



National Education Policy-2020

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

PROPOSED ECONOMICS SYLLABUS

For

Three Year Undergraduate Programme

2025

DEPARTMENT OF ECONOMICS

SYLLABUS DRAFTING COMMITTEE

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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
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6	Dr. Jitendra K. Lohani	Assistant Professor	Economics	Kumaun University, Nainital
7	Dr. Daleep Kumar	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
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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

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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)							
	<i>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</i>							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)		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)		Choose one from a pool of courses (2)	22 Credits
	Discipline B 4 (4)							
	Discipline C 4 (4)							
	<i>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</i>							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)							
	<i>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</i>							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

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.

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 I
Subject : Economics			
Course Code : ECODSC101		Course Title : Basics of Microeconomics with Mathematical Techniques	
Course Outcomes: The course will help students to:			
<ul style="list-style-type: none">▪ 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.	
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, Pearson
5. Bose, D. An Introduction to Mathematical Economics. Himalaya Publishing House.
6. लोहनी, जीतेन्द्र कुमार एवं पदम् इस बिष्ट, अर्थशास्त्र में गणितीय एवं सांख्यिकीय विधियाँ, 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 अग्रवाल एवं प्रवीण जैन. अर्थशास्त्र की आधारभूत परिमाणात्मक विधियाँ, नवनीत प्रकाशन, आगरा.

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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: <ul style="list-style-type: none">• 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 चौद, 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 1	Semester 2 Paper I
Subject : Economics			
Course Code : ECODSC201		Course Title : Basics of Macroeconomics with Mathematical Techniques	
Course Outcomes: <ul style="list-style-type: none">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, समष्टि अर्थशास्त्र, वृन्दा पब्लिकोन, 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. 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 Indian Economy	4	3	1	0	Passed class XII	Nil

Undergraduate Certificate in Economics			
Programme :Undergraduate Certificate in Economics		Year 1	Semester 2 Paper II
Subject : Economics			
Course Code : ECOGE201		Course Title : Fundamentals of Indian Economy	
Course Outcomes : The course will help students to <ul style="list-style-type: none">• 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.		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. रूद्रदत्त एवं के० एम० पी० सुन्दरम, भारतीय अर्थव्यवस्था, एस० चॉद, 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 : <ul style="list-style-type: none">• 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, McGraw Hill, New York.
3. Singh, S. K., Public Finance in Theory and Practice, S. Chand, New Delhi.
4. India's Recent Budget Papers

Recommended/Additional Readings:

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, New Delhi.
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. एस0 के0 सिंह, लोकवित्त, साहित्य भवनआगरा।

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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:			
<ul style="list-style-type: none">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	
<i>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)</i>			
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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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.	
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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. : Macroeconomics: Theory and Policy.
4. टी.टी.सेठी, मुद्रा बैंकिंग एवं अन्तर्राष्ट्रीय व्यापार, लक्ष्मी नारायण अग्रवाल, आगरा
5. सिंघई, जी.सी. एवं जे. पी.मिश्रा, मुद्राबैंकिंग एवं अन्तर्राष्ट्रीय व्यापार, साहित्य भवन पब्लिकेशन, आगरा

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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: <ul style="list-style-type: none">• 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. Ricardo, 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">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
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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. एम0 एल0 झिंगन, 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: <ul style="list-style-type: none">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 : <ul style="list-style-type: none">• 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, Rajnish Pande: 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 & Distributors (P) Ltd., New Delhi.
4. लोहनी, जितेंद्र कुमार और पदम एस. बिष्ट: उत्तराखंड की अर्थव्यवस्था, कुनाल बुक्स, नई दिल्ली।

Recommended/Additional Readings:

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/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		Year 3	Semester 5 Paper IV
Subject : Economics			
Course Code: ECOP501		Course Title : Project/Field Survey	
Course Outcomes: <ul style="list-style-type: none">• 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 : 4 Credits		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 30 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 <ul style="list-style-type: none">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
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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 चॉंद, 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 <ul style="list-style-type: none">• 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
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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: <ul style="list-style-type: none">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-McMillan
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		Year 3	Semester 6 Paper IV
Subject : Economics			
Course Code: ECOP601		Course Title : Project/Field Survey	
Course Outcomes: <ul style="list-style-type: none">• 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 : 4 Credits		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 30 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.
3. कपिल, एच० के० अनुसंधान विधियाँ, (व्यवहारपरक विज्ञानों में)

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