

National Education Policy-2020

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

ECONOMICS SYLLABUS

For

Four Year Bachelor's with Research Programme

2025-26 onwards

DEPARTMENT OF ECONOMICS

SYLLABUS DRAFTING COMMITTEE

| S.N. | NAME | DESIGNATION | DEPARTMENT | AFFILIATION |
|------|---|------------------------|------------|--|
| 1 | Dr. Padam S. Bisht* (Head and Convenor) | Professor | Economics | Kumaun University, Nainital |
| 2 | Dr. Rajnish Pande** (Head and Convenor) | Professor | Economics | Kumaun University, Nainital |
| 3 | Dr. H.C. Joshi (Head and Convenor) | Professor | Economics | S.S.J.University, Almora |
| 4 | Dr. Pushpanjali Arya (Head and Convenor) | Professor | Economics | Sri Dev Suman University, Rishikesh |
| 5 | Dr. Nandan S. Bisht | Assistant Professor | Economics | Kumaun University, Nainital |
| 6 | Dr. Jitendra K. Lohani | Assistant Professor | Economics | Kumaun University, Nainital |
| 7 | Dr. Daleep Kumar | Assistant Professor | Economics | Kumaun University, Nainital |
| 8 | Dr. Richa Ginwal | Assistant Professor | Economics | Kumaun University, Nainital |
| 9 | Dr. Preeti Chandra | Assistant Professor | Economics | Kumaun University, Nainital |
| 10 | Dr. Amit Melkani | Assistant Professor | Economics | Kumaun University, Nainital |
| 11 | Dr. Ramesh | Assistant Professor | Economics | Kumaun University, Nainital |

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

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

SYLLABUS REVIEW COMMITTEE

EXTERNAL EXPERT

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

INTERNAL EXPERT

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

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

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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) | 22 credits |
| | Discipline B 3 (4) | | | | | | | |
| | Discipline C 3 (4) | | | | | | | |
| IV | Discipline A 4 (4) | Choose from pool of courses, DSE A/B/C (4) OR Choose from pool of courses GE - 4 (4) | | Choose one from a pool of AEC courses (2) | Choose one SEC (2) | | Choose one from a pool of courses (2) | 22 Credits |
| | Discipline B 4 (4) | | | | | | | |
| | Discipline C 4 (4) | | | | | | | |
| <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 |

| Bachelor of Economics with Research | | | | | |
|--|------|------------------|---|------------------|---|
| FOURTH YEAR | VII | DSC | Advanced Microeconomics- I | Theory | 4 |
| | | DSE 1 | Advanced Public Finance-I | Theory | 4 |
| | | DSE 2 | Research Methodology-I | Theory | 4 |
| | | DSE 3 | Mathematical Economics | Theory | 4 |
| | | DSE 4 | Labour Economics-I | Theory | 4 |
| | | DSE 5 | Agriculture Economics-I | Theory | 4 |
| | | DSE 6 | Indian Economy –I | Theory | 4 |
| | | DSE 7 | Cultural Economics –I | Theory | 4 |
| | | GE 1 | Regional Economics | Theory | 4 |
| | | GE 2 | Rural Economics | Theory | 4 |
| | | Academic Project | Academic Project | Academic Project | 6 |
| | VIII | DSC | Advanced Macroeconomics- I | Theory | 4 |
| | | DSE 1 | Advanced Public Finance-II | Theory | 4 |
| | | DSE 2 | Research Methodology-II | Theory | 4 |
| | | DSE 3 | Advanced Statistics | Theory | 4 |
| | | DSE 4 | Labour Economics-II | Theory | 4 |
| | | DSE 5 | Agriculture Economics-II | Theory | 4 |
| | | DSE 6 | Indian Economy –II | Theory | 4 |
| | | DSE 7 | Cultural Economics –II | Theory | 4 |
| | | GE 1 | Economy of Uttarakhand | Theory | 4 |
| | | GE 2 | Economic Systems | Theory | 4 |
| | | DISSERTATION | Dissertation on Major/Dissertation on Minor | Practical | 6 |

Abbreviations-

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

Mode of Evaluation-

Internal evaluation will be based on Assignment + Presentation

COURSE INTRODUCTION

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

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

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

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

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

| Programme Specific Outcomes (PSOs): UG IV Year Bachelor of Economics with Research | |
|---|--|
| PSO1 | To understand the Advanced concepts of Microeconomics. |
| PSO2 | To understand the Advanced concepts of Macroeconomics. |
| PSO3 | To understand the Advanced concepts of Public Finance. |
| PSO4 | To understand the concepts of Research Methodology. |
| PSO5 | To understand the concepts of Mathematical Economics. |
| PSO6 | To understand the Advanced concepts of Labour Economics. |
| PSO7 | To understand the Advanced concepts of Agricultural Economics. |
| PSO8 | To understand the Advanced concepts of Indian Economy. |
| PSO9 | To understand the concepts of Cultural Economics. |
| PSO10 | To understand the Advanced concept of Statistics. |
| PSO11 | To understand the concepts of Regional Economics. |
| PSO12 | To understand the concepts of Rural Economics. |
| PSO13 | To understand the concepts of Economy of Uttarakhand. |
| PSO14 | To understand the concepts of Economic Systems. |

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 | |
| <p>Course Outcomes: The course will help students to:</p> <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 विधियां, कुणाल बुक्स, नई दिल्ली

Recommended/Additional Readings:

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

Suggested online link:

www.ignou

www.swayam

www.inflibnet

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. एस0 के0 सिंह, लोक वित्त, साहित्य भवनआगरा।
7. एम0 एल0 झिंगन, उच्च आर्थिक सिद्धान्त, वृन्दा पब्लिकेशन, नई दिल्ली।
8. एच0 एल0आहूजा,, उच्चतर आर्थिक सिद्धान्त, एस0 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, समष्ट अर्थास्त्र, 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. एस० के० 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. | |
|--|---|--|

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 |

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|-----------|--|----|
| 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 | |
| <p>Course Outcomes: The course will help students to:</p> <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 औरपदम 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 |

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| 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 चॉद, 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 |

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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, 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-McMilan
3. Venkateswaran, S.: Environment, Development and the Gender Gap, Sage Publications, New Delhi.
4. Boserup, E.: Women’s Role in Economic Development, George Allen and Unwin, London.
5. Desai, N. and M.K. Raj (eds): Women and Society in India, Research Centre for Women Studies, SNDT University, Bombay.

Recommended /Additional Reading:

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

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Semester VI
Bachelor of Economics

Project/Field Survey

No. of Hours-105

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

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

| Bachelor of Economics | | | |
|---|--|--------------|------------------------|
| Programme : Bachelor of Economics | | 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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BACHELOR OF ECONOMICS WITH RESEARCH

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|------------------------|-------------|------------------|---|-----------|---|
| FOURTH YEAR | VII | DSC | Advanced Microeconomics- I | Theory | 4 |
| | | DSE 1 | Advanced Public Finance-I | Theory | 4 |
| | | DSE 2 | Research Methodology-I | Theory | 4 |
| | | DSE 3 | Mathematical Economics | Theory | 4 |
| | | DSE 4 | Labour Economics-I | Theory | 4 |
| | | DSE 5 | Agriculture Economics-I | Theory | 4 |
| | | DSE 6 | Indian Economy –I | Theory | 4 |
| | | DSE 7 | Cultural Economics –I | Theory | 4 |
| | | GE 1 | Regional Economics | Theory | 4 |
| | | GE 2 | Rural Economics | Theory | 4 |
| | | Academic Project | Academic Project | Practical | 6 |
| | VIII | DSC | Advanced Macroeconomics- I | Theory | 4 |
| | | DSE 1 | Advanced Public Finance-II | Theory | 4 |
| | | DSE 2 | Research Methodology-II | Theory | 4 |
| | | DSE 3 | Advanced Statistics | Theory | 4 |
| | | DSE 4 | Labour Economics-II | Theory | 4 |
| | | DSE 5 | Agriculture Economics-II | Theory | 4 |
| | | DSE 6 | Indian Economy –II | Theory | 4 |
| | | DSE 7 | Cultural Economics –II | Theory | 4 |
| | | GE 1 | Economy of Uttarakhand | Theory | 4 |
| | | GE 2 | Economic Systems | Theory | 4 |
| | | DISSERTATION | Dissertation on Major/Dissertation on Minor | Practical | 6 |

Semester VII

Bachelor of Economics with Research

DISCIPLINE SPECIFIC COURSE (DSC)- Advanced Microeconomics-I

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

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

| Bachelor of Economics with Research | | |
|--|---|-----------------------------------|
| Programme : Bachelor of Economics with Research | Year 4 | Semester 7 Paper I |
| Subject : Economics | | |
| Course Code: ECODSC701 | Course Title : Advanced Microeconomics-I | |
| Course Outcomes: The course will help students to: <ul style="list-style-type: none"> Students will be able to analyze consumer choices using utility theory and indifference curve analysis, and evaluate demand elasticity and consumer surplus. Students will understand production functions, optimal factor combinations, and the impact of technological advancements on production efficiency. Students will be able to derive cost curves from production functions and analyze cost behavior, economies of scale, and their implications for business decisions. Students will evaluate market dynamics under perfect competition, including demand and supply interactions, market equilibrium, and the effects of taxes and price controls | | |
| Credits :4 Credits | | Discipline Specific Course |
| Unit | Topics | No. of Hours |
| I | Introduction to Consumer Behavior: Choice & Preference of Consumer, Axioms of Rational Choice. Utility Theory: Ordinal Utility analysis, Indifference curves, Budget Constraints and their properties, Marginal Rate of Substitutions, Utility Maximization and Consumer Equilibrium. Demand Analysis: Theory of Demand, Elasticity of Demand, Concepts, Measurements. Comparative Statics- Engel Curve. Price, Substitution and Income Effects, Hicks and Slutsky Decomposition; For normal goods, Inferior goods and Giffen Goods; | 16 |

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

Essential Reading:

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

Recommended /Additional Reading:

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

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Semester VII

Bachelor of Economics with Research

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

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

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

| Bachelor of Economics with Research | | |
|--|--|-------------------------------------|
| Programme : Bachelor of Economics with Research | Year 4 | Semester 7 Paper II (a) |
| Subject : Economics | | |
| Course Code: ECODSE701 | Course Title : Advanced Public Finance-I | |
| Course Outcomes: The course will help students to: <ul style="list-style-type: none"> • Understand and analyze the impact of public finance on allocation of resources and the distribution of income. • Learn about public expenditure, taxation and debt issues in the economy. | | |
| Credits : 4 Credits | | Discipline Specific Elective |
| Unit | Topics | No. of Hours |
| I | Meaning, Scope & Importance of Public finance. The Principle of Maximum Social Advantage, View of Mrs. Hicks: Production Optimum, Utility Optimum, Major Fiscal Functions, Public goods, Private goods & Merit goods and Externalities. Coase Theorem Functional and Activating finance. | 15 |
| II | Public Expenditure: Wagner's law of Increasing State Activities; Wiseman- Peacock's Hypothesis; Principles of public expenditure, Reasons for increasing in Public Expenditure. Evaluation of Public Expenditure. | 12 |
| III | Public Revenue: Structure and Finance. Principles of Taxation. Incidence, Impact and Shifting of Taxation. Effects of a Taxation. Direct Vs Indirect Taxes, GST: CGST, SGST, IGST. Tax Evasion, Tax Avoidance and Corruption. Incidence under Perfect Competition and | 18 |

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

Essential Reading:

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

Recommended /Additional Reading:

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

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Semester VII

Bachelor of Economics with Research

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Research Methodology-I

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

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

| Bachelor of Economics with Research | | |
|---|---|-------------------------------------|
| Programme : Bachelor of Economics with Research | Year 4 | Semester 7 Paper II (b) |
| Subject : Economics | | |
| Course Code: ECODSEM702 | Course Title : Research Methodology-I | |
| Course Outcomes: The course will help students to: <ul style="list-style-type: none"> Learn research methodology in the social sciences and its implications. Learn data collection, data analysis and statistical hypothesis testing. | | |
| Credits : 4 Credits | | Discipline Specific Elective |
| Unit | Topics | No. of Hours |
| I | Research: Meaning, Objectives, Types, Need and Significance. Research Methods Vs Research Methodology. Preparation of a Research Proposal. Formulation of a Research Design. Framing of Objectives and Hypotheses. Review of Literature. Methods of Research Proposal. | 15 |
| II | Research Hypothesis: Definition, Characteristics, Sources and Importance. Problems in formulating Hypothesis, Statistical Hypotheses - Simple and Composite, Null Vs Alternative Hypotheses, prerequisites for testing of Hypotheses, Testing of Hypotheses, Goodness of Fit, Types of errors in testing of Hypotheses and Level of Significance. | 15 |

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

Essential Reading:

1. Cauvery, R., et.al., Research Methodology, S. Chand, New Delhi.
2. Sharma, Manoj, Research Methodology, Anmol Publications, New Delhi, 2004.
3. R.N. Trivedi & D.P. Shukla : Research Methodology (in Hindi).
4. Kothari, C.R.: Research Methodology.
5. Tandon : Research Methodology in Social Sciences.
6. पारस राय, अनुसंधान परिचय।
7. एच० के कपिल, अनुसंधान विधियां, एच०पी० भार्गव बुक हाऊस आगरा

Recommended /Additional Reading:

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

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Semester VII

Bachelor of Economics with Research

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Mathematical Economics

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

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

| Bachelor of Economics with Research | | |
|---|--|-------------------------------------|
| Programme : Bachelor of Economics with Research | Year 4 | Semester 7 Paper II (c) |
| Subject : Economics | | |
| Course Code: ECODSE703 | Course Title : Mathematical Economics | |
| Course Outcomes: The course will help students to: <ul style="list-style-type: none"> • Analyze and apply key economic functions and their implications. • Perform matrix operations and solve linear equations using determinants. • Apply differentiation and integration to optimize economic models. • Utilize input-output analysis, linear programming, and game theory in economic decision-making. | | |
| Credits : 4 Credits | | Discipline Specific Elective |
| Unit | Topics | No. of Hours |
| I | Functions in Economic Analysis Types of Functions: Overview of Different Types of Functions, Introduction to Economic Functions: Revenue, Cost, Demand, and Supply Functions. Convex and Concave Functions: Characteristics of Convex and Concave Functions, Implications for Economic Models. Multivariable Functions: Introduction to Multivariable Functions. Types of Production Functions: Homogeneous and Homothetic Functions | 15 |
| II | Linear Algebra, Matrix and Determinants Introduction to Linear Algebra: Key Concepts and Terminology in Linear Algebra. Matrix Operations: Addition, Subtraction, and Scalar Multiplication & Multiplication of Matrix. Properties in Matrix Operations: Commutative, Associative, and Distributive laws. Types of | 15 |

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

Essential Reading:

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

Recommended / Additional Reading:

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

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

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Semester VII

Bachelor of Economics with Research

DISCIPLINE SPECIFIC ELECTIVE(DSE)- Labour Economics-I

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

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

| Bachelor of Economics with Research | | |
|---|---|-------------------------------------|
| Programme :Bachelor of Economics with Research | Year 4 | Semester 7 Paper II (d) |
| Subject : Economics | | |
| Course Code: ECODSE704 | Course Title : Labour Economics-I | |
| Course Outcomes: | | |
| <ul style="list-style-type: none"> The students will learn the importance of labour economics. The students will get familiar with the concepts of industrial labour, recruitment and employment. The students will learn about unemployment, wages and labour policy. | | |
| Credits : 4 Credits | | Discipline Specific Elective |
| Unit | Topics | No. of Hours |
| I | Nature and Characteristics of Labour Markets in a Developing Economy. Characteristics of Indian Labour Market. Demand for Labour, Supply of Labour, Growth of Labour Force, Migratory Character, Absentism and Labour Turnover. | 15 |
| II | Recruitment of Industrial Worker, Employment Exchange, National employment Service in India, Types of Recruitment, Rural Agricultural Labour in India and Labour Productivity. | 12 |
| III | Unemployment: Causes, Types and Remedies. Trend of Unemployment in India, Rationalisation, Analysis of Youth and Educated Unemployment and Employment Programmes in India. | 15 |

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

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

Recommended /Additional Reading:

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

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Semester VII

Bachelor of Economics with Research

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Agriculture Economics-I

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

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

| Bachelor of Economics with Research | | |
|--|--|-------------------------------------|
| Programme : Bachelor of Economics with Research | Year 4 | Semester 7 Paper II (e) |
| Subject : Economics | | |
| Course Code: ECODSE705 | Course Title : Agriculture Economics-I | |
| Course Outcomes: | | |
| <ul style="list-style-type: none"> • The students will learn about meaning of agriculture economics, types of agriculture and agriculture finance. • The students will learn about technology in agriculture and land utilization. | | |
| Credits : 4 Credits | | Discipline Specific Elective |
| Unit | Topics | No. of Hours |
| I | Agriculture Economics: Meaning, Characteristics, Nature, Scope and Importance. Role of Agriculture in Economic Development. Interrelationship between Agriculture and Industry. Agro-based Industries. Diversification of Agriculture. | 13 |
| II | Agriculture and Allied Activities: Livestock Resources, Fishery and Poultry Development, Forestry, Horticulture and Floriculture, Green Revolution, White Revolution and Blue Revolution. | 13 |
| III | Land Reforms: Meaning and Objectives. Land Tenure and Farming Systems: Peasant, Capitalist, Collective and State Farming. Tenancy and Crop Sharing– Forms, Incidence and Effects. Farms: Meaning, Types and Factors determining size of farms. | 20 |

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

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

Recommended /Additional Reading:

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

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Semester VII

Bachelor of Economics with Research

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Indian Economy-I

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

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

| Bachelor of Economics with Research | | |
|---|---|-------------------------------------|
| Programme : Bachelor of Economics with Research | Year 4 | Semester 7 Paper II (f) |
| Subject : Economics | | |
| Course Code: ECODSE706 | Course Title : Indian Economy-I | |
| Course Outcomes: | | |
| <ul style="list-style-type: none"> The students will learn about the Indian Economy and its salient features. The students will learn about population, employment and regional imbalances. | | |
| Credits : 4 Credits | | Discipline Specific Elective |
| Unit | Topics | No. of Hours |
| I | Overview of Indian Economy: Characteristics of Under Development Economics, Developed Vs Under Developed Economies, Economic Growth and Development: Concept and Factors. Human Development Index and Multidimensional Poverty Index. | 17 |
| II | Population Growth and Economic Development: Size, Growth, Demographic Profile of India and Rural-Urban Migration. Recent Population Policy. Indicators of Human Resource Development. | 17 |
| III | Employment and Unemployment in India: Trends, Structure, Nature and Estimates of Unemployment. National Employment Policy. Problem of Resource Imbalance in India: Regional Imbalances, Infrastructure and Economic Development. Social Infrastructure: | 12 |

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

Essential Reading:

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

Recommended /Additional Reading:

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

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Semester VII

Bachelor of Economics with Research

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Cultural Economics-I

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

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

| Bachelor of Economics with Research | | | |
|--|--|-------------------------------------|---------------------------|
| Programme :Bachelor of Economics with Research | | Year 4 | Semester 7 Paper II(g) |
| Subject : Economics | | | |
| Course Code: ECODSE707 | | Course Title : Cultural Economics-I | |
| Course Outcomes: The course will help students to: <ul style="list-style-type: none"> Understand the theoretical foundations of Cultural Economics, including cultural value and economic frameworks. Analyze the roles of creative industries, cultural goods, and government policy in economic contexts. Apply economic principles to understand international cultural trade, marketing, and management. | | | |
| Credits : 4 Credits | | Discipline Specific Elective | |
| Unit | Topics | | No. of Hours |
| I | Cultural Economics: Definition, Scope and Evolution of Cultural Economics: Origins and Development of Cultural Economics as a Discipline, Concept of Value-Economic vs. Cultural Value. Creativity in Culture: Nature, Features, and Economic Implications, Creative Industries- Concept, Scope, and Significance. | | 15 |

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

Essential Reading:

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

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Semester VII

Bachelor of Economics with Research

GENERIC ELECTIVE (GE)- Regional 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: Regional Economics | 4 | 3 | 1 | 0 | Passed Bachelor of Economics | Nil |

| Bachelor of Economics with Research | | |
|--|---|-------------------------------------|
| Programme :Bachelor of Economics with Research | Year 4 | Semester 7 Paper III (a) |
| Subject : Economics | | |
| Course Code: ECOGE701 | Course Title : Regional Economics | |
| Course Outcomes: | | |
| <ul style="list-style-type: none"> The students will come to know about regional economics and their theories. The students will be able to analyze the regional problems of growth and development. | | |
| Credits : 4 Credits | | Generic Elective |
| Unit | Topics | No. of Hours |
| I | Regional Economics: Concept, Definition, Scope and Importance. Types of Regions. Indicators of Regional Development. Approaches to Regionalization and Globalization. | 15 |
| II | Regional Development Theories and Growth Models-The Economic Base Theory, Industrial Structure and Sector/Stage Theory. Cumulative Causation Models. | 15 |
| III | Regional Economic Policy and Problems: Regional Development Policy & Objectives. Strategies and Issues. Priorities and Programmes for Balanced Regional Development- Channelization Approach Towards Backward Region. | 15 |

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| IV | Economic Development and Regional Disparities, Indicators of Regional Disparities, Backwardness and Regional Imbalances with special Reference to Uttarakhand. Various Social Welfare and Employment Generation Programs in Uttarakhand. | 15 |
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Essential Reading:

1. Hoover, E.M. (1975) : An Introduction to Regional Economics, Alfred A. Knopf, New York.
2. Richardson, H.W. (1969) : Elements of Regional Economics, Penguin, Harmondsworth.
3. Mckee, D.L. et. al. (eds.) (1970) : Regional Economics, Theory and Practice, Free Press, New York.
4. Misra, R.P. et. al. (1978) : Regional development Planning in India, Vikas Publishing House, New Delhi.
5. Lohani, Jitendra Kumar & Prof. Padam S. Bisht; Uttarakhand Ki Arthvyavastha; Kunal Books, New Delhi [**Hindi**].
6. LohaniJitendra Kumar, Prof. Rajnish Pande & SarikaVerma; Economy of Uttarakhand; Indu Book Services, New Delhi [**English**].

Recommended /Additional Reading:

1. Dean, R.D. et. al. (1970) : Regional Economics, Theory, Free press, New York.
2. Isard, W. and J.H. Cumverland (eds.) (1960) : Regional Economic Planning, OECD, Paris.
3. Siebert, H. (1969) : Regional Economic Growth : Theory and Policy, International Textbook Company, Sorcenton.
4. Bhadouria, B.P.S. (1986) : Regional Economic Development : Theory and Policy, Anmol Publications, New Delhi.
5. Friedman, J. and Walonso (eds.)(1975) : Regional Development Planning - A reader, MIT Press, Cambridge, Mass.
6. Nair, K.R.G. (1986) : Regional Disparities in India, Agricole Publishing Academy, New Delhi

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Semester VII

Bachelor of Economics with Research

GENERIC ELECTIVE (GE)- Rural 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: Rural Economics | 4 | 3 | 1 | 0 | Passed Bachelor of Economics | Nil |

| Bachelor of Economics with Research | | |
|--|---|-------------------------------------|
| Programme :Bachelor of Economics with Research | Year 4 | Semester 7 Paper III (b) |
| Subject : Economics | | |
| Course Code: ECOGE702 | Course Title : Rural Economics | |
| Course Outcomes: | | |
| <ul style="list-style-type: none"> The students will be able to understand the concepts of rural economics, rural development and agriculture and will be able to understand the issues prevailing in rural areas. The students will be able to understand the rural local self-governance namely Panchayat Raj Institution and its role in planning and development of rural areas. | | |
| Credits : 4 Credits | | Generic Elective |
| Unit | Topics | No. of Hours |
| I | Rural Economics and Rural Development- Meaning, Scope and Importance. Difference between Rural Economics and Rural Development. Characteristics of Rural Economy. | 15 |
| II | Rural Poverty- Nature, trend, Causes and Consequences. Poverty Alleviation. Rural Unemployment- Types, Factors affecting Unemployment. Rural Indebtedness- Meaning and Causes. Rural finance- Formal and Informal sector. | 17 |
| III | Agriculture and Industries in rural areas, Rural Non-farm sector, Rural Entrepreneurship, Rural Tourism and Sustainable Rural Economy. | 14 |

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| IV | Decentralization and Community Participation- Panchayati Raj Institutions. Rural Infrastructure. Rural Development in India and Uttarakhand. Rural Development Programmes of Centre and State-Deen Dayal Upadhyaya Grameen Kaushalya Yojana and Mukhyamantri Swarozgar Yojana. | 14 |
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Essential Reading:

1. T.S. Sundaram: Anti-poverty Rural Development in India.
2. Laxman and Mauryan: Rural Development in India.
3. A.K. Dende: Studies in Rural Development.
4. Brahmananda: Dimensions of Rural Development in India.
5. Satyasundaram: Rural Development, Himalayan Publishing House, New Delhi.
6. Katar Singh: Rural Development, Principles, Policies and Management, Sage Publication, New Delhi.
7. Venkata Reddy k: Rural Development in India, Poverty and Development, Himalayan Publishing House, New Delhi.
8. Laxmidevi: Planning for employment and rural development, Anmol Publications Pvt. Ltd., New Delhi.

Recommended /Additional Reading:

1. B.S. Khanna: Rural Development in South Asia, Deep and Deep Pub. New, Delhi.
2. M.C. Chand and V.K. Puri: Regional Planning in India, S. Chand Publication.
3. R.H. Dholakia: Regional Disparity in Economic Growth, Himalaya Publishing House.
4. Sheo Kumar Lal and UmedRajnahar : Rural Social Transformation.
5. C. T. Kurian: Community Development and Panchayat Raj in India.

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Semester VII

Bachelor of Economics with Research

ACADEMIC PROJECT

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

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

| Bachelor of Economics with Research | | |
|---|----------------------------------|------------------------|
| Programme : Bachelor of Economics with Research | Year 4 | Semester 7 Paper IV |
| Subject : Economics | | |
| Course Code: ECOAP701 | Course Title: Academic Project | |
| Credits :6 Credits | Academic Project (Compulsory) | |
| <ul style="list-style-type: none">The student will choose a relevant and contemporary topic related to Economics.The topic should be specific enough to allow thorough study within the given timeframe. | | |

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

Semester VIII

Bachelor of Economics with Research

DISCIPLINE SPECIFIC COURSE (DSC)- Advanced Macroeconomics-I

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

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

| Bachelor of Economics with Research | | |
|---|---|-----------------------------------|
| Programme : Bachelor of Economics with Research | Year 4 | Semester 8 Paper I |
| Subject : Economics | | |
| Course Code: ECODSC801 | Course Title: Advanced Macroeconomics-I | |
| Course Outcomes: The students will learn about- <ul style="list-style-type: none"> National Income and its measurement. Theories of output and employment and consumption function. Investment multiplier and acceleration principle. | | |
| Credits :4 Credits | | Discipline Specific Course |
| Unit | Topics | No. of Hours |
| I | National Income and Related Concepts. Circular flow of Income. Measurement of National Income. Problems in the Measurement of National Income. | 15 |
| II | Types of Macroeconomics, Say's Law of Market, Determination of the level of Output and Employment, Classical and Keynesian Economics. | 15 |
| III | Post-Keynesian Approaches, Theory of Output and Employment. Consumption Function, Saving Function and Investment Function - Keynesian approach. Keynesian Psychological Law of Consumption. Kalecki Approach, Theories of Consumption Function: Absolute Income Hypothesis, Relative Income Hypothesis, Permanent Income Hypothesis & Life Cycle Hypothesis. Paradox of Thrift. | 18 |

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

1. Vaish, M.C., Macroeconomic Theory, Vikas, New Delhi.
2. Romer, D.L., Advanced Macroeconomics, Mc Graw Hill, New York.
3. O. Blanchard and D.R. Johnson, Macroeconomics, Pearson.
4. Ackley, G., Macroeconomics: Theory and Policy, Macmillan, New York
5. Dornbusch, R. and F. Stanley, Macroeconomics, Mc Graw Hill, New York.
6. Rana K.C. and K.N. Verma, Macro Economic Analysis, Vishal Publishing Co. Jalandhar.
7. एम० एल० झिंगन, समष्टि अर्थशास्त्र, वृन्दा पब्लिकेशन, नई दिल्ली।
8. एच० एल० आहूजा, उच्चतर समष्टि अर्थशास्त्र, एस० चॉद, नई दिल्ली।

Recommended /Additional Reading:

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

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Semester VIII

Bachelor of Economics with Research

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

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

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

| Bachelor of Economics with Research | | |
|--|--|-------------------------------------|
| Programme : Bachelor of Economics with Research | Year 4 | Semester 8 Paper II (a) |
| Subject : Economics | | |
| Course Code: ECODSE801 | Course Title : Advanced Public Finance-II | |
| Course Outcomes: The course will help students to: <ul style="list-style-type: none"> • Understand fiscal policy, fiscal federalism, budget preparation and deficit financing. • Understand the Indian tax structure. | | |
| Credits : 4 Credits | | Discipline Specific Elective |
| Unit | Topics | No. of Hours |
| I | Fiscal Policy: Meaning and Objectives in a Developing Economy. Full Employment and Fiscal policy. Fiscal Federalism: Basic principles. Fiscal Federalism in India: Constitutional division of Income, Constitutional Provision for Finance Commissions, Division of Resources and Grant. Transfer of resources from Union to states. | 18 |
| II | Indian Tax System: Revenue of Union, States and Local Bodies. Major Taxes in India: Tax Base, Direct and Indirect Taxes, Issue of Taxation of Agriculture, Expenditure Tax, Goods and Service Tax (GST). Tax Reforms in India. Non-Tax Revenue sources of the Central, States and Local Bodies. | 15 |
| III | Union Govt. Budget: Preparation, Presentation and Execution. Current Union Budget. Balanced Budget Multiplier. Items of expenditure: Union, State & Local Bodies. Causes of Increase in Public Expenditure & Public Debt. | 12 |

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

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

Recommended /Additional Reading:

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

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Semester VIII

Bachelor of Economics with Research

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Research Methodology-II

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

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

| Bachelor of Economics with Research | | |
|--|---|-------------------------------------|
| Programme: Bachelor of Economics with Research | Year 4 | Semester 8 Paper II (b) |
| Subject : Economics | | |
| Course Code: ECODSEM802 | Course Title : Research Methodology-II | |
| Course Outcomes: | | |
| <ul style="list-style-type: none"> The students will be able to learn about correlation and regression. The students will learn about inferential statistics. The students will learn report writing and use of computers in social science research. | | |
| Credits : 4 Credits | | Discipline Specific Elective |
| Unit | Topics | No. of Hours |
| I | Correlation: Meaning, Assumptions and Limitations of Simple Correlation. Various methods of determining Correlation (Graphical and Mathematical Methods). Probability theory, Probable Error. | 18 |
| II | Probability Distribution-PMF (Probability Mass Function)- Binomial and Poisson Distribution and PDF (Probability Density Function)- Normal distribution, t-Distribution, chi-square Distribution Large sample & Small sample. Type-I & Type II Errors. Level of Significance. Interpretation of p-value. One-tail and Two-tail tests. Testing of Significance for Small and Large Samples (Z-test, t-test, Chi Square test, F-test and Analysis of Variance (ANOVA). | 15 |

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

Essential Reading:

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

Recommended /Additional Reading:

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

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Semester VIII

Bachelor of Economics with Research

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Advanced Statistics

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

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

| Bachelor of Economics with Research | | |
|--|---|-------------------------------------|
| Programme : Bachelor of Economics with Research | Year 4 | Semester 8 Paper II (c) |
| Subject : Economics | | |
| Course Code: ECODSE803 | Course Title : Advanced Statistics | |
| Course Outcomes: The course will help students to: <ul style="list-style-type: none"> Understand sampling and data collection techniques. Learn the descriptive statistics and data analysis. Learn about time series analysis and probability theory Learn and apply inferential statistics and linear regression. | | |
| Credits : 4 Credits | | Discipline Specific Elective |
| Unit | Topics | No. of Hours |
| I | Introduction to Sampling and Data Collection Planning and Execution of Sample Surveys. Collection, Classification, Tabulation, and Presentation of Data. Sampling Theory and Design of Sample Surveys: Theoretical Basis of Sampling, Methods and Types of Sampling, Errors in Sampling, Merits and Limitations of Sampling | 12 |
| II | Descriptive Statistics and Data Analysis Different Types of Averages. Dispersion: Range, Standard Deviation, Coefficient of Variation, Probable Error, Lorenz Curve and Gini Coefficient. Skewness and Kurtosis. Simple Correlation. | 14 |
| III | Time Series Analysis, Interpolation-Extrapolation and Probability Tests | 17 |

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

Essential Reading:

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

Recommended /Additional Reading:

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

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Semester VIII
Bachelor of Economics with Research

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Labour Economics-II

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

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

| Bachelor of Economics with Research | | |
|--|---|-------------------------------------|
| Programme : Bachelor of Economics with Research | Year 4 | Semester 8 Paper II (d) |
| Subject : Economics | | |
| Course Code: ECODSE804 | Course Title : Labour Economics-II | |
| Course Outcomes: | | |
| <ul style="list-style-type: none"> • The students will learn about labour movements and theories. • The students will learn about labour legislation and labour security. • The students will learn about the issues related to child and women labour. | | |
| Credits : 4 Credits | | Discipline Specific Elective |
| Unit | Topics | No. of Hours |
| I | Theories of Labour Movement – Structure of Labour Union in India, Achievement of Labour Unions, Methods of Settlement of Industrial Disputes, Collective Bargaining, Conciliation, Arbitration and Adjustment. Current Trends in Collective Bargaining and Role of Judicial Activism. | 15 |
| II | Labour Legislation in India: Factory Act 1948, Indian Labour Laws and Practice in Relation to International Labour Standards. | 12 |
| III | State and Social Security of Labour: Concept of Social Security, Social Assistance and Social Insurance. Labour Welfare Measures in India. Social Security in India: Workmen Compensation Act 1923, Employees State Insurance Act. 1948, Maternity Benefit Act 1961, | 18 |

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

Essential Reading:

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

Recommended /Additional Reading:

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

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Semester VIII

Bachelor of Economics with Research

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Agriculture Economics-II

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

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

| Bachelor of Economics with Research | | |
|--|---|-------------------------------------|
| Programme :Bachelor of Economics with Research | Year 4 | Semester 8 Paper II (e) |
| Subject : Economics | | |
| Course Code: ECODSE805 | Course Title : Agriculture Economics-II | |
| Course Outcomes: <ul style="list-style-type: none"> The students will learn about agriculture finance and its sources. The students will learn about marketing and state intervention in agriculture. | | |
| Credits : 4 Credits | | Discipline Specific Elective |
| Unit | Topics | No. of Hours |
| I | Agricultural Finance in India: Meaning, Importance and Types. Sources of Agriculture Finance: Institutional and Non-institutional. Credit Analysis: 4R's and 3C's. Existing Credit Delivery System (Multi Agency Approach): Cooperatives, Commercial Banks, Regional Rural Banks. Role of NABARD. | 15 |
| II | Agricultural Cooperatives: Meaning, Objectives, Principles and Significance. Cooperative Movement in India. Types of Agricultural Cooperatives: Credit, Farmer, Marketing, Processing and Warehousing. Problems and Prospects of Cooperative Institutions. | 15 |
| III | Agricultural Marketing: Meaning, Structure and Classification of Agriculture Markets. Regulated Markets. Marketed Surplus | 18 |

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

Essential Reading:

1. G.S. Bhalla, Indian Agriculture since Independence, National Book Trust, India, Ministry of Education.
2. Shah, C.H. and C.N. Vakil (ed.): Agriculture Development of India: Policy and Problems, Orient Longman, 1979.
3. Southworth N. and A. Johnston: Agriculture Development and Economic Growth, Cornell University Press.
4. Heady, E.O.: (ed.) Economic Development of Agriculture.
5. एस० बी० गुप्ता, कृषि अर्थशास्त्र, एस० बी० पी० डी० पब्लिकेशन आगरा।

Recommended /Additional Reading:

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

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Semester VIII

Bachelor of Economics with Research

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Indian Economy-II

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

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

| Bachelor of Economics with Research | | |
|---|--|-------------------------------------|
| Programme :Bachelor of Economics with Research | Year 4 | Semester 8 Paper II (f) |
| Subject : Economics | | |
| Course Code: ECODSE806 | Course Title : Indian Economy-II | |
| Course Outcomes: | | |
| <ul style="list-style-type: none"> The students will learn about the Indian Economy and its salient features. The students will learn about population, employment and regional imbalances. | | |
| Credits : 4 Credits | | Discipline Specific Elective |
| Unit | Topics | No. of Hours |
| I | Agriculture in India: Growth, Productivity and Investment. Land Reforms and Green Revolution. Policies for Agricultural and Rural Development. WTO and Indian Agriculture. | 15 |
| II | Industrial Growth in India – Status, Growth and Problems since Independence. Industrial Development during Planning Period. | 12 |
| III | Economic Reforms and Liberalization, Privatization, Globalization: Origin and Impact since 1990s. Need for Foreign Capital and Foreign Aid to India. A Critical Appraisal of MNC’s development in India. | 15 |
| IV | Public Sector Vs Private Sector in India: Growth, Performance and New Industrial Policy 1991. Medium Small and Marginal Enterprises: | 18 |

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| | Definition, Role and Performance. Service Sector: Growth and Performance. | |
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Essential Reading:

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

Recommended /Additional Reading:

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

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Semester VIII

Bachelor of Economics with Research

DISCIPLINE SPECIFIC ELECTIVE (DSE)- Cultural Economics-II

No. of Hours-60

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

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

| Bachelor of Economics with Research | | | |
|---|--|-------------------------------------|---------------------|
| Programme : Bachelor of Economics with Research | Year 4 | Semester 8 Paper II (g) | |
| Subject : Economics | | | |
| Course Code: ECODSE807 | Course Title : Cultural Economics-II | | |
| Course Outcomes: The course will help students to: | | | |
| <ul style="list-style-type: none"> Interpret the practical applications of cultural economics in sectors such as tourism, media, and public policy. Assess the socio-economic value of cultural heritage and identity, especially in contemporary and regional contexts. Explore and analyse Uttarakhand’s cultural economy using conceptual and real-life examples, encouraging localized understanding of national frameworks. | | | |
| Credits : 4 Credits | | Discipline Specific Elective | |
| Unit | Topics | | No. of Hours |
| I | Cultural Economics in Public Policy and Governance: Cultural Capital and Human Development Indicators. Art, Culture, and Identity in Social Inclusion. Cultural Consumption in the Digital Age: Role of Media, Film, and Literature in Cultural Economy. Economics of Festivals, Rituals, and Events | | 15 |
| II | Cultural Tourism: Concepts, Stakeholders, and Value Chain. Linkage between Tourism and Local Economies. Sustainable Development and Culture: Models of Sustainable Cultural | | 15 |

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

Essential Reading:

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

Recommended/ Additional Readings:

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

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Semester VII

Bachelor of Economics with Research

GENERIC ELECTIVE (GE)- 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:Economy of Uttarakhand | 4 | 3 | 1 | 0 | Passed Bachelor of Economics | Nil |

| Bachelor of Economics with Research | | |
|---|---|-------------------------------------|
| Programme :Bachelor of Economics with Research | Year 4 | Semester 8 Paper III (a) |
| Subject : Economics | | |
| Course Code: ECOGE801 | Course Title : Economy of Uttarakhand | |
| Course Outcomes: | | |
| <ul style="list-style-type: none"> The course introduces about the economy of Uttarakhand and demographic profile of Uttarakhand. The student will learn agriculture and industrial profile of Uttarakhand economy. The student will come to know about various poverty alleviation and employment generation programmes in Uttarakhand. | | |
| Credits : 4 Credits | | Generic Elective |
| Unit | Topics | No. of Hours |
| I | Economy of Uttarakhand - Introduction & Characteristics. Demographic Profile of Uttarakhand. Natural Resources in Uttarakhand. | 13 |
| II | Agricultural Profile – Agriculture& allied sector in Uttarakhand. Industrial Profile of Uttarakhand - MSMEs in Uttarakhand and New Industrial Policies. Problems of Village and Cottage Industries. | 15 |
| III | Tourism sector in Uttarakhand. Migration & Reverse Migration in Uttarakhand, Rural to rural and Rural to urban migration. Role of Women in Uttarakhand's Economy. | 15 |

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| IV | Unemployment and Poverty in Uttarakhand. Various Poverty Alleviating and Employment Generation Programmes in Uttarakhand:- Mukhyamantri Swarozgar Yojna, Mukhyamantri Saur Swarozgar Yojna, Veer Chandra Singh Garhwali Tourism Self Employment Scheme, National Rural Livelihood Mission and National Urban Livelihood Mission. | 17 |
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Essential Reading:

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. Pandey, R.K., Rajnish Pande&Padam S. Bisht : Economy of Uttaranchal - Profile and Dynamics of Change, co-ed., Anamika Publishers & Distributers (P) Ltd., New Delhi.
3. Bisht, Padam S.; Tourism Development in Kumaon, Anamika Publishers & Distributors Pvt. Ltd. New Delhi.
4. Lohani, Jitendra Kumar &Padam S. Bisht: Uttarakhand Ki Arthvyavastha, Kunal Books, New Delhi.

Recommended /Additional Reading:

Suggested online link :

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Semester VII

Bachelor of Economics with Research

GENERIC ELECTIVE (GE)- Economic Systems

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 Systems | 4 | 3 | 1 | 0 | Passed Bachelor of Economics | Nil |

| Bachelor of Economics with Research | | |
|--|---|-------------------------------------|
| Programme :Bachelor of Economics with Research | Year 4 | Semester 8 Paper III (b) |
| Subject : Economics | | |
| Course Code: ECOGE802 | Course Title : Economic Systems | |
| Course Outcomes: | | |
| <ul style="list-style-type: none"> The student will be able to understand the different types of economic system. The students will come to know about role of the state in decision making. | | |
| Credits : 4 Credits | | Generic Elective |
| Unit | Topics | No. of Hours |
| I | Economic System – Definition, Nature, Scope and Importance. Types, Features of various economic systems. Role of state process in decision making in various economic systems. Causes of evolution of various economic systems. Functions and Efficiency of Economic Systems. | 15 |
| II | Capitalist System: Characteristics, Prime movers in Capitalist System, Role of Profit, Free Enterprise, Sovereignty of the Consumer. Advantages and Disadvantages. Dynamism in Capitalist system. Challenges to Capitalist Systems. | 15 |
| III | Communist System: Features, Types of Planning Mechanism, Ownership and Distribution Patterns. Cooperative Systems- Organization of Cooperative Enterprises in Capitalist and Communist | 16 |

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| | Systems. Cooperative Movement in Israel & Denmark. Evolution of Indian Cooperative System. | |
| IV | Concept of Mixed Economy: Planning under mixed economy, Working of Mixed Economy in India, Role of Public and Private Sectors in India. Gandhian Economic System and Panchayati Raj. | 14 |

Essential Reading:

1. S.K. Mishra, Economic Systems & Micro Economics, D.K. Publishers, New Delhi.
2. S.S.M Desai: Economic Systems, Himalaya Publishing House, New Delhi.
3. George Halm, Economic Systems.

Recommended /Additional Reading:

1. Vinod Mehta; The Solvent & Chinese Economy : A Comparative Study; D.K. Publishers
2. Pillai & Sarangsharan; Economic Systems, Himalaya Publishing House, Bombay.
3. Amritananda; Foundations of Gandhian Economics, D.K. Publishers, New Delhi.

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Semester VIII

Bachelor of Economics with Research

DISSERTATION ON MAJOR/MINOR

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

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

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

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