

U.G. Syllabus

**Department of Economics
School of Humanities and Social Sciences
H.N.B. Garhwal University
Srinagar (Garhwal)**

For batches 2022-23, 2023-24 and 2024-25 only

**Department of Economics,
Birla Campus, HNB Garhwal University,
Srinagar Garhwal, Uttarakhand**

U.G. Course structure (for 3+1=4 years)

Department of Economics
School of Humanities and Social Sciences
H.N.B. Garhwal University, Srinagar Garhwal

For batches 2022-23, 2023-24 and 2024-25 only

Semester	Course category	Course title	Credits
Semester-I	Core	Principles of Micro Economics-I	6
	Additional Course	Managerial Economics-I	4
	Skill course	Entrepreneurship and Start-up-I	2
		Survey Methods and Data Analysis-I	2
Semester-II	Core	Principles of Micro Economics-II	6
	Additional Course	Managerial Economics-II	4
	Skill course	Entrepreneurship and Start-up-II	2
		Survey Methods and Data Analysis-II	2
Semester-III	Core	Principles of Macro Economics-I	6
	Additional Course	Managerial Economics-I	4
	Skill course	Entrepreneurship and Start-up-I	2
		Survey Methods and Data Analysis-I	2
Semester-IV	Core	Principles of Macro Economics-II	6
	Additional Course	Managerial Economics-II	4
	Skill course	Entrepreneurship and Start-up-II	2
		Survey Methods and Data Analysis-II	2
Semester-V	Elective	Economic Development and Policy in India– I	6
		Money & Banking	6
		Environmental Economics	6
	Field-Based course	Field Visit/Vocational Course/Entrepreneurship skills	4

Semester-VI	Elective	Economic Development and Policy in India–II	6
		Uttarakhand Economy	6
		Public Finance	6
	Field Based core	Field Visit/Vocational Course/Entrepreneurship skills	4

B.A (Honours) Economics

VII & VIII Semesters

Entry requirement				
(After completing requirements of a 3-year bachelor's degree (120 credits) and 2 additional credits under SSD, candidates will be allowed to continue studies in the fourth year of the undergraduate programme leading to the four years bachelor's degree (Honours).)				
Course type	Semester-VII		Semester-VIII	
	Course Code/Course Title	Credits	Course Code/Course Title	Credits
Major Subject (Three)	H/SOS/ECO/CC 701 Advanced Micro Economics-I	5	H/SOS/ECO/CC 801 Advanced Micro Economics-II	5
	H/SOS/ECO/CC 702 Advanced Macro Economics-I	5	H/SOS/ECO/CC 802 Advanced Macro Economics-II	5
	H/SOS/ECO/CC 703 Quantitative Methods	5	H/SOS/ECO/CC 803 International Economics	5
Core Major Elective (Any 1 out of the 4 electives)	H/SOS/ECO/EC/705 (a) Financial Literacy, Investment and stock markets	4	H/SOS/ECO/EC/805 (a) Fundamental and Technical analysis of stocks	4
	H/SOS/ECO/EC/705 (b) Mathematical Economics-I **		H/SOS/ECO/EC/805 (b) Mathematical Economics-II	
	H/SOS/ECO/EC/705 (c) Indian Financial System-1		H/SOS/ECO/EC/805 (c) Indian Financial System-II	
	H/SOS/ECO/EC/705 (d) Regional planning and Development		H/SOS/ECO/EC/805 (d) Sectoral Dynamics of Uttarakhand	
	H/SOS/ECO/MMD/706 Research Methodology	5	H/SOS/ECO/MMD/806 Project Work	5
Minor (One)	H/SOS/ECO/MMD/707 (a) Intellectual Property Rights H/SOS/ECO/MMD/707 (b) Uttarakhand Economy	4	(Any 1 out of the 2 Courses) H/SOS/ECO/MMD/807 (a) Detailed Project Report for Enterprise H/SOS/ECO/MMD/807 (b) Indian Economy: Policy and Environment**	4
Total		28		28
NHEQF Level-6	<i>Student on exit after successfully completing four years (i.e., securing minimum required 176 credits along with securing additional 2 credits under SSD course work) will be awarded "Four years Bachelor's Degree (Honours)", in related field/discipline.</i>			
	** - Swayam Course			

B.A (Honours with Research) Economics

VII & VIII Semesters

Entry requirement	(After completing requirements of a 3-year bachelor's degree (120 credits) and 2 additional credits under SSD, candidates who meet a minimum CGPA of 7.5 will be allowed to continue studies in the fourth year of the undergraduate programme leading to the four years bachelor's degree (Honours with Research).			
Course Type	Semester-VII		Semester-VIII	
	Course Code/Course Title	Credits	Course Code/Course Title	Credits
Major Subject	HR/SOS/ECO/CC/711 Advanced Economic Theory-I	5	HR/SOS/ECO/CC/811 Advanced Economic Theory-II	5
	HR/SOS/ECO/CC/712 Quantitative Methods	5		
	HR/SOS/ECO/CC/713 Economics of Human Development	5		
Major Elective (Any 1 out of the 4 electives)	HR/SOS/ECO/EC/714 (a) Financial Literacy, Investment and stock markets HR/SOS/ECO/EC/714 (b) Mathematical Economics-I HR/SOS/ECO/EC/714 (c) Indian Financial System-1 HR/SOS/ECO/EC/714 (d) Regional planning and Development	4	HR/SOS/ECO/EC/812 (a) Fundamental and Technical analysis of stocks HR/SOS/ECO/EC/812 (b) Mathematical Economics-II HR/SOS/ECO/EC/812 (c) Indian Financial System-II HR/SOS/ECO/EC/812 (d) Sectoral Dynamics of Uttarakhand	4
Core Course (Research Based)	HR/SOS/ECO/RC/715 Research Methodology	5	HR/SOS/ECO/RC/813 Research Writing & Ethics	3
			HR/SOS/ECO/RC/814 Dissertation	12
Minor (one)	HR/SOS/ECO/MMD/716 (a) Intellectual Property Rights HR/SOS/ECO/MMD/716 (b) Uttarakhand Economy	4	HR/SOS/ECO/MMD/815 (a) Detailed Project Report for Enterprise HR/SOS/ECO/MMD/815 (b) Indian Economy: Policy and Environment (Swayam Course)	4
Total		28		28
NHEQF Level-6	<i>Student on exit after successfully completing four years (i.e., securing minimum required 176 credits along with securing additional 2 credits under SSD course work) will be awarded "Four years Bachelor's Degree (Honours with Research)", in related field/discipline.</i>			

Semester-I

Core Course: Principles of Micro Economics-I

Course Credits	(06) Six
Course Objective:	The course objective is to make a student learn basic principles of Micro Economics which will help him/her to utilise them for understanding the economic behaviour of individual agents (Consumers and Producers) and firms. The course will help the learners to apply the economic concepts for a better understanding of the micro economy.
Course Learning outcomes	<p style="text-align: center;">The Course will help the learner to:</p> <ul style="list-style-type: none">• Learn the basic concepts of Economics along with the fundamentals and framework of Micro Economics• Analysis of the functioning of the micro economy• To understand the individual consumer, producer, firm economic behaviour along with their equilibrium conditions• To learn the status of cost and revenue of firm in the short and long run• To understand the firm's behaviour under perfect market competition• To understand the concept and conditions of allocative efficiency under perfectly competitive markets

1. Introduction

a. Problem of scarcity and choice: scarcity, choice and opportunity cost; Micro and Macro Economics: Concept, scope, and nature; Static and Dynamic Economics; Production Possibility Frontier.

b. Demand and supply: law of demand and its exceptions, determinants of demand, shifts of demand versus movements along a demand curve, market demand, law of supply, determinants of supply, shifts of supply versus movements along a supply curve, market supply, market equilibrium; Consumer Surplus and Producer Surplus.

c. Elasticity: price elasticity of demand, calculating elasticity, determinants of price elasticity; Income and Cross Elasticity.

2. Consumer Theory

Concept of utility, Diamond-water paradox, Law of Diminishing Marginal Utility and equi-marginal utility; Indifference Curve: Consumer Equilibrium, Price Effect; Derivation of the demand curve from indifference curve.

3. Production, Costs and Revenue analysis

a. Production: Concept and factors of production; Production function; Law of variable proportions; Return to scale; Producer equilibrium.

b. Costs: costs in the short run and long run, revenue and profit maximizations, minimizing losses, short run industry supply curve, economies and diseconomies of scale, long run adjustments.

4. Perfect Competition

a. Assumptions: theory of a firm under perfect competition, demand and revenue; Equilibrium of the firm in the short run and long run; Long run industry supply curve: increasing, decreasing and constant cost industries.

b. Welfare: allocative efficiency under perfect competition.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

1. Ahuja H.L. (2016) *Advanced Economic Theory: Microeconomic Analysis*, 20th Edition, S. Chand and Company Ltd. New Delhi
 2. Case, Karl E., Ray C. Fair and Sharon E. Oster (2013) *Principles of Economics*, (11th Edition), Prentice Hall of India, New Delhi
 3. Koutsoyiannis, A. (1990) *Modern Microeconomics*, Macmillan Press Ltd., London
 4. Layard, P.R.G. and A. W. Walters (1978) *Microeconomic Theory*, McGraw Hill, New York
 5. Lipsey, R.G. and K.A. Chrystal (2004) *Principles of Economics*, (9th Edition), Oxford University Press, New Delhi
 6. Perloff, Jeffrey M. (2001) *Micro Economics*, Addison Wesley Longman Pvt. Ltd., New Delhi
 7. Sen, A. (1999) *Microeconomics Theory and Applications*, Oxford University Press, New Delhi
 8. Stigler, G. (1996) *Theory of Price*, (4th Edition), Prentice Hall of India, New Delhi
 9. Varian, H. (2000) *Microeconomic Analysis*, W. W. Norton, New York
-

Semester-I or III

Additional Course: Managerial Economics-I

Course Credits	(04) Four
Course Objective:	This course will help the students to learn different concepts, theories and tools in economics and their application to business decision/research problem
Course Learning outcomes	<ul style="list-style-type: none">• Students will be able to explain the basics concepts of Managerial Economics along with its importance in decision making• Through the lens of economics, students will learn to think systematically and strategically about critical management issues concerning consumer demand, supply, Cost, consumer and producers' equilibrium.

Unit-1 Basics of Managerial Economics

Nature, Scope and significance of managerial economics; Managerial economics and Economics (Micro & Macro); Characteristics of managerial economics; Fundamental economic concepts - opportunity cost, discounting principle, time perspective, incremental concept, equimarginal concept; Application of economics in managerial decision making; Role and responsibilities of managerial economist in business.

Unit-2 Demand and Supply Analysis

Utility Analysis; Demand: Concept, Law- along with its exceptions and its determinants; Indifference Curve analysis; Consumer equilibrium; Income and substitution effect; Consumer surplus; Elasticity of Demand: Concept, types and measurement methods, importance in decision making; Demand Forecasting: Types, Process and methods, demand forecasting for new products.

Unit-3 Production and Cost and Revenue Analysis

Supply: Concept, Law, Determinants and elasticity; Equilibrium: static, unstable and neutral; Production function and its managerial use, Law of variable proportion and returns to scale; Different types of cost, cost curves under short and long run, the relationship between average and marginal cost, long run cost curves; Modern development in cost theory: L-Shaped long run average cost curves and learning curve; Isoquants and least cost combinations of factors; Expansion path.

Revenue Curves: Concept of average, marginal and total revenue under different market conditions, the relation between average and marginal revenue.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

- Maurice, Charles, S., Thomas, Christopher, R and Smithson, Charles, W. 1992. *Managerial Economics- Applied microeconomics for decision making*. Irwin.
- Mote, V.L., Paul, Samuel and Gupta, G.S. 1987. *Managerial Economics-concepts and cases*. Tata McGraw Hill.
- Peterson, Craig, H. and Lewis, Cris, W.2012. *Managerial Economics*. Pearson Education Asia.
- Dholakia, Ravindra, H. and Oza, Ajay, N. 1996. *Microeconomics for Management Students*. Oxford University Press
- Koutsoyiannis, A. (1990) *Modern Microeconomics*, Macmillan Press Ltd., London
- Layard, P.R.G. and A. W. Walters (1978) *Microeconomic Theory*, McGraw Hill, New York
- Lipsey, R.G. and K.A. Chrystal (2004) *Principles of Economics*, (9th Edition), Oxford University Press, New Delhi
- Perloff, Jeffrey M. (2001) *Micro Economics*, Addison Wesley Longman Pvt. Ltd., New Delhi
- Sen, A. (1999) *Microeconomics Theory and Applications*, Oxford University Press, New Delhi
- Stigler, G. (1996) *Theory of Price*, (4th Edition), Prentice Hall of India, New Delhi
- Varian, H. (2000) *Microeconomic Analysis*, W. W. Norton, New York

Semester-I or III

Skill Course: Entrepreneurship and Start-up-I

Course Credits	(02) Two
Course Objective:	This course introduces students to the basic knowledge of starting new ventures. It will impart skills for the formulation and planning of projects. It will also provide them knowledge of institutions, helpful for the development of small businesses.
Course Learning outcomes	<p>The course will help the learners/potential entrepreneurs to:</p> <ul style="list-style-type: none">• understand the important requisite characteristics of an entrepreneur and attaining knowledge of different sectors that have immense scope of entrepreneurship development in the state and country• learn about the various government programs and schemes which promote and develop skills and entrepreneurship• help budding entrepreneurs to learn the process of starting an enterprise• get the knowledge of different types of businesses and to learn the legal details under them• help the learner to learn the process of developing/preparing a business plan along with learning various marketing management and developing strategies

Unit-1 Entrepreneurship

Entrepreneurship: Meaning and role in society; Characteristics of an entrepreneur, Entrepreneur skills; Forms of entrepreneurship- Private; public and joint entrepreneurship; Scope for entrepreneurship in Uttarakhand and India; Institutions of skill development, policies, programs and schemes of skill and entrepreneurship development in India

Unit 2: Entrepreneurship process

Idea identification and Need Gap assessment: Identification of business opportunity (idea, opportunity and innovation), how to identify business ideas and conducting need assessment study; methods for idea, generation, assessment and screening; Feasibility analysis of the idea (Market, financial, technical, socio-economic feasibility analysis) and feasibility report preparation)

Unit-3 Type of business

Nature and type of business: sole proprietorship, private limited, public limited, partnership, limited liability partnership; Legal details under different types of business: registration, legal status, liabilities, taxation etc

Unit-4 Preparation of business plan-I

Business plan: meaning and objectives, contents of a business plan, Marketing Plan: Marketing mix, market segmentation, identification of target market and developing strategies for target market, product positioning

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

Donald F Kuratko, “Entrepreneurship – Theory, Process and Practice”, 9th Edition, Cengage Learning, 2014.

Khanka. S.S., “Entrepreneurial Development” S. Chand & Co. Ltd., Ram Nagar, New Delhi, 2013.

EDII “Faulty and External Experts – A Hand Book for New Entrepreneurs Publishers: Entrepreneurship Development”, Institute of India, Ahmadabad, 1986.

Hisrich R D, Peters M P, “Entrepreneurship” 8th Edition, Tata McGraw-Hill, 2013.

Mathew J Manimala, "Entrepreneurship theory at crossroads: paradigms and praxis" 2nd Edition Dream tech, 2005.

Rajeev Roy, "Entrepreneurship" 2 Edition, Oxford University Press, 2011.

Vasant Desai, “The Dynamics of Entrepreneurship Development and Management”, Himalaya Publication house, 2022

David H. Holt, “Entrepreneurship, New Venture Creation”, Prentice Hall India, 1991.

S.S. Khanka, “Entrepreneurial Development”, S. Chand & Company Ltd. New Delhi, 2007

Vasant Desai, “Small-Scale Industries and Entrepreneurship”, Himalaya Publishing House, Delhi, 2003

Semester-I or III

Skill Course: Survey Methods and Data Analysis-I

Course Credits	(02) Two
Course Objective:	The main objective of the course is to help the student to learn about the sample surveys which will help them in increasing their employability
Course Learning outcomes	<p>The course will help the learner to</p> <ul style="list-style-type: none">• learn about the process of survey research along with its various types• understand the methods of collecting primary data and various sources of secondary data along with getting use to the various random and non-random sampling techniques• learn to design and prepare questionnaire for surveys along with process of testing it• learn various methods of conducting qualitative research along with dealing with issues with sample surveys such as non-response from the respondents• learn various methods and process of conducting participatory research• understand various types of measurements scales which will help them to input appropriate data into them for measurements• learn various scaling techniques which will help them in the process of conducting survey research

Unit-1 Data Collection and Sampling methods

Survey Research: Steps involved in conducting survey research; Types of survey research; Data collection Methods and sources of data: primary and secondary data; Census and sampling-based surveys; Sampling Methods: Random and Non-Random sampling methods.

Unit-2 Survey tools and techniques

Questionnaires and Schedules: Meaning and merits; Types of questions: Structured and unstructured; Questionnaire design and testing; preparing questionnaire for online surveys; pilot study Qualitative research methods: Direct: Observation, Focus group, Delphi method, Depth interviews, Content analysis; Indirect: Projective techniques, Sociometry.

Non-response in sample surveys

Unit-3 Participatory research

Participatory Action research; Participatory Evaluation; Participatory Rural Appraisal (PRA): Meaning, Social Map, resource map, Transect walk, timeline

Unit-4 Attitude measurement and Scaling techniques

Measurement scales; Scaling techniques: Comparative and Non-comparative Scales

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

Creswell, J. W. (1994). *Research design: Qualitative and quantitative approaches*. Thousand Oaks, CA: Sage.

Fowler, J., Floyd J. (1995). *Improving survey questions: Design and evaluation*. (Vol. 38). Thousand Oaks, CA: Sage Publications.

Salant, P., & Dillman, D. A. (1994). *How to conduct your own survey*. New York: John Wiley and Sons.

Tourangeau, R. (1999). *Interdisciplinary survey methods research*. In M. G. Sirken, D. J.

Herrmann, S. Schechter, N. Schwarz, J. M. Tanur, & R. Tourangeau (Eds.), *Cognition and Survey Research*. New York: John Wiley and Sons.

Williams, D.G. and Johnson, N.A. (1996). *Essentials in Qualitative Research: A Notebook for the Field*. Hamilton, Canada: Mc Master University.

Yin, R.K. (1984). *Case Study Research: Design and Methods*. Beverly Hills, CA, USA.: Sage Publications.

Moser, C. A. and G. Kalton 1973. *Survey Methods in Social Investigation*. The English Language Book Society: London

de Vaus, D.A. 1986. *Surveys in Social Research*. George Allen and Unwin: London

Young, P. V. 1988. *Scientific Social Surveys and Research*. New Delhi: Prentice Hall.

Semester-II

Core Course: Principles of Micro Economics-II

Course Credits	(06) Six
Course Objective:	The main objective of the course which is the extension of the Micro Economics course in first semester is to enhance the knowledge of the learner about Micro Economics which will help them to understand the pricing and output decisions under the various market structure. The course will help to understand the market behaviour and response under different conditions along with covering the pricing of factors of production. The course will also help in understanding the basics of International Trade.
Course Learning outcomes	<p>The student will be able to:</p> <ul style="list-style-type: none"> • Understand the pricing and output determination under different forms of imperfect market competition • Understand how perfectly competitive markets ensure economic efficiency • Understand market failures and their causes • Understand the information problems and how it affects the behaviour of consumers and firms • Understand the pricing theories of different factors of production • Understand the basic theories of International Trade along with factors that impact international trade.

1. Imperfect Competition: Concept and forms of imperfect competition

a. Monopoly

Short run and long run price and output determination of a monopoly firm; concept of a supply curve under monopoly; comparison of perfect competition and monopoly, social cost of monopoly, price discrimination; remedies for monopoly: Antitrust laws, natural monopoly.

b. Monopolistic and Oligopoly

Monopolistic competition: assumptions, short run & long run price and output determination under monopolistic competition, economic efficiency and resource allocation; oligopoly: assumptions, oligopoly models- Kinked Demand Curve, price Leadership and Cartels, game theory, contestable markets, role of government.

2. Consumer and Producer Theory

a. Consumer and Producer Theory in Action: Externalities, marginal cost pricing, internalising externalities, imperfect information: adverse selection, moral hazard, social choice, government inefficiency.

b. Markets and Market Failure: Market adjustment to changes in demand, efficiency of perfect competition; sources of market failure: imperfect markets, public goods, externalities, imperfect information; evaluating the market mechanism.

3. Factor pricing

Ricardian theory of Rent: Scarcity and Differential Rent; Wages: Marshal-Hicks Wage determination theory; Keynes Liquidity preference theory; Profits- Schumpeter and Knights theory.

4. International Trade

Absolute advantage, comparative advantage, terms of trade, sources of comparative advantage, trade barriers, free trade/ protectionism.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

1. Ahuja H.L. (2016) *Advanced Economic Theory: Microeconomic Analysis*, 20th Edition, S. Chand and Company Ltd. New Delhi
 2. Case, Karl E., Ray C. Fair and Sharon E. Oster (2013) *Principles of Economics*, (11th Edition), Prentice Hall of India, New Delhi
 3. Koutsoyiannis, A. (1990) *Modern Microeconomics*, Macmillan Press Ltd., London
 4. Layard, P.R.G. and A. W. Walters (1978) *Microeconomic Theory*, McGraw Hill, New York
 5. Lipsey, R.G. and K.A. Chrystal (2004) *Principles of Economics*, (9th Edition), Oxford University Press, New Delhi
 6. Perloff, Jeffrey M. (2001) *Micro Economics*, Addison Wesley Longman Pvt. Ltd., New Delhi
 7. Sen, A. (1999) *Microeconomics Theory and Applications*, Oxford University Press, New Delhi
 8. Stigler, G. (1996) *Theory of Price*, (4th Edition), Prentice Hall of India, New Delhi
 9. Varian, H. (2000) *Microeconomic Analysis*, W. W. Norton, New York
-

Semester-II

Additional Course: Managerial Economics-II

Course Credits	(04) Four
Course Objective:	The main objective of the course is to make learner both micro and macro-economic aspects along with their applications to understand the economic behaviour in the real world.
Course Learning outcomes	The course will help the learner to: <ul style="list-style-type: none">• Understand the price determination under different perfect and different forms of imperfect market competition.• Understand the pricing approaches along with factors that affects decisions related to pricing of the product• Understand the concepts of National Income and business cycles.• Understand the role and tools of monetary and fiscal policies to control business cycles• Learn the Macro Economic key features of the Indian Economy which includes LPG, PPP, foreign trade (with respect to WTO) and the existing Indian tax system

Unit-1 Market structure and Pricing Practices:

Market structure: Perfect Competition, Features, Determination of price under perfect competition; Monopoly: Features, Pricing under monopoly, Price Discrimination; Monopolistic Competition: Features, Pricing under monopolistic competition, Product differentiation; Oligopoly: Features, Kinked demand Curve, Cartels, Price leadership.

Pricing: Factor affecting pricing decision; Components in Pricing of the product; Descriptive Pricing Approaches: Full cost pricing, Product line pricing, Pricing Strategies: Price Skimming, Penetration Pricing, Loss leader pricing, Peak Load pricing.

Unit-2 National Income and Business Cycles

Primary, secondary and tertiary sectors and their contribution to the economy; National Income: Concepts, Determination; Multiplier and accelerator concepts; Business Cycles: Phases and Management of Cyclical Fluctuations: Fiscal and Monetary Policies.

Unit-3 Macro Economic Environment

Economic Transition in India: Liberalization, Privatization and Globalization; Business and Government: Public-Private Participation (PPP), Industrial Finance, Foreign Direct Investment (FDIs & FIIs); Trends in India's Foreign Trade, Impact of WTO on India's Foreign Trade, Role of MNCs in India; Present Indian Tax System.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

- Maurice, Charles, S., Thomas, Christopher, R and Smithson, Charles, W. 1992. *Managerial Economics- Applied microeconomics for decision making*. Irwin.
- Mote, V.L., Paul, Samuel and Gupta, G.S. 1987. *Managerial Economics-concepts and cases*. Tata McGraw Hill.
- Peterson, Craig, H. and Lewis, Cris, W.2012. *Managerial Economics*. Pearson Education Asia.
- Dholakia, Ravindra, H. and Oza, Ajay, N. 1996. *Microeconomics for management Students*. Oxford University Press
- Koutsoyiannis, A. (1990) *Modern Microeconomics*, Macmillan Press Ltd., London
- Layard, P.R.G. and A. W. Walters (1978) *Microeconomic Theory*, McGraw Hill, New York
- Lipsey, R.G. and K.A. Chrystal (2004) *Principles of Economics*, (9th Edition), Oxford University Press, New Delhi
- Perloff, Jeffrey M. (2001) *Micro Economics*, Addison Wesley Longman Pvt. Ltd., New Delhi
- Sen, A. (1999) *Microeconomics Theory and Applications*, Oxford University Press, New Delhi
- Stigler, G. (1996) *Theory of Price*, (4th Edition), Prentice Hall of India, New Delhi
- Varian, H. (2000) *Microeconomic Analysis*, W. W. Norton, New York
- Salvatore D. (2018). *Managerial Economics in a Global Economy*, 9th Edition, Oxford University Press.

Semester-II or IV

Skill Course: Entrepreneurship and Start-up-II

Course Credits	(02) Two
Course Objective:	The course is a continuation of the course learnt in the previous semester and aims to further make the learner learn to develop a business plan and environment of developing entrepreneurship in India.
Course Learning outcomes	<p>The course will help the entrepreneur to:</p> <ul style="list-style-type: none">• Learn the preparation of a business plan which includes getting the knowledge of developing a financial plan, production/operation plans along with understanding and learning about inventory and quality management• Understand major project planning and scheduling techniques along with their various merits• know about the start-up funding environment in India which assist entrepreneurs at their different stage of entrepreneurship• To get the experience of various successful entrepreneurs from different sectors

Unit-1 Preparation of business plan-II

Financial plan: Profit and loss, Cash flow statement, Balance sheet, sales forecast, Business ratios and cost-benefit analysis, break-even analysis; Production/operation plans: selection of location/site, Input analysis (raw materials), suppliers, quality management and inventory management

Unit-2 Project planning and scheduling techniques

Work breakdown structure (WBS); Programme Evaluation & Review Technique (PERT): Meaning, advantages and limitations; Critical Path Method (CPM): Meaning, advantages and limitations

Unit-3 Start-up funding at different stages in India

Social entrepreneurship; Types of start-up funding, Seed stage: Incubators, Government loan schemes, Angel investors and crowdfunding; Further stages: Venture Capital Funds; Banks/Non-Banking Financial Companies (NBFCs), Venture Debt Funds; Venture Capital Funds, Private Equity/Investment Firms; Government support and start-ups: SIDBI Fund of Funds Scheme, Start-up India Seed Fund Scheme

Unit-4 Analysis of successful entrepreneurs

Study and analysis of different case studies (different sectors) in Uttarakhand; factors leading to success and failures; Innovation and entrepreneurship: types and sources of innovation (A Case study analysis)

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

Madhukar Shukla. "Social Entrepreneurship in India: Quarter Idealism and a Pound of Pragmatism", Sage. 2020

Desai, Vasant. "Small-Scale Industries and Entrepreneurship", Himalaya Publishing House, Delhi, 2003.

Kaulgud, Aruna. "Entrepreneurship Management". Vikas Publishing House, Delhi. 2003

Cynthia, L. Greene. "Entrepreneurship Ideas in Action". Thomson Asia Pvt. Ltd., Singapore. 2004

EDII "Faulty and External Experts – A Hand Book for New Entrepreneurs Publishers: Entrepreneurship Development", Institute of India, Ahmadabad, 1986.

Hisrich R D, Peters M P, "Entrepreneurship" 8th Edition, Tata McGraw-Hill, 2013.

Mathew J Manimala, "Entrepreneurship theory at cross roads: paradigms and praxis" 2 nd Edition Dream tech, 2005.

Rajeev Roy, "Entrepreneurship" 2 Edition, Oxford University Press, 2011.

Vasant Desai, "The Dynamics of Entrepreneurship Development and Management", Himalaya Publication house, 2022

David H. Holt, "Entrepreneurship, New Venture Creation", Prentice Hall India, 1991.

S.S. Khanka, "Entrepreneurial Development", S. Chand & Company Ltd. New Delhi, 2007

Vasant Desai, "Small-Scale Industries and Entrepreneurship", Himalaya Publishing House, Delhi, 2003

Semester-II or IV

Skill Course: Survey methods and Data Analysis-II

Course Credits	(02) Two
Course Objective:	The course is an extension of course studied by learners in previous semester and aims to deliver the knowledge of basic concepts of sampling along with various methods of data analysis.
Course Learning outcomes	<p>The course will help the learner to:</p> <ul style="list-style-type: none">• Understand the basic concepts of sampling• learn data presentation along with Measures of central tendency, dispersion, skewness and Kurtosis.• learn the meaning, types and use of correlation and skewness.• Understand the basic concepts of probability along with probability distribution• Learn selection of adequate test statistic and procedure of Hypothesis testing

Unit-1 Sampling basic concepts

Parameter, Statistic, Estimator and estimate; Sampling and Non-sampling errors; Sampling distribution and sample error; Desirable Properties of an Estimator

Unit-2 Data presentation and Univariate analysis

Classification and Tabulation of data; Graphical presentation of data; Univariate frequency distributions. Measures of central tendency: mean, median and mode. Measures of dispersion and skewness.

Unit 3: Bivariate frequency distribution

Covariance, Karl Pearson's coefficient of Correlation, Rank correlation; Simple regression analysis

Unit-4 Normal distribution, Statistical Inference and Hypothesis testing

Normal distributions, standard normal curve; Statistical Inference: Point estimation, Confidence interval for known and unknown variance, Selection of proper test statistic; Hypothesis testing: Formulation, One and two tailed test, Type I and Type II errors.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

Elhance, D. N. and V. Elhance, 1988, Fundamentals of Statistics, Kitab Mahal, Allahabad.
Nagar, A. L. and R. K. Dass, 1983, Basic Statistics, Oxford University Press, Delhi.

Mansfield, E., 1991, Statistics for Business and Economics: Methods and Applications, W.W. Norton and Co.

Yule, G U. and M. G Kendall, 1991, An Introduction to the Theory of Statistics, Universal Books, Delhi.

. M.R. Spiegel, 2003, Theory and Problems of Probability and Statistics (Schaum Series).

Gupta, S.P. 2004. Statistical methods, S. Chand & Sons publications

Nagar, A. L. and Das, R. K., 1989, Basic Statistics: Oxford University Press, Delhi, Chapter 9.

Newbold, P., 1991, Statistics for Business and Economics (Third Edition): Prentice Hall, New Jersey.

Keller, G, and B. Warrack, 1991, Essentials of Business Statistics, Wordsworth Publishing Co., California.

Kothari, C.R. (1985) Research Methodology: Methods and Techniques, Wiley Eastern, New Delhi.

Levin, R.I. and D.S. Rubin. (1999) Statistics for Management, Prentice-Hall of India, New Delhi

Mustafi, C.K. (1981) Statistical Methods in Managerial Decisions, Macmillan, New Deb.

Plane, D.R. and E.B. Oppermann. (1986) Business and Economic Statistics, Business Publications, Inc: Plano.

Zikmund, William G. (1988) Business Research Methods, The Dryden Press, New York.

Semester-III

Core Course: Principles of Macro Economics-I

Course Credits	(06) Six
Course Objective:	The aim of the course is to acquaint the students with Macro Economic theory and concepts which will help them to understand the real-world economic situations and changes.
Course Learning outcomes	<p>The course will help learner to:</p> <ul style="list-style-type: none">• Understand major Macro Economic issues along with meaning and importance of Macro Economics• Learn National Income accounting along with understanding the different concepts of national income and its measurement methods.• Understand the concept of actual and potential GDP along with learning Consumption function and working of multiplier• Learn the objectives and tools of Fiscal policy along with impact of changes in fiscal policy• Learn functions of money along with understanding the quantity theory of money and process of credit creation• Learn the objectives and instruments of Monetary policy

1. Introduction

Concept and significance of macroeconomics; Macroeconomic issues in an economy.

2. National Income Accounting

Concepts of GDP and National Income; measurement of national income and related aggregates; nominal and real income; limitations of the GDP concept.

3. Determination of GDP

Actual and potential GDP; aggregate expenditure; consumption function, concepts of MPC, APC, MPS, APS; investment function; equilibrium GDP; autonomous expenditure; Concept of multiplier and accelerator

4. National Income and Fiscal policies

Fiscal Policy: Objectives and instruments; impact of changes in government expenditure and taxes; net exports function and equilibrium national income.

5. Money in a Modern Economy

Concept of money in a modern economy; functions of money; monetary aggregates; demand for money; quantity theory of Money-Fisher, Cambridge and Friedman theory; liquidity preference and rate of interest; money supply and credit creation; monetary policy: Objectives and instruments

Teaching Learning Process: Lectures and tutorials

Suggested Readings

1. Agarwal, V. (2010) *Macroeconomics: theory and Policy*, Dorling Kindersley (India) Pvt. Ltd., New Delhi
2. Ahuja, H.L. (2012) *Macro Economics, Theory and policy*, S. Chand and Company Ltd., New Delhi

3. Dornbusch, R. and F. Stanley (1997) *Macroeconomics*, McGraw Hill, Inc., New York
4. Errol D'souza, (2008) *Macroeconomics*, Dorling Kindersley (India) Pvt. Ltd. New Delhi
5. Jha, R. (1991) *Contemporary Macroeconomic Theory and Policy*, Wiley Eastern Ltd., New Delhi.
6. Mankiw, N.G. (2013) *Principles of Macroeconomics*, Cengage Learning India (Pvt.) Ltd., New Delhi

Semester-IV

Core Course: Principles of Macro Economics-II

Course Credits	(06) Six
Course Objective:	The aim of the course is to deliver the knowledge related to the major macro-economic variables and how they work in the economy to attain equilibrium
Course Learning outcomes	<p>The course will help learner to:</p> <ul style="list-style-type: none">• Derive IS and LM curves and to understand the simultaneous equilibrium of the goods and money market• Understand the concepts of aggregate demand and aggregate supply• Study aggregate supply in short and long run• Learn the concept of inflation and to know the existence of Philips curve and its further collapse leading to the situation of stagflation• Understand the basic concepts related to international trade• Learn Indian currency convertibility, exchange rate system and its merits and demerits and exchange control.

1. IS-LM Analysis

Derivations of the IS and LM functions; IS-LM and aggregate demand; shifts in the AD curve.

2. GDP and Price Level in Short Run and Long Run

Aggregate demand and aggregate supply; multiplier Analysis with AD curve and changes in price levels; aggregate supply in the SR and LR.

3. Inflation and Unemployment

Concept of inflation; types, causes, and effects of inflation; Inflationary gap; relationship between inflation and unemployment: Phillips Curve in short run and long run, Stagflation.

4. Balance of Payments and Exchange Rate

Balance of Trade; Balance of payments: current account and capital account; market for foreign exchange; determination of exchange rate; Fixed and flexible exchange rate system, Indian Currency convertibility, Exchange control.

Teaching Learning Process: Lectures and tutorials

Suggested Readings

Agarwal, V. (2010) *Macroeconomics: theory and Policy*, Dorling Kindersley (India) Pvt. Ltd., New Delhi

Ahuja, H.L. (2020) *Macro Economics, Theory and policy*, S. Chand and Company Ltd., New Delhi

Dornbusch, R. and F. Stanley (1997) *Macroeconomics*, McGraw Hill, Inc., New York

Errol D'souza, (2008) *Macroeconomics*, Dorling Kindersley (India) Pvt. Ltd. New Delhi

Jha, R. (1991) *Contemporary Macroeconomic Theory and Policy*, Wiley Eastern Ltd., New Delhi.

Mankiw, N.G. (2013) *Principles of Macroeconomics*, Cengage Learning India (Pvt.) Ltd., New Delhi

Semester-V

Elective Course: Economic Development and Policy in India-I

Course Credits	(06) Six
Course Objective:	This course critically reviews economic development and its determinants in India and places these against the backdrop of major policy debates in India in the post-independence period
Course Learning outcomes	<p>The course will help learner to:</p> <ul style="list-style-type: none">• Learn the concept of economic development and its various determinants along with focusing on Indian planning framework• Understand the SDGs in context of India• Learn the major factors responsible for the process of development along with examination of their role• Learn about the demographic profile of India and its impact and association with economic development• Broaden their knowledge about employment structure in India• Critically analyse the Indian economic development in terms of various macroeconomic indicators.

Unit 1. Issues in Growth, Development and Sustainability

Meaning and measurement of economic development; development paradigm, dimensions and determinants of growth and development; goals and strategy of Indian planning. Sustainable development goals and India.

Unit 2. Factors in Development

Resources; Natural and Human resources; Environment in economic development; Capital formation (Physical and Human); Technology; Institutions; Foreign capital and economic development, foreign investment policy, FDI, FII.

Unit 3. Population and Economic Development

Demographic profile of India: decadal growth, age composition, literacy, gender composition, rural-urban distribution; migration; population and human resource policies, population and economic development.

Unit 4. Employment

labour force and work force participation; Occupational structure in the organised and the unorganised sectors; trends of employment in public and private sector; open-under and disguised unemployment (rural and urban); employment schemes and their impact.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

1. Michael P Todaro and Stephen Smith. *Economic Development*, Pearson, 11th edition (2011)

2. Uma Kapila, *Indian Economy since Independence*, Academic Foundation, 19th edition (2009).
3. United Nations Development Programme, *Human Development Report 2018 to 2021*.
4. Government of India, *Economic Survey* (latest)
5. Government of India, 12th *Five Year Plan* (latest)
6. Government of India, *Finance Commission Report* (latest)
7. World bank, *World Development Report*, latest edition.
8. NITI Aayog.

Semester-V

Elective Course: Money and Banking

Course Credits	(06) Six
Course Objective:	The objective of the course is to help the learner understand the theory and functioning of the monetary and financial sectors of the economy along with domain and tools of monetary policy.
Course Learning outcomes	<p>The course will help learner to:</p> <ul style="list-style-type: none">• Understand the concept of money and determination of money supply• Get knowledge of financial markets institutions and various issues faced in it due to lack of information and other issues• Understand the concept and theories of interest rate determination• Learn the role of central bank along with working of monetary policy.• Get exposure to current monetary policy in India

Unit 1. Money

Concept, functions, measurement; theories of money supply determination.

Unit 2. Financial Institutions, Markets, Instruments and Financial Innovations

- a. Role of financial markets and institutions; problem of asymmetric information – adverse selection and moral hazard; financial crises.
- b. Money and capital markets: organization, structure and reforms in India; role of financial derivatives and other innovations.

Unit 3. Interest Rates

Determination; sources of interest rate differentials; theories of term structure of interest rates; interest rates in India.

Unit 4. Banking System

- a. Balance sheet and portfolio management.
- b. Indian banking system: Changing role and structure; banking sector reforms.

Unit 5. Central Banking and Monetary Policy

Functions, balance sheet; goals, targets, indicators and instruments of monetary control; monetary management in an open economy; current monetary policy of India.

Teaching Learning Process: Lectures and tutorials

Suggested Readings

1. F. S. Mishkin and S. G. Eakins, *Financial Markets and Institutions*, Pearson Education, 6th edition, 2009.

2. F. J. Fabozzi, F. Modigliani, F. J. Jones, M. G. Ferri, *Foundations of Financial Markets and Institutions*, Pearson Education, 3rd edition, 2009.
3. L. M. Bhole and J. Mahukud, *Financial Institutions and Markets*, Tata McGraw Hill, 5th edition, 2011.
4. M. Y. Khan, *Indian Financial System*, Tata McGraw Hill, 7th edition, 2011.
5. Various latest issues of R.B.I. Bulletins, Annual Reports, Reports on Currency and Finance and Reports of the Working Group, IMF Staff Papers.
6. S.B. Gupta, *Monetary Economics: Institutions theory and Policy*, S. Chand, New Delhi, 2016.

Semester-V

Elective Course: Environmental Economics

Course Credits	(06) Six
Course Objective:	The course objective is to assist learners to methods, policy options for sustainably managing the environment through using economic tools.
Course Learning outcomes	<p>The course will help learner to:</p> <ul style="list-style-type: none">• To understand the interactions between environment and economic activities.• Understand the major environmental issues and to adjust economic behaviour through economic institutions such as markets and incentives as well as through regulation, etc.• Understand the economic costs and benefits of climate change, along with the economic impact of actions aimed at limiting its effects.• Study the environmental valuation methods along with understanding the cost benefit analysis of environmental policies and regulations• Learn the concept of sustainable development along with measurement to aware student about the sustainable use of resources so that scarce resources will be available for future generations.

1. Introduction

Key environmental issues and problems, economic way of thinking about these problems, basic concepts from economics; Pareto optimality and market failure in the presence of externalities; property rights and other approaches.

2. The Design and Implementation of Environmental Policy

Overview, Pigouvian taxes and effluent fees, tradable permits, implementation of environmental policies in India and international experience; transboundary environmental problems; economics of climate change.

3. Environmental Valuation Methods and Applications

Valuation of non-market goods and services--theory and practice; measurement methods; cost-benefit analysis of environmental policies and regulations.

4. Sustainable Development

Concepts; measurement; perspectives from Indian experience

Teaching Learning Process: Lectures and tutorials

Suggested Readings

1. Roger Perman, Yue Ma, Michael Common, David Maddison and James McGilvray, “*Natural Resource and Environmental Economics*”, Pearson Education/Addison Wesley, 4th edition, 2011.

2. Charles Kolstad, *“Intermediate Environmental Economics”*, Oxford University Press, 2nd edition, 2010.
3. Robert N. Stavins (ed.), *“Economics of the Environment: Selected Readings”*, W.W. Norton, 6th edition, 2012.
4. Robert Solow, “An Almost Practical Step toward Sustainability,” Resources for the Future 40th anniversary lecture, 1992.
5. Kenneth Arrow et al., “Are We Consuming Too Much?” *Journal of Economic Perspectives*, 18(3): 147-172, 2004.
6. IPCC (Intergovernmental Panel on Climate Change), Fifth Assessment Report (forthcoming 2014).

Semester-V & VI

Elective Course: Field Based course

Course Credits	(04) Four
Course Objective:	The main objective of the course is to deliver practical experience and exposure to the learner about the economic and entrepreneurial activities and to further motivate them towards entrepreneurship
Course Learning outcomes	The course will help the student to: <ul style="list-style-type: none">• understand the real-world situation in a better way• to get an opportunity to meet the entrepreneurs and main economic agents to further interact with them and learn from their experiences.• The student will be able to access the working environment and problems faced by the producers/entrepreneurs

Course module:

The student will be taken to field visit to give them an exposure to meet entrepreneurs or to get an exposure of small, medium and large-scale industries. The student will be able to interact with entrepreneurs, workers, managers and other personnel of the industries. The student will have to prepare a field-based experience report at the end of the semester on the background, operations, marketing, inventory management, financial aspects, human resource etc of unit/enterprise/industry they have visited. The report will also include the experiences of the students and the things they have observed and learnt in their field visit.

Note: Student will have to bear the T.A and D.A on the field visits allocated to them by their supervisors.

Evaluation: The end term field report will be evaluated by an external expert along with an internal expert.

Teaching Learning Process: combination of lectures, Tutorial and field visit

Semester-VI

Elective Course: Economic Development and Policy in India–II

Course Credits	(06) Six
Course Objective:	The major aim of the course is to deliver sector-specific knowledge and understanding of related macroeconomic concepts and issues related to Indian Economy.
Course Learning outcomes	<p>The course will help learner to:</p> <ul style="list-style-type: none">• Understand the performance and status of various sectors of Indian Economy• To study the trends of performance of agriculture, industrial sector and foreign trade• Understand and evaluate Indian government policies related to agriculture, industrial sector and foreign trade• To study the impact of WTO on Indian economy

Unit 1. Agriculture: Policies and Performance

Growth in Indian agriculture; Production and productivity; credit; labour; markets and pricing; land reforms; regional variations; reforms in agriculture; Diversification of Indian agriculture

Unit 2. Industry: Policies and Performance

Industrialization and Economic development; Industrial development in India; Trends and pattern in Industrialization; Production trends; small scale industries; public sector; foreign investment.

Unit 3. Foreign Trade: Trends and Policies

Volume of India's foreign trade; composition of India's foreign trade; Direction of India's foreign trade; Trend in India's balance of trade and balance of payments; Issues related to India's balance of payment; Trade and EXIM policies of India; India and the World Trade Organisation.

Unit 4. Indian Development Experience

Critical evaluation of growth, inequality, unemployment; poverty and competitiveness, pre and post reforms era; savings and investment trends; mobilisation of internal and external finance; monetary and fiscal policies; centre-state financial relations; recent finance commission.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

1. Uma Kapila, *Indian Economy since Independence*, Academic Foundation, 19th edition (2009).
2. Government of India, *Economic Survey* (latest)
3. Government of India, *Five Year Plan* (latest)
4. Kaushik, Basu, the oxford companion to economics in India. Oxford University Press,
5. Mishra & Puri, *Indian Economy* 36 edition.
6. Jha, Raghbendra, 2018, *Facets of India's Economy and Her Society I & II*, Palgrave Macmillan

Semester-VI

Elective Course: Uttarakhand Economy

Course Credits	(06) Six
Course Objective:	The objective of the course is to make the learner understand Uttarakhand's economy so that they could be in a better position to learn, critically examine, do further action-oriented research or be part of positive change in the state's economy
Course Learning outcomes	<p>The course will help learner to:</p> <ul style="list-style-type: none">• Get exposure to the basic structure of Uttarakhand's economy.• Understand the socio-economic and demographic features of Uttarakhand's economy which will help the learner to understand their role in determining the growth and development of the economy.• Know about the status of basic economic indicators of Uttarakhand's economy.• Critically analyse the role of different sectors in Uttarakhand's economy along with strengths of Uttarakhand's economy and various issues associated with various sectors of the state's economy.• Understand the fiscal position of state's economy and to critically learn about the state government's policies for growth and development of its population and overall economy.

Unit-1 Structure of the Economy

Structure of Uttarakhand Economy: Features and constraints; Natural resources of the state; Development of Uttarakhand's Economy since its formation; HDI of Uttarakhand; Contribution of different sectors in Uttarakhand's economy (GSDP and employment).

Unit-2 Socio-Economic and Demographic features of Uttarakhand

Demographic features: Sex ratio; population density, literacy rate, Decadal growth of various population parameters; health indicators: birth rate, death rate, Infant mortality rate. Rural-Urban unemployment; Women labour force participation rate; Migration pattern-district wise study and factors responsible for it; Urban-Rural poverty

Unit-3 Status of major sectors of Uttarakhand Economy

Status of agriculture, Land use and cropping pattern, agriculture land holdings; Status of organic farming, Major crops of state and high potential crops ((MAPs); Problems of

agriculture in Hill regions; State government support to agriculture; Status of Industrial development in Uttarakhand: Large, Medium and Small-scale industries, State Industrial Development Corporation of Uttarakhand Limited; Status and role of tourism sector in Uttarakhand, health sector of the state

Unit-4 State of Public Finances of Uttarakhand Economy

Trends in Receipt and Expenditure of the State Government; status of Key Fiscal Ratios in state; Public Debt in the state

Unit-5 Major State Government Schemes launched after year 2015

Study of major schemes (for agriculture, employment generation, tourism, migration, women empowerment) launched by Uttarakhand Government after year 2015.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

1. Mehta, G.S., Uttarakhand Prospects of Development, Indu Publishing Company, New Delhi.
2. Agrawal J.C., and S.P. Agrawal, Uttarakhand Past Present and Future, Concept publishing Company, New Delhi.
3. Nautiyal, R. R. and Datta Rajlakshmi. 2018. *Development Dynamics of A Himalayan State* Vol. 1 & 2.
4. Mangain, R. P., & Reddy, D. N. (2015). Out-Migration From Hill Region of Uttarakhand: Issues and Policy Options. *National Institute of Rural Development and Panchayati Raj, Rajendranagar Hyderabad*, 1-27.
5. Analysis of schemes and programmes in the rural development sector and recommendations for strengthening the rural socio-economy in order to mitigate out-migration. 2019. Rural Development & Migration Commission. Uttarakhand
6. Uttarakhand Tourism Policy 2018. Department of Tourism. Government of Uttarakhand
7. Annual State Budget
8. Annual Economic Survey (Aarthik Samiksha). Directorate of Economics & Statistics. Government of Uttarakhand
9. Uttarakhand Human Development Report 2018. Directorate of Economics & Statistics. Government of Uttarakhand
10. MSME Policy 2015. Directorate of Industries. Uttarakhand
11. Draft Uttarakhand State Public Health Policy 2020. Department of medical health and family welfare. Government of Uttarakhand
12. Sixth Economic Census. Directorate of Economics & Statistics. Government of Uttarakhand

Semester-VI

Elective Course: Public Finance

Course Credits	(06) Six
Course Objective:	The course main objective is to get learner familiarise with main issues of government finances, its financial functions and issues related to it, with reference to Indian economy.
Course Learning outcomes	<p>The course will help learner to:</p> <ul style="list-style-type: none">• Analyse the fiscal functions of the government and to make learner familiarise with taxes and main issues in government expenditure• Understand the sources of finance both public and private, demonstrate the role of government to correct market failures and possible advantage of public financing• Learn the working of both monetary and fiscal policies• Critically analyse the issues in present Indian tax system• Learn various concepts of budget and deficits• Understand fiscal federalism in India and issues related to it• Critically examine the sources of state and local finances

Unit 1: Nature and scope of Public finance; private vs public finance; Tools of Normative Analysis; functions of public finance; Public Good Vs Private Good; Merit Goods; concept of Externalities; market failure; Pareto Efficiency; Equity and the Social Welfare.

Unit 2: Public Expenditure: Classification of public expenditure; Wagner's principle, Wiseman and Peacock hypothesis; Canons of public expenditure. Effects of Public expenditure; Analysis of Budget and Deficits.

Unit 3: Public revenue: classification of public revenue; Taxes: direct and Indirect; canons of taxation; Impact, incidence and shifting of taxation; Effects of Taxation. Current Issues of India's Tax System.

Unit 4: Public debt: classification of public debt; canons of public debt; public debt redemption, public debt management. Effects of public debt.

Unit 5: Issues from Indian Public Finance: Fiscal Federalism in India; Federal, State and Local Finances; Finance Commissions: State and Central.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

1. Musgrave, R.A. and P.B. Musgrave, *Public Finance in Theory and Practice*, Mc-Graw Hill, 1989.

2. Mahesh Purohit, "*Value Added Tax: Experience of India and Other Countries*", Gayatri Publications, 2007.
3. Kaushik Basu, and A. Maertens (ed.), *The Oxford Companion to Economics in India*, Oxford University Press, 2007.
4. M.M Sury, *Government Budgeting in India*, Commonwealth Publishers, 1990.
5. Shankar Acharya, "Thirty years of tax reform" in India, *Economic and Political Weekly*, May 2005.
6. Government of India, *Report of the 13th Finance Commission*.
7. *Economic Survey*, Government of India (latest).
8. *State Finances: A Study of Budgets*, *Reserve Bank of India* (latest).

U.G. Semester-VII

H/SOS/ECO/CC 701: Advanced Micro Economics-I

Course Credits	(05) Five
Course Objectives	<ul style="list-style-type: none">The objective of the course is to help the students to learn the basic and advanced concepts of Micro Economics related to the consumer behaviour, production, cost and decision making under different scenario
Course Learning outcomes (CLO)	<ul style="list-style-type: none">The course will help the student to learn the development in the demand theory along with understanding how the production and cost works in the real world. The learner will understand how decisions are taken under the condition of risk and uncertainty and how in real world we could deal with such situations in most efficient manner. The course will overall help the student to understand the economic concepts so that they could associate them with the real-world economic problems.

Unit-1 Theory of Consumer Behaviour

Indifference curve approach; Price, Income and Substitution effects (Hicks and Slutsky); Revealed preference theory; Applications of Indifference Curve Analysis; The Consumer's surplus (Marshall and Hicks). Revision of Demand theory by Hicks

Unit-2 Development in Demand theory

Linear expenditure system; Indirect utility function; Theory of consumer demand: Bandwagon effect – Veblen effect – demand and supply equilibrium; Cob-web theorem

Unit-3 Production and Costs

Law of variable proportions and Returns-to-scale; Producer's equilibrium; Production functions: Cobb-Douglas and CES functions and their properties. Cost: Cost Functions – short run and long run costs; Average and Marginal Costs; Theory of Long Run costs; Modern theory of Costs

Unit-4 Decision under Risk and Uncertainty

ST. Petersburg paradox and Bernoulli's Hypothesis; Utility theory and attitude towards risk; Risk aversion and Insurance; Friedman-Savage Hypothesis; Markowitz Hypotheses; Risk-return trade-off and choice of a portfolio; Linear Programming

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

- Ahuja H.L. (2024) *Advanced Economic Theory: Microeconomic Analysis*, Latest Edition, S. Chand and Company Ltd. New Delhi
- Case, Karl E., Ray C. Fair and Sharon E. Oster (2013) *Principles of Economics*, (11th Edition), Prentice Hall of India, New Delhi
- Koutsoyiannis, A. (1990) *Modern Microeconomics*, Macmillan Press Ltd., London
- Layard, P.R.G. and A. W. Walters (1978) *Microeconomic Theory*, McGraw Hill, New York
- Lipsey, R.G. and K.A. Chrystal (2004) *Principles of Economics*, (9th Edition), Oxford University Press, New Delhi

15. Perloff, Jeffrey M. (2001) *Micro Economics*, Addison Wesley Longman Pvt. Ltd., New Delhi
16. Sen, A. (1999) *Microeconomics Theory and Applications*, Oxford University Press, New Delhi
17. Stigler, G. (1996) *Theory of Price*, (4th Edition), Prentice Hall of India, New Delhi
18. Varian, H. (2000) *Microeconomic Analysis*, W. W. Norton, New York

H/SOS/ECO/CC 702 Advanced Macro Economics-I

Course Credits	(05) Five
Course Objectives	<ul style="list-style-type: none"> The objective of the course is to help the students to learn the advanced concepts of Macro Economics related to the theories related to the different economic situations along with helping the learners to understand the concept of open economy macroeconomy.
Course Learning outcomes (CLO)	<ul style="list-style-type: none"> This course will enable students to understand various aggregate economy concepts and analyze the functioning of global economy. They will gain insights into the key factors influencing economic policies. Additionally, students will develop an understanding of national income determinations and open economy macroeconomy, learning how this knowledge contributes to making efficient economic decisions.

Unit 1: Classical and Keynesian Economics

Classical Doctrine; Say's Law of Market-wage price flexibility, Classical theory of employment; Keynes Theory of Income and Employment, Macro-economic equilibrium: AS-AD model- with variable prices.

Unit2: Monetarism

Main features of Monetarism; Monetarist approaches to inflation; Structuralist theory of inflation; Okun's Law, Philips curve analysis – Short run and long run Philips curve; NAIRU; natural rate of unemployment; Tobin's modified Philips curve and policies to control inflation. Supply-side Economics.

Unit 3: New Classical and New Keynesian Economics

Main features and comparison of New Classical and New Keynesian Economics; The new classical macroeconomic approach-Rational expectations-: Meaning and policy implications- Monetary, Fiscal Policy and Business Cycle. New Keynesian Models: Mankiw's New Keynesian Model, Price adjustment and coordination failure.

Unit 4: Behavioural Economics

Introduction to Behavioural Economics and it's difference between Traditional Economics; Theory of 'Nudge', Practical implications and case studies of 'Nudge'; Theory of 'Commons' and its Policy implications.

Teaching Learning Process: Lectures and tutorials**Suggested Readings:**

1. Mankiw, N. G. (2015), Macroeconomics, 5th Indian Edition, Worth Publishers / Cengage India.
2. Dornbusch, R., S. Fischer, and R. Startz (2018), Macroeconomics, 12th Edition, Tata McGraw-Hill.
3. Blanchard, O. (2017), Macroeconomics, 7th Edition, Pearson India.
4. Romer, D. (2018), Advanced Macroeconomics, 5th Edition, McGraw-Hill India.
5. Froyen, R. T. (2013), Macroeconomics: Theories and Policies, 10th Edition, Pearson India.

H/SOS/ECO/CC 703 Quantitative Methods

Course Credits	(05) Five
Course Objectives	The objective of the course is to help the students to learn the basic concepts of Mathematical Economics and apply the quantitative tools and techniques in economic theories. Also to understand and develop skills of analysis using the quantitative methods for minimisation and maximisation etc.
Course Learning outcomes (CLO)	The course will help the student to understand various concepts relating to Mathematical Economics and to apply the quantitative tools and techniques for optimisation purposes. They will be able to apply different quantitative tools for decision making purposes.

Unit-1: Statistical inference: Parametric and Non-Parametric test, Assumption of Normality; Hypothesis-Meaning, types; Formulation and testing of Hypothesis; Type I and Type II errors; Chi-square tests, t-test, Z-test, and F-test.

Unit-2: Role of Mathematics in economic theory and its limitations; Differentiation: meaning and rules of simple differentiation, partial and total differentiation, concept of maxima & minima in single and multivariate functions; rules of indefinite integration and definite integration.

Unit-3: Applications of the differentiation and integration in Economics: Concavity and Convexity; Optimization of Functions; Marginal Concepts; Optimizing Economic Functions; Price Elasticity of Demand and Supply; Relationship among Total, Marginal and Average Concepts.

Unit-4: Matrix and Determinants: meaning and types; Simple operations on matrices; Basic properties of determinants, Solution of simultaneous equations with determinant method.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

1. Allen, R.G.D. (1974), Mathematical Analysis for Economists, Macmillan Press and ELBS, London.
2. Chiang, A.C. (1986), Fundamental Methods of Mathematical Economics, McGraw Hill, New York.
3. Gupta, S.C. (1993), Fundamentals of Applied Statistics, S. Chand & Sons, New Delhi.
4. Handry, A.T. (1999), Operations Research, Prentice Hall of India, New Delhi.
5. Monga, G.S. (1972), Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi.
6. Speigal, M.R. (1992), Theory and Problems of Statistics, McGraw Hill Book Co., London.
7. Taha, H.A. (1997), Operations Research: An Introduction (6th Edition), Prentice Hall of India Pvt. Ltd., New Delhi.
8. Yamane, Taro (1975), Mathematics for Economists, Prentice Hall of India, New Delhi.

H/SOS/ECO/EC/705 (a) Financial Literacy, Investment and stock markets

Course Credits	(04) Four
Course Objectives	The objective of the course is to equip learners with the essential skills to make informed financial and investment decisions, ensuring financial security and wealth creation.
Course Learning outcomes (CLO)	The course will help the student to understanding of fundamental financial concepts, investment strategies, and stock market mechanisms. They will gain proficiency in managing personal finances, budgeting, saving, and understanding the impact of financial decisions on life. They will understand the structure and functioning of the stock market, including primary and secondary markets, stock exchanges, mutual funds, and different financial instruments. Furthermore, students will analyse macroeconomic factors affecting the stock market, comprehend the correlation between economic indicators and market movements, and assess the impact of global economic trends on the Indian stock market. This course will equip learners with the essential skills to make informed financial and investment decisions, ensuring financial security and wealth creation.

Unit-1 Financial Literacy

Meaning and Importance of Financial literacy; Basics of Money Management; Impact of Financial Decisions on Life; Identifying Financial Goals: Short-Term vs. Long-Term; How to Creating Personal Budget; Importance of Saving and Emergency Funds; Rules of Budgeting; banking and Digital payments; Credit Score; Importance of Managing debt; Insurance for financial security; Income tax slabs and exemptions available under present financial year income tax structure; Time Value of Money; LTCG and STCG tax in India

Unit-2 Investment and Stock Market

Importance of Investment; Difference between Saving and investment; power of compounding; Risk in investing: Factors determining the risk of investment in secondary market, Measuring Volatility through standard deviation, India Volatility Index, Beta; Determinants of rate of return; Risk and return relationship; calculation and usage of Reward to Risk Ratio (RRR); Key features of portfolio management, The choice of an investment portfolio

Unit-3 Basics of Stock Market

Primary and Secondary market- IPO and Stock market; Working of stock market- stock exchanges, stock brokers, depositories; types of instruments available in stock market; different categories of stocks; Stock market indexes; Nifty 50, Bank Nifty etc Exchange traded funds; contract notes; GTD (good till date/day/time) in stock market; Mutual funds: Meaning, types and identifying a good mutual fund

Unit-4 Macro-Economic Analysis and stock market

Association of Economic status of the country and stock markets; Understanding the correlation of economic parameters and stock market: GDP, IIP, Inflation, CRR, Unemployment, Budget, Monsoon, Demographic factors etc; Understanding the impact of International economic

issues/parameters and their impact on Indian stock market; impact of international stock market on Indian stock market

(Students will have to do an analysis of any four major economic events which have huge impact on the Nifty 50 index)

Suggested Readings

1. Halan, M. (2018). *Let's talk money: You've worked hard for it, now make it work for you*. HarperCollins India.
2. Lamba, A. (2019). *Financial affairs of the common man: Master the art of personal finance management*. Penguin Books.
3. Subramanyam, P. V. (2014). *Retire rich: Invest ₹40 a day*. TV18 Broadcast Ltd.
4. Kumar, A. (2017). *The richest engineer: The story of a young engineer who becomes a millionaire*. Notion Press.
5. Subramanyam, P. V., & Pattabiraman, M. (2016). *You can get rich too: With goal-based investing*. TV18 Broadcast Ltd.
6. Kiyosaki, R. T. (1997). *Rich dad poor dad: What the rich teach their kids about money*.
7. Clason, G. S. (1926). *The richest man in Babylon*. Penguin Books.
8. Ramsey, D. (2003). *The total money makeover: A proven plan for financial fitness*. Thomas Nelson.
9. Robin, V., & Dominguez, J. (1992). *Your money or your life: Transforming your relationship with money and achieving financial independence*. Penguin Books.
10. Gala, J., & Gala, A. (2020). *Guide to Indian stock market*. Buzzingstock Publishing House.
11. Kejriwal, A. (2022). *Fundamental analysis for investors*. Vision Books.
12. Graham, B. (2006). *The intelligent investor: The definitive book on value investing*. HarperBusiness Essentials.
13. O'Neil, W. J. (2009). *How to make money in stocks: A winning system in good times and bad* (4th ed.). McGraw-Hill Education.
14. Pring, M. J. (2002). *Technical analysis explained: The successful investor's guide to spotting investment trends and turning points* (4th ed.). McGraw-Hill Education.
15. Wyss, B. O. (2001). *Fundamentals of the stock market*. McGraw-Hill Education.
16. Murphy, J. J. (1999). *Technical analysis of the financial markets: A comprehensive guide to trading methods and applications*. New York Institute of Finance.

H/SOS/ECO/EC/705 (b) Mathematical Economics-I

Swayam Course

https://onlinecourses.swayam2.ac.in/cec25_mg20

H/SOS/ECO/EC/705 (c) Indian Financial System-1

Course Credits	(04) Four
Course Objectives	The aim of the course is to help the students understand the structure, components, and functioning of the Indian financial system with a special emphasis on financial markets, banking institutions, and regulatory frameworks that govern the system.
Course Learning outcomes (CLO)	The course will help students gain comprehensive knowledge about the evolution and current state of the Indian financial system. Learners will understand the role and functions of key financial institutions, markets, and regulatory bodies. Students will develop analytical skills to evaluate financial instruments, banking operations, and monetary policies in the Indian context. This knowledge will enable them to connect theoretical concepts with real-world financial scenarios and prepare them for careers in banking, financial services, and regulatory bodies.

Unit-1 Introduction to Indian Financial System

Structure and components of the Indian financial system; Financial intermediation; Financial deepening and financial inclusion; Role of finance in economic development; Digital transformation of the financial system.

Unit-2 Financial Markets in India

Money market: Structure, instruments, and operations; Capital market: Primary and secondary markets; Government securities market; Corporate debt market; Derivatives market; Foreign exchange market; Integration of financial markets

Unit-3 Banking System in India

Meaning and Functions of Commercial Banks, Regional Rural Banks, Cooperative Bank, Small Finance Banks and Payment Banks; Priority sector lending; non-performing assets; Insolvency and Bankruptcy code 2016; Financial technology in banking.

Unit-4 Reserve Bank of India and Monetary Policy

Functions of RBI; Monetary policy meaning, instruments and objectives; inflation targeting framework. Monetary Policy Committee (MPC)-role and function.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

1. Bhole, L.M. and Mahakud, J. (2017) **Financial Institutions and Markets: Structure, Growth and Innovations**, McGraw Hill Education, New Delhi
2. Khan, M.Y. (2018) **Indian Financial System**, McGraw Hill Education, New Delhi
3. Machiraju, H.R. (2020) **Indian Financial System**, Vikas Publishing House, New Delhi
4. Pathak, Bharati V. (2021) **The Indian Financial System: Markets, Institutions and Services**, Pearson Education, New Delhi
5. Srivastava, R.M. and Nigam, D. (2016) **Financial Markets and Institutions**, Himalaya Publishing House, Mumbai
6. Machiraju, H.R. (2018) **Working of Stock Exchanges in India**, New Age International Publishers, New Delhi
7. Report on Currency and Finance (Latest), Reserve Bank of India, Mumbai
8. Report on Trend and Progress of Banking in India (Latest), Reserve Bank of India, Mumbai
9. Annual Report (Latest), Securities and Exchange Board of India, Mumbai

H/SOS/ECO/EC/705 (d) Regional Planning and Development

Course Credits	(04) Four
Course Objectives	The objective of this course is to provide a comprehensive understanding of regional economics, planning approaches, and development theories while analysing regional disparities and policies. It aims to equip students with the knowledge of sustainable regional planning strategies, governance frameworks, and contemporary development programs, with a special focus on India, including Uttarakhand.
Course Learning outcomes (CLO)	By the end of this course, students will develop a strong foundation in regional economics, planning approaches, and development theories. They will be able to differentiate between regional and national economics, understand various types of regions, and assess factors influencing regional development. Students will gain proficiency in analyzing regional disparities using economic indicators and quantitative methods. They will also explore traditional and modern approaches to regional planning, including participatory and sustainable strategies. Additionally, students will critically evaluate India's regional development policies, governance frameworks, and special initiatives, with a focus on addressing regional imbalances and promoting sustainable growth.

Unit- 1: Regional Economics and Concept of Region

Definition and scope of regional economics; Importance of regional economic analysis, Differences between regional and national economics; Differences between regional and urban planning Meaning and characteristics of a region, Types of regions in planning; Factors Influencing Regional Development; Measurement of Regional Disparities: Indicators of regional economic disparities; Methods to measure regional inequalities.

Unit – 2: Methods and Approaches to Regional Planning

Traditional Approaches to Regional Planning: Sectoral Planning Approach, Spatial Planning Approach, Integrated Planning Approach; Participatory and Sustainable Planning Approaches: Bottom-Up and Community-Based Planning, Public-Private Partnerships (PPP), Sustainable Regional Development Models, Resilience Planning and Climate Adaptation Strategies, Tools and Techniques in Regional Planning: Gini Coefficient and Theil Index, GIS, Remote Sensing and Scalo-gram techniques.

Unit – III: Regional Planning and Development Theories

Growth pole theory; Central Place theory, Core-Periphery Model, Cumulative Causation Theory, Location Theory, Dependency Theory, Endogenous Growth Theory, Territorial Development Model.

Unit – IV Regional Development Policies and Programs

Decentralized Planning and Governance- Panchayati Raj System in India; Special Economic Zones (SEZs) and Industrial Corridors; Special Regional Planning Initiatives: Special Economic Zones (SEZs) and their impact, Backward Region Grant Fund (BRGF), Aspirational Districts Programme (ADP), Tribal Area Development Programs, Hill Area Development Program (HADP) and Desert Development Program (DDP), Vibrant villages programme; Rural development programs: PURA, RURBAN; Challenges in Regional Planning in India.

Suggested Readings:

1. Christaller, W. (1933). *Central places in Southern Germany*. Prentice Hall (English Translation, 1966).
2. Friedmann, J., & Alonso, W. (Eds.). (1975). *Regional policy: Readings in theory and applications*. MIT Press.
3. Fujita, M., Krugman, P., & Venables, A. J. (1999). *The spatial economy: Cities, regions, and international trade*. MIT Press.
4. GIS Development. (2007). *Geoinformatics for regional development: Issues and applications*. GIS Development.
5. Government of India. (2005). *Special Economic Zones (SEZ) in India: Policies, performance, and challenges*. Ministry of Commerce and Industry.
6. Hall, P. (2002). *Urban and regional planning (4th ed.)*. Routledge.
7. Hall, P., & Pain, K. (2006). *The polycentric metropolis: Learning from mega-city regions in Europe*. Earthscan.
8. Harris, C. D. (1954). *The market as a factor in the localization of industry in the United States*. *Annals of the Association of American Geographers*, 44(4), 315-348.
9. Hirschman, A. O. (1958). *The strategy of economic development*. Yale University Press.
10. Isard, W. (1975). *Introduction to regional science*. Prentice Hall.
11. McKee, R., Dean, J. M., & Leahy, W. H. (1970). *Regional economics: Theory and practice*. Free Press.
12. Mishra, R. P., Sundaram, K. V., & Others (Eds.). (1975). *Regional planning and national development*. Vikas.
13. Myrdal, G. (1957). *Economic theory and underdeveloped regions*. Harper & Row.
14. NITI Aayog. (2018). *Aspirational districts programme: An overview*. Government of India.
15. Perroux, F. (1950). *Economic space: Theory and applications*. *The Quarterly Journal of*
16. Planning Commission. (2014). *Evaluation study of the Backward Region Grant Fund (BRGF) scheme*. Government of India.
17. Porter, M. E. (1990). *The competitive advantage of nations*. Free Press.
18. Richardson, H. W. (1969). *Elements of regional economics*. Penguin.
19. Sen, A. (1999). *Development as freedom*. Oxford University Press.
20. Singh, K., & Bhattacharya, P. (2019). *Rural development programmes in India: Strategies and implementation*. Sage Publications.
21. Smith, D. M. (1971). *Industrial location: An economic geographical analysis*. John Wiley & Sons.

H/SOS/ECO/MMD/706 Research Methodology

Course Credits	(05) Five
Course Objectives	This course aims at empowering students with knowledge and ability to generate requisite information for decision making through carrying out effective research. Students will learn various tools and techniques necessary to create knowledge and information that will aid in decision making.
Course Learning outcomes (CLO)	This course will help students to understand basics of research i.e., research, research types, approaches, concepts etc. This will also help to learn and carry out effective research using exploratory, descriptive and experimental designs Also to develop an acumen to prepare an appropriate research design for given research.

Unit-1: Research: Meaning, Objectives, Importance and Types; Research process; Research Problem, Research Design and Sampling Design; Sampling Methods.

Unit-2: Methods for collection of Primary Data; Sources of Secondary Data; Drafting of Questionnaires and Schedules; Measurement and Scaling.

Unit-3: Hypothesis: Meaning, Formulation and Testing; Z, t, F and Chi-square tests.

Unit-4: Data Processing, Interpretation and Report writing, Basic use of MS Office in Research.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

1. Business Research Methods, Donald R Cooper, McGraw Hill, New Delhi
2. Research Methodology, Cauvery.R, Sudhanayak U.K, Girija.M and Meenakshi.R, S.Chand & Company Ltd, New Delhi.
3. Research Methodology: A Guide for Researchers in Management and Social Sciences, Bill Taylor, Gautam Sinha, Taposh Ghoshal, Prentice-Hall of India Private Limited, New Delhi
4. Research Methodology: Methods and Techniques, C.R. Kothari, New Age International, New Delhi
5. Statistical Methods, 2004, S.P. Gupta, S.Chand publication, New Delhi Statistical Methods, D.R. S.P. Gupta, Sultan Chand & Sons, New Delhi Statistics for Management, Levin and Rubin, Asian Publishing House, New Delhi

H/SOS/ECO/MMD/707 (a) Intellectual Property Rights

Course Credits	(04) Four
Course Objectives	The course aims to provide a comprehensive understanding of Intellectual Property Rights (IPR), covering their origin, significance, and various forms. It will explore their international frameworks, legal aspects and enforcement mechanisms. Additionally, the course will equip the students with the knowledge to navigate intellectual property challenges in different industries.
Course Learning outcomes (CLO)	Upon completing this course, students will gain a comprehensive understanding of Intellectual Property Rights (IPR), including patents, copyrights, trademarks, and trade secrets. They will be able to analyze international frameworks like TRIPS and WTO, understand patentability criteria, registration procedures, infringement issues, and legal remedies. Additionally, students will develop knowledge of copyright laws, piracy concerns, and trademark regulations, including domain names in cyberspace. The course will equip learners with practical insights into IPR protection and enforcement, preparing them for legal and business challenges related to intellectual property.

Unit-1 Introduction: Meaning of property, Origin, Nature, Meaning of IPR; Introduction to TRIPS and WTO; Kinds of Intellectual property rights—Copy Right, Patent, Trade Mark, Trade Secret and trade dress, Design, Layout Design, Geographical Indication, Plant Varieties and Traditional Knowledge.

Unit-2 Patent Rights: Origin, Meaning of Patent, Types, Inventions which are not patentable, Registration Procedure, Rights and Duties of Patentee, Assignment and licence, Restoration of lapsed Patents, Surrender and Revocation of Patents, Infringement, Remedies & Penalties.

Unit-3 Copy Right: Origin, Definition & Types of Copy Right, Registration procedure, Assignment & licence, Terms of Copy Right, Piracy, Infringement, Remedies, Copy rights with special reference to software.

Unit-4 Trade Marks: Origin, Meaning & Nature of Trade Marks, Types, Registration of Trade Marks, Infringement & Remedies, Offences relating to Trade Marks, Passing Off, Penalties. Domain Names on cyber space

Suggested Readings

1. Bainbridge, D. (2018). Intellectual Property. Pearson Education.
2. Cornish, W., Llewelyn, D., & Aplin, T. (2019). Intellectual Property: Patents, Copyright, Trade Marks and Allied Rights (9th ed.). Sweet & Maxwell.
3. Gopalakrishnan, N. S. (2012). Intellectual Property and Competitive Strategies in the 21st Century. National Law School of India University.
4. Ganguli, P. (2001). Intellectual Property Rights: Unleashing the Knowledge Economy. Tata McGraw Hill.
5. WIPO. (2004). WIPO Intellectual Property Handbook: Policy, Law and Use. World Intellectual Property Organization.

6. Maskus, K. E. (2000). Intellectual Property Rights in the Global Economy. Peterson Institute for International Economics.
7. Dutfield, G., & Suthersanen, U. (2008). Global Intellectual Property Law. Edward Elgar Publishing.
8. Narayanan, P. (2018). Patent Law. Eastern Law House.
9. Bently, L., & Sherman, B. (2014). Intellectual Property Law (4th ed.). Oxford University Press.
10. Basheer, S., & Reddy, P. (2015). Intellectual Property Law in India. Oxford University Press.
11. Moorthy, V. (2017). Cyber Law & Intellectual Property Rights. LexisNexis.
12. Stobbs, G. (2011). Software Patents. Aspen Publishers.4. Law of Intellectual Property, Asian Law House, Dr.S.R. Myneni.

H/SOS/ECO/MMD/707 (b) Uttarakhand Economy

Course Credits	(04) Four
Course Objectives	The course aims to analyze regional disparities, sectoral dynamics, migration patterns, and government initiatives in Uttarakhand, focusing on economic development, sustainability, and policy interventions.
Course Learning outcomes (CLO)	By completing this course, students will understand regional disparities, sectoral developments, and socio-economic challenges in Uttarakhand. They will analyze migration patterns, the impact of hydro projects, natural disasters, and gender issues. Additionally, they will evaluate government initiatives aimed at sustainable development, agriculture, tourism, and industrial growth, fostering a comprehensive understanding of regional planning and policy interventions.

Unit-1 Regional Disparities and Area Deprivation issues

Regional disparities between Rural and Urban regions, regional disparities between hill and plain regions, regional disparities between hill states (Himachal Pradesh and Uttarakhand); impact of regional disparities; Government programs designed mainly for resolving the issues of regional disparities.

Unit-2 Sectoral Analysis of Uttarakhand Economy

Agriculture in Uttarakhand: Role and status of agriculture in rural and urban economy, trends in cropping and farming pattern, sustainable agricultural practices, Issues of farming pattern and input costs, problems of agriculture, role of forest in Uttarakhand economy; Secondary and Tertiary Sector: Industrial development in rural and urban economy, Tourism sector- Role, status and its significance.

Unit-3 Problems of Uttarakhand Hill Areas

Migration- Trends, patterns and factors leading to migration, impact of migration; Hydro projects and its impact on Uttarakhand economy and its sustainability; Natural disasters: causes of natural disaster and its impact; Poverty in Uttarakhand, Health Economics: health issues; Gender Issues and Uttarakhand Economy: Trends of labour force participation in Uttarakhand urban and rural economy, factors affecting female labour force participation.

Unit-4 Government initiatives

Migration Commission, HADP, Policies for agriculture development-Uttarakhand Organic Commodity Board, government initiatives for developing tourism in Uttarakhand, policies for development of industrial sector and self-employment generation; Vibrant Village programme.

Suggested readings:

Bhattacharya, B. B., & Sakthivel, S. (2004). Regional Growth and Disparity in India: A Comparison of Pre and Post-Reform Decades. *Economic and Political Weekly*, 39(10), 1071-1077.

Government of India. (2020). *Economic Survey of India*. Ministry of Finance, Government of India.

- Joshi, V., & Pant, M. (2018). Uttarakhand: Issues of Development and Sustainability. Gyan Books.
- Mishra, R. P. (2002). Regional Planning: Concepts, Techniques, Policies and Case Studies. Concept Publishing Company.
- Planning Commission. (2008). Report of the Working Group on Hill Area Development Programme (HADP) and Western Ghats Development Programme (WGDP). Government of India.
- Ramesh, J. (2007). Making Sense of Chindia: Reflections on China and India. India Research Press.
- Rawat, A. S. (2019). History of Uttarakhand: The Lost Kingdom. Kalpaz Publications.
- Sen, A., & Himanshu. (2004). Poverty and Inequality in India: Widening Disparities during the 1990s. *Economic and Political Weekly*, 39(21), 2125-2133.
- Singh, M. P. (2014). Urbanization in the Himalayas: Emerging Patterns, Issues, and Challenges. Springer.
- Singh, R. L. (1971). India: A Regional Geography. National Geographical Society of India.
- Srivastava, R. (2011). Internal Migration in India: Initiatives for Inclusion. UNESCO Policy Paper.
- Tiwari, P. C. (2008). Sustainable Development of Mountain Environment in India and Climate Change Impacts. Scientific Publishers.

Semester-VIII

H/SOS/ECO/CC 801 Advanced Micro Economics-II

Course Credits	(05) Five
Course Objectives	The objective of the course is to help the students to learn the basic and advanced concepts of Micro Economics related to the theories related to the different market conditions along with helping the learners to understand the concept of welfare and market failures
Course Learning outcomes (CLO)	This course will enable students to understand various market conditions and analyze the functioning of real-world markets. They will gain insights into the key factors influencing major business decisions. Additionally, students will develop an understanding of welfare economics and market failures, learning how this knowledge contributes to making efficient economic decisions.

Unit-1 Price and Output Determination in Markets

Perfect Competition: Equilibrium, Monopoly- Profit maximization, monopoly and social welfare: dead-weight loss; price discrimination and social welfare and dumping; Monopolistic competition: equilibrium, excess capacity.

Unit-2 Theories of the market and Firm

Oligopoly: Price Rigidity, Cartels, Cournot's and Chamberlin's Model; Game theory: Dominant Strategy, Neumann-Morgenstern theory, The Prisoners' Dilemma; Theories of the firm: Managerial-Williamson's and Baumol's Sales revenue maximisation theory; Limit Pricing- J.S Bain.

Unit-3 Welfare Economics

Concept of social welfare, Pareto optimality criterion and efficiency conditions, Kaldor-Hicks Criterion: Compensation principle, Bergson-Samuelson Social welfare function; Arrows Impossibility Theorem, Amartya Sen's Possibility Theorem.

Unit-4 Market Failures

Sources of Market failures and their implications, Externalities, Public Goods and Market failure, Information problem, Asymmetric information, Moral Hazard; Market signalling.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

1. Ahuja H.L. (2016) *Advanced Economic Theory: Microeconomic Analysis*, 20th Edition, S. Chand and Company Ltd. New Delhi
2. Case, Karl E., Ray C. Fair and Sharon E. Oster (2013) *Principles of Economics*, (11th Edition), Prentice Hall of India, New Delhi
3. Koutsoyiannis, A. (1990) *Modern Microeconomics*, Macmillan Press Ltd., London
4. Layard, P.R.G. and A. W. Walters (1978) *Microeconomic Theory*, McGraw Hill, New York
5. Lipsey, R.G. and K.A. Chrystal (2004) *Principles of Economics*, (9th Edition), Oxford University Press, New Delhi

6. Perloff, Jeffrey M. (2001) *Micro Economics*, Addison Wesley Longman Pvt. Ltd., New Delhi
7. Sen, A. (1999) *Microeconomics Theory and Applications*, Oxford University Press, New Delhi
8. Stigler, G. (1996) *Theory of Price*, (4th Edition), Prentice Hall of India, New Delhi
9. Varian, H. (2000) *Microeconomic Analysis*, W. W. Norton, New York

H/SOS/ECO/CC 802 Advanced Macro Economics-II

Course Credits	(05) Five
Course Objectives	The objective of the course is to help the students to learn the advanced concepts of Post Keynesian Macro Economics such as Monetarism, Supply Side Economics, New Classical Economics along with helping the learners to understand the Business cycle theory for stabilized economic growth.
Course Learning outcomes (CLO)	This course will enable students to understand the detailed intricates of business cycles in long run equilibrium and analyze the contributions of Post Keynesian Theories in Macroeconomic analysis. Additionally, students will develop an understanding of macroeconomics policy and stabilization strategies through IS-LM Model, learning how this knowledge contributes to making efficient economic decisions.

Unit 1: Income-Consumption and Investment Theories

Psychological law of consumption; Relative Income hypothesis; Permanent Income hypothesis; Life Cycle hypothesis; Determinants of Investment: MEC, Investment multiplier and limitations; Accelerator: concept and working; Interaction of multiplier and accelerator; Investment behavior – influence of policy measures on investment, Tobin's q theory of investment; impact of inflation on consumption and investment.

Unit-2: Neo Classical Synthesis and Interaction of Monetary and Fiscal Policy

IS-LM model: The interaction of Real and Monetary sectors of the economy – Keynesian version of the IS-LM model – Neo-classical version of the IS-LM model; Fiscal and Monetary Policy analysis in an IS-LM model; Short run and long run Aggregate Supply curve analysis.

Unit-3: Business Cycles

Business cycles: Meaning, phases and features; Theories of business cycles: Hawtrey theory, Over-investment theory, Keynes theory, Samuelson model, Schumpeter model and Hick's theory; Control of business cycles, relative effectiveness of monetary and fiscal policies. Fiscal policy and crowding out and crowding in. Real Business Cycle (RBC) theory.

Unit 4: The Open Economy

Concept of openness in goods market, factor market, and financial market; Foreign Trade Multiplier, Open Economy- Mundell-Fleming Model, Purchasing Power Parity (PPP), Interest Rate Parity (IRP) and Forex Market Efficiency, Exchange Rate Mechanisms, Interest Rate Differentials and Capital Flows, Dollar Index, Crude prices, Carry Trade and its impact.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

1. Mankiw, N. G. (2015), Macroeconomics, 5th Indian Edition, Worth Publishers / Cengage India.
2. Dornbusch, R., S. Fischer, and R. Startz (2018), Macroeconomics, 12th Edition, Tata McGraw-Hill.
3. Blanchard, O. (2017), Macroeconomics, 7th Edition, Pearson India.
4. Romer, D. (2018), Advanced Macroeconomics, 5th Edition, McGraw-Hill India.
5. Froyen, R. T. (2013), Macroeconomics: Theories and Policies, 10th Edition, Pearson India.

H/SOS/ECO/CC 803 International Economics

Course Credits	(05) Five
Course Objectives	The objective of the course is to help the students understand the fundamental concepts and theories of international trade and finance, starting from the basics and progressing to more complex aspects of global economic relationships, trade policies, exchange rates, and international monetary systems
Course Learning outcomes (CLO)	The course will enable students to comprehend the basic principles of international trade and their applications to real-world economic scenarios. Learners will develop analytical skills to evaluate the rationale for trade, trade patterns, exchange rate mechanisms, and balance of payments. Students will gain insights into the functioning of global markets, trade policies, and international financial systems. This knowledge will prepare them to understand contemporary global economic challenges and contribute to international economic policy discussions.

Unit-1 Introduction to International Trade

Meaning and significance of International Economics; Basis of International Trade; Differences between intranational and international trade; Importance of international trade in economic development; Measures of international trade: exports, imports, trade balance, and trade intensity; Globalization and changing patterns of trade; Introduction to gains from trade.

Unit-2 Theories of International Trade

Classical theories: Absolute advantage (Adam Smith), Comparative advantage (Ricardo), Reciprocal theory (J. S. Mill); Heckscher-Ohlin Theory, Leontief Paradox, Factor price equalization; Product cycle theory, Prebisch-Singer hypothesis, Stolper-Samuelson, Rybczynski Theorem.

Unit-3 Trade Policy

Free trade vs. protectionism; Arguments for and against free trade; Instruments of trade policy: Tariffs, quotas, subsidies, and non-tariff barriers; Effects of tariffs and quotas on prices, production, consumption, and welfare; Terms of trade: Concepts and measurements; Trade policy in developing vs. developed countries.

Unit-4 Balance of Payment, International Economic Institutions and Exchange Rate

Balance of payments adjustment mechanism under fixed and flexible exchange rate; Foreign exchange markets; Determination of exchange rates; Exchange rate systems: Fixed, flexible, and managed; IMF and SDR International reserves; Balance of payments adjustments Evolution of international trading system: WTO, BRICS, ASEAN, G7, G20.

Teaching-Learning Process: Lectures and tutorials

Suggested Readings:

1. Salvatore, D. (2019) International Economics, Wiley, New York
2. Krugman, P.R., Obstfeld, M. and Melitz, M.J. (2018) International Economics: Theory and Policy, Pearson Education, New Delhi
3. Carbaugh, R.J. (2019) International Economics, Cengage Learning, Boston
4. Appleyard, D.R. and Field, A.J. (2017) International Economics, McGraw Hill Education, New York
5. Sodersten, B. and Reed, G. (1994) International Economics, Palgrave Macmillan, London
6. Pugel, T.A. (2020) International Economics, McGraw Hill Education, New York

7. Sen, S. (2010) International Trade Theory and Policy: A Review of the Literature, Levy Economics Institute Working Paper No. 635
8. World Trade Organization (Latest) World Trade Report, WTO, Geneva
9. IMF (Latest) Balance of Payments Manual, International Monetary Fund, Washington

10. D.C.

H/SOS/ECO/EC/805 (a) Fundamental and Technical analysis of stocks

Course Credits	(04) Four
Course Objectives	The objective of the course is to equip students with the basic knowledge and skills to do fundamental and technical analysis for informed investment and trading decisions in the stock market.
Course Learning outcomes (CLO)	The course will help the students to develop a comprehensive understanding of stock valuation and market trends. They will learn to analyse industries, assess company fundamentals, and interpret financial statements using key ratios. Additionally, students will gain proficiency in technical analysis, including chart patterns, candlestick formations, support and resistance levels, and market phases. The course will also cover indicators like SMA, EMA, MACD, and RSI, enabling students to identify breakouts, trends, and execute informed trading decisions.

Unit-1 Fundamental Analysis: Industry Analysis and stock market

Meaning and importance of fundamental analysis; types of industries: Growth industry, cyclical industry, Defensive industry, Cyclical growth industry; Industry Life Cycle, SWOT Analysis; **Company analysis:** General Analysis- Competitive Edge of the company; Earnings of the Company and the Management;

Unit-2 Fundamental Analysis: Financial analysis

Understanding stock Balance Sheets, Income statement, Cash flow statement, financial ratios, Debt-equity ratio, profitability ratio, Valuation ratios

Unit-3 Basics of technical Analysis and Price Action

Types of charts with emphasis on Candle stick; Dow Theory: Phases of market- Accumulation phase, Markup phase, Distribution phase; Support and Resistance; Types of Candlesticks: Single Candlestick- Bullish & Bearish Marubozu, Hammer & Hanging man; Inverted hammer & Shooting star; Dragonfly Doji and Gravestone Doji; Double Candlestick- Bullish and Bearish Engulfing, Bullish and Bearish Harami; Three Candlestick- Morning and evening star

Unit-4 Indicators and chart patterns for technical analysis

Use of different time frames for Stock technical analysis; Identification and confirmation of Breakout and Breakdown; Use of Trend line, channel lines, Use of SMA, EMA, MACD, RSI, Volume based strategy

Chart patterns: Bullish: Inverted Head and Shoulder, Double bottom, Inverted Pole and Flag, Cup and handle, Bearish: Head and Shoulder, Double top, Inverted Pole and Flag rounding pattern; Others: Ascending and descending triangles breakout / breakdown; Swing trading

(Students will have to do fundamental and technical analysis of any three large cap industries listed in Nifty 50 index)

Suggested Readings

1. Halan, M. (2018). *Let's talk money: You've worked hard for it, now make it work for you*. HarperCollins India.

2. Lamba, A. (2019). *Financial affairs of the common man: Master the art of personal finance management*. Penguin Books.
3. Subramanyam, P. V. (2014). *Retire rich: Invest ₹40 a day*. TV18 Broadcast Ltd.
4. Kumar, A. (2017). *The richest engineer: The story of a young engineer who becomes a millionaire*. Notion Press.
5. Subramanyam, P. V., & Pattabiraman, M. (2016). *You can get rich too: With goal-based investing*. TV18 Broadcast Ltd.
6. Kiyosaki, R. T. (1997). *Rich dad poor dad: What the rich teach their kids about money*
7. Clason, G. S. (1926). *The richest man in Babylon*. Penguin Books.
8. Ramsey, D. (2003). *The total money makeover: A proven plan for financial fitness*. Thomas Nelson.
9. Robin, V., & Dominguez, J. (1992). *Your money or your life: Transforming your relationship with money and achieving financial independence*. Penguin Books.
10. Gala, J., & Gala, A. (2020). *Guide to Indian stock market*. Buzzingstock Publishing House.
11. Kejriwal, A. (2022). *Fundamental analysis for investors*. Vision Books.
12. Graham, B. (2006). *The intelligent investor: The definitive book on value investing*. HarperBusiness Essentials.
13. O'Neil, W. J. (2009). *How to make money in stocks: A winning system in good times and bad* (4th ed.). McGraw-Hill Education.
14. Pring, M. J. (2002). *Technical analysis explained: The successful investor's guide to spotting investment trends and turning points* (4th ed.). McGraw-Hill Education.
15. Wyss, B. O. (2001). *Fundamentals of the stock market*. McGraw-Hill Education.
16. Murphy, J. J. (1999). *Technical analysis of the financial markets: A comprehensive guide to trading methods and applications*. New York Institute of Finance.

Students may refer to NSE website for more contents: www.nseindia.com

H/SOS/ECO/EC/805 (b) Mathematical Economics-II

Course Credits	(04) Four
Course Objectives	This course introduces the learners to basic mathematical concepts, tools and techniques, and also discusses how these techniques are applied to economic analysis
Course Learning outcomes (CLO)	The students also learn to think about the appropriate mathematical tool to apply to a given economic phenomenon or process or idea. The course discusses functions of several variables, differential equations. The students also learn about linear algebra Finally, the students are exposed to multi variate optimisation.

Unit 1 Input Output Analysis

Definition of Input-Output technique, Inter-Industry analysis, Leontief Input-Output Model, Open Input-Output Model.

Unit 2 Linear Programming

Meaning and concepts of Linear Programming problem (LPP), slack, surplus, artificial variables, formulation of a LPP, general form of a LPP, standard form of a LPP, solution of a LPP: graphical and simplex method, applications of Linear Programming technique.

Unit 3 Differential Equation

First-Order Differential Equations; Second-Order Differential Equations

Unit 4 Difference Equation

Solving first order difference equation, Cobb Web Model- Dynamic stability of equilibrium.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

1. Allen, R.G.D. (1974), Mathematical Analysis for Economists, Macmillan Press and ELBS, London.
2. Chiang, A.C. (1986), Fundamental Methods of Mathematical Economics, McGraw Hill, New York.
3. Gupta, S.C. (1993), Fundamentals of Applied Statistics, S. Chand & Sons, New Delhi.
4. Handry, A.T. (1999), Operations Research, Prentice Hall of India, New Delhi.
5. Monga, G.S. (1972), Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi.
6. Speigal, M.R. (1992), Theory and Problems of Statistics, McGraw Hill Book Co., London.
7. Taha, H.A. (1997), Operations Research: An Introduction (6th Edition), Prentice Hall of India Pvt. Ltd., New Delhi.
8. Yamane, Taro (1975), Mathematics for Economists, Prentice Hall of India, New Delhi.

H/SOS/ECO/EC/805 (c) Indian Financial System-II

Course Credits	(04) Four
Course Objectives	The objective of the course is to help students develop advanced understanding of financial institutions, risk management, regulatory frameworks, and contemporary issues in the Indian financial system, along with providing insights into international financial linkages and fintech developments
Course Learning outcomes (CLO)	This course will enable students to critically analyze the operations and regulations of various non-banking financial institutions and regulatory bodies in India. They will gain expertise in understanding financial risks, their management techniques, and governance issues. Students will develop the ability to evaluate India's position in the global financial system and assess the impact of financial technology innovations. Additionally, they will learn to apply theoretical knowledge to address real-world financial challenges and policy issues in the Indian context.

Unit-1 Non-Banking Financial Institutions

Meaning and importance of NBFCs; Development Financial Institutions; Insurance companies; Pension funds; Mutual funds; Non-Banking Financial Companies (NBFCs); Microfinance Institutions; Asset Reconstruction Companies; Credit Rating Agencies; Operations, regulations, and challenges

Unit-2 Financial Regulation and Governance

Financial sector regulators and their functions: SEBI, IRDAI, PFRDA, NSDL; Financial sector legislation; Corporate governance in financial institutions; Financial market infrastructure; Financial stability and systemic risk; Financial sector reforms and liberalization post 1991.

Unit-3 Risk Management in Financial Institutions

Types of financial risks: Credit risk, market risk, operational risk, liquidity risk; Risk management frameworks; Asset-liability management; Capital adequacy norms; Basel norms and their implementation in India; Stress testing; Financial contagion. India and global financial market - role, impact, merits and demerits of FIIs and FDI; Financial crimes and their prevention.

Unit-4 Contemporary Issues in Indian Financial System

Financial technology (Fintech) and digital finance; Financial inclusion-meaning and significance; Financial Inclusion drives in India from year 2000- strategies and challenges; Sustainable finance and ESG investments; Recent innovations in Indian financial system- SPV and SPE.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

1. Bhole, L.M. and Mahakud, J. (2017) Financial Institutions and Markets: Structure, Growth and Innovations, McGraw Hill Education, New Delhi
2. Financial Stability Report (Latest), Reserve Bank of India, Mumbai
3. Ghosh, S. (2019) Indian Banking and Financial System, McGraw Hill Education, New Delhi
4. Khan, M.Y. (2018) Indian Financial System, McGraw Hill Education, New Delhi
5. Machiraju, H.R. (2020) Indian Financial System, Vikas Publishing House, New Delhi
6. Mohan, R. and Ray, P. (2019) Indian Financial Sector: Structure, Trends and Turns, Palgrave Macmillan, Singapore

7. Nayak, S. (2018) Inclusive Finance India Report, Access Development Services, New Delhi
8. Pathak, Bharati V. (2021) The Indian Financial System: Markets, Institutions and Services, Pearson Education, New Delhi

H/SOS/ECO/EC/805 (d) Sectoral Dynamics of Uttarakhand

Course Credits	(04) Four
Course Objectives	The course aims to analyze regional disparities, sectoral dynamics, migration patterns, and government initiatives in Uttarakhand, focusing on economic development, sustainability, and policy interventions.
Course Learning outcomes (CLO)	By completing this course, students will understand regional disparities, sectoral developments, and socio-economic challenges in Uttarakhand. They will analyze migration patterns, the impact of hydro projects, natural disasters, and gender issues. Additionally, they will evaluate government initiatives aimed at sustainable development, agriculture, tourism, and industrial growth, fostering a comprehensive understanding of regional planning and policy interventions.

Unit- 1: Development Paradigm of Uttarakhand: Genesis of State Formation, Main features of Uttarakhand Economy, Macroeconomic Indicators– GSDP, contribution of agriculture, industry and services in GSDP, per capita income. Economic growth and Sustainable Development. Regional disparities between Rural and Urban regions, regional disparities between hill and plain regions. Out migration

Unit -2: Social Sector Development: Demographic features, educational development-primary, secondary and higher education. Health and other basic amenities. Labour force participation and skill development, Gender issues in Uttarakhand

Unit- 3: Agriculture Industry and Service Sector: Agriculture- major crops, production and productivity, Organic and Natural Farming, Horticulture Development, Medicinal and Aromatic plants. Industrial development, Industrial Policies, MSMES, handloom, handicraft and micro enterprises

Unit-4 Infrastructure and Resources: Urban development, Infrastructure development: Roads, bridges and Banking institutions. Water resource, Power Sector of Uttarakhand. Forest resource- green cover, Main rivers, Glaciers, Mineral resources, Tourism, **Hospitality and wellness.** Environment, ecology, climate change and prospects for green economy

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

1. Govt. of India, Planning Commission 2013. Uttarakhand Development Report
2. Directorate of Economics and Statistics, Govt of Uttarakhand, Uttarakhand Statistical Diary, Various Issues
3. Directorate of Economics and Statistics, Govt of Uttarakhand, Uttarakhand At A Glance, Various Issues
4. Directorate of Economics and Statistics, Govt of Uttarakhand, Uttarakhand Annual Budget 2024,2023,2022
5. Economic Survey published by Planning Department, Uttarakhand
6. Sati, M.C: Uttarakhand Statehood: Dimensions of Development, Indus Publication New Delhi
7. Sati, M.C: Diversity and Development of Himalayan Economy
8. Development Dynamics of A Himalayan State : Volume 1 and Volume 2 , R R Nautiyal and Rajlakshmi Datta, Kalpaz Publications, Gyan Books Pvt Ltd, ISBN 978-93-86397-34-8
9. Uttarakhand Year Book: Winsar Publishing Company

H/SOS/ECO/MMD/806 Project Work

Course Title: Project Work

Credits: 5 (Five)

Maximum Marks: 100

Note: Student undergoing Project work have to go on a seven days field study. The field study will aim at studying the major issues and problems related to different sectors of economy of India and Uttarakhand. The study will largely be based on the collection of primary data and observation. At the end of the field study the student have to submit a field study project report to the department.

Method of Evaluation:

Performance of student in project work will be evaluated on the following three basis:

<i>(a) Project Report (By external and internal experts)</i>	<i>60 Marks</i>
<i>(b) Viva-voce (By external expert)</i>	<i>20 Marks</i>
<i>(c) Periodical presentation (by supervisor-internal expert)</i>	<i>20 Marks</i>
<i>Total:</i>	<i>100 Marks</i>

Note: Name of the external expert will be decided by the University.

H/SOS/ECO/MMD/807 (a) Detailed Project Report for Enterprise

Course Credits	(04) Four
Course Objectives	The objective of this course is to equip students with the knowledge and skills required to develop a Detailed Project Report (DPR) by understanding business planning processes, market analysis, technological and operational considerations, financial assessments, and legal/ethical aspects essential for evaluating and implementing a successful enterprise.
Course Learning outcomes (CLO)	By completing this course, students will gain the ability to develop a Detailed Project Report (DPR), conduct market research, analyze product planning and marketing strategies, assess technological and operational aspects, and evaluate financial feasibility using tools like NPV and IRR. They will also understand the socio-economic and legal/ethical considerations involved in starting and managing an enterprise.

Unit1 Introduction: Meaning, objectives and significance of DPR, Business planning process for creating a new plan, Steps in writing a DPR.

Unit 2 Market Planning: Market research, Product –Categories of Products/Services; Product Planning and Policies; Branding and Packaging; Product life cycle; Product Positioning. marketing mix, Successful Marketing Plan.

Unit 3- Equipment and Process Technology: overview, choice of Technology and Appraisal; Location of the Project, Layout of the Project, Material Balance of the Project. Environment Impact, Assessment of Operations-capacity planning, plant organisation, personnel, operations planning vendor management, quality strategy, operations costing, management information system, safety; Commercial Aspects.

Unit 4 Financial Aspects: Profit & Loss statement, Balance Sheet, Cash Flows statement, Cost Analysis, NPV, IRR, Socio-economic Aspects, Legal/Ethical issues to consider when starting an enterprise, Evaluation of DPR.

Suggested Readings:

1. Hisrich, R. D., Peters, M. P., & Shepherd, D. A. (2020). Entrepreneurship. McGraw-Hill Education.
2. Kotler, P., & Keller, K. L. (2019). Marketing management (15th ed.). Pearson.
3. Osterwalder, A., & Pigneur, Y. (2010). Business model generation: A handbook for visionaries, game changers, and challengers. Wiley.
4. Gopinath, C. (2021). Strategic business planning for accountants: Methods, tools, and case studies. Routledge.
5. Koller, T., Goedhart, M., & Wessels, D. (2020). Valuation: Measuring and managing the value of companies (7th ed.). McKinsey & Company, Inc., & Wiley.
6. Iyer, P. (2019). Project management and business planning. Himalaya Publishing House.
7. Meredith, J. R., Shafer, S. M., & Mantel, S. J. (2020). Project management: A strategic managerial approach (11th ed.). Wiley.
8. Pandey, I. M. (2021). Financial management (12th ed.). Vikas Publishing House.
9. Kalyani, D. (2018). Detailed project report (DPR) preparation: A step-by-step approach. Global Vision Publishing.
10. Lock, D. (2020). Project management (10th ed.). Routledge.
11. Porter, M. E. (1998). Competitive strategy: Techniques for analyzing industries and competitors. Free Press.

12. Schaper, M. (2016). Entrepreneurship and small business (4th ed.). Wiley.

**H/SOS/ECO/MMD/806 (b) Indian Economy: Policy and Environment
(Swayam Course)**

Credit-(04) Four

Swayam Course: **Indian Economy: Policy and Environment**

[Indian Economy: Policy and Environment - Course](#)

https://onlinecourses.swayam2.ac.in/nou25_hs32/preview

Fourth Year (VII & VIII Semester)
B.A (Honours with Research) Economics

VII Semester

HR/SOS/ECO/CC/711 Advanced Economic Theory-I

Course Credits	(05) Five
Course Objectives	The objective of the course is to help the students to learn the advanced concepts of Economics related to the theories of Demand, Production, Cost, and Decision under Risk and Uncertainty. The course aims to help the learners to understand the concept of Keynesian, Monetarist, New Classical, New Keynesian and Behavioural Economics.
Course Learning outcomes (CLO)	This course will enable students to understand various advanced concepts of Revealed Preference Theory, Cobb-Douglas, CES function and analyze the Macroeconomic equilibrium: AS-AD Model. They will gain insights into Rational Expectations, New Keynesian model, price adjustment and coordination failure. Additionally, students will develop an understanding of Behavioural economics, learning how this knowledge contributes to making efficient economic decisions.

Unit-1 Theory of Demand

Revealed preference theory; Hicks revision of Demand Theory; Linear expenditure system; Indirect utility function; Theory of consumer demand: Bandwagon effect – Veblen effect.

Unit-2 Production, Costs and Decision under Risk and Uncertainty

Production functions: Cobb-Douglas and CES functions and their properties. Cost: Cost Functions – short run and long run costs; Average and Marginal Costs; Theory of Long Run costs; Modern theory of Costs; ST. Petersburg paradox; Utility theory and attitude towards risk; Risk aversion and Insurance; Friedman-Savage Hypothesis; Markowitz Hypotheses.

Unit 3: Keynesian and Monetarist Economics

Keynes Theory of Income and Employment, Macro-economic equilibrium: AS-AD model- with variable prices; Monetarist approaches to inflation; Structuralist theory of inflation; Okun's Law, Philips curve analysis – Short run and long run Philips curve; NAIRU; natural rate of unemployment; Tobin's modified Philips curve and policies to control inflation. Supply-side Economics.

Unit 4: New Classical, New Keynesian Economics and Behavioural Economics

Rational expectations: Meaning and policy implications; New Keynesian Models: Mankiw's New Keynesian Model, Price adjustment and coordination failure. Theory of 'Nudge', Practical implications and case studies of 'Nudge'; Theory of 'Commons' and its Policy implications.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

1. Ahuja H.L. (2024) *Advanced Economic Theory: Microeconomic Analysis*, Latest Edition, S. Chand and Company Ltd. New Delhi

2. Case, Karl E., Ray C. Fair and Sharon E. Oster (2013) *Principles of Economics*, (11th Edition), Prentice Hall of India, New Delhi
3. Koutsoyiannis, A. (1990) *Modern Microeconomics*, Macmillan Press Ltd., London
4. Layard, P.R.G. and A. W. Walters (1978) *Microeconomic Theory*, McGraw Hill, New York
5. Lipsey, R.G. and K.A. Chrystal (2004) *Principles of Economics*, (9th Edition), Oxford University Press, New Delhi
6. Perloff, Jeffrey M. (2001) *Micro Economics*, Addison Wesley Longman Pvt. Ltd., New Delhi
7. Sen, A. (1999) *Microeconomics Theory and Applications*, Oxford University Press, New Delhi
8. Stigler, G. (1996) *Theory of Price*, (4th Edition), Prentice Hall of India, New Delhi
9. Varian, H. (2000) *Microeconomic Analysis*, W. W. Norton, New York
10. Mankiw, N. G. (2015), *Macroeconomics*, 5th Indian Edition, Worth Publishers / Cengage India.
11. Dornbusch, R., S. Fischer, and R. Startz (2018), *Macroeconomics*, 12th Edition, Tata McGraw-Hill.
12. Blanchard, O. (2017), *Macroeconomics*, 7th Edition, Pearson India.
13. Romer, D. (2018), *Advanced Macroeconomics*, 5th Edition, McGraw-Hill India.
14. Froyen, R. T. (2013), *Macroeconomics: Theories and Policies*, 10th Edition, Pearson India.

HR/SOS/ECO/CC 712 Quantitative Methods

Course Credits	(05) Five
Course Objectives	The objective of the course is to help the students to learn the basic concepts of Mathematical Economics and apply the quantitative tools and techniques in economic theories. Also to understand and develop skills of analysis using the quantitative methods for minimisation and maximisation etc.
Course Learning outcomes (CLO)	The course will help the student to understand various concepts relating to Mathematical Economics and to apply the quantitative tools and techniques for optimisation purposes. They will be able to apply different quantitative tools for decision making purposes.

Unit-1: Statistical inference: Parametric and Non-Parametric test, Assumption of Normality; Hypothesis-Meaning, types; Formulation and testing of Hypothesis; Type I and Type II errors; Chi-square tests, t-test, Z-test, and F-test.

Unit-2: Role of Mathematics in economic theory and its limitations; Differentiation: meaning and rules of simple differentiation, partial and total differentiation, concept of maxima & minima in single and multivariate functions; rules of indefinite integration and definite integration.

Unit-3: Applications of the differentiation and integration in Economics: Concavity and Convexity; Optimization of Functions; Marginal Concepts; Optimizing Economic Functions; Price Elasticity of Demand and Supply; Relationship among Total, Marginal and Average Concepts.

Unit-4: Matrix and Determinants: meaning and types; Simple operations on matrices; Basic properties of determinants, Solution of simultaneous equations with determinant method.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

1. Allen, R.G.D. (1974), Mathematical Analysis for Economists, Macmillan Press and ELBS, London.
2. Chiang, A.C. (1986), Fundamental Methods of Mathematical Economics, McGraw Hill, New York.
3. Gupta, S.C. (1993), Fundamentals of Applied Statistics, S. Chand & Sons, New Delhi.
4. Handry, A.T. (1999), Operations Research, Prentice Hall of India, New Delhi.
5. Monga, G.S. (1972), Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi.
6. Speigal, M.R. (1992), Theory and Problems of Statistics, McGraw Hill Book Co., London.
7. Taha, H.A. (1997), Operations Research: An Introduction (6th Edition), Prentice Hall of India Pvt. Ltd., New Delhi.
8. Yamane, Taro (1975), Mathematics for Economists, Prentice Hall of India, New Delhi.

HR/SOS/ECO/CC/713 Economics of Human Development

Course Credits	(05) Five
Course Objectives	The objective of the course is to help the students to learn the basic concepts relating to Human Development. The economics of education and economics and health which are integral part of Human Development will be put in to perspective to the students for understanding policy making for the social sector in India
Course Learning outcomes (CLO)	The course will help the student to understand various concepts relating to Human Development, economics of education and economics and health which will help them in understanding policy decision for the social sector. They will be able to analyse education and health sector and the investment allocation needed for these sectors for favourable outcome towards human development.

Unit-1: Human Development: Concepts, Millennium Development Goals and human development, Human Development Index, Multidimensional Poverty Index, Gender related Development Indices, Entitlement and capability approach; Sustainable development: Goals and strategies.

Unit-2: Human development in Indian States; Empowered Action Group (EAG); Aspirational districts; Factors responsible for low human development in India, Demographic trends and issues in context of human development; Demographic Dividend.

Unit-3: Impact of Education on Labour Force Participation, Technological Change and Economic Development. Production and Cost Functions of Education. Financing of Education, Public - Private Participation. Theories of Public Expenditure on Education, Models and Methodologies. Linkages between Education, Skills and Jobs; technology advancement and employment levels; Major Government initiatives for Education.

Unit-4: Health and Human Development: Major findings of National Family Health Survey (NFHS-5), 2019-21 (India and Uttarakhand): Rationale and Scope of Health Economics; Trends of Investment in Health; Health outcomes and their relationship with macroeconomic performance; Economics of Nutrition; Major Government initiatives for Health.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

1. Ananda Krishnan M (2006) Privatization of Higher Education Opportunities and Anomalies, National Seminar on Privatisation and Commercialization of Higher Education, New Delhi May 2.
2. Anil B. Deolalikar, (2005), Attaining Millennium Development Goals in India, Oxford
3. B.G. Tilak, (2007) Women's Education and Development, Gyan Pub, House New Delhi.
4. Berman, P. Health Sector Reform in Developing Countries: Making Health Development Sustainable
5. Bruns Barbara, and Rakotomalala (2005) Achieving Universal Primary Education By 2015, Manas Publication New Delhi
6. Cohn E. and T Gaske (1989) Economics of education, Pergamon press London, Daniel Muijs, (2004), Quantitative Research In Education With SPSS, Sage New Delhi Government of India New Delhi,

7. Report of the National Commission on Macro Economics and Health, 2005 Govind R (2002) India Education Report, Oxford University Press, New Delhi
8. J. Behrman and T. Srinivasan, (1995) Hand Book of Development Economics Ministry of Education, Government of India, Annual Progress Report Ministry of Finance,
9. Government of India, Economic Survey, 2007, 2008,2009
10. Ministry of Health, Government of India, Annual Progress Report National Council of Applied Economic Research, India Human Development Report, Oxford New Delhi
11. National Council of Applied Economic Research, North India Human Development Report, Oxford New Delhi
12. Panchmukhi P.R. (1990) 'Private Expenditure on Education in India- an Empirical Study', Indian Institute of Education, Pune
13. R. Govinda and Rashmi Diwan, (2003), Community Participation and Empowerment in Primary Education, Saga Publication India Pvt. Ltd, New Delhi.
14. R. Govinda, (2002) India Education Report, Oxford University Press, New Delhi
15. S. Mehrotra, P. R. Panchamukhi and R. Srivastava (2004), Universalizing Elementary Education, Oxford University press, New Delhi.
16. Schultz T.W. (1961), Investment in Human Capital, American Economic Review, Sen
17. Amartya and Dreze Jean (2003) India Development and Participation, Oxford
18. Solow, Robert M. (1956), A Contribution to the theory of Economic Growth UNDP, Human Development Reports, various issues
19. World Bank, (2003), India Sustaining Reform Reducing Poverty, Oxford, New Delhi
20. World Bank, World Development Report, various issues

HR/SOS/ECO/EC/714 (a) Financial Literacy, Investment and stock markets

Course Credits	(04) Four
Course Objectives	The objective of the course is to equip learners with the essential skills to make informed financial and investment decisions, ensuring financial security and wealth creation.
Course Learning outcomes (CLO)	The course will help the student to understanding of fundamental financial concepts, investment strategies, and stock market mechanisms. They will gain proficiency in managing personal finances, budgeting, saving, and understanding the impact of financial decisions on life. They will understand the structure and functioning of the stock market, including primary and secondary markets, stock exchanges, mutual funds, and different financial instruments. Furthermore, students will analyse macroeconomic factors affecting the stock market, comprehend the correlation between economic indicators and market movements, and assess the impact of global economic trends on the Indian stock market. This course will equip learners with the essential skills to make informed financial and investment decisions, ensuring financial security and wealth creation.

Unit-1 Financial Literacy

Meaning and Importance of Financial literacy; Basics of Money Management; Impact of Financial Decisions on Life; Identifying Financial Goals: Short-Term vs. Long-Term; How to Creating Personal Budget; Importance of Saving and Emergency Funds; Rules of Budgeting; banking and Digital payments; Credit Score; Importance of Managing debt; Insurance for financial security; Income tax slabs and exemptions available under present financial year income tax structure; Time Value of Money; LTCG and STCG tax in India

Unit-2 Investment and stock market

Importance of Investment; Difference between Saving and investment; power of compounding; Risk in investing: Factors determining the risk of investment in secondary market, Measuring Volatility through standard deviation, India Volatility Index, Beta
Determinants of rate of return; Risk and return relationship; calculation and usage of Reward to Risk Ratio (RRR); Key features of portfolio management, The choice of an investment portfolio

Unit-3 Basics of Stock Market

Primary and Secondary market- IPO and Stock market; Working of stock market- stock exchanges, stock brokers, depositories; types of instruments available in stock market; different categories of stocks; Stock market indexes; Nifty 50, Bank Nifty etc Exchange traded funds; contract notes; GTD (good till date/day/time) in stock market; Mutual funds: Meaning, types and identifying a good mutual fund

Unit-4 Macro-Economic Analysis and stock market

Association of Economic status of the country and stock markets; Understanding the correlation of economic parameters and stock market: GDP, IIP, Inflation, CRR, Unemployment, Budget, Monsoon, Demographic factors etc; Understanding the impact of International economic issues/parameters and their impact on Indian stock market; impact of international stock market on Indian stock market

(Students will have to do an analysis of any four major economic events which have huge impact on the Nifty 50 index)

Suggested Readings

1. Halan, M. (2018). *Let's talk money: You've worked hard for it, now make it work for you*. HarperCollins India.
2. Lamba, A. (2019). *Financial affairs of the common man: Master the art of personal finance management*. Penguin Books.
3. Subramanyam, P. V. (2014). *Retire rich: Invest ₹40 a day*. TV18 Broadcast Ltd.
4. Kumar, A. (2017). *The richest engineer: The story of a young engineer who becomes a millionaire*. Notion Press.
5. Subramanyam, P. V., & Pattabiraman, M. (2016). *You can get rich too: With goal-based investing*. TV18 Broadcast Ltd.
6. Kiyosaki, R. T. (1997). *Rich dad poor dad: What the rich teach their kids about money*.
7. Clason, G. S. (1926). *The richest man in Babylon*. Penguin Books.
8. Ramsey, D. (2003). *The total money makeover: A proven plan for financial fitness*. Thomas Nelson.
9. Robin, V., & Dominguez, J. (1992). *Your money or your life: Transforming your relationship with money and achieving financial independence*. Penguin Books.
10. Gala, J., & Gala, A. (2020). *Guide to Indian stock market*. Buzzingstock Publishing House.
11. Kejriwal, A. (2022). *Fundamental analysis for investors*. Vision Books.
12. Graham, B. (2006). *The intelligent investor: The definitive book on value investing*. HarperBusiness Essentials.
13. O'Neil, W. J. (2009). *How to make money in stocks: A winning system in good times and bad* (4th ed.). McGraw-Hill Education.
14. Pring, M. J. (2002). *Technical analysis explained: The successful investor's guide to spotting investment trends and turning points* (4th ed.). McGraw-Hill Education.
15. Wyss, B. O. (2001). *Fundamentals of the stock market*. McGraw-Hill Education.
16. Murphy, J. J. (1999). *Technical analysis of the financial markets: A comprehensive guide to trading methods and applications*. New York Institute of Finance.

HR/SOS/ECO/EC/714 (b) Mathematical Economics-I

Course Credits	(04) Four
Course Objectives	This course introduces the learners to basic mathematical concepts, tools and techniques, and also discusses how these techniques are applied to economic analysis.
Course Learning outcomes (CLO)	The students also learn to think about the appropriate mathematical tool to apply to a given economic phenomenon or process or idea. The course discusses sets, relations functions and logic. The students also learn about differential and integral calculus, and single-variable optimization. Finally, the students are exposed to integration.

Unit 1 Basic Concepts

Sets and Set Operations; Relations and Functions; rules of Logarithm; Trigonometric ratios and standard Trigonometric identities; elementary idea of Coordinate Geometry, concepts of elementary Algebra; sigma notations.

Unit 2 Functions and Relations

Meaning and types of function and relation- Multivariate, Logarithmic and Exponential function; elementary idea about growth rates.

Unit 3 Limits and Continuity

Limits-properties and application; Continuity, differentiability of function.

Unit 4 Single-Variable Optimisation

Concave and Convex functions; maximization, minimization and its application.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

1. Allen, R.G.D. (1974), Mathematical Analysis for Economists, Macmillan Press and ELBS, London.
2. Chiang, A.C. (1986), Fundamental Methods of Mathematical Economics, McGraw Hill, New York.
3. Gupta, S.C. (1993), Fundamentals of Applied Statistics, S. Chand & Sons, New Delhi.
4. Handry, A.T. (1999), Operations Research, Prentice Hall of India, New Delhi.
5. Monga, G.S. (1972), Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi.
6. Speigal, M.R. (1992), Theory and Problems of Statistics, McGraw Hill Book Co., London.
7. Taha, H.A. (1997), Operations Research: An Introduction (6th Edition), Prentice Hall of India Pvt. Ltd., New Delhi.
8. Yamane, Taro (1975), Mathematics for Economists, Prentice Hall of India, New Delhi.

HR/SOS/ECO/EC/714 (c) Indian Financial System-1

Course Credits	(04) Four
Course Objectives	The aim of the course is to help the students understand the structure, components, and functioning of the Indian financial system with a special emphasis on financial markets, banking institutions, and regulatory frameworks that govern the system.
Course Learning outcomes (CLO)	The course will help students gain comprehensive knowledge about the evolution and current state of the Indian financial system. Learners will understand the role and functions of key financial institutions, markets, and regulatory bodies. Students will develop analytical skills to evaluate financial instruments, banking operations, and monetary policies in the Indian context. This knowledge will enable them to connect theoretical concepts with real-world financial scenarios and prepare them for careers in banking, financial services, and regulatory bodies.

Unit-1 Introduction to Indian Financial System

Structure and components of the Indian financial system; Financial intermediation; Financial deepening and financial inclusion; Role of finance in economic development; Digital transformation of the financial system.

Unit-2 Financial Markets in India

Money market: Structure, instruments, and operations; Capital market: Primary and secondary markets; Government securities market; Corporate debt market; Derivatives market; Foreign exchange market; Integration of financial markets

Unit-3 Banking System in India

Meaning and Functions of Commercial Banks, Regional Rural Banks, Cooperative Bank, Small Finance Banks and Payment Banks; Priority sector lending; non-performing assets; Insolvency and Bankruptcy code 2016; Financial technology in banking.

Unit-4 Reserve Bank of India and Monetary Policy

Functions of RBI; Monetary policy meaning, instruments and objectives; inflation targeting framework. Monetary Policy Committee (MPC)-role and function.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

1. Bhole, L.M. and Mahakud, J. (2017) Financial Institutions and Markets: Structure, Growth and Innovations, McGraw Hill Education, New Delhi
2. Khan, M.Y. (2018) Indian Financial System, McGraw Hill Education, New Delhi
3. Machiraju, H.R. (2020) Indian Financial System, Vikas Publishing House, New Delhi
4. Pathak, Bharati V. (2021) The Indian Financial System: Markets, Institutions and Services, Pearson Education, New Delhi
5. Srivastava, R.M. and Nigam, D. (2016) Financial Markets and Institutions, Himalaya Publishing House, Mumbai
6. Machiraju, H.R. (2018) Working of Stock Exchanges in India, New Age International Publishers, New Delhi
7. Report on Currency and Finance (Latest), Reserve Bank of India, Mumbai
8. Report on Trend and Progress of Banking in India (Latest), Reserve Bank of India, Mumbai
9. Annual Report (Latest), Securities and Exchange Board of India, Mumbai

HR/SOS/ECO/EC/714 (d) Regional planning and development

Course Credits	(04) Four
Course Objectives	The objective of this course is to provide a comprehensive understanding of regional economics, planning approaches, and development theories while analysing regional disparities and policies. It aims to equip students with the knowledge of sustainable regional planning strategies, governance frameworks, and contemporary development programs, with a special focus on India, including Uttarakhand.
Course Learning outcomes (CLO)	By the end of this course, students will develop a strong foundation in regional economics, planning approaches, and development theories. They will be able to differentiate between regional and national economics, understand various types of regions, and assess factors influencing regional development. Students will gain proficiency in analyzing regional disparities using economic indicators and quantitative methods. They will also explore traditional and modern approaches to regional planning, including participatory and sustainable strategies. Additionally, students will critically evaluate India's regional development policies, governance frameworks, and special initiatives, with a focus on addressing regional imbalances and promoting sustainable growth.

Unit- I: Regional Economics and Concept of Region

Definition and scope of regional economics; Importance of regional economic analysis, Differences between regional and national economics; Differences between regional and urban planning Meaning and characteristics of a region, Types of regions in planning; Factors Influencing Regional Development; Measurement of Regional Disparities: Indicators of regional economic disparities; Methods to measure regional inequalities (Gini coefficient, Theil index, etc.)

Unit – II: Methods and Approaches to Regional Planning

Traditional Approaches to Regional Planning: Sectoral Planning Approach, Spatial Planning Approach, Integrated Planning Approach; Participatory and Sustainable Planning Approaches: Bottom-Up and Community-Based Planning, Public-Private Partnerships (PPP), Sustainable Regional Development Models, Resilience Planning and Climate Adaptation Strategies, Tools and Techniques in Regional Planning: Gini Coefficient and Theil Index, GIS and Remote Sensing Applications

Unit – III: Regional planning and development theories

Growth pole theory; Central Place theory, Core-Periphery Model, Cumulative Causation Theory, Location Theory, Dependency Theory, Endogenous Growth Theory, New Economic Geography, Territorial Development Model

Unit – IV Regional Development Policies and Programs

Decentralized Planning and Governance- Panchayati Raj System in India; Special Economic Zones (SEZs) and Industrial Corridors; Special Regional Planning Initiatives: Special Economic Zones (SEZs) and their impact, Backward Region Grant Fund (BRGF), Aspirational Districts Programme (ADP), Tribal Area Development Programs, Hill Area Development Program (HADP) and Desert Development Program (DDP), Vibrant villages programme in context of Uttarakhand; Rural development programs: PURA, RURBAN; Challenges in Regional Planning in India

Suggested Readings:

1. Christaller, W. (1933). *Central places in Southern Germany*. Prentice Hall (English Translation, 1966).
2. Friedmann, J., & Alonso, W. (Eds.). (1975). *Regional policy: Readings in theory and applications*. MIT Press.
3. Fujita, M., Krugman, P., & Venables, A. J. (1999). *The spatial economy: Cities, regions, and international trade*. MIT Press.
4. GIS Development. (2007). *Geoinformatics for regional development: Issues and applications*. GIS Development.
5. Government of India. (2005). *Special Economic Zones (SEZ) in India: Policies, performance, and challenges*. Ministry of Commerce and Industry.
6. Hall, P. (2002). *Urban and regional planning (4th ed.)*. Routledge.
7. Hall, P., & Pain, K. (2006). *The polycentric metropolis: Learning from mega-city regions in Europe*. Earthscan.
8. Harris, C. D. (1954). *The market as a factor in the localization of industry in the United States*. *Annals of the Association of American Geographers*, **44**(4), 315-348.
9. Hirschman, A. O. (1958). *The strategy of economic development*. Yale University Press.
10. Isard, W. (1975). *Introduction to regional science*. Prentice Hall.
11. McKee, R., Dean, J. M., & Leahy, W. H. (1970). *Regional economics: Theory and practice*. Free Press.
12. Mishra, R. P., Sundaram, K. V., & Others (Eds.). (1975). *Regional planning and national development*. Vikas.
13. Myrdal, G. (1957). *Economic theory and underdeveloped regions*. Harper & Row.
14. NITI Aayog. (2018). *Aspirational districts programme: An overview*. Government of India.
15. Perroux, F. (1950). *Economic space: Theory and applications*. *The Quarterly Journal of*
16. Planning Commission. (2014). *Evaluation study of the Backward Region Grant Fund (BRGF) scheme*. Government of India.
17. Porter, M. E. (1990). *The competitive advantage of nations*. Free Press.
18. Richardson, H. W. (1969). *Elements of regional economics*. Penguin.
19. Sen, A. (1999). *Development as freedom*. Oxford University Press.
20. Singh, K., & Bhattacharya, P. (2019). *Rural development programmes in India: Strategies and implementation*. Sage Publications.
21. Smith, D. M. (1971). *Industrial location: An economic geographical analysis*. John Wiley & Sons.

HR/SOS/ECO/RC/715 Research Methodology

Course Credits	(05) Five
Course Objectives	This course aims at empowering students with knowledge and ability to generate requisite information for decision making through carrying out effective research. Students will learn various tools and techniques necessary to create knowledge and information that will aid in decision making.
Course Learning outcomes (CLO)	This course will help students to understand basics of research i.e., research, research types, approaches, concepts etc. This will also help to learn and carry out effective research using exploratory, descriptive and experimental designs Also to develop an acumen to prepare an appropriate research design for given research.

Unit-1: Research: Meaning, Objectives, Importance and Types; Research process; Research Problem, Research Design and Sampling Design; Sampling Methods.

Unit-2: Methods for collection of Primary Data; Sources of Secondary Data; Drafting of Questionnaires and Schedules; Measurement and Scaling.

Unit-3: Hypothesis: Meaning, Formulation and Testing; Z, t, F and Chi-square tests.

Unit-4: Data Processing, Interpretation and Report writing, Basic use of MS Office in Research.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

6. Business Research Methods, Donald R Cooper, McGraw Hill, New Delhi
7. Research Methodology, Cauvery.R, Sudhanayak U.K, Girija.M and Meenakshi.R, S.Chand & Company Ltd, New Delhi.
8. Research Methodology: A Guide for Researchers in Management and Social Sciences, Bill Taylor, Gautam Sinha, Taposh Ghoshal, Prentice-Hall of India Private Limited, New Delhi
9. Research Methodology: Methods and Techniques, C.R. Kothari, New Age International, New Delhi
10. Statistical Methods, 2004, S.P. Gupta, S.Chand publication, New Delhi
Statistical Methods, D.R. S.P. Gupta, Sultan Chand & Sons, New Delhi
Statistics for Management, Levin and Rubin, Asian Publishing House, New Delhi

HR/SOS/ECO/MMD/716 (a) Intellectual Property Rights

Course Credits	(04) Four
Course Objectives	The course aims to provide a comprehensive understanding of Intellectual Property Rights (IPR), covering their origin, significance, and various forms. It will explore their international frameworks, legal aspects and enforcement mechanisms. Additionally, the course will equip the students with the knowledge to navigate intellectual property challenges in different industries.
Course Learning outcomes (CLO)	Upon completing this course, students will gain a comprehensive understanding of Intellectual Property Rights (IPR), including patents, copyrights, trademarks, and trade secrets. They will be able to analyze international frameworks like TRIPS and WTO, understand patentability criteria, registration procedures, infringement issues, and legal remedies. Additionally, students will develop knowledge of copyright laws, piracy concerns, and trademark regulations, including domain names in cyberspace. The course will equip learners with practical insights into IPR protection and enforcement, preparing them for legal and business challenges related to intellectual property.

Unit-1 Introduction: Meaning of property, Origin, Nature, Meaning of IPR; Introduction to TRIPS and WTO; Kinds of Intellectual property rights—Copy Right, Patent, Trade Mark, Trade Secret and trade dress, Design, Layout Design, Geographical Indication, Plant Varieties and Traditional Knowledge.

Unit-2 Patent Rights: Origin, Meaning of Patent, Types, Inventions which are not patentable, Registration Procedure, Rights and Duties of Patentee, Assignment and licence, Restoration of lapsed Patents, Surrender and Revocation of Patents, Infringement, Remedies & Penalties.

Unit-3 Copy Right: Origin, Definition & Types of Copy Right, Registration procedure, Assignment & licence, Terms of Copy Right, Piracy, Infringement, Remedies, Copy rights with special reference to software.

Unit-4 Trade Marks: Origin, Meaning & Nature of Trade Marks, Types, Registration of Trade Marks, Infringement & Remedies, Offences relating to Trade Marks, Passing Off, Penalties. Domain Names on cyber space

Suggested Readings

13. Bainbridge, D. (2018). Intellectual Property. Pearson Education.
14. Cornish, W., Llewelyn, D., & Aplin, T. (2019). Intellectual Property: Patents, Copyright, Trade Marks and Allied Rights (9th ed.). Sweet & Maxwell.
15. Gopalakrishnan, N. S. (2012). Intellectual Property and Competitive Strategies in the 21st Century. National Law School of India University.
16. Ganguli, P. (2001). Intellectual Property Rights: Unleashing the Knowledge Economy. Tata McGraw Hill.
17. WIPO. (2004). WIPO Intellectual Property Handbook: Policy, Law and Use. World Intellectual Property Organization.

18. Maskus, K. E. (2000). Intellectual Property Rights in the Global Economy. Peterson Institute for International Economics.
19. Dutfield, G., & Suthersanen, U. (2008). Global Intellectual Property Law. Edward Elgar Publishing.
20. Narayanan, P. (2018). Patent Law. Eastern Law House.
21. Bently, L., & Sherman, B. (2014). Intellectual Property Law (4th ed.). Oxford University Press.
22. Basheer, S., & Reddy, P. (2015). Intellectual Property Law in India. Oxford University Press.
23. Moorthy, V. (2017). Cyber Law & Intellectual Property Rights. LexisNexis.
24. Stobbs, G. (2011). Software Patents. Aspen Publishers.4. Law of Intellectual Property, Asian Law House, Dr.S.R. Myneni.

HR/SOS/ECO/MMD/716 (b) Uttarakhand Economy

Course Credits	(04) Four
Course Objectives	The course aims to analyze regional disparities, sectoral dynamics, migration patterns, and government initiatives in Uttarakhand, focusing on economic development, sustainability, and policy interventions.
Course Learning outcomes (CLO)	By completing this course, students will understand regional disparities, sectoral developments, and socio-economic challenges in Uttarakhand. They will analyze migration patterns, the impact of hydro projects, natural disasters, and gender issues. Additionally, they will evaluate government initiatives aimed at sustainable development, agriculture, tourism, and industrial growth, fostering a comprehensive understanding of regional planning and policy interventions.

Unit-1 Regional Disparities and Area Deprivation issues

Regional disparities between Rural and Urban regions, regional disparities between hill and plain regions, regional disparities between hill states (Himachal Pradesh and Uttarakhand); impact of regional disparities; Government programs designed mainly for resolving the issues of regional disparities.

Unit-2 Sectoral Analysis of Uttarakhand Economy

Agriculture in Uttarakhand: Role and status of agriculture in rural and urban economy, trends in cropping and farming pattern, sustainable agricultural practices, Issues of farming pattern and input costs, problems of agriculture, role of forest in Uttarakhand economy; Secondary and Tertiary Sector: Industrial development in rural and urban economy, Tourism sector- Role, status and its significance.

Unit-3 Problems of Uttarakhand Hill Areas

Migration- Trends, patterns and factors leading to migration, impact of migration; Hydro projects and its impact on Uttarakhand economy and its sustainability; Natural disasters: causes of natural disaster and its impact; Poverty in Uttarakhand, Health Economics: health issues; Gender Issues and Uttarakhand Economy: Trends of labour force participation in Uttarakhand urban and rural economy, factors affecting female labour force participation.

Unit-4 Government initiatives

Migration Commission, HADP, Policies for agriculture development-Uttarakhand Organic Commodity Board, government initiatives for developing tourism in Uttarakhand, policies for development of industrial sector and self-employment generation; Vibrant Village programme.

Suggested readings:

Bhattacharya, B. B., & Sakthivel, S. (2004). Regional Growth and Disparity in India: A Comparison of Pre and Post-Reform Decades. *Economic and Political Weekly*, 39(10), 1071-1077.

Government of India. (2020). *Economic Survey of India*. Ministry of Finance, Government of India.

Joshi, V., & Pant, M. (2018). *Uttarakhand: Issues of Development and Sustainability*. Gyan

Books.

- Mishra, R. P. (2002). *Regional Planning: Concepts, Techniques, Policies and Case Studies*. Concept Publishing Company.
- Planning Commission. (2008). *Report of the Working Group on Hill Area Development Programme (HADP) and Western Ghats Development Programme (WGDP)*. Government of India.
- Ramesh, J. (2007). *Making Sense of Chindia: Reflections on China and India*. India Research Press.
- Rawat, A. S. (2019). *History of Uttarakhand: The Lost Kingdom*. Kalpaz Publications.
- Sen, A., & Himanshu. (2004). Poverty and Inequality in India: Widening Disparities during the 1990s. *Economic and Political Weekly*, 39(21), 2125-2133.
- Singh, M. P. (2014). *Urbanization in the Himalayas: Emerging Patterns, Issues, and Challenges*. Springer.
- Singh, R. L. (1971). *India: A Regional Geography*. National Geographical Society of India.
- Srivastava, R. (2011). *Internal Migration in India: Initiatives for Inclusion*. UNESCO Policy Paper.
- Tiwari, P. C. (2008). *Sustainable Development of Mountain Environment in India and Climate Change Impacts*. Scientific Publishers.

Semester-VIII

HR/SOS/ECO/CC/811 Advanced Economic Theory-II

Course Credits	(05) Five
Course Objectives	The objective of the course is to help the students to learn the advanced concepts of Economics such as price and output determination in market, Welfare Economics and market failures, income consumption theories and Business Cycles. The learners to understand the Neo-Classical synthesis and open economy.
Course Learning outcomes (CLO)	This course will enable students to understand the detailed intricates of equilibrium under different market condition, theories of market, welfare economics and market failures, consumption theories and theories of Business Cycles. Additionally, students will develop an understanding of the interaction of Real and Monetary sectors of the economy macroeconomics policy and stabilization strategies through IS-LM Model, Short run and long run Aggregate Supply curve analysis and open economy Models such as Mundell-Fleming Model, Purchasing Power Parity (PPP), Interest Rate Parity (IRP) and Forex Market Efficiency, learning how this knowledge contributes to making efficient economic decisions.

Unit-1 Price and Output Determination in Markets

Equilibrium under Perfect, Monopoly and Monopolistic competition, Oligopoly: Cournot's and Chamberlin's Model; Game theory: Dominant Strategy, Neumann-Morgenstern theory, The Prisoners' Dilemma; Theories of the firm: Managerial-Williamson's and Baumol's Sales revenue maximisation theory; Limit Pricing- J.S Bain.

Unit-2 Welfare Economics and Market Failures

Pareto optimally criterion and efficiency conditions, Kaldor-Hicks Criterion: Compensation principle, Bergson-Samuelson Social welfare function; Arrows Impossibility Theorem, Amartya Sen's Possibility Theorem; Market failure: Asymmetric information, Moral Hazard; Market signalling.

Unit 3: Income-Consumption Theories and Business Cycles

Relative Income hypothesis; Permanent Income hypothesis; Accelerator: concept and working; Interaction of multiplier and accelerator; Tobin's q theory of investment; Business cycles: Meaning, phases and features; Theories of business cycles: Samuelson model, Schumpeter model, Hick's and Kaldor theory; relative effectiveness of monetary and fiscal policies; Real Business Cycle (RBC) theory.

Unit-4: Neo Classical Synthesis and Open Economy

IS-LM model: The interaction of Real and Monetary sectors of the economy; Fiscal and Monetary Policy analysis in an IS-LM model; Short run and long run Aggregate Supply curve analysis; Open Economy- Mundell-Fleming Model, Purchasing Power Parity (PPP), Interest Rate Parity (IRP) and Forex Market Efficiency, Exchange Rate Mechanisms, Interest Rate Differentials and Capital Flows, Dollar Index, Crude prices, Carry Trade and its impact.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

1. Ahuja H.L. (2024) Advanced Economic Theory: Microeconomic Analysis, Latest Edition, S. Chand and Company Ltd. New Delhi
2. Case, Karl E., Ray C. Fair and Sharon E. Oster (2013) Principles of Economics, (11th Edition), Prentice Hall of India, New Delhi
3. Koutsoyiannis, A. (1990) Modern Microeconomics, Macmillan Press Ltd., London
4. Layard, P.R.G. and A. W. Walters (1978) Microeconomic Theory, McGraw Hill, New York
5. Lipsey, R.G. and K.A. Chrystal (2004) Principles of Economics, (9th Edition), Oxford University Press, New Delhi
6. Perloff, Jeffrey M. (2001) Micro Economics, Addison Wesley Longman Pvt. Ltd., New Delhi
7. Sen, A. (1999) Microeconomics Theory and Applications, Oxford University Press, New Delhi
8. Stigler, G. (1996) Theory of Price, (4th Edition), Prentice Hall of India, New Delhi
9. Varian, H. (2000) Microeconomic Analysis, W. W. Norton, New York
10. Mankiw, N. G. (2015), Macroeconomics, 5th Indian Edition, Worth Publishers / Cengage India.
11. Dornbusch, R., S. Fischer, and R. Startz (2018), Macroeconomics, 12th Edition, Tata McGraw-Hill.
12. Blanchard, O. (2017), Macroeconomics, 7th Edition, Pearson India.
13. Romer, D. (2018), Advanced Macroeconomics, 5th Edition, McGraw-Hill India.
14. Froyen, R. T. (2013), Macroeconomics: Theories and Policies, 10th Edition, Pearson India.

HR/SOS/ECO/EC/812 (a) Fundamental and Technical analysis of stocks

Course Credits	(04) Four
Course Objectives	The objective of the course is to equip students with the basic knowledge and skills to do fundamental and technical analysis for informed investment and trading decisions in the stock market.
Course Learning outcomes (CLO)	The course will help the students to develop a comprehensive understanding of stock valuation and market trends. They will learn to analyse industries, assess company fundamentals, and interpret financial statements using key ratios. Additionally, students will gain proficiency in technical analysis, including chart patterns, candlestick formations, support and resistance levels, and market phases. The course will also cover indicators like SMA, EMA, MACD, and RSI, enabling students to identify breakouts, trends, and execute informed trading decisions.

Unit-1 Fundamental Analysis: Industry Analysis and stock market

Meaning and importance of fundamental analysis; types of industries: Growth industry, cyclical industry, Defensive industry, Cyclical growth industry; Industry Life Cycle, SWOT Analysis; Company analysis: General Analysis- Competitive Edge of the company; Earnings of the Company and the Management;

Unit-2 Fundamental Analysis: Financial analysis

Understanding stock Balance Sheets, Income statement, Cash flow statement, financial ratios, Debt-equity ratio, profitability ratio, Valuation ratios

Unit-3 Basics of technical Analysis and Price Action

Types of charts with emphasis on Candle stick; Dow Theory: Phases of market- Accumulation phase, Markup phase, Distribution phase; Support and Resistance; Types of Candlesticks: Single Candlestick- Bullish & Bearish Marubozu, Hammer & Hanging man; Inverted hammer & Shooting star; Dragonfly Doji and Gravestone Doji; Double Candlestick- Bullish and Bearish Engulfing, Bullish and Bearish Harami; Three Candlestick- Morning and evening star

Unit-4 Indicators and chart patterns for technical analysis

Use of different time frames for Stock technical analysis; Identification and confirmation of Breakout and Breakdown; Use of Trend line, channel lines, Use of SMA, EMA, MACD, RSI, Volume based strategy

Chart patterns: Bullish: Inverted Head and Shoulder, Double bottom, Inverted Pole and Flag, Cup and handle, Bearish: Head and Shoulder, Double top, Inverted Pole and Flag rounding pattern; Others: Ascending and descending triangles breakout / breakdown; Swing trading

(Students will have to do fundamental and technical analysis of any three large cap industries listed in Nifty 50 index)

Suggested Readings

1. Halan, M. (2018). *Let's talk money: You've worked hard for it, now make it work for you*. HarperCollins India.

2. Lamba, A. (2019). *Financial affairs of the common man: Master the art of personal finance management*. Penguin Books.
3. Subramanyam, P. V. (2014). *Retire rich: Invest ₹40 a day*. TV18 Broadcast Ltd.
4. Kumar, A. (2017). *The richest engineer: The story of a young engineer who becomes a millionaire*. Notion Press.
5. Subramanyam, P. V., & Pattabiraman, M. (2016). *You can get rich too: With goal-based investing*. TV18 Broadcast Ltd.
6. Kiyosaki, R. T. (1997). *Rich dad poor dad: What the rich teach their kids about money*
7. Clason, G. S. (1926). *The richest man in Babylon*. Penguin Books.
8. Ramsey, D. (2003). *The total money makeover: A proven plan for financial fitness*. Thomas Nelson.
9. Robin, V., & Dominguez, J. (1992). *Your money or your life: Transforming your relationship with money and achieving financial independence*. Penguin Books.
10. Gala, J., & Gala, A. (2020). *Guide to Indian stock market*. Buzzingstock Publishing House.
11. Kejriwal, A. (2022). *Fundamental analysis for investors*. Vision Books.
12. Graham, B. (2006). *The intelligent investor: The definitive book on value investing*. HarperBusiness Essentials.
13. O'Neil, W. J. (2009). *How to make money in stocks: A winning system in good times and bad* (4th ed.). McGraw-Hill Education.
14. Pring, M. J. (2002). *Technical analysis explained: The successful investor's guide to spotting investment trends and turning points* (4th ed.). McGraw-Hill Education.
15. Wyss, B. O. (2001). *Fundamentals of the stock market*. McGraw-Hill Education.
16. Murphy, J. J. (1999). *Technical analysis of the financial markets: A comprehensive guide to trading methods and applications*. New York Institute of Finance.

Students may refer to NSE website for more contents: www.nseindia.com

HR/SOS/ECO/EC/812 (b) Mathematical Economics-II

Course Credits	(04) Four
Course Objectives	This course introduces the learners to basic mathematical concepts, tools and techniques, and also discusses how these techniques are applied to economic analysis
Course Learning outcomes (CLO)	The students also learn to think about the appropriate mathematical tool to apply to a given economic phenomenon or process or idea. The course discusses functions of several variables, differential equations. The students also learn about linear algebra Finally, the students are exposed to multi variate optimisation.

Unit 1 Input Output Analysis

Definition of Input-Output technique, Inter-Industry analysis, Leontief Input-Output Model, Open Input-Output Model.

Unit 2 Linear Programming

Meaning and concepts of Linear Programming problem (LPP), slack, surplus, artificial variables, formulation of a LPP, general form of a LPP, standard form of a LPP, solution of a LPP: graphical and simplex method, applications of Linear Programming technique.

Unit 3 Differential Equation

First-Order Differential Equations; Second-Order Differential Equations

Unit 4 Difference Equation

Solving first order difference equation, Cobb Web Model- Dynamic stability of equilibrium.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

9. Allen, R.G.D. (1974), Mathematical Analysis for Economists, Macmillan Press and ELBS, London.
10. Chiang, A.C. (1986), Fundamental Methods of Mathematical Economics, McGraw Hill, New York.
11. Gupta, S.C. (1993), Fundamentals of Applied Statistics, S. Chand & Sons, New Delhi.
12. Handry, A.T. (1999), Operations Research, Prentice Hall of India, New Delhi.
13. Monga, G.S. (1972), Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi.
14. Speigal, M.R. (1992), Theory and Problems of Statistics, McGraw Hill Book Co., London.
15. Taha, H.A. (1997), Operations Research: An Introduction (6th Edition), Prentice Hall of India Pvt. Ltd., New Delhi.
16. Yamane, Taro (1975), Mathematics for Economists, Prentice Hall of India, New Delhi.

HR/SOS/ECO/EC/812 (c) Indian Financial System-II

Course Credits	(04) Four
Course Objectives	The objective of the course is to help students develop advanced understanding of financial institutions, risk management, regulatory frameworks, and contemporary issues in the Indian financial system, along with providing insights into international financial linkages and fintech developments
Course Learning outcomes (CLO)	This course will enable students to critically analyze the operations and regulations of various non-banking financial institutions and regulatory bodies in India. They will gain expertise in understanding financial risks, their management techniques, and governance issues. Students will develop the ability to evaluate India's position in the global financial system and assess the impact of financial technology innovations. Additionally, they will learn to apply theoretical knowledge to address real-world financial challenges and policy issues in the Indian context.

Unit-1 Non-Banking Financial Institutions

Meaning and importance of NBFCs; Development Financial Institutions; Insurance companies; Pension funds; Mutual funds; Non-Banking Financial Companies (NBFCs); Microfinance Institutions; Asset Reconstruction Companies; Credit Rating Agencies; Operations, regulations, and challenges

Unit-2 Financial Regulation and Governance

Financial sector regulators and their functions: SEBI, IRDAI, PFRDA, NSDL; Financial sector legislation; Corporate governance in financial institutions; Financial market infrastructure; Financial stability and systemic risk; Financial sector reforms and liberalization post 1991.

Unit-3 Risk Management in Financial Institutions

Types of financial risks: Credit risk, market risk, operational risk, liquidity risk; Risk management frameworks; Asset-liability management; Capital adequacy norms; Basel norms and their implementation in India; Stress testing; Financial contagion. India and global financial market - role, impact, merits and demerits of FIIs and FDI; Financial crimes and their prevention.

Unit-4 Contemporary Issues in Indian Financial System

Financial technology (Fintech) and digital finance; Financial inclusion-meaning and significance; Financial Inclusion drives in India from year 2000- strategies and challenges; Sustainable finance and ESG investments; Recent innovations in Indian financial system- SPV and SPE.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

9. Bhole, L.M. and Mahakud, J. (2017) Financial Institutions and Markets: Structure, Growth and Innovations, McGraw Hill Education, New Delhi
10. Financial Stability Report (Latest), Reserve Bank of India, Mumbai
11. Ghosh, S. (2019) Indian Banking and Financial System, McGraw Hill Education, New Delhi
12. Khan, M.Y. (2018) Indian Financial System, McGraw Hill Education, New Delhi
13. Machiraju, H.R. (2020) Indian Financial System, Vikas Publishing House, New Delhi
14. Mohan, R. and Ray, P. (2019) Indian Financial Sector: Structure, Trends and Turns, Palgrave Macmillan, Singapore

15. Nayak, S. (2018) Inclusive Finance India Report, Access Development Services, New Delhi
16. Pathak, Bharati V. (2021) The Indian Financial System: Markets, Institutions and Services, Pearson Education, New Delhi

HR/SOS/ECO/EC/812 (d) Sectoral Dynamics of Uttarakhand

Course Credits	(04) Four
Course Objectives	The objective of the course is to help the students to have a broad understanding of Uttarakhand's economy, socio-economic development its resources, development challenges, and comparative advantages. The course will help students understand local economic development issues
Course Learning outcomes (CLO)	This course will enable students to develop overall understanding of the macroeconomic indicators of the state, the main issues that act as constraints for development, and the key advantages of the Himalayan state. The students will understand the regional disparities in development, gaps in skill, and scope in each sector. The students will have an in-depth understanding of the state's major resources and issues of human development, such as education, income, and health.

Unit- 1: Development Paradigm of Uttarakhand: Genesis of State Formation, Main features of Uttarakhand Economy, Macroeconomic Indicators– GSDP, contribution of agriculture, industry and services in GSDP, per capita income. Economic growth and Sustainable Development. Regional disparities between Rural and Urban regions, regional disparities between hill and plain regions. Out migration, development challenges.

Unit -2: Social Sector Development: Demographic features, educational development-primary, secondary and higher education. Health and other basic amenities. Labour force participation and skill development, Gender issues in Uttarakhand; Poverty inequality and employment.

Unit- 3: Agriculture Industry and Service Sector: Agriculture- major crops, production and productivity, Organic and Natural Farming, Horticulture Development, Medicinal and Aromatic plants. Industrial development, Industrial Policies, MSMES, handloom, handicraft and micro enterprises.

Unit-4 Infrastructure and Resources: Urban development, Infrastructure development: Roads, bridges and Banking institutions. Water resource, Power Sector of Uttarakhand. Forest resource-major and minor forest produce, National Parks, Wildlife sanctuaries, biosphere reserves, green cover, Main rivers, Glaciers, Mineral resources, Tourism, Hospitality and wellness. Environment, ecology, climate change and prospects for green economy.

Suggested readings:

1. Bhattacharya, B. B., & Sakthivel, S. (2004). Regional Growth and Disparity in India: A Comparison of Pre and Post-Reform Decades. *Economic and Political Weekly*, 39(10), 1071-1077.
2. Government of India. (2020). *Economic Survey of India*. Ministry of Finance, Government of India.
3. Joshi, V., & Pant, M. (2018). *Uttarakhand: Issues of Development and Sustainability*. Gyan Books.
4. Mishra, R. P. (2002). *Regional Planning: Concepts, Techniques, Policies and Case Studies*. Concept Publishing Company.
5. Planning Commission. (2008). *Report of the Working Group on Hill Area Development Programme (HADP) and Western Ghats Development Programme (WGDP)*. Government of India.

6. Ramesh, J. (2007). *Making Sense of Chindia: Reflections on China and India*. India Research Press.
7. Rawat, A. S. (2019). *History of Uttarakhand: The Lost Kingdom*. Kalpaz Publications.
8. Sen, A., & Himanshu. (2004). Poverty and Inequality in India: Widening Disparities during the 1990s. *Economic and Political Weekly*, 39(21), 2125-2133.
9. Singh, M. P. (2014). *Urbanization in the Himalayas: Emerging Patterns, Issues, and Challenges*. Springer.
10. Singh, R. L. (1971). *India: A Regional Geography*. National Geographical Society of India.
11. Srivastava, R. (2011). *Internal Migration in India: Initiatives for Inclusion*. UNESCO Policy Paper.
12. Tiwari, P. C. (2008). *Sustainable Development of Mountain Environment in India and Climate Change Impacts*. Scientific Publishers.

HR/SOS/ECO/RC/813 Research Writing & Ethics

Course Credits	(03) Three
Course Objectives	<ul style="list-style-type: none">• The objective of the course is to help the students to learn the basic and intricated concepts of academic writing and ethics related to research publications.
Course Learning outcomes (CLO)	<ul style="list-style-type: none">• The course will help the student to learn the concepts of academic writing along with understanding how it should strictly adhere with the research ethics. The learner will understand the global practices for fair research publication practices. The course will overall help the student to understand the concepts such as scientific conduct, research ethics, research tools, and the usage of research databases and metrics.

Unit I: Philosophy, Ethics, and Scientific Conduct

Introduction to Philosophy: Definition, nature, scope, and branches. Ethics: Moral philosophy, nature of moral judgments and reactions. Research Ethics: Intellectual honesty, integrity, and responsible conduct in research. Scientific misconduct: Falsification, Fabrication, Plagiarism (FFP), redundant publications, selective reporting, and data misrepresentation.

Unit II: Publication Ethics and Misconduct

Definition, importance, and best practices (COPE, WAME, etc.). Conflicts of interest, authorship, and contributorship. Publication misconduct: Causes, types, and consequences. Identification of unethical practices, complaints, and appeals. Predatory journals and publishers.

Unit III: Open Access Publishing and Research Tools

Open access initiatives and policies (SHERPA/RoMEO, UGC-CARE list). Journal selection tools (JANE, Elsevier Journal Finder, Springer Journal Suggester). Use of reference management tools (Mendeley, Zotero). Anti-plagiarism software (Turnitin, Urkund).

Unit IV: Research Databases and Metrics

Indexing and citation databases (Web of Science, Scopus). Journal impact assessment: Impact Factor, SNIP, SJR, IPP, CiteScore. Researcher metrics: h-index, g-index, i-10 index, altmetrics.

Teaching Learning Process: Lectures and tutorials

Suggested Readings:

1. **Resnik, D. B. (2020)**, *The Ethics of Science: An Introduction*, 2nd Edition, Routledge.
2. **Shamoo, A. E. and D. B. Resnik (2015)**, *Responsible Conduct of Research*, 3rd Edition, Oxford University Press.
3. **Kothari, C. R. and G. Garg (2019)**, *Research Methodology: Methods and Techniques*, 4th Edition, New Age International Publishers.
4. **Bryman, A. (2021)**, *Social Research Methods*, 6th Edition, Oxford University Press.
5. **Chakraborty, P. (2021)**, *Publication Ethics and Research Integrity*, 1st Edition, Springer.
6. **COPE (Committee on Publication Ethics) (2022)**, *COPE Guidelines on Publication Ethics*, Available Online: www.publicationethics.org

HR/SOS/ECO/RC/814 Dissertation

Course Credits	(12) Twelve
Course Objectives	The objective of the dissertation course is to enable students to conduct independent research on relevant economic issues, apply appropriate research methodologies using primary or secondary data, analyze findings critically, and develop academic writing skills while maintaining research integrity.
Course Learning outcomes (CLO)	Upon successful completion of the dissertation, students will be able to conduct independent research on relevant economic issues at local, regional, national, or international levels. They will develop critical thinking, data analysis, and academic writing skills by utilizing primary or secondary data. The dissertation process will enhance their ability to identify research gaps, apply appropriate methodologies, interpret findings, and propose policy recommendations. Additionally, students will gain experience in maintaining academic integrity through proper citation and plagiarism checks, preparing them for advanced research or professional roles.

Note: The dissertation will be compulsory for all students in the third semester. It will be carried out by the student under the supervision of a faculty advisor (a teacher from the department).

Guidelines for Dissertation:

1. Dissertation topic should be based on any relevant economic issue at local/regional/state/National/international level
2. It should be developed on the basis of either primary or secondary data or the combination of the both.
3. Dissertation should be limited to a range of 100 to 150 pages approx. (Font type-Times New Roman or Font Size-12 font, Line spacing- 1.5 spacing; For Hindi- Kruti Dev-11, Font size-16, Line spacing-1.5)

Format of Report:

The report should be submitted in following format: Title Page, Certificate (by supervisor and student), Introduction (Background of the Problem), Literature Review, Relevance of the study, Research gaps identified, Research Methodology, Research Findings, Conclusion, suggestions or policy prescriptions, References

Note: The student will have to submit a plagiarism report along with the final report.

Method of Evaluation:

Performance of student in dissertation will be evaluated on the following three basis:

- (a) Dissertation (By external expert)- 60 Marks
- (b) Viva-voce (By external expert and Internal expert)- 20 Marks
- (c) Periodical presentation (by supervisor-internal expert)- 20 Marks

Total: 100 Marks

Note: Name of the external expert will be decided by the University.

HR/SOS/ECO/MMD/815 (a) Detailed Project Report for Enterprise

Course Credits	(04) Four
Course Objectives	The objective of this course is to equip students with the knowledge and skills required to develop a Detailed Project Report (DPR) by understanding business planning processes, market analysis, technological and operational considerations, financial assessments, and legal/ethical aspects essential for evaluating and implementing a successful enterprise.
Course Learning outcomes (CLO)	By completing this course, students will gain the ability to develop a Detailed Project Report (DPR), conduct market research, analyze product planning and marketing strategies, assess technological and operational aspects, and evaluate financial feasibility using tools like NPV and IRR. They will also understand the socio-economic and legal/ethical considerations involved in starting and managing an enterprise.

Unit1 Introduction: Meaning, objectives and significance of DPR, Business planning process for creating a new plan, Steps in writing a DPR.

Unit 2 Market Planning: Market research, Product –Categories of Products/Services; Product Planning and Policies; Branding and Packaging; Product life cycle; Product Positioning. marketing mix, Successful Marketing Plan.

Unit 3- Equipment and Process Technology: overview, choice of Technology and Appraisal; Location of the Project, Layout of the Project, Material Balance of the Project. Environment Impact, Assessment of Operations-capacity planning, plant organisation, personnel, operations planning vendor management, quality strategy, operations costing, management information system, safety; Commercial Aspects.

Unit 4 Financial Aspects: Profit & Loss statement, Balance Sheet, Cash Flows statement, Cost Analysis, NPV, IRR, Socio-economic Aspects, Legal/Ethical issues to consider when starting an enterprise, Evaluation of DPR.

Suggested Readings:

13. Hisrich, R. D., Peters, M. P., & Shepherd, D. A. (2020). Entrepreneurship. McGraw-Hill Education.
14. Kotler, P., & Keller, K. L. (2019). Marketing management (15th ed.). Pearson.
15. Osterwalder, A., & Pigneur, Y. (2010). Business model generation: A handbook for visionaries, game changers, and challengers. Wiley.
16. Gopinath, C. (2021). Strategic business planning for accountants: Methods, tools, and case studies. Routledge.
17. Koller, T., Goedhart, M., & Wessels, D. (2020). Valuation: Measuring and managing the value of companies (7th ed.). McKinsey & Company, Inc., & Wiley.
18. Iyer, P. (2019). Project management and business planning. Himalaya Publishing House.
19. Meredith, J. R., Shafer, S. M., & Mantel, S. J. (2020). Project management: A strategic managerial approach (11th ed.). Wiley.
20. Pandey, I. M. (2021). Financial management (12th ed.). Vikas Publishing House.
21. Kalyani, D. (2018). Detailed project report (DPR) preparation: A step-by-step approach. Global Vision Publishing.
22. Lock, D. (2020). Project management (10th ed.). Routledge.
23. Porter, M. E. (1998). Competitive strategy: Techniques for analyzing industries and competitors. Free Press.
24. Schaper, M. (2016). Entrepreneurship and small business (4th ed.). Wiley.

**HR/SOS/ECO/MMD/815 (b) Indian Economy: Policy and Environment
(Swayam Course)**

Swayam Course: **Indian Economy: Policy and Environment**
[Indian Economy: Policy and Environment - Course](https://onlinecourses.swayam2.ac.in/nou25_hs32/preview)
https://onlinecourses.swayam2.ac.in/nou25_hs32/preview