



National Education Policy-2020

**Common Minimum Syllabus for Uttarakhand State
Universities and Colleges**

PROPOSED ECONOMICS SYLLABUS

For

Bachelor with Research Program

2025

DEPARTMENT OF ECONOMICS

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	Economics	Kumaun University, Nainital
6	Dr. Jitendra K. Lohani	Assistant Professor	Economics	Kumaun University, Nainital
7	Dr. Daleep Kumar	Assistant Professor	Economics	Kumaun University, Nainital
8	Dr. Richa Ginwal	Assistant Professor	Economics	Kumaun University, Nainital
9	Dr. Preeti Chandra	Assistant Professor	Economics	Kumaun University, Nainital
10	Dr. Amit Melkani	Assistant Professor	Economics	Kumaun University, Nainital
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*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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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)		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
	Discipline B1- (4)							
	Discipline C1- (4)							
II	Discipline A 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
	Discipline B 2 (4)							
	Discipline C 2 (4)							
	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)	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	
	Discipline B 3 (4)							
	Discipline C 3 (4)							
IV	Discipline A 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	
	Discipline B 4 (4)							
	Discipline C 4 (4)							
	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)	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	
	Discipline B 5 (4)							
	Discipline C 5 (4)							
VI	Discipline A 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	
	Discipline B 6 (4)							
	Discipline C 6 (4)							
	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
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
	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

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 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.

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:		
<ul style="list-style-type: none">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: Theory 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), 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.
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, आहुजा उच्चतर आर्थिक सिद्धान्त, एस० चॉद, नई दिल्ली
12. एम० एल० झिंगन, उच्च आर्थिक सिद्धान्त, वृन्दा पब्लिकोन, 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">• 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: Sample size, 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. Statistical Analysis of Data: 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. पारस राय, अनुसंधान परिचय।
7. एच० के कपिल, अनुसंधान विधियां, एच०पी० भार्गव बुक हाऊस आगरा

Recommended /Additional Reading:

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. Economic Times, 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: <ul style="list-style-type: none">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

	<p>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.</p> <p>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.</p>	
III	<p>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.</p> <p>Integration: Elementary Integration. Difference Equations of First and Second Order. Simple Applications of Integral Calculus in Economics.</p>	15
IV	<p>Input-Output Analysis, Linear Programming & Game Theory</p> <p>Input-Output Analysis: Understanding Open and Closed Economic Systems, Analyzing Interdependencies Between Different Sectors.</p> <p>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.</p>	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.

Suggested online link :

[www.ignou](http://www.ignou.ac.in)

[www.swayam](http://www.swayam.in)

[www.inflibnet](http://www.inflibnet.org)

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: <ul style="list-style-type: none">• 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, Absentism 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, Piece 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
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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 Employment 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 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: <ul style="list-style-type: none">• 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
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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(c)
Subject : Economics			
Course Code: ECOGE703		Course Title : Indian Economy-I	
Course Outcomes: <ul style="list-style-type: none">• 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. रुद्र दत्त एवं के० एम० पी० सुन्दरम, भारतीय अर्थव्यवस्था, एस० चॉंद, 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: <ul style="list-style-type: none">• 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)	
<ul style="list-style-type: none">• 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 - <ul style="list-style-type: none">• 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
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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 चॉद, 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: <ul style="list-style-type: none">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
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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: <ul style="list-style-type: none">• 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. पारस राय, अनुसंधान परिचय।

Recommended /Additional Reading:

1. Paul Wright, Qualitative Research and Evaluation, Jones & Bartlett Learning
2. Tandon: Research Methodology in Social Sciences.
3. Yojna. Monthly Magazine.
4. Economic Times, Financial Express and other Newspapers.
5. Economic Magazines.
6. Reports of various agencies.
7. एच0 के कपिल, अनुसंधान विधियां, एच0पी0 भार्गव बुक हाऊस आगरा

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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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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 Adjus-tication. 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 Employment 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 संवर्धन।

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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: <ul style="list-style-type: none">• 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. एस० बी० गुप्ता, कृषि अर्थशास्त्र, एस० बी० पी० डी० 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: <ul style="list-style-type: none">• 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.	
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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 चॉद, 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:			
<ul style="list-style-type: none">• 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).