

NATIONAL EDUCATION POLICY-2020

COMMON MINIMUM SYLLABUS FOR UNIVERSITY CAMPUS AND
ALL

AFFILIATED COLLEGES OF

SRI DEV SUMAN UTTARAKHAND UNIVERSITY



ECONOMICS SYLLABUS

FOR

SKILL ENHANCEMENT COURSES (SEC)

2025

DEPARTMENT OF ECONOMICS

PANDIT LALIT MOHAN SHARMA CAMPUS

RISHIKESH

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Semester I
Undergraduate Certificate in Economics

SKILL ENHANCEMENT COURSE (SEC) - Regional Economics and Urbanization in Uttarakhand

No. of Hours-30

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)
		Theory	Tutorial	Practical/Practice		
SEC: Regional Economics and Urbanization in Uttarakhand	2	2	0	0	Passed class XII	Nil

Undergraduate Certificate in Economics		
Programme : Undergraduate Certificate in Economics	Year I	Semester I Paper III
Subject: Economics		
Course Code : ECOSEC101	Course Title: Regional Economics and Urbanization in Uttarakhand	
Course Outcomes: The course will help to: <ul style="list-style-type: none"> • To understand the fundamental concepts and significance of regional economics and urbanization. • To analyze economic disparities and variations between plain and hill regions of Uttarakhand. • To examine the economic structure of Uttarakhand, including key sectors and industries. • To explore sustainability and environmental issues related to urbanization and regional development. 		
Credits : 2		Skill Enhancement Course
Unit	Topic	No. Of Lecture
I	Regional Economics and Urbanization Issues Concept, Scope, and Significance of Regional Economics. Fundamentals of Regional Economic Disparities. Economic Variations Across Plain and Hill Regions of Uttarakhand. Understanding Urban Locations: Definition, Growth, and Theories (Central Place Theory, Core-Periphery Theory, Location Theory). Migration Patterns. Sustainability and Environmental Issues (Congestion and Carrying Capacity, Land Use and Land Cover Change, Diversion of Forest Land for Tourism and Urbanization, Water Scarcity and Solid Waste Management)	10

II	Economic Landscape, Livelihood and Opportunities in Uttarakhand Sectoral Composition in Uttarakhand: Agriculture, Industry, and Services. Role of Key Industries in Uttarakhand: Tourism, Hydropower and Traditional Industries. Entrepreneurial landscape in Uttarakhand. Rural Economy and Agricultural Challenges in Uttarakhand. Cottage Industries and Local Entrepreneurship in Uttarakhand. Urbanisation and Economic growth in Uttarakhand. Understanding Demographic Trends in Uttarakhand.	11
III	The student will prepare a field visit report on any one of the topics: - Regional Economics, Urbanisation Issues, Economic Landscape, Livelihood and Opportunities in Uttarakhand as an assignment and will submit the report to the concerned teacher.	09

Essential Readings:


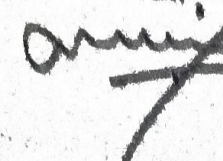
1. K. J. Burton: Urban Economics- Theory and Policy
2. Werner Hirsch: Urban Economy Analysis, Tata McGraw Hill, New Delhi
3. R.H. Dholakia: Regional Disparity in Economic Growth, Himalaya Publishing House
4. M.C. Chand and V.K. Puri: Regional Planning in India, S. Chand Publication
5. Dr. Kanchan Datta "Regional Economic Development" Abhijeet Publication
6. Lohani, Jitendra Kumar, Rajnish Pande, Sarika Verma; Economy of Uttarakhand; Indu Book Services New Delhi.
7. लोहनी, जतिंद्र कुमार और पदम एस. भिष्ट: उत्तराखण्ड की अर्थव्यवस्था, कुनाल बुक्स, नई दिल्ली।

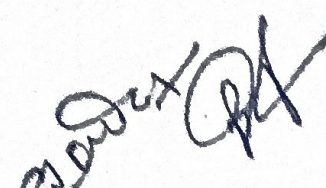
Recommended/Additional Reading:

1. Hoover, E.M. (1975): An Introduction to Regional Economics, Alfred A. Knopf, New York.
2. McKee, D.L. et. al. (eds.) (1970): Regional Economics, Theory and Practice, Free Press, New York.
3. Dean, R.D. et. al. (1970): Regional Economics, Theory, Free press, New York.
4. Bhadouria, B.P.S. (1986): Regional Economic Development: Theory and Policy, Anmol Publications, New Delhi.
5. 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.
6. 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.

Suggested online link:

- www.jgnou
- www.swayam
- www.inlibnet



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Semester II
Undergraduate Certificate in Economics

SKILL ENHANCEMENT COURSE (SEC) – Environmental Economics

No. of Hours-30

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)
		Theory	Tutorial	Practical/Practice		
SEC: Environmental Economics	2	2	0	0	Passed Class XII	Nil

Undergraduate Certificate in Economics		
Programme: Undergraduate Certificate in Economics	Year I	Semester II Paper III
Subject: Economics		
Course Code: ECOSEC201	Course Title: Environmental Economics	
Course Outcomes: The students will be able to		
1. Understand the fundamental concepts of environmental economics 2. Analyze the economic causes and consequences of environmental degradation in Uttarakhand. 3. Evaluate the effectiveness of different policy instruments for environmental protection in the state.		
Credits : 02	Skill Enhancement Course	
Unit	Topic	No. Of Lecture
I	Environmental Economics: Definition and Scope. Economy-Environment Inter-linkages, Ecosystem Services. Economic concepts relevant to environmental issues (opportunity cost, Externality: Pigovian tax, Coase theorem, public goods). Instruments of Environmental Regulation (Emission Tax, Emission Quota, Tradable Permits), Economic Growth & Sustainable Development, Economics of Biodiversity, Economics of Renewable Energy, Economics of Climate change	12
II	Sustainable development in Uttarakhand: Renewable Energy, Eco-tourism, Organic Farming. Climate Change Impact and Adaptation Strategies in Uttarakhand. Economic Benefits of Sustainable Development Practices in Uttarakhand Environmental Degradation in Uttarakhand: Deforestation, Soil erosion, Water Pollution. Economic Impact of Environmental	13

**Semester III
Undergraduate Diploma in Economics**

SKILL ENHANCEMENT COURSE (SEC) – Entrepreneurship Development Skills

No. of Hours-30

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)
		Theory	Tutorial	Practical/Practice		
SEC: Entrepreneurship Development Skills	2	2	0	0	Passed Undergraduate Certificate	Nil

Undergraduate Diploma in Economics		
Programme: Undergraduate Diploma in Economics		Year II Semester III Paper IV
Subject : Economics		
Course Code: ECOSEC301	Course Title: Entrepreneurship Development Skills	
Course Outcomes: <ul style="list-style-type: none"> Students will be able to gain comprehensive knowledge of entrepreneurship, enabling them to understand and engage effectively in entrepreneurial endeavors. Students will develop practical knowledge of entrepreneurial registration, government schemes, SHGs, and GI-tagged products, enabling them to explore business opportunities in the region. 		
Credits : 2 Credits		Skill Enhancement Course
Unit	Topics	No. Of Lecture
1	Entrepreneurship: Characteristics, functions, types. Types of Business Structure: Sole Proprietorship, Partnership, Limited Liability Partnership, Corporation, Non-Profit Organization, Self Help Groups, Cooperative and Franchise. Seven Resources: Money, Manpower, Materials, Machinery, Methods, Market, Mentorship, Entrepreneurship Planning: Family and Non-Family Entrepreneurs. Women Entrepreneurship.	15

II	Registration Process for entrepreneurs in Uttarakhand; Registration of MSMEs, District Industrial Centre (DIC), Uttarakhand Khadi and Village Industries Board, Schemes of Government in promoting entrepreneurship development in Uttarakhand, Entrepreneurship through Self Help Groups in Uttarakhand, Introduction to the Geographical Indication Tag (GI Tag) and GI Products of Uttarakhand.	10
III	The student will prepare a case study on a local entrepreneur as an assignment and submit it to the concerned teacher.	05

Essential Reading:

1. Director of Industries: A guide to small scale entrepreneurs.
2. Daumbuck C.M. and Manasco, R - Entrepreneurship and Venture Management.
3. Bhatia, R.C. Entrepreneurship Business and Management
4. Kathleen R Allen, Launching New Ventures, An Entrepreneurial Approach, Cengage Learning.
5. Anjan Raichaudhuri, Managing New Ventures Concepts and Cases, Prentice Hall International.
6. S. R. Bhowmik & M. Bhowmik, Entrepreneurship, New Age International.

Recommended/Additional Reading:

1. Steven Fisher, Ja-nae' Duane, The Startup Equation - A Visual Guidebook for Building Your Startup, Indian Edition, Mc Graw Hill Education India Pvt. Ltd.
2. Hynd Megginson, Small Business Management An Entrepreneur's Guidebook, 7th ed., McGrawHill
3. A Fayolle Entrepreneurship and new value creation, Cambridge, Cambridge University Press
4. S.S. Khanka, Entrepreneurial Development, S.Chand
5. Recent Budget of Uttarakhand
6. Recent Uttarakhand Statistical Diary

Suggested online links

www.iiitd.ac.in

www.iiitb.ac.in

www.iiitb.ac.in

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Semester IV

Undergraduate Diploma in Economics

SKILL ENHANCEMENT COURSE (SEC) - Fundamentals of Startups

No. of Hours - 30

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)
		Theory	Tutorial	Practical/Practice		
SEC: Fundamentals of Startups	3	2	0	0	Passed Undergraduate Certificate	Nil

Undergraduate Diploma in Economics		
Programme : Undergraduate Diploma in Economics	Year II	Semester IV
		Paper IV
Subject : Economics		
Course Code: ECOSEC401	Course Title: Fundamentals of Startups	
Course Outcomes:		
<ul style="list-style-type: none"> Students will be able to gain thorough knowledge of startups, with some case studies of successful startups in the Indian context. They will gain practical knowledge of Uttarakhand's startup policies, registration process, and government programs like UDYAM and SAKSHAM, enabling them to explore entrepreneurial opportunities. 		
Credits : 3 Credits	Skill Enhancement Course	
Unit	Topics	No. Of Lecture
I	Startups: Introduction, Definition, Types, Different forms of Startups, Procedure of Formation, Sources of Funds, Venture Capital Funding, Incubation: Concept, activities at incubation center, Failures and dealing with failures in startup.	15
II	Recent Uttarakhand Startup policy, Registration for startup in Uttarakhand, Startup portal in Uttarakhand, Pre-incubation Program UDYAM, Incubation Program SAKSHAM.	10
III	The student will prepare a case study on a local start-up as an assignment and submit the report to the concerned teacher.	05

Prof

Dr. Anil Kumar

Dr. Rishi

Dr.

Dr.

NATIONAL EDUCATION POLICY-2020

**COMMON MINIMUM SYLLABUS FOR UNIVERSITY CAMPUS AND
ALL**

**AFFILIATED COLLEGES OF
HRI DEV SUMAN UTTARAKHAND UNIVERSITY**



ECONOMICS SYLLABUS

FOR

**FOUR YEAR UNDERGRADUATE PROGRAMME (FYUP) AND
MASTER'S PROGRAMME**

2025

DEPARTMENT OF ECONOMICS

PANDIT LALIT MOHAN SHARMA CAMPUS

RISHIKESH

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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

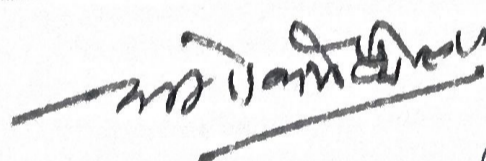
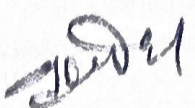
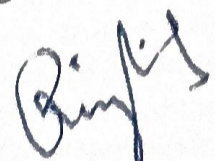
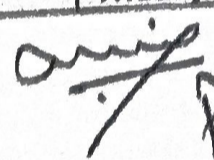
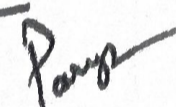








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	Demand, Giffen Goods and Inferior Goods. Concept of Elasticity of Demand & Consumer's Surplus. Economic Applications using Mathematics- Functional Relationship: Graphical Representation of Functions. Equation of Straight Lines: Understanding Application 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. DD Chaturvedi Ashok Kumar Maindola : Basic of Micro Economics ,Kitab Mahal
3. Agarwal, D.R., Elementary Mathematics and Statistics for Economists, Vrinda Publication Delhi
4. Nicholson, W. and Synder C., Basic Principles in Microeconomics, Cengage Learning
5. Pindyck, R and Rubinfeld D., Microeconomics, Pearson
6. Bose, D. An Introduction to Mathematical Economics. Himalaya Publishing House.
7. लोहनी, जीतेन्द्र कुमार एवं पदम् इस बिष्ट, अर्थशास्त्र में गणितीय एवं सांख्यिकीय विधिया, कुणाल बुक्स, नई दिल्ली

Recommended/Additional Readings:

1. Koutsoyiannis, A., Modern Microeconomics, Macmillan, London.
2. DD Chaturvedi Ashok Kumar Maindola : Basic of Micro Economics, Kitab Mahal
3. Roy Choudhary, K., Modern Micro Economics, Theory and Application, Vols. I, II & III, Dominant Publishers and Distributors, New Delhi.
4. लाल, एस. एन. एवं एस. के. के चतुर्वेदी अर्थिक विप्लेषण की तकनीक, शिव पब्लिशिंग हाउस इलाहाबाद।
5. गुप्ता, के एल, रविकांत अग्रवाल एवं प्रवीण जैन अर्थशास्त्र की आधारभूत परिमाणात्मक विधियां नवनीत प्रकाशन, आगरा

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Semester I

Undergraduate Certificate in Economics

Generic Elective (G.E.) - 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)
		Theory	Tutorial	Practical/Practice		
G.E. Fundamentals of Economics	4	3	1	0	Passed class XII	Nil

Undergraduate Certificate in Economics

Programme : Undergraduate Certificate in Economics

Year I

**Semester I
Paper II**

Subject : Economics

Course Code : ECOGE101

Course Title : Fundamentals of Economics

Course Outcomes : The course will help students to:

- Understand the fundamentals of Economics.
- Know about Micro & Macro Economics.
- Learn about the Banking system and Public Finance.

Credits : 4 Credits

Unit	Topics	Generic Elective	
			No. Of Lecture
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

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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)
		Theory	Tutorial	Practical/Practice		
DSC: Basics of Macroeconomics with Mathematical Techniques	4	3	1	0	Passed class XII	Nil

Undergraduate Certificate in Economics		
Programme : Undergraduate Certificate in Economics		Year I Semester II 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 Lecture
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. DD Chaturvedi Ashok Kumar Maindola : Basic of Macro Economics, Kitab Mahal
3. Vaish, M.C., Macroeconomic Theory, Vikas, 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. Keynes, J.M. General Theory of Employment Money and Interest.
7. Frisch, H., Theories of Inflation, Cambridge University Press.
8. Rakshit, M., Studies in the Macroeconomics of Developing Countries, OUP, New Delhi.
9. Rana K.C. and K.N. Verma, Macro Economic Analysis, Vishal Publishing Co., Jalandhar.
10. एमएल ड्रिंगन समष्टि अर्थशास्त्र वृदा प्रकाशन नई दिल्ली
11. लाल, एस. एन. एवं एस. के. के चतुर्वेदी अर्थिक विप्लेषण 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)
		Theory	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 I

Semester II
Paper II

Subject : Economics

Course Code : ECOGE201

Course Title : Fundamentals of Indian Economy

Course Outcomes : The course will help students to

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

Credits : 4 Credits

Unit	Topics	Generic Elective	No. Of Lecture
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

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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)
		Theory	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 II	Semester III Paper I
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 Lecture
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

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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)
		Theory	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 II

Semester III
Paper II

Subject: Economics

Course Code: ECODSE301

Course Title: Basic Mathematical and Statistical Techniques in Economics

Course Outcomes: The course will help students to:

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

Credits: 4 Credits

Discipline Specific Elective

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

Unit	Topics	No. Of Lecture
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

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	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 पद्म 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)
		Theory	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 II	Semester III 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 Lecture
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

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Paper III

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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)
		Theory	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 II	Semester IV 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 Lecture
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

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Page 29

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	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. Sundharam: 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. Pushpanjali Arya: Evolution of Money and Monetary system, JTS Publication
2. DD Chaturvedi Ashok Kumar Maindola Riyaj Ali Girisg Garg: Money, Banking and International Trade, kitab Mahal
3. Recent Report on Finance
4. RBI Bulletin
5. Ackley, G. : Macroeconomics: Theory and Policy.
6. टी टी सेठी मुद्रा बैंकिंग एवं अंतरराष्ट्रीय व्यापार लक्ष्मी नारायण अग्रवाल आगरा
7. 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)
		Theory	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 II	Semester IV 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 Lecture
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

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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)
		Theory	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 II	Semester IV 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 Lecture
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

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Unit	Topics	No. Of Lecture
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

CE	Course Title	Credits	Theory	Tutorial	Practical/Practice	Passes	Undergraduate Diploma in Economics
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CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Semester V
Bachelor of Economics
Generic Elective (GE) - Fundamentals of Economy of Uttarakhand
 No. of Hours-60

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)
		Theory	Tutorial	Practical/Practice		
Project/Field Survey	4	1	0	3	Passed Undergraduate Diploma in Economics	Nil

Bachelor of Economics

Programme : Bachelor of Economics

Year III

Semester V
Paper IV

Subject : Economics

Course Code: ECOP501

Course Title : Project/Field Survey

Course Outcomes:

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

Credits : 4 Credits

Project

Unit	Topics	No. Of Lecture
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

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Semester VI

Bachelor of Economics

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

No. of Semesters: 4

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisites
		Theory	Tutorial	Practical/Project		
DSC: Structure & Problems of Indian Economy	4	3	1	0	Basic Understanding of Economics	

Bachelor of Economics

Programme: Bachelor of Economics

Year III

Semester VI

Paper I

Course Code: ECODSC601

Subject: Economics

Course Title: Structure & Problems of Indian Economy

Course Outcomes: The course will help the students to

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

Credits :4 Credits

Unit	Topics	Discipline Specific Course
I	Indian Economy: Nature, Structure and Features. Natural Resources Land, Water, Forest, Minerals and Environment.	
II	Demographic Profile of Indian Economy: Population Characteristics and Unemployment in India: Causes, Types and Remedial measures. Concept and types.	
III	Agricultural structure in India	

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)
		Theory	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 III	Semester VI 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 Lecture
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

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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, Schum'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

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)
		Theory	Tutorial	Practical/Practice		
Project/Field Survey	4	1	0	3	Passed Undergraduate Diploma in Economics	Nil

Bachelor of Economics		
Programme : Bachelor of Economics	Year III	Semester VI 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		
Unit	Topics	Project
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).	No. Of Lecture 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

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