I.
3. Dixit, A.K. (1990), Optimization in Economic Theory, 2nd Edition, Oxford University Press.
4. Dowling, Edward T. (1992), Schaum's Outline of Theory and Problems of Mathematics for Economists, McGraw-Hill.
5. Silberberg, E.(1990), the Structure of Economics - a Mathematical Analysis, McGraw-Hill, 1990.

6. M.D.Intrilligator: Mathematical Optimization and Economic Theory, Prentice Hall.
7. Sydsaeter K Hammond, P Seierstad, A , and Strom A (2005). Further Mathematics for Economic Analysis, London, Prentice Hall.
8. Sydsaeter, K., Hammond, P. (2002). Mathematics for economic analysis. Pearson Education.

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Semester VII

Bachelor of Economics with Research

Generic Elective (GE)- Labour Economics-I

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
GE:Labour Economics-I	4	3	1	0	Passed Bachelor of Economics	Nil

Bachelor of Economics with Research		
Programme :Bachelor of Economics with Research	Year 4	Semester 7 Paper III (a)
Subject : Economics		
Course Code: ECOGE701	Course Title : Labour Economics-I	

Course Outcomes:

- The students will learn the importance of labour economics.
- The students will get familiar with the concepts of industrial labour, recruitment and employment.
- The students will learn about unemployment, wages and labour policy.

Credits : 4 Credits	Generic Elective

Unit	Topics	No. of Hours
I	Nature and Characteristics of Labour Markets in a Developing Economy. Characteristics of Indian Labour Market. Demand for Labour, Supply of Labour, Growth of Labour Force, Migratory Character, Absentiesm and Labour Turnover.	15
II	Recruitment of Industrial Worker, Employment Exchange, National employment Service in India, Types of Recruitment, Rural Agricultural Labour in India and Labour Productivity.	12
III	Unemployment: Causes, Types and Remedies. Trend of Unemployment in India, Rationalisation, Analysis of Youth and Educated Unemployment and Employment Programmes in India.	15

IV	Types of Wage Payment, - Time System, Peace System, Incentive System. Various Concept of Wages – Minimum Wage, Fair Wage and Living Wage. Wage Determination under Perfect and Imperfect Competitive markets. Organised and Unorganised Sectors, Bonus, Profit Sharing and Co-partnership.	18

Essential Reading:

1. T.S. Papola, Labour and Development, Academic Foundation.
2. Allen, V.L.: Power in Trade Unions.
3. Hicks, J.R. : Theory of Wages.
4. Kether, D.P. : India's Labour Welfare.
5. Mukerjee, R.K. : The Indian Working Class.
6. Das, N. : Unemployment and Full Emploment in India.

Recommended /Additional Reading:

1. Beveridge, W.H.: Social Security Plan.
2. Chamberlain, N.W.: Collective Bargaining.
3. Clow, A. G. : Indian Factory Legislation.
4. Deshpande, L.K. Brahmmananda P. R. (Ed.) : Employment Policy in a Developing Economy.
5. Deshpande, D. K. and Sandesara, J.C. (Ed.) : Wage Policy and Wage Determination in India.
6. Gilman, N.P. : Profit Sharing Between Employer and Employee.
7. Gadgil, D.R. : Women Workers in India.
8. Giri, V.V. :Labour Problems in Indian Industry.
9. Joshi, N.N. : Trade Union movement in India.
10. Kaul, N.N. : India and the I.L.O..
11. Mukerjee, P.K. :Labour Legislation in India.
12. Recent CMIE Report on Unemployment
13. Report on State of Working India 2023: Social Identities and Labour Market Outcome, Centre for Sustainable Employment
14. टी० एन० भगोली बाल, श्रम अर्थशास्त्र एवं औद्योगिक संबंध।

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Semester VII

Bachelor of Economics with Research

Generic Elective (GE)- Agriculture Economics-I

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
GE:Agriculture Economics-I	4	3	1	0	Passed Bachelor of Economics	Nil

Bachelor of Economics with Research		
Programme :Bachelor of Economics with Research	Year 4	Semester 7 Paper III(b)
Subject : Economics		
Course Code: ECOGE702	Course Title : Agriculture Economics-I	

Course Outcomes:

- The students will learn about meaning of agriculture economics, types of agriculture and agriculture finance.
- The students will learn about technology in agriculture and land utilization.

Credits : 4 Credits

Unit	Topics	No. of Hours
I	Agriculture Economics: Meaning, Characteristics, Nature, Scope and Importance. Role of Agriculture in Economic Development. Interrelationship between Agriculture and Industry. Agro-based Industries. Diversification of Agriculture.	13
II	Agriculture and Allied Activities: Livestock Resources, Fishery and Poultry Development, Forestry, Horticulture and Floriculture, Green Revolution, White Revolution and Blue Revolution.	13
III	Land Reforms: Meaning and Objectives. Land Tenure and Farming Systems: Peasant, Capitalist, Collective and State Farming. Tenancy and Crop Sharing– Forms, Incidence and Effects. Farms: Meaning, Types and Factors determining size of farms.	20

IV	Technology in Agriculture: Traditional Techniques and Practices. Technological Change and Agriculture. Types of Farming: Dry Land Farming, Sustainable Farming, Vertical Farming, Organic Farming and Mixed Cropping. Agriculture Productivity and Returns to Scale.	14

Essential Reading:

1. G.S. Bhalla, Indian Agriculture since Independence, National Book Trust, India, Ministry of Education.
2. Shah, C.H. and C.N. Vakil (ed.): Agriculture Development of India: Policy and Problems, Orient Longman, 1979.
3. Southworth N. and A. Johnston: Agriculture Development and Economic Growth, Cornell University Press.
4. Heady, E.O.: (ed.) Economic Development of Agriculture.
5. एस0 बी0 गुप्ता, कृषि अर्थशास्त्र, एस0 बी0 पी0 डी0 पब्लिकेशन आगरा।

Recommended /Additional Reading:

1. G.S. Bhalla, Economic Liberalisation and Indian Agriculture, Sage Publication Pvt. Ltd.
2. Snodgrass, Milton M. and L.T. Wallace: Agricultural Economic and Resource Management, Prentice Hall of India Pvt. Ltd., 1977.
3. Eicher, Earl and Lawrence Witt (ed.): Agriculture in Economic Development: Vora Co. Pub. Pvt. Ltd. 1970.
4. Chaudhari, Pramit: Selected Readings in Indian Agriculture.
5. R.S. Jalal, "Rural Development in India: Issues and Policy" (Vol. I & II), Anmol Publication, New Delhi
6. Govt. of India: Report of the National Commission on Agriculture.
7. Rao. H.H.: Technological Change and Distribution of Gains.
8. Rudra, Ashok: Indian Agricultural Economics: Myths and realities, Allied Pub., New Delhi, 1982.
9. Mitra, A: Terms of Trade and Class Relations.
10. Schultz, T.W.: Economic Crisis in World Agriculture.
11. Schultz, T.W.: Transforming Traditional Agriculture.

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Semester VII

Bachelor of Economics with Research

Generic Elective (GE)- Indian Economy-I

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
GE:Indian Economy-I	4	3	1	0	Passed Bachelor of Economics	Nil

Bachelor of Economics with Research			
Programme :Bachelor of Economics with Research		Year 4	Semester 7 Paper III(e)
Subject : Economics			
Course Code: ECOGE703	Course Title : Indian Economy-I		
Course Outcomes: • The students will learn about the Indian Economy and its salient features. • The students will learn about population, employment and regional imbalances.			
Credits : 4 Credits		Generic Elective	

Unit	Topics	No. of Hours
I	Overview of Indian Economy: Characteristics of Under Development Economics, Developed Vs Under Developed Economies, Economic Growth and Development: Concept and Factors. Human Development Index and Multidimensional Poverty Index.	17
II	Population Growth and Economic Development: Size, Growth, Demographic Profile of India and Rural-Urban Migration. Recent Population Policy. Indicators of Human Resource Development.	17
III	Employment and Unemployment in India: Trends, Structure, Nature and Estimates of Unemployment. National Employment Policy. Problem of Resource Imbalance in India: Regional Imbalances, Infrastructure and Economic Development. Social Infrastructure:	12

	Education and Health. Poverty in India: Concept and Poverty Alleviation Programmes: MGNREGA, NRLM & NULM.	
IV	**Policy Issues and Perspectives of Indian Planning-** Features, Objectives, Strategy and Constraints. Failures and Achievements of Plans. Planning Commission. Decentralized Planning. Niti Aayog. Developing Grass-root Organizations for Development-Panchayats, NGOs and Pressure Groups.	14

Essential Reading:

1. Misra, S. K. & V. K. Puri : Indian Economy.
2. Rudra Datt& K. M. P. Sundharam: Indian Economy, S. Chand, New Delhi.
3. Bimal Jalan: Problems of Indian Economy.
4. Agrawal, A.N.: Indian Economy, Wishwa Prakashan, New Age International (P) Limited, New Delhi.
5. Jain A.K.: Indian Economic Planning in India, Ashish Publishing House, New Delhi.
6. रूद्र दत्त एवं के० एम० पी० सुन्दरम, भारतीय अर्थव्यवस्था, एस० चाँद, नईदिल्ली।
7. मिश्रा एवं पुरी, भारतीय भारतीय अर्थव्यवस्था, हिमालया पब्लिकेशन, दिल्ली

Recommended /Additional Reading:

1. Chattopadhyay, Saumen, Macroeconomics of Black Economy, Orient Blackswan
2. Kumar, Arun, The Black Economy in India, Penguin Random House India
3. J. Dreze and A. Sen, An Uncertain Glory: India and its Contradictions, Princeton University Press.
4. Parekh, K.S.: India Development Report.
5. Dutt, R. (ed.): Second Generation Economic Reforms in India.
6. Ahluwalia, I.J. and I.M.D. Little, eds., India's Economic Reforms and Development, OUP, New Delhi
7. Brahmananda, P.R. and V.R. Panchmukhi, eds., Development Experience in the Indian Economy: Interstate Perspectives, Book well, Delhi.
8. Dantwala, M.L., Dilemmas of Growth: The Indian Experience, Sage Publications, New Delhi.
9. Government of India, Annual Economic Survey
10. Jalan, B., India's Economic Policy – Preparing for the Twenty First Century, Viking, New Delhi.
11. MGNREGA Document
12. Recent Economic Survey
13. Report on State of Working India 2023: Social Identities and Labour Market Outcome, Centre for Sustainable Employment
14. Recent Reports of NITI Aayog

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Semester VII

Bachelor of Economics with Research

Generic Elective (GE)- Cultural Economics-I

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
GE: Cultural Economics-I	4	3	1	0	Passed Bachelor of Economics	Nil

Bachelor of Economics with Research

Programme : Bachelor of Economics with Research	Year 4	Semester 7 Paper III(d)
Subject : Economics		
Course Code: ECOGE704	Course Title : Cultural Economics-I	

Course Outcomes: The course will help students to:

- Understand the theoretical foundations of Cultural Economics, including cultural value and economic frameworks.
- Analyze the roles of creative industries, cultural goods, and government policy in economic contexts.
- Apply economic principles to understand international cultural trade, marketing, and management.

Credits : 4 Credits	Generic Elective	
Unit	**Topics**	**No. of Hours**
I	**Cultural Economics**: Definition, Scope and Evolution of Cultural Economics: Origins and Development of Cultural Economics as a Discipline, Concept of Value-Economic vs. Cultural Value. **Creativity in Culture:** Nature, Features, and Economic Implications, Creative Industries- Concept, Scope, and Significance.	15

	Basics of Economics Relevant to Culture: Opportunity Cost, Capital in Culture, Special Position of Culture in Economics.	
II	**Cultural Industries:** Characteristics and Challenges, Classification of Cultural Goods and Services. **Demand for Cultural Goods and Services:** Price Elasticity, Consumption Behavior. **Supply in Cultural Industries:** Factors of Production, Value Chain, Costs. Supply and Demand Equilibrium in Culture.	15
III	**Government Policy and Culture:** Rationale for Government Support to Culture, Objectives and Planning of Cultural Policies. Means of Enhancing Cultural Activity - Grants, Subsidies, and Public Initiatives. **Cultural Heritage and Its Economic Importance:** Culture and Development- The Role of Culture in Economic Growth, Culture as Global Public Good-Creative Areas and Cities.	15
IV	**Globalization and Cultural Trade:** Opportunities, Challenges and Efficiency in Global Trade of Cultural Goods. Marketing Mix in Cultural Industries- Product, Price, Place and Promotion. **Market Models and Forms for Cultural Products:** Product Life Cycle in Cultural Industries. Strategic Planning for Cultural Organizations.	15

Essential Reading:

1. Agust Einarsson (2016), Cultural Economics, Bifrost University.
2. David Throsby (2001), Economics and Culture.
3. Ruth Towse (2010), A Textbook of Cultural Economics.

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Semester VII

Bachelor of Economics with Research

ACADEMIC PROJECT

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Field work/ Practical/Practice		
ACADEMIC PROJECT	6	0	2	4	Passed Bachelor of Economics	Nil

Bachelor of Economics with Research		
Programme : Bachelor of Economics with Research	Year 4	Semester 7 Paper IV
Subject : Economics		
Course Code: ECOAP701	Course Title: Academic Project	
Credits :6 Credits		Academic Project (Compulsory)

- The student will choose a relevant and contemporary topic related to Economics.
- The topic should be specific enough to allow thorough study within the given timeframe.

The student will have to prepare an Academic Project on any relevant socio-economic problem allotted by the concerned teacher and prepare a report duly typed and binded (A4 size paper having in Hindi/English with 1.5-line gap).

Semester VIII

Bachelor of Economics with Research

DISCIPLINE SPECIFIC COURSE (DSC)- Advanced Macroeconomics-I

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSC: Advanced Macroeconomics-I	4	3	1	0	Passed Bachelor of Economics	Nil

Bachelor of Economics with Research			
Programme : Bachelor of Economics with Research		Year 4	Semester 8 Paper I
Subject : Economics			
Course Code: ECODSC801	Course Title: Advanced Macroeconomics-I		
Course Outcomes: The students will learn about - • National Income and its measurement. • Theories of output and employment and consumption function. • Investment multiplier and acceleration principle.			
Credits :4 Credits		Discipline Specific Course	

Unit	Topics	No. of Hours
I	National Income and Related Concepts. Circular flow of Income. Measurement of National Income. Problems in the Measurement of National Income.	15
II	Types of Macroeconomics, Say's Law of Market, Determination of the level of Output and Employment, Classical and Keynesian Economics.	15
III	Post-Keynesian Approaches, Theory of Output and Employment. Consumption Function, Saving Function and Investment Function - Keynesian approach. Keynesian Psychological Law of Consumption. Kalecki Approach, Theories of Consumption Function: Absolute Income Hypothesis, Relative Income Hypothesis, Permanent Income Hypothesis & Life Cycle Hypothesis. Paradox of Thrift.	18

IV	Investment Function- Determinants of Investment. Concept of Investment Multiplier, Tax cut multiplier, Balanced Budget Multiplier, Foreign Trade Multiplier and Acceleration Principle.	12

Essential Reading:

1. Vaish, M.C., Macroeconomic Theory, Vikas, New Delhi.
2. Romer, D.L., Advanced Macroeconomics, Mc Graw Hill, New York.
3. O. Blanchard and D.R. Johnson, Macroeconomics, Pearson.
4. Ackley, G., Macroeconomics: Theory and Policy, Macmillan, New York
5. Dornbusch, R. and F. Stanley, Macroeconomics, Mc Graw Hill, New York.
6. Rana K.C. and K.N. Verma, Macro Economic Analysis, Vishal Publishing Co. Jalandhar.
7. एम0 एल0 झिंगन, समष्टि अर्थशास्त्र, वृन्दा पब्लिकेशन, नई दिल्ली।
8. एच0 एल0 आहूजा, उच्चतर समष्टि अर्थशास्त्र,एस0 चाँद, नई दिल्ली।

Recommended /Additional Reading:

1. O. Blanchard, Macroeconomics, Pearson.
2. M. Kalecki, Political Aspects of Full Employment.
3. Jha, R., Contemporary Macroeconomic Theory and Policy, Wiley Eastern, New Delhi.
4. Gupta, S.B., Monetary Planning in India, OUP, New Delhi.
5. Reddy, Y.V., A Review of Monetary and Financial Sector Reforms in India, UBSPD, New Delhi.
6. Frisch, H., Theories of Inflation, Cambridge University Press.
7. Rakshit, M., Studies in the Macroeconomics of Developing Countries, OUP, New Delhi.
8. Vasudevan, A., Central Banking for Emerging Market Economies, Academic Foundation, New Delhi.

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Semester VIII

Bachelor of Economics with Research

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Advanced Public Finance-II

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSE: Advanced Public Finance-II	4	3	1	0	Passed Bachelor of Economics	Nil

Bachelor of Economics with Research		
Programme : Bachelor of Economics with Research	**Year 4**	**Semester 8 Paper II (a)**
Subject : Economics		
Course Code: ECODSE801	**Course Title : Advanced Public Finance-II**	
Course Outcomes: The course will help students to: • Understand fiscal policy, fiscal federalism, budget preparation and deficit financing. • Understand the Indian tax structure.		
Credits : 4 Credits	**Discipline Specific Elective**	

Unit	Topics	No. of Hours
I	Fiscal Policy: Meaning and Objectives in a Developing Economy. Full Employment and Fiscal policy. Fiscal Federalism: Basic principles. Fiscal Federalism in India: Constitutional division of Income, Constitutional Provision for Finance Commissions, Division of Resources and Grant. Transfer of resources from Union to states.	18
II	Indian Tax System: Revenue of Union, States and Local Bodies. Major Taxes in India: Tax Base, Direct and Indirect Taxes, Issue of Taxation of Agriculture, Expenditure Tax, Goods and Service Tax (GST). Tax Reforms in India. Non-Tax Revenue sources of the Central, States and Local Bodies.	15
III	Union Govt. Budget: Preparation, Presentation and Execution. Current Union Budget. Balanced Budget Multiplier. Items of expenditure: Union, State & Local Bodies. Causes of Increase in Public Expenditure & Public Debt.	12

IV	Deficit Financing and Types of Deficits: Revenue Deficit, Primary Deficit, Budgetary Deficit and Fiscal Deficit. Fiscal Sector reforms in India and Report of last Finance Commission.	15

Essential Reading:

1. Buchanan, J.M., Public Finance, Irwin, New York.
2. Musgrave, R.A. and Musgrave P.B., Public Finance in Theory and Practice, McGraw Hill, New York.
3. Bhatia, H.L., Public Finance, Vikas Publishing House, New Delhi.
4. Herber, B.P., Modern Public Finance, AITBS, New Delhi.

Recommended /Additional Reading:

1. Prest, A.R. and Barr, N.A., Public Finance in Theory and Practice, ELBS, London.
2. Prest, A. R., Public Finance in Under-developed Countries, Vikas, New Delhi.
3. Buchanan, J.M., Public Principles of Public Debt, Irwin, Homewood. Ill., USA.
4. Singh, S. K., Public Finance in Theory and Practice, S. Chand, New Delhi.
5. Reserve Bank of India, Monthly Bulletins.
6. Budget Papers of the Government of India.
7. Recent Budget of India

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Semester VIII

Bachelor of Economics with Research

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Research Methodology-II

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSE: Research Methodology-II	4	3	1	0	Passed Bachelor of Economics	Nil

Bachelor of Economics with Research		
Programme: Bachelor of Economics with Research	Year 4	Semester 8 Paper II (b)
Subject : Economics		
Course Code: ECODSEM802	Course Title : Research Methodology-II	

Course Outcomes:

- The students will be able to learn about correlation and regression.
- The students will learn about inferential statistics.
- The students will learn report writing and use of computers in social science research.

Credits : 4 Credits	Discipline Specific Elective

Unit	Topics	No. of Hours
I	Correlation: Meaning, Assumptions and Limitations of Simple Correlation. Various methods of determining Correlation (Graphical and Mathematical Methods). Probability theory, Probable Error.	18
II	Probability Distribution - PMF (Probability Mass Function)- Binomial and Poisson Distribution and PDF (Probability Density Function)- Normal distribution, t-Distribution, chi-square Distribution Large sample & Small sample. Type-I & Type II Errors. Level of Significance. Interpretation of p-value. One-tail and Two-tail tests. Testing of Significance for Small and Large Samples (Z-test, t-test, Chi Square test, F-test and Analysis of Variance (ANOVA).	15

	Regression Analysis (for two & three variables).	
III	Report writing: Types of Reports, Mechanics, Significance & Steps in Report Writing. Format of the research report. Footnote and Endnote. Rules for Citations & References. Bibliography writing –APA & MLA methods. Use of tables and graphs in report. Writing an article for a National Seminar/publication in a Research Journal.	17
IV	Uses of Computers in Social Sciences Research and Econometric Packages.	10

Essential Reading:

1. Kothari, C.R.: Research Methodology.
2. R.N.Trivedi & D.P.Shukla: Research Methodology (in Hindi).
3. Cauvery, R.,et.al.,Research Methodology, S.Chand, New Delhi.
4. Sharma, Manoj, Research Methodology, Anmol Publications, New Delhi, 2004.
5. Pant, S.K., Research Methods for Practioners, Atlantic, Publishers & Distributers (p)Ltd.
6. ikjljk;]vula/kuifjp;A

Recommended/AdditionalReading:

1. Paul Wright,Qualitative Research and Evaluation, Jones & Bartlett Learning
2. Tandon: Research Methodology in Social Sciences.
3. Yojna. Monthly Magazine.
4. EconomicTimes, Financial Express and other Newspapers.
5. Economic Magazines.
6. Reports of various agencies.
7. ,p0ddfiy]vula/dufof/k;ak],p0ih0Hkkx2ocdgkAlvkxjk

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Semester VIII

Bachelor of Economics with Research

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Advanced Statistics

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSE: Advanced Statistics	4	3	1	0	Passed Bachelor of Economics	Nil

Bachelor of Economics with Research		
Programme : Bachelor of Economics with Research	Year 4	Semester 8 Paper II (c)
Subject : Economics		
Course Code: ECODSE803	Course Title : Advanced Statistics	

Course Outcomes: The course will help students to:

- Understand sampling and data collection techniques.
- Learn the descriptive statistics and data analysis.
- Learn about time series analysis and probability theory
- Learn and apply inferential statistics and linear regression.

Credits : 4 Credits	Discipline Specific Elective	
Unit	**Topics**	**No. of Hours**
I	**Introduction to Sampling and Data Collection** Planning and Execution of Sample Surveys. Collection, Classification, Tabulation, and Presentation of Data. Sampling Theory and Design of Sample Surveys: Theoretical Basis of Sampling, Methods and Types of Sampling, Errors in Sampling, Merits and Limitations of Sampling	12
II	**Descriptive Statistics and Data Analysis** Different Types of Averages. Dispersion: Range, Standard Deviation, Coefficient of Variation, Probable Error, Lorenz Curve and Gini Coefficient. Skewness and Kurtosis. Simple Correlation.	14
III	**Time Series Analysis, Interpolation-Extrapolation and Probability Tests**	17

	Time Series Analysis and Components of Time Series, Methods of Measurement of Trend, Measurement of Seasonal, Cyclical, and Irregular Variations. Interpolation and Extrapolation. Probability Theory, Probability Distribution Function -PMF (Probability Mass Function)- Binomial and Poisson Distribution and PDF (Probability Density Function)-Normal distribution, t-Distribution, chi-square Distribution.	
IV	Statistical Inference and Testing of Hypotheses. Large sample & Small sample. Type-I & Type II Errors. Level of Significance. Interpretation of p-value. One-tail and Two-tail tests. Testing of Significance for Small and Large Samples (Z-test, t-test, Chi Square test, F-test and Analysis of Variance (ANOVA). Regression Analysis (for two & three variables).	17

Essential Reading:

1. Gupta, S.P., Statistical Methods, (English) Sultan Chand, Delhi.
2. Gupta, S.P., Statistical Methods, (Hindi Edition), Sultan Chand, Delhi.
3. Singh, S.P., Statistics: Theory and Practice (Hindi Edition), S. Chand, Delhi.
4. Gupta, S.C., Fundamentals of Statistics, Himalaya Publishing House, Mumbai.

Recommended /Additional Reading:

1. Seymour Lipschutz & John Schiller: Introduction to probability and statistics, Schaum's Outlines McGraw Hill.
2. Alexander M. Mood, Franklin A. Graybill. And Duane C. Boes, Introduction to the theory of statistics, 3th Edition, McGraw-Hill.
3. Karmel, P.H. & M. Polasek, Applied Statistics for Economics, Pitman Publishing, London.
4. Cochran, Sampling Techniques, John Wiley, New York.
5. Croxton and Cowden, Applied General Statistics, Prentice Hall, London.
6. Yamane, Taro, Statistics- An Introductory Analysis, Harper & Row, New York.
7. Des Raj, The Design of Sample Surveys, McGraw Hill, New York.
8. Wonnacott, T.& R. Wonnacott, Introductory Statistics for Business and Economics, John Wiley, N.Y.
9. Deming, W. Edwards, Theory of Sampling, John Wiley, New York.
10. Srivastava, S.C. & Sangya Srivastava, Fundamentals of Statistics, Anmol Publications, New Delhi.
11. जीतेन्द्र कुमार लोहनी एवं पदम एस बिष्ट अर्थशास्त्र में गणितीय एवं सांख्यिकीय विधियाँ कुनाल बुक्स दिल्ली

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Semester VIII
Bachelor of Economics with Research

Generic Elective (GE)- Labour Economics-II

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
GE:Labour Economics-II	4	3	1	0	Passed Bachelor of Economics	Nil

Bachelor of Economics with Research		
Programme :Bachelor of Economics with Research	Year 4	Semester 8 Paper III (a)
Subject : Economics		
Course Code: ECOGE801	Course Title : Labour Economics-II	

Course Outcomes:

- The students will learn about labour movements and theories.
- The students will learn about labour legislation and labour security.
- The students will learn about the issues related to child and women labour.

Credits : 4 Credits	Generic Elective

Unit	Topics	No. of Hours
I	Theories of Labour Movement – Structure of Labour Union in India, Achievement of Labour Unions, Methods of Settlement of Industrial Disputes, Collective Bargaining, Conciliation, Arbitration and Adjustication. Current Trends in Collective Bargaining and Role of Judicial Activism.	15
II	Labour Legislation in India: Factory Act 1948, Indian Labour Laws and Practice in Relation to International Labour Standards.	12
III	State and Social Security of Labour: Concept of Social Security, Social Assistance and Social Insurance. Labour Welfare Measures in India. Social Security in India: Workmen Compensation Act 1923, Employees State Insurance Act. 1948, Maternity Benefit Act 1961,	18

	Employees Provident Fund Act. 1952, Employees Deposit Linked Insurance Scheme 1976, Payment of Gratuity Act 1972, Old Age Pension Scheme, Unorganised Workers Social Security Act 2008 and Employees Compensation (Amendment) Act 2017. PMSBY- Pradhan Mantri Suraksha Bima Yojna, PMJJBY- Pradhan Mantri Jeewan Jyoti Bima Yojna and APY-Atal Pension Yojna.	
IV	Child and Woman Labour: Working Condition and Hours of Work. Second National Commission on Labour, International Labour Organization and India.	15

Essential Reading:

1. T.S. Papola, Labour and Development, Academic Foundation.
2. Allen, V.L.: Power in Trade Unions.
3. Hicks, J.R. : Theory of Wages.
4. Mukerjee, R.K. : The Indian Working Class.
5. Das, N. : Unemployment and Full Emploment in India.

Recommended /Additional Reading:

1. Beveridge, W.H.: Social Security Plan.
2. Chamberlain, N.W.: Collective Bargaining.
3. Clow, A. G. : Indian Factory Legislation.
4. Deshpande, L.K. Brahmmananda P. R. (Ed.) : Employment Policy in a Developing Economy.
5. Deshpande, D. K. and Sandesara, J.C. (Ed.) : Wage Policy and Wage Determination in India.
6. Gilman, N.P. : Profit Sharing Between Employer and Employee.
7. Gadgil, D.R. : Women Workers in India.
8. Giri, V.V. :Labour Problems in Indian Industry.
9. Joshi, N.N. : Trade Union movement in India.
10. Kaul, N.N. : India and the I.L.O..
11. Mukerjee, P.K. :Labour Legislation in India.
12. Recent CMIE Report on Unemployment
13. Report on State of Working India 2023: Social Identities and Labour Market Outcome, Centre for Sustainable Employment
14. टी० एन० भगोली वाल, श्रम अर्थशास्त्र एवं औद्योगिक संबंध।

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Semester VIII

Bachelor of Economics with Research

Generic Elective (GE)- Agriculture Economics-II

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
GE: Agriculture Economics-II	4	3	1	0	Passed Bachelor of Economics	Nil

Bachelor of Economics with Research		
Programme :Bachelor of Economics with Research	Year 4	Semester 8 Paper III(b)
Subject : Economics		
Course Code: ECOGE802	Course Title : Agriculture Economics-II	

Course Outcomes:

- The students will learn about agriculture finance and its sources.
- The students will learn about marketing and state intervention in agriculture.

Credits : 4 Credits — **Generic Elective**

Unit	Topics	No. of Hours
I	Agricultural Finance in India: Meaning, Importance and Types. Sources of Agriculture Finance: Institutional and Non-institutional. Credit Analysis: 4R's and 3C's. Existing Credit Delivery System (Multi Agency Approach): Cooperatives, Commercial Banks, Regional Rural Banks. Role of NABARD.	15
II	Agricultural Cooperatives: Meaning, Objectives, Principles and Significance. Cooperative Movement in India. Types of Agricultural Cooperatives: Credit, Farmer, Marketing, Processing and Warehousing. Problems and Prospects of Cooperative Institutions.	15
III	Agricultural Marketing: Meaning, Structure and Classification of Agriculture Markets. Regulated Markets. Marketed Surplus &	18

	Marketable Surplus. Agriculture Produce Market (APMC) Act and National Agricultural Market (NAM). Behaviour of Agricultural Prices – Cobweb Model. Taxation and Crop Insurance. Agricultural Price Policy – Objectives, Instruments and Evaluation.	
IV	Role of Subsidies in agriculture. International Trade in Agricultural Commodities. Commodity Agreement Issues in Liberalisation. Role of MNCs, WTO and Indian Agriculture.	12

Essential Reading:

1. G.S. Bhalla, Indian Agriculture since Independence, National Book Trust, India, Ministry of Education.
2. Shah, C.H. and C.N. Vakil (ed.): Agriculture Development of India: Policy and Problems, Orient Longman, 1979.
3. Southworth N. and A. Johnston: Agriculture Development and Economic Growth, Cornell University Press.
4. Heady, E.O.: (ed.) Economic Development of Agriculture.
5. एस0 बी0 गुप्ता, कृषि अर्थशास्त्र, एस0 बी0 पी0 डी0 पब्लिकेशन आगरा।

Recommended /Additional Reading:

1. G.S. Bhalla, Economic Liberalisation and Indian Agriculture, Sage Publication Pvt. Ltd.
2. Snodgrass, Milton M. and L.T. Wallace: Agricultural Economic and Resource Management, Prentice Hall of India Pvt. Ltd., 1977.
3. Eicher, Earl and Lawrence Witt (ed.): Agriculture in Economic Development: Vora Co. Pub. Pvt. Ltd. 1970.
4. Chaudhari, Pramit: Selected Readings in Indian Agriculture.
5. R.S. Jalal, "Rural Development in India: Issues and Policy" (Vol. I & II), Anmol Publication, New Delhi
6. Govt. of India: Report of the National Commission on Agriculture.
7. Rao. H.H.: Technological Change and Distribution of Gains.
8. Rudra, Ashok: Indian Agricultural Economics: Myths and realities, Allied Pub., New Delhi, 1982.
9. Mitra, A: Terms of Trade and Class Relations.
10. Schultz, T.W.: Economic Crisis in World Agriculture.
11. Schultz, T.W.: Transforming Traditional Agriculture.

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Semester VIII

Bachelor of Economics with Research

Generic Elective (GE)- Indian Economy-II

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
GE: Indian Economy-II	4	3	1	0	Passed Bachelor of Economics	Nil

Bachelor of Economics with Research			
Programme :Bachelor of Economics with Research		Year 4	Semester 8 Paper III(c)
Subject : Economics			
Course Code: ECOGE803	Course Title : Indian Economy-II		
Course Outcomes: • The students will learn about the Indian Economy and its salient features. • The students will learn about population, employment and regional imbalances.			
Credits : 4 Credits		Generic Elective	

Unit	Topics	No. of Hours
I	Agriculture in India: Growth, Productivity and Investment. Land Reforms and Green Revolution. Policies for Agricultural and Rural Development. WTO and Indian Agriculture.	15
II	Industrial Growth in India – Status, Growth and Problems since Independence. Industrial Development during Planning Period.	12
III	Economic Reforms and Liberalization, Privatization, Globalization: Origin and Impact since 1990s. Need for Foreign Capital and Foreign Aid to India. A Critical Appraisal of MNC's development in India.	15
IV	Public Sector Vs Private Sector in India: Growth, Performance and New Industrial Policy 1991. Medium Small and Marginal Enterprises:	18

	Definition, Role and Performance. Service Sector: Growth and Performance.	

Essential Reading:

1. Misra, S. K. & V. K. Puri: Indian Economy.
2. Rudra Datt& K. M. P. Sundharam: Indian Economy, S. Chand, New Delhi.
3. Bimal Jalan: Problems of Indian Economy.
4. Agrawal, A.N.: Indian Economy, Wishwa Prakashan, New age International (P) Limited, New Delhi.
5. रूद्रदत्त एवं के० एम० पी० सुन्दरम, भारतीय अर्थव्यवस्था, एस० चाँद, नई दिल्ली।
6. मिश्रा एवंपुरी, भारतीय भारतीय अर्थव्यवस्था, हिमालया पब्लिकेशन, नई दिल्ली।

Recommended /Additional Reading:

1. Kumar, Arun, The Black Economy in India, Penguin Random House India
2. Chattopadhyay, Saumen, Macroeconomics of Black Economy, Orient Blackswan
3. Amartya Sen, Development as Freedom, Alfred A. Knope, Inc.
4. Dutt, R. (ed.): Second Generation Economic Reforms in India.
5. Ahluwalia, I.J. and I.M.D. Little, eds., India's Economic Reforms and Development, OUP, New Delhi
6. Brahmananda, P.R. and V.R. Panchmukhi, eds., Development Experience in the Indian Economy: Interstate Perspectives, Book well, Delhi.
7. Datt, R., Second Generation Economic Reforms in India, Deep & Deep Publications, New Delhi
8. Government of India, Annual Economic Survey
9. MGNREGA Document
10. Recent Economic Survey
11. Recent Reports of NITI Aayog

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Semester VIII

Bachelor of Economics with Research

Generic Elective (GE)- Cultural Economics-II

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
GE: Cultural Economics-II	4	3	1	0	Passed Bachelor of Economics	Nil

Bachelor of Economics with Research		
Programme : Bachelor of Economics with Research	**Year 4**	**Semester 8 Paper III(d)**
Subject : Economics		
Course Code: ECOGE804	**Course Title : Cultural Economics-II**	

Course Outcomes: The course will help students to:

- Interpret the practical applications of cultural economics in sectors such as tourism, media, and public policy.
- Assess the socio-economic value of cultural heritage and identity, especially in contemporary and regional contexts.
- Explore and analyse Uttarakhand's cultural economy using conceptual and real-life examples, encouraging localized understanding of national frameworks.

Credits : 4 Credits	**Generic Elective**	
Unit	**Topics**	**No. of Hours**
I	**Cultural Economics in Public Policy and Governance:** Cultural Capital and Human Development Indicators. Art, Culture, and Identity in Social Inclusion. **Cultural Consumption in the Digital Age:** Role of Media, Film, and Literature in Cultural Economy. Economics of Festivals, Rituals, and Events	15
II	**Cultural Tourism:** Concepts, Stakeholders, and Value Chain. Linkage between Tourism and Local Economies. **Sustainable Development and Culture:** Models of Sustainable Cultural Tourism. Ecotourism. **Economics of Heritage:** Economic Impact of	15

	Heritage Sites and Monuments. Indigenous Knowledge and Craft Economies. **Case Studies**: UNESCO Heritage Sites and Indian Experiences.	
III	**Contemporary Issues in Cultural Economics:** Globalization vs. Localization of Culture. Cultural Commodification and Intellectual Property Rights. Economics of Digital Content Creation (OTT & Music). Impact of Technology on Cultural Work and Labor. Gender, Class and Caste in Cultural Production and Access. Public-Private Partnerships in Culture: Opportunities and Challenges.	15
IV	**Cultural Traditions of Uttarakhand:** Overview, Folk Art, Dance, Music, and Oral Literature Traditions. **Economics of Culture in Uttarakhand:** Local Craft Industries (Woodwork, Wool and Handicrafts). Religious Tourism and its Economic Significance (Char Dham Yatra and Temples). **Government and Culture:** Policy Frameworks and Schemes related to Culture in Uttarakhand. **Role of Non-Government Sector:** NGOs, SHGs, and Community-based Models in Cultural Promotion.	15

Essential Reading:

1. Einarsson, Ágúst (2016). *Cultural Economics*, Bifröst University.
2. Towse, Ruth (2010). *A Textbook of Cultural Economics*, Cambridge University Press.

Recommended/ Additional Readings:

1. Throsby, David (2001). *Economics and Culture*, Cambridge University Press.
2. Richards, G. (2007). *Cultural Tourism: Global and Local Perspectives*.
3. Government of Uttarakhand reports and policy documents on culture and tourism.
4. Selected journal articles, case studies, and field reports on Uttarakhand's cultural economy.

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Semester VIII

Bachelor of Economics with Research

DISSERTATION ON MAJOR/MINOR

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Field work/ Practical/Practice		
DISSERTATION ON MAJOR/ MINOR	6	0	2	4	Passed Bachelor of Economics	Nil

Bachelor of Economics with Research		
Programme : Bachelor of Economics with Research	Year 4	Semester 8 Paper IV
Subject : Economics		
Course Code: ECOAP801	Course Title: Dissertation on Major/Minor	
Credits :6 Credits		Dissertation on Major/Minor (Compulsory)
Note: Dissertation will be based on Primary/Secondary data.		

The student will have to undergo a Dissertation on Major/ Dissertation on Minor on any relevant socio-economic problem allotted by the concerned teacher and prepare a report of 60 to 100 pages, duly typed and binded (A4 size paper having in Hindi/English with 1.5-line gap).

MASTER'S IN ECONOMICS

FIFTH YEAR	IX	DSC	Advanced Microeconomics- II	Theory	4
		DSE 1	Advanced Economic Growth & Development-I	Theory	4
		DSE 2	Advanced International Economics-I	Theory	4
		DSE 3	Econometrics –I	Theory	4
		GE 1	History of Economic Thought-I	Theory	4
		GE 2	Financial Institutions and Markets-I	Theory	4
		GE 3	Demography-I	Theory	4
		GE4	Industrial Economics-I	Theory	4
		Academic Project	Academic Project	Practical	6
	X	DSC	Advanced Macroeconomics- II	Theory	4
		DSE 1	Advanced Economic Growth & Development-II	Theory	4
		DSE 2	Advanced International Economics-II	Theory	4
		DSE 3	Econometrics-II	Theory	4
		GE 1	History of Economic Thought-II	Theory	4
		GE 2	Financial Institutions and Markets-II	Theory	4
		GE 3	Demography-II	Theory	4
		GE4	Industrial Economics-II	Theory	4
		DISSERTATION	Dissertation on Major/Dissertation on Minor	Practical	6

Semester IX

Master's in Economics

DISCIPLINE SPECIFIC COURSE (DSC)- Advanced Microeconomics-II

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSC: Advanced Microeconomics-II	4	3	1	0	Passed Bachelor of Economics with Research	Nil

Master's in Economics		
Programme: Master's in Economics	Year 5	Semester 9 Paper I
Subject : Economics		
Course Code: ECODSC901	Course Title : Advanced Microeconomics-II	

Course Outcomes: The course will help students to:

- Students will be able to analyse the characteristics of imperfect competition, evaluate monopoly power and its effects, and apply game theory to understand strategic interactions in oligopoly.
- Students will understand the implications of adverse selection, analyse information asymmetries, and explore mechanisms like signalling and screening to improve market outcomes.
- Students will differentiate between price concepts, apply general equilibrium models, and assess efficiency and optimality in resource allocation using tools like the Edgeworth Box and Walras' Law.
- Students will evaluate the fundamental theorems of welfare economics, analyse public goods and externalities, and discuss social choice theory and contemporary debates on welfare and equity.

Credits :4 Credits	Discipline Specific Course	
Unit	**Topics**	**No. of Hours**
I	**Introduction to Imperfect Market Structure:** Definition and characteristics of imperfect competition, Comparison with perfect	15

	competition and monopoly. **Monopoly:** Reasons for Monopoly, Monopoly Power & Lerner's Index, Impact of Monopolies on Consumer Welfare and Market Efficiency. **Monopoly Equilibrium:** Determining equilibrium in a monopoly market, Analysis of pricing and output decisions. Multi-plants Monopoly. **Price Discrimination:** Overview of price discrimination and its types, Effects of price discrimination on consumer surplus and firm profits. **Monopolistic Competition-** Equilibrium Condition and Firm Behaviour. **Oligopoly:** Characteristics of oligopolistic markets, Strategic interactions among firms in an oligopoly. **Economic Models of Oligopoly:** Cournot Model, Bertrand Model, Chamberlin Model, Kink Demand Curve Model & Stackelberg Model. **Game theory**: Nash equilibrium, Prisoner's dilemma, saddle point solution, cooperative versus non-cooperative games, simultaneous games and sequential games. **Tax Incidence:** Understanding tax incidence and its implications in imperfect markets, analysis of how taxes affect prices and consumer behaviour. **Market Failures:** Understanding the concept of market failure, types, causes and consequences of inefficiencies in markets.	
II	**Information and Market Efficiency:** Analysis of how information asymmetries impact the efficiency of market outcomes, Role of information in facilitating or hindering effective market transactions. **Understanding Adverse Selection:** Definition, significance, concept through "Market for Lemons" model. **Signalling Mechanisms:** Exploration of signalling and examples in various markets. **Screening Techniques:** Examination of how screening can mitigate adverse selection and improve market outcomes. **Moral Hazard:** Definition and implications of moral hazard in insurance and financial markets. **Principal-Agent Problem:** Analysis, challenges Exploration of strategies to align incentives and reduce agency costs.	15
III	**General Equilibrium Analysis - Price Concepts:** Differentiating between absolute prices and relative prices. Perfect Competition Prices and General Equilibrium Models – with and without production. **Pure Exchange Economy:** Edgeworth Box. **Efficiency and Optimality:** Understanding Pareto improvements, Defining Pareto efficiency in allocation of goods and resources, Exploration of the contract curve and its role in identifying efficient allocations. **Core of the Economy**: Concept of Core in cooperative gaming theory. **Walras' Law:** Introduction to Walras' Law and its implications for equilibrium of market, Conditions necessary for achieving Walrasian equilibrium, Walrasian Equilibrium Analysis. **Role of Money:** Integrating money into the general equilibrium framework.	15
IV	**Welfare Economies:** Introduction to the first and second fundamental theorems of welfare economics, graphical representation and	15

	interpretation. **Interpersonal Comparisons and Ethical Considerations:** Challenges associated with interpersonal comparisons of utility, Examination of the aggression problem and its implications for welfare assessments. **Public Goods and Externalities:** Understanding the characteristics of public goods and the issues surrounding their provision. Analysis of externalities and their impact on social welfare, including positive and negative externalities, Pigovian & Coasian Solution. **Social vs. Private Welfare:** Exploration of the divergence between social welfare and private welfare, Discussion of the implications for economic policy and resource allocation. **Compensation Principle:** Introduction to the compensation principle and its role in welfare economics, Evaluation of how this principle can guide policy decisions to improve social welfare. **Pareto Optimality:** Definition and significance of Pareto optimality in resource allocation, Analysis of conditions under which Pareto efficiency is achieved. **Social Choice Theory:** Overview of social choice theory and its relevance to welfare economics, Recent schools of thought (Amartya Sen and Ronald Coase). **Contemporary Debates:** Discussion of current issues and debates in welfare economics, including equity, justice, and the role of institutions.	

Essential Reading:

1. Hal R. Varian, Intermediate Microeconomics, Springer Publication.
2. Nicholson W., Snyder, C., Microeconomic Theory, Basic Principles and Extensions, South-Western, USA.
3. Serrano, R., Feldman, A.M., A short course in Intermediate Microeconomics with Calculus, Cambridge University Press.

Recommended /Additional Reading:

1. Henderson, J.M. and R.E. Quandt, Microeconomic Theory: A Mathematical Analysis, McGraw Hill, Singapore.
2. P. Krugman and R. Wells, Economics, Worth Publishers Macmillan.
3. Ahuja, H.L., Advanced Economic Theory, S. Chand & Co., New Delhi.
4. Roy Choudhary, K., Modern Micro Economics, Theory and Application, Vols. I, II & III, Dominant Publishers and Distributors, New Delhi.
5. Weintraub, E.R., General Equilibrium Theory, Macmillan, London.
6. Da Costa, G.C., Production, Prices and Distribution, Tata McGraw Hill, New Delhi.
7. Mishan, E.J., Welfare Economics: An Assessment, North Holland, Amsterdam.
8. एच० एल०, आहूजा उच्चतर आर्थिक सिद्धान्त, एस० चाँद, नई दिल्ली
9. एम० एल० झिंगन, उच्च आर्थिक सिद्धान्त, वृन्दा पब्लिकेशन, नई दिल्ली।

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92

Semester IX
Master's in Economics

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Advanced Economic Growth &Development-I

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSE:Advanced Economic Growth & Development-I	4	3	1	0	Passed Bachelor of Economics with Research	Nil

Master's in Economics		
Programme : Master's in Economics	**Year 5**	**Semester 9 Paper II (a)**
Subject : Economics		
Course Code: ECODSE901	**Course Title: Advanced Economic Growth & Development-I**	

Course Outcomes: The course will help students to

- Understand the conceptual issues in growth and development.
- Understand various growth and development theories.

Credits : 4 Credits	**Discipline Specific Elective**

Unit	Topics	No. of Hours
I	Meaning, Characteristics and Measurement of Economic Growth and Development. Measuring Development and Development Gap. Human Development Index and Other Indices of Development and Quality of Life. Theory of Demographic Transition. Poverty – Absolute and Relative.	15
II	Classical Theory: Smith, Ricardo, Malthus. Marxian Theory of Capitalist Development. Schumpeterian View of Dynamic Evolution of Economy. Structural Analysis of Development. Development in Historical Perspective: The Rostow's Stages of Growth.	15

93

III	Partial Theories of Underdevelopment: Vicious Circle of Poverty. Social and Technological Dualism. Models of a Dual Economy: Nurkse, Lewis and Todaro Model.	15
IV	Theory of the Big Push. Balanced and Unbalanced Growth. Critical Minimum Effort Thesis and Theory of Low-Level Equilibrium Trap.	15

Essential Reading:

1. Mishra, S.K.&V.K. Puri, Economics of Growth and Development, Himalaya Publishing House, Mumbai.
2. Ghatak, S., (1986), An Introduction to Development Economics, Allen and Unwin, London.
3. Thriwall, A. P., (1978), Growth and Development, McMillan, London.
4. Adelman I (1969) : Theories of Economic Growth and Development, Stanford University Press, Stanford

Recommended /Additional Reading:

1. Kindlerberger, C.P. and B. Harrik (1983): Economic Development, McGraw-Hill, Tokyo.
2. Jayati Ghosh, Michael Kalecki and Economic Development.
3. Higgins, B. (1959) : Economic Development, Norton , New York
4. Salvatore, D. and E. Dowling (1977) : Development Economics, Schuam's Outline Series in Economics, McGraw
5. Agarwal, A. N. and S.P. Singh, (Eds.) (1985) : Economics of Underdevelopment O.U.P., London.
6. Sen, A.K. (ed.) (1971) : Growth Economics, Penguin, Harmondsworth.
7. Sundaram, R.M. (1984) : Development Economics : A Framework for Analysis and Policy.
8. Todaro, M.P. : Economic Development, Longman, London.
9. United Nations : Human Development Report.
10. Debraj Ray, Development Economics, Princeton University Publishing.

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Semester IX

Master's in Economics

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Advanced International Economics-I

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSE: Advanced International Economics-I	4	3	1	0	Passed Bachelor of Economics with Research	Nil

Master's in Economics		
Programme : Master's in Economics	Year 5	Semester 9 Paper II (b)
Subject : Economics		
Course Code: ECODSE902	Course Title : Advanced International Economics-I	
Course Outcomes: The course will help the students to • Learn various theories of international trade and related concepts. • Learn about international trade agencies.		
Credits : 4 Credits	Discipline Specific Elective	

Unit	Topics	No. of Hours
I	Theories of International Trade: Classical theory, Haberler's theory, Heckscher-Ohlin Theory. Extensions of Heckscher-Ohlin Theorem: Factor Price Equalization Theorem, Stopler-Samuelson Theorem, Leontief Paradox, The Rybcznyski Theorem and New International Trade Theory.	18
II	Gains from Trade: Reciprocal Demand and Supply Curves. Terms of Trade: Concepts of Terms of Trade, their Uses and Limitations, Hypothesis of Secular Deterioration of Terms of Trade. Trade as an Engine of Growth, Economic Growth and International Trade: The Concept of Immiserizing Growth.	18

III	Trade Policy-Free Trade and Protectionism. Methods of Trade Interventions: - Tariffs, Import Quota, Non-Tariff Barriers and their effects. Optimum and Effective Tariff Rates. Anti-Dumping.	14
IV	Custom Union, International Economic Integration and GATT, Functions and Objectives of WTO, AOA, TRIPS & TRIMS and GATS.	10

Essential Reading:

1. Krugman, P.R., International Economics, Add Wesley Longman, Delhi.
2. Bhatia, H.L., International Economics, Vikas Publishing House, New Delhi.
3. Dornbusch, R., International Economic Policy: Theory and Evidence, Johns Hopkins University Press

Recommended /Additional Reading:

1. Salvatore, D., International Economics, John Wiley, NewYork.
2. Mannur, H.G., International Economics, Vikas Publishing House, New Delhi.
3. Meier G. M.,eading Issues in Economic Development, OUP, Mumbai.
4. Pearce, I.J., International Trade, Vols. I & II, Macmillan, London.
5. Rana K.C. and K.N. Verma, International Economics, Vishal Publishing Co., Jalandhar.
6. Jajal R.S. & Bisht, N.S., Emerging Dimensions of Global Trade.
7. Jalal R.S., Trade Policy and Global Participation: Indian Experience, Swaroop & Sons, New Delhi.
8. Chacholiades, M., International Trade Theory and Policy, McGraw Hill, New York.
9. Sodersten, Bo., International Economics, MacMillan, London.
10. Bhagwati, J., ed., International Economics, OUP, New Delhi.
11. P.L. Krugman, M. Obstfeld and M.J. Melitz, International Trade Theory and Policy, Pearson.
12. एम0 एल0 झिंगन, अन्तर्राष्ट्रीय अर्थशास्त्र, वृन्दा पब्लिकेशन, नई दिल्ली।

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96

Semester IX

Master's in Economics

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Econometrics-I

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSE: Econometrics -I	4	3	1	0	Passed Bachelor of Economics with Research	Nil

Master's in Economics		
Programme : Master's in Economics	**Year 5**	**Semester 9 Paper II (c)**
Subject : Economics		
Course Code : ECODSE903	**Course Title : Econometrics-I**	

Course Outcomes: The course will help students to:

- Understand the foundational concepts and measurement techniques in econometrics.
- Apply Ordinary Least Squares (OLS) and Classical Least Squares (CLS) methods for estimating single equation models.
- Understand the problems and limitations of OLS Estimation
- Utilize advanced least squares methods, including Generalized Least Squares (GLS) and Restricted Least Squares (RLS), for econometric analysis.

Credits : 4 Credits	Discipline Specific Elective

Unit	Topics	No. of Hours
I	**Introduction to Econometrics** Role of Measurement in Economics. Stochastic Approach. Normal Probability Distribution. Sources and Types of Data. Exogenous, Endogenous, and Predetermined Variables. Parameters. Econometric Model. Recursive Model	15
II	**Estimation of Single Equation Model (Least Squares Methods)** Method of Ordinary Least Squares (OLS) and Classical Least Squares (CLS): Gauss-Markov Theorem, Assumptions, Estimates of Parameters, Characteristics, Standard Error, Estimates of Disturbance, Variance, Coefficient of Determination (R-Squared and Adjusted R-	15

	Squared), Coefficient of Partial and Multiple Correlation Prediction, Inferences and Interpretation of Regression Coefficients, 't' and 'F' Statistic	
III	**Problems in OLS Estimation:** Heteroscedasticity, Auto-Correlation (First-Order), Multicollinearity. Consequences, Tests and Remedies	15
IV	**Advanced Least Squares Methods** Dummy Variables. Qualitative Variables, Method of Generalized Least Squares (GLS) – Assumptions, Estimations and Interpretation, Method of Restricted Least Squares (RLS) - Assumptions, Estimations and Interpretation, Pooling of Cross Section and Time Series Data	15

Essential Reading:

1. D. Gujrati: Basic Econometrics
2. A. Koutsoyiannis: Theory of Econometrics

Recommended /Additional Reading:

1. L.R.Klein: A Textbook of Econometrics.
2. J.Johnston: Econometric Methods.
3. P.Schmidt: Econometrics.
4. Rao and Miller: Applied Econometrics.
5. Carl F. Christ: Econometric Methods.
6. G.Tintner: Econometrics.
7. M.D.Intriligator: Econometric Models: Techniques and Applications.
8. G.S.Maddala: Econometrics.;
9. G.C.Judge,et al.: Theory and Practice of Econometrics.
10. R.Stone: The Role of Measurement in Economics;
11. Apte: Textbook of Econometrics

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Semester IX

Master's in Economics

Generic Elective (GE)- History of Economic Thought-I

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
GE: History of Economic Thought-I	4	3	1	0	Passed Bachelor of Economics with Research	Nil

Master's in Economics			
Programme :Master's in Economics		Year 5	Semester 9 Paper III(a)
Subject : Economics			
Course Code: ECOGE901	Course Title :History of Economic Thought-I		
Course Outcomes: • The students will learn about the evolution of economics as a discipline. • The students will learn about the various schools of thought in economics.			
Credits : 4 Credits		Generic Elective	

Unit	Topics	No. of Hours
I	History of Economic Thought: Meaning, Nature, Scope and Importance. Ancient Economic Thought: Hebrew, Greek, Roman, and Kautilya	16
II	Economic Thought of Middle Ages: New School of Scholasticism and Canon Law, St. Thomas Aquinas and Nicholas. Rise of Modern Economic Thought: Feudalism, Mercantilism and Physiocracy.	16
III	Evolution of Classicism and Neo-classicism: Adam Smith, David Ricardo, Thomas R. Malthus, Marshall.	15
IV	Analyzing Social Change in Historical Perspective: St. Simon, Robert Owen, Jean Charles Leonard Sismondi, Karl Marx: Historical Materialism and Surplus Theory of Value.	13

Essential Reading:

1. T.N. Hajela , History of Economic Thought, Ane Books
2. Roll, Eric: History of Economic Thought.
3. Haney: History of Economic Thought
4. Dharma Kumar, The Cambridge Economic History of India, Cambridge University Press.

Recommended /Additional Reading:

1. Schumpeter, J.A.: A History of Economic Analysis.
2. Stigler, G.J.: Essays in the History of Economics.
3. Dobb, Maurice: Theories of Value and Distribution since Adam Smith.
4. Meek, R.L.: Physiocracy.
5. Meek R.L.: The Labour Theory of Value.
6. Smith, A.: Wealth of Nations, Book I, Chap. I to X.
7. Blaug, Mark: Economic Theory in Retrospect.
8. Sheshadri, G.B.: Economic Doctrines.
9. Utsa Patnaik and Prabhat Patnaik, A Theory of Imperialism, Columbia University Press.
10. Prabhat Patnaik, Value of Money, Columbia University Press.
11. Amartya Sen, Development as Freedom, Alfred A. Knope, Inc.
12. J. Dreze and A. Sen, An Uncertain Glory: India and its Contradictions, Princeton University Press.
13. Ganguli, B.N.: Indian Economic Thought: A 19th Century Perspective.
14. Gide and Rist: History of Economic doctrines. (हिन्दी रूपान्तर)
15. वी0सी0 सिन्हा, आर्थिकविचारों का इतिहास, एस0 बी0 पी0 डी0 पब्लिकेशनआगरा।
16. दत्तो पंथ ठेंगड़ी जीवन दर्शन अमरनाथ डोगरा,सुरुचि प्रकाशन नई दिल्ली।

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Semester IX

Master's in Economics

Generic Elective (GE)- Financial Institutions and Markets-I

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
GE: Financial Institutions and Markets-I	4	3	1	0	Passed Bachelor of Economics with Research	Nil

Master's in Economics			
Programme :Master's in Economics		Year 5	Semester 9 Paper III(b)
Subject : Economics			
Course Code: ECOGE902	Course Title : Financial Institutions and Markets-I		
Course Outcomes: • The students will learn about the structure of the Indian Financial System. • The students will learn about financial markets, money markets and capital markets.			
Credits : 4 Credits		Generic Elective	

Unit	Topics	No. of Hours
I	Introduction of Financial System: Formal, Informal and Financial Sectors. Financial System and Economic Growth. Financial system and Economic Development.	17
II	Financial System in India: Structure, Components, Regulations and Role. Flow of Funds Matrix. Integration of Indian Financial Markets with global Financial Markets.	17
III	Money Market: Definition, Structure, Characteristics, Functions, Significance and Instruments. Role of Central Bank in Money Markets. Indian Money Market.	13
IV	Capital market -Structure, Functions, Characteristics, Organisations & Instruments. Foreign Exchange Markets - Functions, Organization and	13

	Structure. Indian Debt Market. Indian Equity Market – Primary and Secondary Markets.	

Essential Reading:

1. Bhole, L.M.: Financial Institutions and Markets, Tata McGraw Hill, New Delhi
2. Chandra, P.: Financial Markets, Tata McGraw Hill, New Delhi.

Recommended /Additional Reading:

1. Bhole, L.M.: Indian Financial System, Chugh Publications, Allahabad.
2. Hanson, J.A. and S. Kathuria: India: A financial sector for the Twenty First Century, OUP, New Delhi.
3. Khan, M.Y.: Indian Financial System, Tata McGraw Hill, New Delhi.
4. Machiraju, M.R.: Indian Fianancial System, Vikas Publishing House, New Delhi.
5. Harker, P.T. and S.A. Zenios (ed): Performance of Financial Institutions, Cambridge University Press.
6. Machiraju, M.R.: International Financial Markets in India, Wheeler Publishing House, Allahabad.
7. Farrell, J.L.: Portfolio Management, McGraw Hill, New York.
8. Smith, P.F.: Money and Financial Intermediation: The Theory and Structure of Financial System, Prentice Hall, Englewood-Cliff, New Jersey.
9. Rangarajan, C,: Indian Economics: Essays on Money and Finance, UBS Publication, New Delhi.
10. RBI : Functions and Working of RBI

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Semester IX

Master's in Economics

Generic Elective (GE)- Demography-I

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
GE: Demography-I	4	3	1	0	Passed Bachelor of Economics with Research	Nil

Master's in Economics		
Programme :Master's in Economics	Year 5	Semester 9 Paper III(c)
Subject : Economics		
Course Code: ECOGE903	Course Title : Demography-I	

Course Outcomes:

- Students will be able to learn the meaning of demography and demographic structure in India.
- Students will be able to learn population theories.
- Students will be able to learn about population growth and economic development.

Credits : 4 Credits — **Generic Elective**

Unit	Topics	No. of Hours
I	Demography- Meaning, Scope and Importance. Demographic Structure in Developed and Developing Countries. Rural, Urban, Tribal and Women Population Structure in India.	17
II	Population Theories: Malthus, Optimum and Demographic Transition Theory, Leibenstein Theory of Population and Population Cycle.	10
III	Vital Statistics. Measurement and Determination of Fertility and Mortality. Factors of Fertility and Mortality. Crude Birth Rate, Reproduction Rate, Gross Reproduction Rate, Net Reproduction Rate.	17

	Crude Death Rate, Sex Ratio, Infant Mortality Rate. Life Expectancy: Life Table, Methods of Population Projection and Life Expectancy Index.	
IV	Population Growth and Economic Development. Child Health in India. Effect of Population Growth on Savings and Capital Formation. Human Development Index. Human Resource Development. Concept of Demographic Dividend.	16

Essential Reading:

1. Srivastava, S. C.., Studies in Demography, Anmol Publication, New Delhi.
2. Pande, G.C., Principle of Demography, Anmol Publication, New Delhi.
3. Bogue, D.J.: Principles of Demography, John Wiley, New York.
4. Bose, A.: India's Basic Demographic Statistics, B.R. Publishing Corporation, New Delhi.
5. श्रीवास्तव, एस0सी0, जनांकिकीय अध्ययन के प्रारूप, हिमालया पब्लिशिंग हाऊस, मुम्बई।
6. वि0 कुमार एवं गुप्ता, जनांकिकी, एस0 बी0 पी0 डी0 पब्लिकेशन आगरा।

Recommended /Additional Reading:

1. Bhende, A.A. and T.R. Kanitkar: Principles of Population Studies, Himalaya Publishing House, Bombay.
2. Census of India: Various Reports.
3. Misra, B.D.: An Introduction to the Study of Population, South Asia Publishers, New Delhi.
4. Krishnaji, M., R.M. Sudrashan and A. Shariff: Gender Population and Development, OUP, NewDelhi.
5. Agarwala, S.N.: India's Population Problem., Tata McGraw Hill, Bombay.
6. Agarwal, U.D.: Population Projections and Their Accuracy, B.R. Publishing Corporation, New Delhi.
7. एस0 बी0 गुप्ता, औद्योगिक अर्थशास्त्र,एस0 बी0 पी0 डी0 पब्लिकेशन आगरा।

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Semester IX

Master's in Economics

Generic Elective (GE)- Industrial Economics-I

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
GE: Industrial Economics-I	4	3	1	0	Passed Bachelor of Economics with Research	Nil

Master's in Economics

Programme : Master's in Economics	Year 4	Semester 9 Paper III(d)
Subject : Economics		
Course Code: ECOGE904	Course Title : Industrial Economics-I	

Course Outcomes: The course will help in:

- Learning about industrial economics and industrialization.
- Learning about organizational form, market and demand.

Credits : 4 Credits — **Generic Elective**

Unit	Topics	No. of Hours
I	**Industrial Economics and Industrialization:** Meaning and scope of Industrial Economics. Concept and factors affecting Industrialization. Factors affecting Industrial Development. Industry and Sectoral Linkages. Industrialization and Regional Development. **Industrial Efficiency:** Meaning, Determinants, Measurement, Efficiency and Decision-making process, Efficiency and size of the Firm.	17
II	**Organizational Form:** Meaning. Organizational Form and Alternative Motives of the firm (Profit Maximization, Sales	15

	Maximization, Growth Maximization, Staff Maximization models), Choice of organizational form, Economies and dis-economies of Scale. Optimum Size of the Firm.	
III	**Market:** Meaning of Market Structure and Market Conduct. **Market Concentration:** Meaning, form of market concentration and its effect on market performance. Market concentration and Market power. Concept of workable Competition. Market Structure and Innovation, the Process of Innovation, The Theory of Technological Innovation.	18
IV	**Demand:** Meaning and Determinants of Demand, Law of Demand, Elasticity of Demand: Meaning and its measurement. Demand analysis and demand forecasting, Demand under different forms of market.	10

Essential Reading:

1. Bhartwal R, Industrial Economics - An Introductory Text Book, New Age International Pvt. Ltd, Bangalore.
2. Cherumilaum F, Industrial Economy of India, Himalaya Publishing House, Mumbai.
3. Divine P. J and R.M Jones (et.al), An Introduction to Industrial Economics, George Allen and Unwin Ltd. London.
4. Sivayya K. V and V.B.M Das, Indian Industrial Economy, S. Chand and Company.

Recommended/Additional Reading:

1. Ahluwalia I J, Industrial Growth in India, Oxford University Press, Oxford.
2. Desai. S.S.M and Nirmal Balerao, Industrial Economy of Indian, Himalaya Pub., House, Mumbai.
3. Dilip Mookerjee, Indian Industry: Policies and Performance, Oxford University Press, Delhi.
4. Kyoko Inone, Industrial Development Policy in India, Institute of Developing Economies, Tokyo. 15. Nagesh Kumar, MNCs and Industrial Organization, Sage pub. New Delhi.
5. Ram Shankar Singh, Industrialization in India, Deep and Deep, New Delhi.
6. Singh A and A. N. Sandhu, Industrial Economics, Himalaya Publishing House, Mumbai.
7. Kuchaal, Industrial Economy of India, Chaitanya, Allahabad.
8. Desai B, Industrial Economy of India, Himalaya Pub. House, Mumbai.

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Semester IX

Master's in Economics

ACADEMIC PROJECT

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Field work/ Practical/Practice		
ACADEMIC PROJECT	6	0	2	4	Passed Bachelor of Economics with Research	Nil

Master's in Economics		
Programme : Master's in Economics	Year 5	Semester 9 Paper IV
Subject : Economics		
Course Code: ECOAP901	Course Title: Academic Project	
Credits :6 Credits	Academic Project (Compulsory)	
• The student will choose a relevant and contemporary topic related to Economics. • The topic should be specific enough to allow thorough study within the given timeframe.		

The student will have to prepare an Academic Project on any relevant socio-economic problem allotted by the concerned teacher and prepare a report duly typed and binded (A4 size paper having in Hindi/English with 1.5-line gap).

Semester X

Master's in Economics

DISCIPLINE SPECIFIC COURSE (DSC)- Advanced Macroeconomics-II

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSC: Advanced Macroeconomics-II	4	3	1	0	Passed Bachelor of Economics with Research	Nil

Master's in Economics			
Programme : Master's in Economics		Year 5	Semester 10 Paper I
Subject : Economics			
Course Code: ECODSC1001	Course Title : Advanced Macroeconomics-II		
Course Outcomes: The students will: • Learn about money and its various concepts • Learn about interest, IS-LM model, inflation and deflation. • Learn about commercial banking and credit creation by commercial banks. • Learn about trade cycles.			
Credits :4 Credits		Discipline Specific Course	
Unit	Topics		No. of Hours
I	Supply of Money: Different Concepts, High Powered Money, Money Multiplier and Determinants of Money supply. Demand for Money: Classical view of Demand for Money, Total Demand for Money, Post Keynesian Approach, Baumol's Approach, Fisher and Cambridge Versions. Approach of Friedman, Patinkins, Value of Money and Its' Measurements.		20
II	Theory of Interest: Classical, Neo-Classical and Keynesian Approaches. The Modern Theory of Interest. IS-LM Model: General Equilibrium of Product and Money Markets and Extensions of IS-LM Model.		12

III	Keynes' Theory of Money and Prices. Theories of Inflation. Effects and Control of Inflation. Inflationary and Deflationary Gaps. Phillips Curve and Friedman's Approach (Natural Rate Hypothesis). Okun's Law.	13
IV	Credit Creation by Commercial Banks, Central Bank: Functions and Role. Reserve Bank of India: Role and Performance. Theories of Trade Cycles: Hawtrey & Hayek, Keynes, Hicks and Samuelson.	15

Essential Reading:

1. Vaish, M.C., Macroeconomic Theory, Vikas, New Delhi.
2. Romer, D.L., Advanced Macroeconomics, Mc Graw Hill, New York.
3. O. Blanchard and D.R. Johnson, Macroeconomics, Pearson.
4. Ackley, G., Macroeconomics: Theory and Policy, Macmillan, New York
5. Dornbusch, R. and F. Stanley, Macroeconomics, Mc Graw Hill, New York.
6. एम० एल० झिंगन, समष्टि अर्थशास्त्र, वृन्दा पब्लिकेशन, नई दिल्ली।
7. एच० एल० आहूजा, उच्चतर समष्टि अर्थशास्त्र,एस० चाँद, नई दिल्ली।

Recommended /Additional Reading:

1. O. Blanchard, Macroeconomics, Pearson.
2. M. Kalecki, Political Aspects of Full Employment.
3. Jha, R., Contemporary Macroeconomic Theory and Policy, Wiley Eastern, New Delhi.
4. Gupta, S.B., Monetary Planning in India, OUP, New Delhi.
5. Reddy, Y.V., A Review of Monetary and Financial Sector Reforms in India, UBSPD, New Delhi.
6. Frisch, H., Theories of Inflation, Cambridge University Press.
7. Rakshit, M., Studies in the Macroeconomics of Developing Countries, OUP, New Delhi.
8. Vasudevan, A., Central Banking for Emerging Market Economies, Academic Foundation, New Delhi.
9. Rana K.C. and K.N. Verma, Macro Economic Analysis, Vishal Publishing Co. Jalandhar.

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Semester X

Master's in Economics

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Advanced Economic Growth &Development-II

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSE: Advanced Economic Growth & Development-II	4	3	1	0	Passed Bachelor of Economics with Research	Nil

Master's in Economics		
Programme : Master's in Economics	**Year 5**	**Semester 10 Paper II (a)**
Subject : Economics		
Course Code: ECODSE1001	**Course Title: Advanced Economic Growth & Development-II**	

Course Outcomes:

- Students will learn about models of growth by different economists.
- Students will learn about the role of international aid, finance in development & unemployment in developing economies.

Credits : 4 Credits — **Discipline Specific Elective**

Unit	Topics	No. of Hours
I	Conceptual Framework and Methodology of Modern Growth Theories. Growth Model. Harrod-Domar and Joan Robinson.	15
II	Models of Technical Progress: Hicks, Harrod. Optimal Savings and Ramsay's Rule. Golden Rule of Accumulation. Money in Economic Growth.	18
III	Growth Theories: Solow, Meade and Swan. Cambridge Theories of Growth: Kaldor and Kahn. Endogenous Growth: AK Model, Lucas and Romer Model.	15

IV	International Trade, Aid, Finance in Development. Technology Transfer and Multinational Corporations.	12

Essential Reading:

1. Mishra, S.K.&V.K. Puri, Economics of Growth and Development, Himalaya Publishing House, Mumbai.
2. Ghatak, S., (1986), An Introduction to Development Economics, Allen and Unwin, London.
3. Thriwall, A. P., (1978), Growth and Development, McMillan, London.
4. Adelman I (1969) : Theories of Economic Growth and Development, Stanford University Press, Stanford

Recommended /Additional Reading:

1. Kindlerberger, C.P. and B. Harrik (1983): Economic Development, McGraw-Hill, Tokyo.
2. Jayati Ghosh, Michael Kalecki and Economic Development.
3. Higgins, B. (1959) : Economic Development, Norton , New York
4. Salvatore, D. and E. Dowling (1977) : Development Economics, Schuam's Outline Series in Economics, McGraw
5. Agarwal, A. N. and S.P. Singh, (Eds.) (1985) : Economics of Underdevelopment O.U.P., London.
6. Sen, A.K. (ed.) (1971) : Growth Economics, Penguin, Harmondsworth.
7. Sundaram, R.M. (1984) : Development Economics : A Framework for Analysis and Policy.
8. Todaro, M.P. : Economic Development, Longman, London.
9. United Nations : Human Development Report.
10. Debraj Ray, Development Economics, Princeton University Publishing.

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Semester X

Master's in Economics

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Advanced International Economics-II

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSE: Advanced International Economics-II	4	3	1	0	Passed Bachelor of Economics with Research	Nil

Master's in Economics		
Programme : Master's in Economics	Year 5	Semester 10 Paper II (b)
Subject : Economics		
Course Code: ECODSE1002	Course Title : Advanced International Economics-II	

Course Outcomes:

- Students will learn about the Balance of Payment, Devaluation, Foreign Exchange and Exchange control.
- Students will also understand the role and functions of international financial institutions.

Credits : 4 Credits	Discipline Specific Elective

Unit	Topics	No. of Hours
I	Meaning and Components of the Balance of Payments. Equilibrium and Disequilibria in the Balance of Payments. Types of Disequilibrium, Causes and Correction of Disequilibria in the Balance of Payments.	14
II	Balance of Payment & Devaluation: Elasticity Approach (Marshall-Lerner Condition and Policy Trilemma) and Income Absorption Approach and Adjustment Mechanism: Monetary Policy. Mundell-Flemming Model. Foreign Trade Multiplier. Fixed, Flexible and Floating Exchange Rates, Theories of Exchange Rate Determination: Mint Parity, Purchasing Power Parity & Balance of Payment. Exchange Control.	12

III	Forms of Economic Cooperation. Free Trade Areas. Regionalism- ASEAN, EU, BRICS. Multilateralism- UNCTAD, IMF, IBRD, ADB and G20 with Special Reference to India. International Liquidity, Special Drawing Rights (SDRs). Current Issues of Emerging International Monetary System.	16
IV	Trade Problems and Trade Policies of India since1991: Recent Changes in the Direction and Composition of Foreign Trade of India. Trade Reforms since 1991 and Impact on Indian Economy. Problems of India's Foreign Debt. International Investment in India: Foreign Direct Investment, Portfolio Investment, Issues and Policies. Recent Export and Import Policies of India's Foreign Trade. Role of Multinational Enterprises in India: FERA and FEMA.	18

Essential Reading:

1. Krugman, P.R., International Economics, Add Wesley Longman, Delhi.
2. Bhatia, H.L., International Economics, Vikas Publishing House, New Delhi.
3. Dornbusch, R., International Economic Policy: Theory and Evidence, Johns Hopkins University Press

Recommended /Additional Reading:

1. Salvatore, D., International Economics, John Wiley, NewYork.
2. Mannur, H.G., International Economics, Vikas Publishing House, New Delhi.
3. Meier G. M.,eading Issues in Economic Development, OUP, Mumbai.
4. Pearce, I.J., International Trade, Vols. I & II, Macmillan, London.
5. Rana K.C. and K.N. Verma, International Economics, Vishal Publishing Co., Jalandhar.
6. Jajal R.S. & Bisht, N.S., Emerging Dimensions of Global Trade.
7. Jalal R.S., Trade Policy and Global Participation: Indian Experience, Swaroop & Sons, New Delhi.
8. Chacholiades, M., International Trade Theory and Policy, McGraw Hill, New York.
9. Sodersten, Bo., International Economics, MacMillan, London.
10. Bhagwati, J., ed., International Economics, OUP, New Delhi.
11. P.L. Krugman, M. Obstfeld and M.J. Melitz, International Trade Theory and Policy, Pearson.
12. एम० एल० शिंगन, अन्तर्राष्ट्रीय अर्थशास्त्र, वृन्दा पब्लिकेशन, नई दिल्ली।

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Semester X

Master's in Economics

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Econometrics-II

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSE: Econometrics -II	4	3	1	0	Passed Bachelor of Economics with Research	Nil

Master's in Economics		
Programme : Master's in Economics	Year 5	Semester 10 Paper II (c)
Subject : Economics		
Course Code: ECODSE1003	Course Title : Econometrics-II	

Course Outcomes: The course will help students to:

- Identify and evaluate model specifications and limitations in econometric modelling.
- Apply advanced econometric estimation methods to analyse complex economic data.
- Demonstrate understanding and implementation of lagged variable models in economic analysis.
- Estimate and interpret various econometric models, including LES and production functions.
- Estimate and interpret Probit, Logit and Tobit Model.

Credits : 4 Credits	Discipline Specific Elective

Unit	Topics	No. of Hours
I	**Model Identification and Limitations** Identification: Identification in the Case of Structural Form and Reduced Form Models. First Order and Second Order Conditions. Limitations, The Problem of Identification – Rules of Identification, Order and Rank Conditions	15
II	**Advanced Estimation Methods** Methods of Indirect Least Squares (ILS). Two Stage Least Squares Method (2SLS). Three Stage Least Square Method (3SLS), Maximum	15

	Likelihood Method. Full Information Maximum Likelihood (FIML) Method	
III	**Lagged Variables and Adjustment Models** Lagged Variables: Almon's Scheme of Polynomial Lag, Kocyk's Geometric Lag Scheme, Nerlove's Partial Adjustment Model, Probit, Logit and Tobit Model	15
IV	**Econometric Models and Procedures** Econometric Estimation of Linear Expenditure System (LES), Ad-hoc Procedures in Econometric Analysis. Proxy Variables. Time as an Explanatory Variable	15

Essential Reading:

1. D. Gujrati: Basic Econometrics
2. A. Koutsoyiannis: Theory of Econometrics

Recommended /Additional Reading:

1. L.R.Klein: A Textbook of Econometrics.
2. J.Johnston: Econometric Methods.
3. P.Schmidt: Econometrics.
4. Rao and Miller: Applied Econometrics.
5. Carl F. Christ: Econometric Methods.
6. G.Tintner: Econometrics.
7. M.D.Intriligator: Econometric Models: Techniques and Applications.
8. G.S.Maddala: Econometrics.;
9. G.C.Judge,et al.: Theory and Practice of Econometrics.
10. R.Stone: The Role of Measurement in Economics;
11. Apte: Textbook of Econometrics

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Semester X

Master's in Economics

Generic Elective (GE)- History of Economic Thought-II

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
GE:History of Economic Thought-II	4	3	1	0	Passed Bachelor of Economics with Research	Nil

Master's in Economics			
Programme :Master's in Economics		Year 5	Semester 10 Paper III(a)
Subject : Economics			
Course Code: ECOGE1001	Course Title : History of Economic Thought-II		
Course Outcomes: • Students will learn about various schools of thought of Economics. • Students will learn about Indian School of thought.			
Credits : 4 Credits		Generic Elective	

Unit	Topics	No. of Hours
I	Austrian School, Mathematical School and Nationalists School– Karl Menger, Fredrich Von Weiser, Eugen Von Bohm Bawerk, Irving Fisher, Gossen, Fredrick List.	17
II	The Institutional Economists – Thorstein Veblen, Mitchel, Ronald Coase.	13
III	Welfare Economics – Pigou, J.R.Hicks, Joan Robinson, J.M.Keynes.	13
IV	Indian Economic Thought – Dadabhai Norouji, Gokhale, Gandhian Economics, J.K.Mehta, Jawaharlal Nehru, Amartya Kumar Sen.	17

Essential Reading:

1. T.N. Hajela , History of Economic Thought, Ane Books
2. Roll, Eric: History of Economic Thought.
3. Haney: History of Economic Thought
4. Dharma Kumar, The Cambridge Economic History of India, Cambridge University Press.

Recommended /Additional Reading:

1. Schumpeter, J.A.: A History of Economic Analysis.
2. Stigler, G.J.: Essays in the History of Economics.
3. Dobb, Maurice: Theories of Value and Distribution since Adam Smith.
4. Stigler, G.J.: Essays in the History of Economics.
5. Dobb, Maurice: Theories of Value and Distribution since Adam Smith.
6. Meek, R.L.: Physiocracy.
7. Meek R.L.: The Labour Theory of Value.
8. Smith, A.: Wealth of Nations, Book I, Chap. I to X.
9. Blaug, Mark: Economic Theory in Retrospect.
10. Sheshadri, G.B.: Economic Doctrines.
11. Utsa Patnaik and Prabhat Patnaik, A Theory of Imperialism, Columbia University Press.
12. Prabhat Patnaik, Value of Money, Columbia University Press.
13. Amartya Sen, Development as Freedom, Alfred A. Knope, Inc.
14. J. Dreze and A. Sen, An Uncertain Glory: India and its Contradictions, Princeton University Press.
15. Ganguli, B.N.: Indian Economic Thought: A 19th Century Perspective.
16. Gide and Rist: History of Economic doctrines. (हिन्दी रूपान्तर)
17. वी0सी0 सिन्हा, आर्थिकविचारों का इतिहास, एस0 बी0 पी0 डी0 पब्लिकेशनआगरा।
18. दत्तो पंथ ठेंगड़ी जीवन दर्शन अमरनाथ डोगरा,सुरुचि प्रकाशन नई दिल्ली।

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Semester X

Master's in Economics

Generic Elective (GE)- Financial Institutions and Markets-II

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
GE:Financial Institutions and Markets-II	4	3	1	0	Passed Bachelor of Economics with Research	Nil

Master's in Economics			
Programme :Master's in Economics		Year 5	Semester 10 Paper III(b)
Subject : Economics			
Course Code: ECOGE1002	Course Title : Financial Institutions and Markets-II		
Course Outcomes: • Students will learn about the Reserve Bank of India, Monetary Policy and Inflation. • Students will learn about Commercial Banks, Non- Banking Institution, SEBI, IRDA & FEMA.			
Credits : 4 Credits		Generic Elective	

Unit	Topics	No. of Hours
I	Reserve Bank of India: Role, Reserve Management and Liquidity Management. RBI and Policy Debates. Changing role of Monetary Policy and Inflation Targeting.	17
II	Commercial Banks: Profile of Scheduled Commercial Banks. Post Reform Progress: Profitability of Banks, Valuation and Operation of Investment Portfolios by Banks, Management of Non-Performing Assets, Prudential Norms Relating to Capital Adequacy and Risk Management in Banks.	17
III	NBFC: RBI's Classification of NBFCs. Non - Banking Institutions: Small Savings, Pension Funds, Mutual Funds, Insurance Companies. Leasing, Hire Purchase Companies, Merchant Banking, Venture	14

	Capital Companies and Factoring. Regulation of NBFCs in India, Performance of NBFCs in India (Post 2008).	
IV	Regulatory Framework for Financial Markets in India (SEBI, IRDA, FEMA, RBI). Introduction to Cyber Security.	12

Essential Reading:

1. Bhole, L.M.: Financial Institutions and Markets, Tata McGraw Hill, New Delhi
2. Chandra, P.: Financial Markets, Tata McGraw Hill, New Delhi.

Recommended /Additional Reading:

1. Bhole, L.M.: Indian Financial System, Chugh Publications, Allahabad.
2. Hanson, J.A. and S. Kathuria: India: A financial sector for the Twenty First Century, OUP, New Delhi.
3. Khan, M.Y.: Indian Financial System, Tata McGraw Hill, New Delhi.
4. Machiraju, M.R.: Indian Fianancial System, Vikas Publishing House, New Delhi.
5. Harker, P.T. and S.A. Zenios (ed): Performance of Financial Institutions, Cambridge University Press.
6. Machiraju, M.R.: International Financial Markets in India, Wheeler Publishing House, Allahabad.
7. Farrell, J.L.: Portfolio Management, McGraw Hill, New York.
8. Smith, P.F.: Money and Financial Intermediation: The Theory and Structure of Financial System, Prentice Hall, Englewood-Cliff, New Jersey.
9. Rangarajan, C,: Indian Economics: Essays on Money and Finance, UBS Publication, New Delhi.
10. RBI : Functions and Working of RBI
11. K. Daleep & et.al. Modern Banking Techniques & Cyber Security, Shodh Sagar International Publications, Sector-3, Rohini Delhi-85.

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Semester X

Master's in Economics

Generic Elective (GE)- Demography-II

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
GE: Demography-II	4	3	1	0	Passed Bachelor of Economics with Research	Nil

Master's in Economics

Programme :Master's in Economics	Year 5	Semester 10 Paper III(c)
Subject : Economics		
Course Code: ECOGE1003	Course Title : Demography-II	

Course Outcomes:

- Students will be able to develop a comprehensive understanding of the growth, trends, and composition of the Indian population.
- Students will be able to evaluate the quality and significance of demographic data in India.

Credits : 4 Credits	Generic Elective

Unit	Topics	No. of Hours
I	Growth, Trend and Composition of Population in India. Age and Occupational Structure of Indian Population.Migration: Nature, Types and Problems of Migration in India, Theories of Migration: Everett Lee's, Duncan's and Lewis's Model of Rural-Urban Migration.	15
II	Sources of Demographic Data in India. Population Censuses in India: Nature, Methods, Problems and Defects. Salient Features of Population Census of 2001 and 2011. Registration of Births and Deaths. National Family Health Survey 1 and 2: Their Relative Merits and Demerits.	15

III	Evolution of Population Policy in India. Shift in Policy Focus from Population Control to Family Welfare and to Women Empowerment. The New Population Policy. Education, Health and Women's Autonomy.	15
IV	International Aspects of Population: Unequal Distribution of Population and World Resources. Recent Trends in World Population. Problems and Policies of Population in South-East Asian and African Countries.	15

Essential Reading:

1. Srivastava, S. C.., Studies in Demography, Anmol Publication, New Delhi.
2. Pande, G.C., Principle of Demography, Anmol Publication, New Delhi.
3. Bogue, D.J.: Principles of Demography, John Wiley, New York.
4. Bose, A.: India's Basic Demographic Statistics, B.R. Publishing Corporation, New Delhi.
5. श्रीवास्तव, एस०सी०, जनांकिकीय अध्ययन के प्रारूप, हिमालया पब्लिशिंग हाऊस, मुम्बई।
6. वि० कुमार एवं गुप्ता, जनांकिकी, एस० बी० पी० डी० पब्लिकेशन आगरा।

Recommended /Additional Reading:

1. Bhende, A.A. and T.R. Kanitkar: Principles of Population Studies, Himalaya Publishing House, Bombay.
2. Census of India: Various Reports.
3. Misra, B.D.: An Introduction to the Study of Population, South Asia Publishers, New Delhi.
4. Krishnaji, M., R.M. Sudrashan and A. Shariff: Gender Population and Development, OUP, NewDelhi.
5. Agarwala, S.N.: India's Population Problem., Tata McGraw Hill, Bombay.
6. Agarwal, U.D.: Population Projections and Their Accuracy, B.R. Publishing Corporation, New Delhi.
7. एस० बी० गुप्ता, औद्योगिक अर्थशास्त्र,एस० बी० पी० डी० पब्लिकेशन आगरा।

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Semester X

Master's in Economics

Generic Elective (GE)- Industrial Economics-II

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course (if any)
		Lecture	Tutorial	Practical/Practice		
GE: Industrial Economics-II	4	3	1	0	Passed Bachelor of Economics with Research	Nil

Master's in Economics

Programme : Master's in Economics	**Year**	**Semester 10 Paper III(d)**
Subject : Economics		
Course Code: ECOGE1004	**Course Title : Industrial Economics-II**	

Course Outcomes:

- The students will learn about the Profitability, Pricing Decision and Industrial Finance.
- The students will gain the knowledge of various industrial location theories.
- The students will learn about the industrialization growth and industrial labour issues in India.

Credits : 4 Credits	**Generic Elective**

Unit	Topics	No. of Hours
I	**Profitability:** Concept and measurement. Determinants of Profitability, Theories of Profitability, Mergers and Profitability. **Pricing:** Pricing Decisions, General Situations in Pricing Decisions, Pricing Strategies and Pricing Procedures, Pricing in Public Enterprises.	15
II	**Industrial Finance:** Meaning and Need, Types of Finance, Sources of Finance, Financial Structure of the Firm, Assessment of Financial	15

	Soundness. Analysis of Financial Ratios. Investment as a source of Finance: Nature and Types of Investment Decisions.	
III	**Industrial Location:** Determinants and Approaches. Operational Approaches to Industrial Location. Industrial Location Theories of Weber and Sargent Florence. Industrial Location Trends in India.	15
IV	**Industrialization in India:** Growth of Industrialization in India. Industrial growth and diversification, Trends in Industrial Growth. Industrial Policies in India, Industrial Labour issues and reforms.	15

Essential Reading:

1. Bhartwal R, Industrial Economics - An Introductory Text Book, New Age International Pvt. Ltd, Bangalore.
2. Cherumilaum F, Industrial Economy of India, Himalaya Publishing House, Mumbai.
3. Divine P. J and R.M Jones (et.al), An Introduction to Industrial Economics, George Allen and Unwin Ltd. London.
4. Sivayya K. V and V.B.M Das, Indian Industrial Economy, S. Chand and Company.

Recommended/Additional Reading:

1. Ahluwalia I J, Industrial Growth in India, Oxford University Press, Oxford.
2. Desai. S.S.M and Nirmal Balerao, Industrial Economy of Indian, Himalaya Pub., House, Mumbai.
3. Dilip Mookerjee, Indian Industry: Policies and Performance, Oxford University Press, Delhi.
4. Kyoko Inone, Industrial Development Policy in India, Institute of Developing Economies, Tokyo. 15. Nagesh Kumar, MNCs and Industrial Organization, Sage pub. New Delhi.
5. Ram Shankar Singh, Industrialization in India, Deep and Deep, New Delhi.
6. Singh A and A. N. Sandhu, Industrial Economics, Himalaya Publishing House, Mumbai.
7. Kuchaal, Industrial Economy of India, Chaitanya, Allahabad.
8. Desai B, Industrial Economy of India, Himalaya Pub. House, Mumbai.

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Semester X
Master's in Economics

DISSERTATION ON MAJOR/MINOR

CREDIT DISTRIBUTION, ELIGIBILITY ,PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites of the course(if any)
		Lecture	Tutorial	Field work/ Practical/Practice		
DISSERTATION ON MAJOR/ MINOR	6	0	2	4	Passed Bachelor of Economics with Research	Nil

Master's in Economics		
Programme: Master's in Economics	Year5	Semester10 Paper IV
Subject: Economics		
Course Code: ECOAP1001	Course Title: Dissertation on Major/Minor	
Credits:6 Credits		Dissertation on Major/Minor (Compulsory)
Note: Dissertation will be based on Primary/Secondary data.		

The student will have to undergo a Dissertation on Major/Dissertation on Minor on any relevant socio-economic problem allotted by the concerned teacher and prepare a report of 60 to 100 pages, duly typed and binded (A4 size paper having in Hindi/English with 1.5-line gap).

