

LEARNING OUTCOMES BASED CURRICULUM FRAMEWORK (LOCF) FOR UNDERGRADUATE PROGRAMMES

Department of Economics



LOYOLA COLLEGE (AUTONOMOUS)

CHENNAI 600034

PREFACE

An economist must be a “mathematician, historian, statesman, philosopher to some degree... he must study the present in the light of the past for the purposes of the future” - John Maynard Keynes.

Economics is a subject cutting across various disciplines and experiences. It involves studies about how rational people behave and why they optimize. It tells us how markets work and why they fail. It conveys, how income can be redistributed to emancipate the poor and needy from the mires of poverty and inequality.

Loyola College Economics Department envisages its students to be Economist’s par excellence: Men and Women who are full of knowledge and values; a generation which is both traditional and yet, futuristic.

The Learning Outcome based teaching and evaluation framework promises to deliver what the department envisages for its students. After multiple rounds of planning and execution, the syllabus has been structured to provide a rigorous base in the various fields of economics. It includes both quantitative and qualitative aspects of the subject which make it very inclusive and sustainable.

Our overall course structure has a perfect blend of core economic papers, finance and research methodology. Besides subject knowledge our students are encouraged to work as interns with various government and private entities which helps them to become market ready.

As a last word, it is pertinent to mention that this framework based on Bloom’s Taxonomy caters to learners with different cognitive levels and has been customized to ensure that every student comes into the main frame.

Welcome Aboard!

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VISION AND MISSION OF LOYOLA COLLEGE

VISION

Towards holistic formation of youth, grounded in excellence, through accompaniment to serve the humanity.

MISSION

- To provide inclusive education through an integral and holistic formative pedagogy.
- To promote skills that prepare them for the future.
- To kindle in young minds, the spirit of social and environmental justice with a blend of academic excellence and empathy.
- To stimulate critical and conscientious scholarship leading to meaningful and innovative human Capital.

CORE VALUES

- Cura Personalis
- Pursuit of Excellence
- Moral Rectitude
- Social Equity
- Fostering solidarity
- Global Vision
- Spiritual Quotient

VISION AND MISSION OF THE DEPARTMENT OF ECONOMICS

VISION

- Training young men and women to become able economists for future to serve the humanity in justice, truth and love.

MISSION

- To ignite the students with emerging economic ideas to understand the economic scenarios and apply their knowledge to analyze policies to take decisions for the welfare of the society.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)
(SCHOOL OF COMMERCE AND ECONOMICS)

PEO 1	Globally Relevant Curriculum To expose the students in various fields of Economics and Commerce.
PEO 2	Core Competency Development To think critically and creatively to respond towards dynamic global business and economic environment.
PEO 3	Professional Skill Development To empower the students with strong interpersonal, decision-making, reasoning, and communication and leadership skills.
PEO 4	Social Skills and Ethics To develop competent, committed, conscious, creative, and socially responsible citizens.
PEO 5	Environment and Sustainability To develop a multidisciplinary perspective to contribute innovatively towards business, economic and environment sustainability.
PEO 6	Life Long Learning To enable students to involve in lifelong learning in the pursuit of excellence.

PROGRAMME OUTCOME (POs)
(SCHOOL OF COMMERCE AND ECONOMICS)

PO 1	Disciplinary Knowledge Students will be able to apply the scientific knowledge acquired in classrooms and labs in real-life situations and work environment.
PO 2	Professional Skills Internalize the learnt concepts of economics and commerce that will enable them to become skilled professionals.
PO 3	Entrepreneurship and Employment Skills Become empowered individuals who will emerge as entrepreneurs or be employed in various positions in industry, academia, and Government.
PO 4	Competency Development Adapt in the workplace by possessing the capacity to embrace new opportunities of emerging technologies, leadership, and teamwork in dynamic economic and business environment.
PO 5	Self-Directed and Lifelong Learning Engage in independent and life-long learning, especially through MOOCs and other online courses to acclimatize themselves in an ever-changing work environment.
PO 6	Environment and Sustainability Contribute innovatively towards business, economic and environment sustainability.
PO 7	Social Skills and Ethics Become competent, committed, conscious, creative, and compassionate men and women for and with others.

B.A. ECONOMICS – PROGRAMME SPECIFIC OUTCOMES (PSOs)
(DEPARTMENT OF ECONOMICS)

PSO 1	Comprehend the fundamental concepts in Economics
PSO 2	Gain knowledge about functions of fiscal and monetary authorities
PSO 3	Analyze and cope up with contemporary economic issues of the world
PSO 4	Demonstrate resource management skills
PSO 5	Acquire analytical skills to diagnose economic fluctuations
PSO 6	Identify the interrelationships of competing forces
PSO 7	Apply the dynamics of human behaviour in workplace atmosphere and act responsibly

B.A. Economics CBCS curriculum with effect from June, 2019

PART	Cat.	SEMESTER – 1	SEMESTER – 2	SEMESTER – 3	SEMESTER – 4	SEMESTER – 5	Internship for 4 weeks during Christmas Holidays	SEMESTER – 6	CREDITS	
I	L	G. Language (3h/3c)	G. Language (3h/3c)	G. Language (3h/3c)	G. Language (3h/3c)					12
II	E	G. English (6h/3c)	G. English (6h/3c)	G. English (5h/3c)	G. English (5h/3c)					12
K III	MC	Micro Economics – I (6h/6c)	Micro Economics – II (6h/6c)	Mathematical Methods for Economics (6h/6c)	Statistical Methods for Economics (6h/6c)	Macro Economics – I (6h/6c)			Macro Economics – II (6h/6c)	84 (MC)
		Indian Economy - I (6h/6c)	Indian Economy - II (6h/6c)	Money and Banking (6h/6c)		Fiscal Economics (6h/6c)			Portfolio Management (6h/6c)	
						International Economics (6h/6c)			Financial Management (6h/6c)	
						Basic Econometrics (6h/6c)				
	AR/ AO	AR (6h/3c)	AR (6h/3c)	AO (5h/3c) Development Administration / English for Corporate Communication /Study of Society (Shift – I) Digital Marketing (Shift-II)	AO (5h/3c) Ecommerce /Introduction to Academic Writing Advanced Mathematics for Economics (Only for Shift – II)					12
		Business Accounting	Indian Constitution							
	ME					Managerial Economics (6h/6c) [OR]		Human Resource Management (6h/6c) [OR]		
						Operations Research (6h/6c) [OR]	Tamil Nadu Economy (6h/6c) [OR]			
						Principles of Marketing Management (6h/6c) (Only for Shift-II)	Development Economics (6h/6c) (only for Shift-II)			
	MS									15 (MS & TP)
IV	BT/AT/ NME/ MOOC /FC			BT/AT/NME (3h/2c)	BT/AT/NME (3h/2c)	MOOC / SSP			4	
		FC (3h/1c)	FC (3h/2c), EVS	FC (2h/1c)	FC (2h/1c)				5	
	CC/ OR	CC	CC (90/1)						1	
				OR	OR (120h/2c)				2	
Total Hrs./ Credits		30h (22c)	30h (23c + 1c)	30h (24c + 2c)	30h (30c)	30h (33c)	30 days	30h (33c)	159	

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI
DEPARTMENT OF ECONOMICS
(2019 - Restructured Curriculum)

OVERALL COURSE STRUCTURE

Sem	Subject Code	Course Title	T/L/P	Category	Credit	Hours
I	UTL 1101	General Tamil – I	T	GL	3	3
	UFR 1101	French for Beginners-I				
	UFR 1102	French for Communication – I				
	UFR 1104	Français Niveau - I				
	UOL 1101	Hindi-Prose - I				
	UOL 1102	General Hindi - I				
	UOL 1104	General Sanskrit - I				
I	UEL 1201	General English I - Advanced	T	GE	3	6
	UEL 1202	General English I – Intermediate				
	UEL 1203	General English I - Basic				
I	UEC 1501	Microeconomics - I	T	MC	6	6
I	UEC 1502	Indian Economy – I	T	MC	6	6
I	UCO 1301	Business Accounting	T	AR	3	6
I	UHE 1001	Personality Development	T	FC	1	3
I		CCA				
II	UTL 2101	General Tamil – II	T	GL	3	3
	UFR 2101	French for Beginners - II				
	UFR 2102	French for Communication – II				
	UFR 2103	Français Niveau - II				
	UOL 2101	Hindi-Prose - II				
	UOL 2102	General Hindi - II				
	UOL 2103	General Sanskrit - II				
II	UEL 2201	General English II - Advanced	T	GE	3	6
	UEL 2202	General English II – Intermediate				
	UEL 2203	General English II - Basic				
II	UEC 2501	Microeconomics – II	T	MC	6	6
II	UEC 2502	Indian Economy – II	T	MC	6	6
II	UHT 2301	Indian Constitution	T	AR	3	6

II	UHE 2001	Life Issues and Coping Strategies	T	FC	2	3
II		CCA				
III	UTL 3101	General Tamil – III (Arts & Science)	T	GL	3	3
	UFR 3101	French for Beginners - III				
	UFR 3102	Français Niveau – III				
	UOL 3101	Hindi Poetry - III				
	UOL 3102	General Sanskrit - III				
III	UEL 3201	General English Advanced - III	T	GE	3	5
	UEL 3202	General English - Intermediate – III				
	UEL 3203	General English - Basic - III				
III	UEC 3501	Mathematical methods for Economics	T	MC	6	6
III	UEC 3502	Money and Banking	T	MC	6	6
III	UEL 3401	English For Corporate Communication	T	AO	3	5
	UHT 3402	Development Administration in India				
	USO 3401	The Study of Sociology				
	UCO 3403	Digital Marketing				
III		BT/AT/NME	T	NME	2	3
III	UHE 3001	Social Awareness	T	FC	1	2
III		ORA	T	ORA		
IV	UTL 4101	General Tamil – IV (Arts & Science)	T	GL	3	3
	UFR 4101	French for Beginners - IV				
	UFR 4102	Français Niveau - IV				
	UOL 4101	Hindi Poetry - IV				
	UOL 4102	General Sanskrit - IV				
IV	UEL 4201	Introduction to Technical Translation	T	GE	3	5
	UEL 4202	Soft Skills for Professional Development				
	UEL 4203	Professional Content Writing				
	UEL 4204	English for Technical Writing				
	UEL 4205	English for Employability Skills				
	UEL 4206	Essential Skills for Group Communication				
	UEL 4207	Theatre Performance and Film Review				
IV	UEC 4501	Statistical Methods for Economics	T	MC	6	6
	UEC 4601	Managerial Economics	T	ME	6	6
	UEC4602	Operations Research	T	ME	6	6
	UEC4603	Principles of Marketing	T	ME	6	6

IV		BT/AT/NME	T	NME	2	3
IV	UHE 4001	Environmental Studies	T	FC	1	2
IV		ORA	T	ORA	2.	
IV	UCO 4401	E - Commerce	T	AO	3	5
	UEL 4401	Introduction To Academic Writing				
	UMT 4404	Advanced Mathematics for Economics				
V	UEC 5501	Macroeconomics – I	T	MC	6	6
V	UEC 5502	Fiscal Economics	T	MC	6	6
V	UEC 5503	International Economics	T	MC	6	6
V	UEC 5504	Basic Econometrics	T	MC	6	6
V	UEC 5601	Human Resource Management	T	ME	6	6
V	UEC 5602	Operations Research	T	ME	6	6
VI	UEC 6501	Macroeconomics – II	T	MC	6	6
VI	UEC 6502	Portfolio Management	T	MC	6	6
VI	UEC 6503	Financial Management	T	MC	6	6
VI	UEC 6701	Research Methodology in Economics	T	MS	5	6
VI	UEC 6706	Research Methods for Economics	L	MS	5	6
VI	UEC6705	Internship	P	MS	5	

COURSES OFFERED TO OTHER DEPARMENTS

I	UEC 1301	Business Economics	T	AR	3	6
II	UEC 2301	Indian Economic Planning and Policy	T	AR	3	6
III	UEC 3401	Economics of Social Issues	T	AO	3	5
III	UEC 3402	Media Economics	T	AO	3	5
III	UEC 3801	Green Economics	T	NME	2	3
IV	UEC 4401	Comparative Economics System	T	AO	3	5
IV	UEC 4402	Basic Economics	T	AO	3	5
IV	UEC 4801	Entrepreneurial Economics	T	NME	2	3

COURSE DESCRIPTORS

Course Code	UEC 1501
Course Title	MICROECONOMICS – I
Credits	06
Hours/Week	06
Category	Major Core (MC) – Theory
Semester	I
Regulation	2019
Course Overview	
<ol style="list-style-type: none"> 1. Microeconomics is a branch of economics that deals with the behavior of individual units like households, individuals and enterprises. 2. This course provides the basic principles of microeconomics including an introduction into the study of economics and analyses the behavior of economic agents, particularly that of the individual and the firm. 3. The course introduces the concept of utility and its practical application in order to understand the consumer behavior and market equilibrium. 4. The course enables students to understand the nature and determinants of demand and supply and their interaction to determine the prices of the commodities in various market structure. 5. It provides insights on firm’s production, cost and revenue in the short run and long run. 6. The course imparts understanding of different pricing techniques opted by firms. 	
Course Objectives	
<ol style="list-style-type: none"> 1. To explore the basic concepts of Microeconomics. 2. To understand the various economic systems that help to solve the basic economic problems. 3. To determine the equilibrium of the consumer and producer. 4. To compare and evaluate the various market structures. 	
Prerequisites	Introductory economics and basic mathematics

SYLLABUS

Unit	Content	Hours	Cos	Cognitive Level
I	Introduction Basic problems of an economic system – Nature of economic theory – Individual demand and supply schedules and the derivation of market demand and supply - Changes in demand and supply parameters – Elasticity of demand and supply and its application	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6

II	Theory of Consumer Behavior Cardinal and ordinal utility approaches to demand – Marginal utility analysis – Indifference curve analysis – Income, substitution and price effects – A new approach to consumer behavior: revealed preference theory demand.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
III	Theory of Production and Cost Theory of production and cost: Production function: Law of variable proportions, two variable inputs: isoquants, fixed and variable proportion of production function – Returns to a factor and Returns to scale – The concept of elasticity of substitution. Cost of production and cost curves: Technical efficiency vs Economic efficiency - short-run and long run cost functions – Learning curve.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
IV	Theory of Pricing under Perfect Competition Difference between firm and Industry - Elementary theory of price determination in a competitive market - Perfect competition: Equilibrium of the firm and industry – Derivation of the supply curve – Market adjustment process – The time element. – Price and output determination in the short and long run.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
V	Theory of Pricing under Imperfect Competition Introduction to Monopoly - Concept of Price discrimination; Monopolistic competition – Product differentiation – Selling cost – Oligopoly – Cournot model – Kinked demand curve – Collusion and price leadership.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
Text Books				
<ol style="list-style-type: none"> Hal R. Varian (2019). Intermediate Microeconomics: A Modern Approach, Ed. 9, W.W. Norton and Company/Affiliated East-West Press (India), New Delhi. Dominic Salvatore (2011), Microeconomic Theory, Ed. 4, Schaum’s Outline Series, McGraw Hill, Inc., New Delhi Koutsoyiannis A (2005). Modern Microeconomics, Ed. 2, Macmillan Press Ltd, London. 				
Web Resources				
<ol style="list-style-type: none"> https://bit.ly/3vmzfdq https://www.aeaweb.org/aej-micro/ https://microeconomicinsights.org/ https://journals.sagepub.com/home/ 				

Course Outcomes (COs) and Cognitive Level Mapping

COs	CO Description	Cognitive Level
CO1	Identify and understand the economic problems and the process of economic decision making	K1,K2
CO2	Apply fundamental economic principles for analysing behaviour of economic agents and articulate strategies and designs that solve the challenges faced by them	K3
CO3	Compare and contrast the outcomes of microeconomic principles and their relevance in the real world	K4
CO4	Evaluate and justify the economic activities and reactions of individuals, firms, and industry	K5
CO5	Investigate alternative solution in the light of economic principles and construct viable solution to achieve technical and economic efficiency in production and distribution.	K6

Course Code	UEC 1502
Course Title	INDIAN ECONOMY – I
Credits	06
Hours/Week	06
Category	Major Core (MC) – Theory
Semester	I
Regulation	2019
<p>Course Overview</p> <ol style="list-style-type: none"> 1. This course is designed for undergraduate students to learn the art of understanding the functioning of the economy in the light of its mixed economic set-up, historical developments and recent reforms. Indian Economy is an essential part of Social Science that makes us understand the economic functioning and conditions of our country in the context of past, present, and future. 2. Understanding the role of economic activities has always been a challenging task for non-economics students and it is an unavoidable task. 3. The course touches upon various relevant topics which are indeed useful for the budding economist and non-economics students who want to apply for general competitive exams and master's programs in management and civil services. 4. The course will also provide an insight to the features of Indian Economy, enabling students to understand the Indian economy better and the challenges and problems shaping the economy. 5. Using appropriate analytical frameworks, this course reviews major trends in economic indicators and policy debates in India in the post-Independence period, with particular emphasis on paradigm shifts and turning points 	
<p>Course Objectives</p> <ol style="list-style-type: none"> 1. It will result in a comprehensive understanding of Indian Economy as a developing economy and various economic issues of the agricultural sector. 2. To acquire knowledge on rural development and examine the challenges faced by agriculture in India. 3. To develop the conceptual framework of government policies and programs and acquaint students with latest data and will enhance analytical skills 4. To gain in depth knowledge in understanding the landscape of Indian economy 5. Interpret the impact of pre and post green revolution in Indian agriculture. 6. Identify the relevant sources of agricultural finance and its impact on agricultural development 7. Translate the knowledge of students to exhibit critical thinking and problem-solving skills. 	
Prerequisites	Basic knowledge on Indian Economy

SYLLABUS

Unit	Content	Hours	Cos	Cognitive Level
I	General Perspectives-Features of the Indian Economy – Promotional and Retarding Factors – Population: Characteristics and Analysis – National Income: Sectoral Composition – Pattern of Income Distribution – Inequalities of Income – Poverty in India: Magnitude of Poverty in India – Measures to reduce Poverty, Review of Poverty Alleviation Program.	18	CO 1 CO 2 CO3, CO4, CO5	K1, K2, K3, K4, K5, K6
II	Agriculture in India during Pre-Green Revolution Period-Role of Agriculture in India Economy – Agricultural Development in India – Factors affecting agriculture growth – Institutional Factors – Cropping Pattern – Farm size and asset distribution – Farm size and Efficiency – Causes for small size of land holding – Problem of subdivision and fragmentation – Land Reforms.	18	CO 1 CO 2 CO3, CO4, CO5	K1, K2, K3, K4, K5, K6
III	Agriculture in India during Post-Green Revolution Period-The Concept of Food Security – Green Revolution: A critical revaluation – New Agriculture Strategy and Post Green Revolution Developments – Mechanization – Technological Developments in India Agriculture – Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) – Dry Farming – Soil and water Conservation – New Economic Policy and Agriculture – National Commission on Farmers.	18	CO 1 CO 2 CO3, CO4, CO5	K1, K2, K3, K4, K5, K6
IV	Agricultural Finance-Agriculture and Support Services - Agriculture Finance – Significance of Agriculture Finance – Agriculture Subsidy – Kissan Credit Card – Land Development Banks – Regional Rural Banks – NABARD – Agriculture warehousing and marketing	18	CO 1 CO 2 CO3, CO4, CO5	K1, K2, K3, K4, K5, K6
V	Agriculture Marketing in India-Need for agriculture marketing – problems in agriculture marketing – Regulated markets – Cooperatives – Standardization pricing Policy – Remunerative Approaches for Agriculture and Allied sector Rejuvenation (RAFTAAR) – Agriculture Export Policy 2018.	18	CO 1 CO 2 CO3, CO4, CO5	K1, K2, K3, K4, K5, K6

Text Books

1. Tyagi, B.P. 2017, Agricultural Economics and Rural Development, Jai Prakash Nath and Co., Meerut.
2. Dhingra, I.C., 2019, Indian Economy, S Chand and Sons Co Pvt. Ltd. New Delhi.
3. Agarwal, A.N. and Agarwal, M.K. 2015, Indian Economy Problems of Development and Planning, S. Chand, New Delhi
4. Datt, Gaurav and Aswani Mahajan 2016, Indian Economy, Ed.70, S.Chand and Co. Pvt. Ltd. New Delhi

Suggested Readings

1. Planning commission, government of India – Five year plan Document
2. Economic Survey – Recent Issues
3. Uma Kapila (Ed), Indian Economy since Independence (Academic Foundation 2002)
4. Sen, Raj Kumar and Chatterjee, Biswajit (Ed) Indian Economy: Agenda for the 21st century (Deep and Deep Publication 2002)
5. Bhagwati, Jagdish N. and Padma Desai, Planning for industrialization (London: Oxford University Press 1970)
6. Cherunilam, Francis, Industrial Economics: Indian perspective (Mumbai: Himalaya Publishing House 1989)
7. Kuchhal, S.C., The Industrial Economy of India (Allahabad: Chaitanya Publishing House 1988)
8. Puri, V.K, and Misra, S.K., Indian Economy (36 Edition) (New Delhi, Himalaya Publishing House 2018)
9. Tandon, B.B and Kulwinder Kaur, Indian Economic Problems (New Delhi: S.Chand and Co. Pvt. Ltd 1987)
10. Wadhwa, Charan (Ed), Some Problems of India 's Economic Policy (2nd Edition) (New Delhi: Tata -McGraw – Hill Publishing Ltd 1977)

Web Resources

1. <https://www.fisheries.tn.gov.in/Aquaculture>
2. <https://agricoop.nic.in/en>
3. <https://www.drdpat.bih.nic.in>
4. <https://www.nddb.org>
5. <https://dahd.nic.in>
6. <https://ccsniam.gov.in/>
7. <https://www.manage.gov.in>

Course Code	UEC 2501
Course Title	MICROECONOMICS – II
Credits	06
Hours/Week	06
Category	Major Core (MC) - Theory
Semester	II
Regulation	2019
Course Overview	
<ol style="list-style-type: none"> 1. Microeconomics is a branch of economics that deals with the behaviour of individual units like households, individuals and enterprises within the economy. This paper is the continuation of Microeconomics- I that was offered in the previous semester. 2. While the former paper dealt with product pricing and various other aspects associated with it, this paper moves to factor pricing, i.e., how prices of factors (which are used to produce various commodities) are being determined in their respective markets. 3. Likewise, various theories and concepts related to determination of factor prices like wages, rent, interest and profit are discussed in this course. 4. Apart from this, welfare economics has also been given due importance in this course. Various social welfare criteria are being examined in this course. A few important ones formulated by Pareto (Pareto’s social welfare criterion), Kaldor- Hicks- Scitovsky (compensation criterion) are discussed in detail in this course. 	
Course Objectives	
<ol style="list-style-type: none"> 1. To explore advanced microeconomic concepts with applications. 2. To understand the concepts and theories associated with factor pricing. 3. To analyze and evaluate various social welfare criteria. 4. To apply the learnt concepts in real world to solve the contemporary issues. 5. To redesign and construct new welfare policies to suit the modern economic requirements. 	
Prereq4uisites	Understanding of concepts related to demand, supply, utility and market structures.

SYLLABUS

Unit	Content	Hrs	Cos	Cognitive Level
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I	Theory of Factor Pricing Factor Pricing under perfect competition – Marginal productivity theory – Demand for and supply of factors – Collective bargaining and wage determination – Factor pricing under imperfect competition – Monopsony.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
II	Theory of Wages and Rent Real wage and Money wage –Theories of Wages: Wage fund theory – Equity theory – Marginal Productivity theory of wages - Residual Claimant theory of Wage; Ricardian and Modern theories of rent: Scarcity Rent – Rent as surplus over cost of production – differential rent– Quasi Rent.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
III	Theory of Interest and Profit Theories of interest: Classical theory of interest - Loanable funds theory – Keynes liquidity preference theory of Interest; The theory of profit: Dynamic theory of profit, Schumpeter’s Innovation theory of Profit, Hawley’s risk theory of Profit - Knight’s uncertainty bearing theory of Profit	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
IV	Theory of Welfare Welfare analysis: Pareto criterion and Pareto optimality – utility possibility Frontier – Competitive equilibrium and Pareto optimality – Limitations of Pareto criterion.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
V	Compensation Principle Kaldor-Hicks Welfare Criterion: Compensation Principle-Scitovsky’s Paradox –Scitovsky’s Double Criterion of Welfare – A Critique of the Compensation Principle.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6

Text Books

1. Hal R. Varian (2019). Intermediate Microeconomics: A Modern Approach, Ed. 9, W.W. Norton and Company/Affiliated East-West Press (India), New Delhi.
2. Dominic Salvatore (2011), Microeconomic Theory, Ed. 4, Schaum’s Outline Series, McGraw Hill, Inc., New Delhi
3. Koutsoyiannis A (2005). Modern Microeconomics, Ed. 2, Macmillan Press Ltd, London.

Suggested Readings

1. Samuelson, Paul Anthony and Nordhaus, William D. (2010), Economics, Ed. 19, Tata McGraw Hill Publishing Company Ltd., New Delhi.
2. Douglas B. Bernheim and Michael D. Whinston. (2009). Microeconomics, Tata McGraw-Hill (India).
3. Stiglitz, Joseph E and Carl E. Walsh (2011). Economics, Ed.4, W.W. Norton & Company, Inc., New York.
4. Dominic Salvatore, (2012), Principles of Microeconomics, Ed. 5, Oxford University Press, New Delhi
5. Ahuja. H.L (2017). Advanced Economic Theory, Ed. 21, S. Chand & Company Ltd. New Delhi.

Web Resources

1. <https://www.sciencedirect.com/>
2. <https://www.econlib.org/library/enc/microeconomics.html>
3. <https://www.aeaweb.org/journals/mic>

Course Outcomes (COs) and Cognitive Level Mapping

COs	CO Description	Cognitive Level
CO1	To Understand and Comprehend the fundamental ideas of Factor Pricing and Welfare Economics.	K1, K2
CO2	To Employ the concepts of Welfare Economics and Factor Pricing to arrive at solutions to the economic problems of the contemporary world.	K3
CO3	To Critique and Modify the principles of Factor Pricing and Welfare Economics in resource management to achieve maximum social advantage.	K4
CO4	To Test and Appraise the various propositions of Factor Pricing and Welfare Economics to analyse economic fluctuations and diagnose them.	K5
CO5	To Construct suitable welfare policies and Factor pricing techniques that will help achieve maximum social advantage.	K6

Course Code	UEC 2502
Course Title	INDIAN ECONOMY II
Credits	6
Hours/Week	6
Category	MC
Semester	II
Regulation	2019
Course Overview	
<ol style="list-style-type: none"> 1. Indian Economy-II is an extension of Indian Economy-I, which examines sector-specific policies and their impact in shaping trends in key economic indicators in India. 2. It highlights major policy debates and evaluates the Indian empirical evidence. 3. It also discusses trends and patterns in Industrial development, and analysis the way forward for economic development in the country. 4. This course seeks to offer an analytical introduction to the main aspects of economic policy and performance of industrial sector and service sector in post independent India. 5. It discusses the role of policy in the context of competition and industrial policies and regulation 6. It provides an in-depth knowledge in examining the economic problems in the light of relevant economic theories, and in a comparative perspective. 	
Course Objectives	
<ol style="list-style-type: none"> 1. Understand the role of industries in economic development. 2. Demonstrate the relevance of industrial policies 3. Classify and identify the progress of various industrial sectors. 4. Enumerate the contribution of major industries 5. Interpret the significance and interdependence of various service industries 	
Prerequisites	Basic knowledge of Indian Economy

SYLLABUS

Unit	Content	Hrs	Cos	Cognitive Level
I	Role of Industries in Economic Development - Industrialization in developing economies - industrialization in India under the five year plans - NITI Aayog and Industrialization	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6

II	Industrial policy resolutions in India since 1947 – licensing policy: response of the industries – new industries – New Industrial Policy, 1991 – Outline of recent Industrial policy	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
III	Industrial sectors in India: Private, Public, Joint and Co Operative; Large Scale Industries and Small Scale Industries – Micro Small Medium Enterprise Sector (MSME) – Their Origin, Growth, Performance, Problems and Prospects.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
IV	Major Industries: Iron and Steel, Textile, Cement, Sugar, Fertilizers, Cement, Sugar, Fertilizer, Engineering, petroleum, and crude oil, petrochemicals, sunrise industries (Electronics) – Industrial Estate: Objectives and progress	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
V	Transport: Roadways, Railways, Shipping and Airways – Its role in Economic Development – railroad Co Ordination; New Horizons: Growth of IT, Banking Insurance and Health Care.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6

Text Books

1. Agarwal,A.N.,*Indian Economy: Problems of Development and planning* (Chennai: Vishwaprakashan 2001)
2. Dhingra,I.C, *Indian Economy*(New Delhi: Sultan 2000)
3. Datt, Ruddar and K.P.M.Sundharam, *Indian Economy*(New Delhi: S.Chand and Co. Pvt. Ltd. 2001)

Book for Reference

1. Planning commission, government of India – Five year plan Document
2. Economic Survey – Recent Issues
3. Uma Kapila (Ed), Indian Economy since Independence (Academic Foundation 2002)
4. Sen, Raj Kumar and Chatterjee, Biswajit (Ed) Indian Economy: Agenda for the 21st century (Deep and Deep Publication 2002)
5. Bhagwati, Jagdish N. and Padma Desai, *Planning for industrialization* (London: Oxford University Press 1970)
6. Cherumilam, Francis, *Industrial Economics: Indian perspective* (Mumbai: Himalaya Publishing House 1989)
7. Kuchhal, S.C., *The Industrial Economy of India* (Allahabad: Chaitanya Publishing House 1988)
8. Puri, V.K, and Misra, S.K., Indian Economy (36 Edition) (New Delhi, Himalaya Publishing House 2018)
9. Tandon, B.B and Kulwinder Kaur, *Indian Economic Problems* (New Delhi: S.Chand and Co. Pvt. Ltd 1987)
10. Wadhwa, Charan (Ed), *Some Problems of India 's Economic Policy* (2nd Edition) (New Delhi: Tata -McGraw – Hill Publishing Ltd 1977)

Journals for Reference

1. Indian Economic Journal
2. Indian Trade Journal
3. Journal of Indian Economy
4. Indian Journal of Industrial Relations
5. Indian Journal of Finance and Banking

Websites for Reference

1. <https://www.pwc.in/>
2. <https://www.indiabudget.gov.in/>
3. <https://www.indiastat.com/>
4. <https://labour.gov.in/>
5. <https://www.india.gov.in/topics/industries/micro-small-medium-enterprises>

Course Outcomes (COs) and Cognitive Level Mapping

COs	CO Description	Cognitive Level
CO 1	Understanding the role and importance of manufacture and service industries to Distinguish the Indian and global nature of industries	K1, K2
CO 2	Equipping students to Analyse different phases of industrialisation and Design new phase of sustainable Industrial Growth	K3
CO 3	Determining the role of government, Appraise the Industrial policies in Economic Development since Independence and Frame policies of global competence	K4
CO 4	Evaluating the pre and the post-industrial revolution and estimate its impact on Indian and global economy	K5
CO 5	Moulding the students to Forecast the future of industrial technology and Prescribe innovation for robust industrial growth and development	K6

Course Code	UEC 3501
Course Title	Mathematical Methods for Economics
Credits	06
Hours/Week	06
Category	Major Core (MC) – Theory
Semester	III
Regulation	2019
Course Overview	
<ol style="list-style-type: none"> 1. Mathematical Economics is a combination of theoretical economics and mathematics. 2. The aim of the course is to introduce students to the basic mathematical methods and to show their application in economic analysis. 3. The module will focus on mathematical tools that are essential to understand modern economics. 4. The topics covered are functions & equations, matrix algebra, differentiation and integration. 5. The course will cover solutions to different types of functions, solutions to equations through matrix algebra, application of optimization techniques (calculus) in problems of firm and consumer behavior. 	
Course Objectives	
<ol style="list-style-type: none"> 1. To understand the mathematical concepts and methods used by economists. 2. To acquire the ability to represent economic relationships using graphical & mathematical tools and provide meaningful interpretations to a group or the society at large. 3. To measure the effect of change to improve decision making through Differentiation and Integration. 4. To apply optimization techniques to find optimum solutions in economics. 5. To apply mathematical solutions to policy relevant issues of various economic agents. 	
Prerequisites	Basic mathematical operations

SYLLABUS

Unit	Content	Hrs	COs	Cognitive Level
I	Role of Mathematics in Social Sciences - Functions: linear, quadratic, cubic, exponential and logarithmic functions – Equations: graph, slope and intercept of a function – Simple applications of functions in economics: derivation of linear demand and supply functions – calculation of market equilibrium – single product – equilibrium price and quantity	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
II	Definition and terms – Basic operations in Matrices – Laws in Matrix Algebra–Matrix expression of asset of linear equations - Determinant Properties – Singular, Non-singular matrix – Minors and Cofactors – Transpose	18	CO 1 CO 2 CO 3 CO 4	K1, K2, K3, K4, K5, K6

	of a Matrix – Adjoint matrix – rank of matrix – Inverse Matrices – solving system of equations with inverse – Cramer’s rule		CO 5	
III	Differentiability of a Function – slope of a curve – increasing and decreasing functions – rules of differentiation: product rule, quotient rule, function of function rule – Relationship between AR, MR and elasticity of demand – relationship between average and marginal cost (using differentiation) – Application of Derivatives: Calculation of marginal cost, average cost, marginal revenue and average revenue – Elasticity: types of elasticity, calculation of price and income elasticity.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
IV	Partial Differentiation and its rules - Second order derivatives – Condition for Maxima / Minima and Saddle Point – Application of Partial Derivatives: partial elasticity of demand: Substitutes and complements - Economic applications – Output and Revenue Maximization – Profit and Utility maximization - Cost minimization – Effect of Taxation	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
V	Basic integration – Indefinite and definite integral – Application of Integration in Economics: consumer and producer surplus	18	CO1 CO2 CO3 CO4 CO5	K1, K2, K3, K5, K6

TEXT BOOKS:

1. Weber, Jean E, (1982). Mathematical Analysis: Business and Economic Applications, Harper and Row Publishers, New York.
2. Metha B.C. and Madnani G.M.K. (1997). Mathematics for Economists, Sultan Chand and Sons Publishers, New Delhi.
3. Yamane Taro. (1970). Mathematics for Economists: An Elementary Survey, Prentice Hall of India Pvt. Ltd., New Delhi.
4. Chiang A.C. (1985). Fundamental Methods of Mathematical Economics, McGraw Hill International Students Edition.

SUGGESTED READINGS:

1. Journal of Mathematical Economics
2. Review of Economics and Statistics
3. Econometrica
4. Applied Economics

WEB RESOURCES:

1. <https://www.tifr.res.in/>
2. <https://uccollege.edu.in/>
3. <https://iisc.ac.in/>

Course Outcomes (COs) and Cognitive Level Mapping

COs	CO Description	Cognitive Level
CO 1	To understand the basic concepts of Mathematics	K1, K2
CO 2	To identify and analyze problems of economic nature and finding feasible solutions.	K3
CO 3	To apply concepts equations, formulae, and mathematical expressions and relationships in a variety of Economic conditions	K4
CO 4	To apply the knowledge in mathematics in solving business problems	K5
CO 5	To analyze and demonstrate mathematical skills required in mathematically intensive areas in Economics and business.	K6

Course Code	UEC 3502
Course Title	MONEY AND BANKING
Credits	06
Hours/Week	06
Category	Major Core (MC) - Theory
Semester	III
Regulation	2019
Course Overview	
<ol style="list-style-type: none"> 1. The study of Money and Banking in Economics is concerned with the relationship of money to economic activities. 2. The course aims to provide an introduction to the role of money, financial markets, financial institutions and monetary policy in the economy. 3. The course is also looking into some of the key areas including the theory and practice of financial markets, monetary policy and banking and how their interactions affect the real world. 4. This course provides a set of tools to analyse monetary policy and the functions of the financial sector. 5. Money and Banking will combine a study of the relevant theory with applications to recent changes and policy debates. 	
Course Objectives	
<ol style="list-style-type: none"> 1. To impart knowledge about the evolution of trade through the changing pattern of the money system. 2. To understand the role and functions of money and banking in an economy. 3. To understand the contribution of various schools of economic thought in the field of monetary economics. 4. To increase students' awareness on the importance of monetary policies for financial markets. 5. To introduce students to the recent developments in financial markets and the policy of Banking sectors in India. 	
Prerequisites	Basic Knowledge on application of Economics

SYLLABUS

UNIT	CONTENT	HRS	COs	COGNITIVE LEVEL
I	Unit I: Introduction Definition of Money - Types and functions of money – Monetary System in India – Features of India’s Monetary System - The role of money in the modern economy.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3,K4,K5,K6
II	Unit II: Monetary Standards and Value of money Monetary Standards: Gold Standard – Bimetallism – Gresham’s Law – Paper Currency – Standard Systems of Note Issue; Value of Money: Concepts and determinants of the demand and supply of money - M ₁ , M ₂ , M ₃ and M ₄ – Measuring changes in the value of money – Index numbers of prices.	18	CO1 , CO2, CO3, CO4, CO5	K1, K2, K3,K4,K5,K6
III	Unit III: Theories of Money Quantity theory of money: Classical transaction approach – Cambridge cash balance approach – Saving-Investment approach – Classical dichotomy and the neutrality of money - Keynesian integration of monetary and value theories	18	CO 1 CO 2 CO 3 CO 4 CO 5,	K1, K2, K3, K4, K5
IV	Unit IV: Banking Central bank: Functions and promotional role - The working of the RBI - Monetary Policy – Instruments and their efficacy and limitations - Role of Monetary Policy in a Developing Country; Commercial banks: Functions – Balance sheet of a Commercial Bank – Investment policy of commercial banks – Recent Trends in the Banking System – Development Banking in India – Non-bank Financial Intermediaries in India – Banking and Financial inclusion – Mudra Banks – Bank Mergers and Acquisitions – Challenges of Banking in India.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3,K4,K5,K6
V	Unit V: Financial Markets Money market: Meaning, constituents and functions – Features of an underdeveloped and developed money market - Money market in India; Capital market: Primary and Secondary markets (stock exchanges) – Types of securities	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6

	– Capital market in India – Financial markets and Financial inclusion.			
Text Books				
1. Seth, M.L. (2020) Monetary Economics Lakshmi Narain Agarwal Publication, Agra, UP				
2. Frederick Mishkin (2018), The Economics of Money, Banking and Financial Markets, 12th Edition, Pearson Publication, New Delhi.				
3. Hajela, T.N. (2009), Money and Banking, Theory with Indian Banking, Ane Book Pvt. Ltd., New Delhi.				
4. Sethi, T.T. (2003). Monetary Economics: S. Chand and Co., New Delhi				
Suggested Readings				
1. Laidler, David E.W. (1993). The Demand for Money: Theories and Evidence, Harper Collins College Publishers, UK.				
2. Cargill, Thomas F. (1979). Money, The Financial System and Monetary Policy, Prentice-Hall, Inc, New Jersey				
3. Eugene A Diulo, (1975) Money and Banking, McGraw Hill / Schaum’s Outline Series, New York.				
4. Newlyn, W.T. (1971). Theory of Money, Clarendon Press, Oxford				
Web Resources				
1. https://www.rbi.org.in/				
2. https://rbi.org.in/Scripts/Annualpolicy.aspx				
3. https://www.rbi.org.in/Scripts/BS_ViewBulletin.aspx?Id=3189				
4. https://www.cengage.co.in/				
5. https://www.researchgate.net/				
6. https://www.tutor2u.net/economics				

Course Outcomes (COs) and Cognitive Level Mapping

COs	CO Description	Cognitive Level
CO 1	To understand and recall the concepts of Money, Financial Markets, Financial Institutions and Monetary Policy in the economy.	K1, K2
CO 2	To apply and examine the contribution of various monetary theories in financial decision making.	K3
CO 3	To analyze and determine the Role of the monetary policies in creating sustainable and long term economic development.	K4
CO 4	To evaluate the reforms in financial markets and the policies of the banking sector in India.	K5
CO 5	To integrate and propose a holistic monetary policy to resolve the real time challenges in the economy.	K6

Course Code	UEC 4501
Course Title	Statistical Methods for Economics
Credits	06
Hours/Week	06
Category	Major Core (MC) – Theory
Semester	IV
Regulation	2019
Course Overview	
<ol style="list-style-type: none"> 1. The course aims to develop skills in statistical analysis, which are commonly applied to understand and analyze economic problems. 2. The course is an introduction to the essential statistical tools and their application in economics. 3. The module includes both descriptive statistics and inferential statistics. 4. The topics under descriptive statistics include measures of central tendency, measures of dispersion and correlation. 5. The topics under inferential statistics include regression analysis, probability and theoretical distributions. 	
Course Objectives	
<ol style="list-style-type: none"> 1. To develop the students' ability to deal with numerical and quantitative issues in Economics. 2. To enable the use of statistical, graphical and algebraic techniques in Economics 3. To have a proper understanding of Statistical applications in Economics and business. 	
Prerequisites	Simple arithmetic operations.

SYLLABUS

UNIT	CONTENT	HRS	COs	COGNITIVE LEVEL
I	Measures of Central Tendency Statistics: Definition, features, functions and limitations – Classification of data - Graphical representation of data - Measures of Central tendency: Arithmetic Mean, Median and Mode	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
II	Measures of Dispersion Measures of Dispersion: Range, Quartile deviation, Mean Deviation, Standard deviation, Coefficient of Variation	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
III	Correlation and Regression Correlation: Definition and types - Methods: Karl Pearson's Coefficient of Correlation, Spearman's Rank Correlation; Regression: Definition and types - Simple	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6

	regression with one independent variable: Regression lines, Regression equation, Regression Coefficient			
IV	Probability and Expectations Classical Probability – Conditional Probability – Axioms (Theorems) of Probability – Random variable and Expectations.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
V	Theoretical Distributions Binomial distribution: Properties and uses; Poisson distribution: Properties and uses; Normal distribution: Properties and uses, Area under the Normal curve	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
Text Books				
<ol style="list-style-type: none"> 1. Gupta S.P. (1998) Statistical Methods (latest edition) New Delhi: Sultan Chand and Sons Publishers. 2. R.S.N. Pillai and Bagavathi (2008) Statistics: Theory and Practice, 7th revised edition, S.Chand, New Delhi. 3. Mood A.M. and Graybill F.A. (1974) Introduction to the Theory of Statistics. 				
Suggested Readings				
<ol style="list-style-type: none"> 1. Agarwal B.L. (1988) Basic Statistics, Wiley Eastern Ltd, New Delhi. 2. P.N. Aurora, Sumeet Arora, S. Aurora (2007) Comprehensive Statistical Methods S. Chand, New Delhi. 3. Fox, James Allen (1991) Elementary Statistics in Social Research 5th edition. 4. Goon A.M. Gupta M.K. and Dasgupta B. (1998) An Introduction to Statistical Theory. 5. Dwass .M (1970) Probability Theory and Expectations. 				
Web Resources				
<ol style="list-style-type: none"> 1. https://stattrek.com/ 2. https://www.discoveringstatistics.com/ 				

Course Outcomes (COs) and Cognitive Level Mapping

COs	CO Description	Cognitive Level
CO1	To understand and develop computational skills in fundamental statistical analysis.	K1 K2
CO2	To apply appropriate statistical tools to understand relationship between economic variables.	K3
CO3	To demonstrate the understanding of descriptive statistics by practical application.	K4
CO4	To apply statistical methods for prediction and forecasting.	K5
CO5	To identify and construct basic statistical tools with emphasis on applications to business and economic situations	K6

Course Code	UEC 4601
Course Title	MANAGERIAL ECONOMICS
Credits	06
Hours/Week	06
Category	Major Elective (ME) - Theory
Semester	IV
Regulation	2019
Course Overview	
<ol style="list-style-type: none"> 1. This Module is a branch of economics that applies microeconomic theory, mathematical and statistical techniques to analyze business decision making. 2. The aim of this paper is to equip students with the necessary theory and able techniques to apply them in order to enhance managerial decision making. 3. The content of this module examines the significance of Managerial Economics, demand forecasting, cost of production, pricing strategies and capital budgeting. 4. This paper can help students to apply the economic way of thinking to individual decisions and business decisions 5. The core aspects of this module includes: alternative objectives of the firm, role of cost in pricing, methods of Demand forecasting, pricing process, techniques of Investment Appraisal. 	
Course Objectives	
<ol style="list-style-type: none"> 1. To make the students learn how the techniques and theories of microeconomics can be used to explain the business and consumer's behaviors. 2. To facilitate the students to understand and analyze different methods of demand forecasting. 3. To estimate the methods of measurement of different techniques used in cost functions and its impacts in the short and long run decisions of the firm and industry. 4. To make the learner familiarize with various pricing practices and strategies of the firms. 5. To develop analytical capacity and problem-solving skills among learners of this module. 	
Prerequisites	Basic knowledge on Microeconomics and Mathematical quantitative techniques

SYLLABUS

UNIT	CONTENT	HRS	COs	COGNITIVE LEVEL
I	Unit – I: Introduction Definition, meaning and significance of Managerial Economics – its relationship to economic theory and business decisions – alternative objectives of firms- Decision analysis	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K4, K5,K6
II	Unit – II: Demand Forecasting Demand Forecasting – purpose and steps involved in demand forecasting – determinants of demand forecasting – methods of demand forecasting –criteria for the choice of good forecasting method	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6
III	Unit – III: Cost and production Cost and managerial decision making – various types of costs – Economies of scale-an evaluation of Breakeven analysis.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
IV	Unit – IV: Pricing practices and strategies Pricing methods - pricing objectives- pricing process- Role of cost in pricing.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6
V	Unit – V: Capital Budgeting Cost of capital – Project profitability – Methods: Payback Period - Accounting Rate Return – Internal Rate of Return – Net Present Value method (Problems).	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6

Text Books for Study

1. P.L. Mehta, Managerial Economics Analysis, Problems and Cases, Sultan Chand & Sons, New Delhi.
2. R. L Varshney and K. L Maheshwari, Managerial Economics, 19th Revised and Enlarged Edition, Sultan Chand & Sons, New Delhi.
3. Dominick Salvatore, Managerial Economics in a Global Economy, 2nd Edition, McGraw-Hill Inc., New York
4. D. N. Dwivedi, Managerial Economics, Sixth Edition, Vikas Publishing House Pvt. Ltd. New Delhi.
5. Christopher R. Thomas and S. Charles Maurice. Managerial Economics – Foundations of Business Analysis and Strategy, 9th Indian Edition, McGraw Hill Education (India) PVT. LTD. New Delhi.
6. H.L. Ahuja. Managerial Economics Analysis of Managerial Decision Making, 9th Edition, S. Chand and Company, New Delhi

Suggested Readings

1. H. Craig Petersen and W. Cris Lewis. Managerial Economics, 2nd Edition, Macmillan Publishing Company, New York, London.

2. Geetika, Piyali Ghosh and Purba Roy Choudhury. Managerial Economics, 3rd edition, McGraw Hill Edition, New Delhi.
3. Joel Dean. Managerial Economics, Prentice – Hall – Inc.
4. Suma Damodaran. Managerial Economics, Oxford University Press. New Delhi.
5. M. Kasi Reddy and S. Saraswathi. Managerial Economics and Financial Accounting, Eastern Economy Edition, Prentice-Hall of India PVT. LTD. New Delhi.
6. Cohen, Kalman J and Richard M Cyert. (2000). The Theory of Firm: Resources Allocation in Market Economy, Prentice Hall of India Pvt. Ltd., New Delhi (Latest edition).

Web Resources

1. https://www.swlearning.com/economics/hirschey/managerial_econ/chap01.pdf
2. <https://studyfinance.com/>

Course Outcomes (COs) and Cognitive Level Mapping

COs	CO Description	Cognitive Level
CO 1	To understand and identify the micro and macroeconomic theories and principles to optimize economic decisions.	K1,K2
CO 2	To examine the application of economic methods in the managerial decision-making process.	K3
CO 3	To analyze and determine the problems of business decision making.	K4
CO 4	To evaluate and predict macroeconomic trends influencing managerial decision making.	K5
CO 5	To integrate the fundamental principles of economics to solve problems faced by organizations in a modern mixed economy.	K6

Course Code	UEC 4602
Course Title	OPERATIONS RESEARCH
Credits	4
Hours/Week	6
Category	ES
Semester	IV
Regulation	2019
Course Overview	
<ol style="list-style-type: none"> 1. To highlight the different phases of operations, research so as to understand the scope. 2. To provide a logical and systematic approach to the problem. 3. To suggest all the alternative courses of action for the management. 4. To facilitate the appropriate solution pertaining to the problem. 5. It helps in preparation of future managers by improving their knowledge and skills. 6. It leads to optimum use of production factors to achieve business goals. 	
Course Objectives	
<ol style="list-style-type: none"> 1. Formulate our real-life problems into a mathematical model. 2. Analyze transportation problems and identify optimum solutions. 3. Demonstrate sequencing and assignment problems and develop algorithms. 4. Review and evaluate the projects through PERT charts are used to create realistic schedules. 5. The use of inventory control is to meet unforeseen future demand due to variation in forecast figures and actual figures 	
Prerequisites	Basic knowledge of business economics and mathematics.

SYLLABUS

UNIT	CONTENT	HRS	COs	COGNITIVE LEVEL
I	Linear Programming – Formulations of Problems – Graphical Solutions – Simplex Algorithm.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
II	Transportation Problems – North West Corner Rule – Least Cost Method – Vogel’s Approximation Methods for Finding Initial Solution – Determination of Optimal Solution. Assignment Problems – Obtaining Optimal Solutions – Sequencing – Optimal Sequence Algorithm – (2, N), (3, N) and (M, N).	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6

III	Decision Theory – Concepts of Expected Monetary Value – Expected Value of Perfect Information and Expected Opportunity Loss - Risk and Uncertainty – Decision under Uncertainty using Laplace - Maximim – Minimax – Maximax – Minimin – Hurwicz and Savage methods.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
IV	Network Analysis – Fulkerson’s Rule - Critical Path Method – Project Evaluation Review Technique	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
V	Inventory Management (Only Deterministic Models) – Economic Order Quantity.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6

Text Books

1. Gupta. P.K., Hira D.S (1990). Operations Research, Sultan and Sons, New DelBooks for Study:
2. Swarup Kanti, Gupta and Man Mohan (1996). Operations Research. Sultan Chand and Sons, New Delhi.
3. Hamdy A Taha (2014). Operation Research: An Introduction, Pearson Education; 9th edition.
4. Prem Kumar Gupta (2007). Operation Research, SChand; Revised edition.
5. J. K. Sharma (2012). Operations Research: Theory and Application, MACIN; 5th Edition
6. Frederick K. Hiller, Bodhibrata Nag, PreetamBasu, Geralld J. Lieberman (2011). Introduction to Operation Research, McGraw Hill Education (India) Private Limited; 9th edition.

Web Resources

1. <https://www.freetechbooks.com/operations-research-f54.html>
2. https://en.wikibooks.org/wiki/Operations_Research
3. <https://www.doc.ic.ac.uk/~br/>

Course Outcomes (COs) and Cognitive Level Mapping

COs	CO Description	Cognitive Level
CO 1	To explain the historical background of operations research and and to formulate linear programming	K1,K2
CO 2	Transportation model is applied to determine the transportations cost	K3
CO 3	Sequencing and assignments problems can be applied to calculate the optimum time,labour and machine required to finish a particular job.	K4
CO 4	To evaluate and review the business project relies on the PERT AND CPM Model.	K5
CO 5	The inventory management is analyse the cost with respect to the stocks of materials	K6

Course Code	UEC 4603
Course Title	PRINCIPLES OF MARKETING
Credits	06
Hours/Week	06
Category	Major Elective (ME)
Semester	IV
Regulation	2019
Course Overview	
<ol style="list-style-type: none"> 1. This is an undergraduate elective course in marketing management. 2. The course aims to introduce the student to some basic terminologies and concepts which are used in the marketing field. 3. This course is structured that the student has a good exposure to both theory and practise, through various case studies et al. 4. Besides traditional concepts like the Marketing Environment, Marketing Mix and the 4P's of marketing, the course also introduces modern concepts like E-retailing, Green Marketing and Mobile marketing. 5. This course helps he students to explore the world of marketing management and provides a theoretical base for taking decisions on marketing. 	
Course Objectives	
<ol style="list-style-type: none"> 1. To understand marketing concepts and how they are inter-related. 2. How the internal and external environment of the business shapes business decisions and the need and importance of marketing analysis. 3. Get to know the traditional and modern components of the marketing mix and relate it to making marketing decisions in the modern world. 4. To provide a preliminary idea about E-Commerce, Mobile Marketing, Green Marketing etc. 	
Prerequisites	A desire to learn about how marketing management occurs.

SYLLABUS

UNIT	CONTENT	HRS	COs	COGNITIVE LEVEL
I	Unit – I: Market and Marketing – An Overview Introduction, Definition of Market, Types of Markets, Meaning and Definition of Marketing, Origin of Marketing, Scope of Marketing, Importance of Marketing, Functions of Marketing, Difference between Marketing and Selling.	18	CO 1, CO2, CO3, CO4 CO5	K1, K2, K3, K4, K5,K6
II	Unit – II: Marketing Environment Introduction, Need and Importance of Environmental Analysis, Methods of Analysis – SWOT, PEST, Internal Environment of the Organization, External Environment	18	CO 1, CO2, CO3, CO4 CO5	K1, K2, K3, K4, K5,K6
III	Unit – III: Marketing Mix Introduction, Evolution of the “Marketing mix”, Components of a traditional marketing mix, Additional components in the mix, Importance of marketing mix in marketing decisions.	18	CO 1, CO2, CO3, CO4 CO5	K1, K2, K3, K4, K5, K6
IV	Unit – IV 4P’S Product Related Decisions: Introduction, Features of a Product and its Classifications, Product Life Cycle. Pricing Decisions: Introduction, Price and its Determinants, Objectives of Pricing Decisions, Factors Affecting Pricing Decisions, Distribution Strategy: Introduction, Meaning, need for and Importance of Distribution Channel, Factors Influencing Channel Decisions, Promotion Mix: Introduction, Promotion mix and its components, Advertising, Sales Promotion, Personal selling, direct marketing, Public Relations and publicity, online marketing.	18	CO 1, CO2, CO3, CO4, CO5	K1, K2, K3, K4K5, K6
V	Unit – V: Recent Trends in Marketing Introduction, E-commerce, E-marketing, E-Retailing, Relationship marketing, Mobile marketing, Green marketing	18	CO 1 , CO2, CO3, CO4, CO5	K1, K2, K3, K4, K5,K6

Text Books

1. Philip Kotler and Kevin Lane Keller. Marketing Management, 15th Edition. Pearson
2. V.S. Ramasamy and S. Namakumari. Marketing Management: Indian Context Global Perspective. Sage Publications India Pvt Ltd.
3. Marketing Management-Indian Cases. Pearson.

Suggested Readings

1. Marketing Insights from A to Z: 80 Concerns every Manager needs to Know. Philip Kotler

Web Resources

1. <https://bit.ly/2Xo6lx5>
2. <https://www.coursera.org/in>
3. <https://bit.ly/3ALXpiA>

Course Outcomes (COs) and Cognitive Level Mapping

COs	CO DESCRIPTION	COGNITIVE Level
CO 1	To understand the core elements of marketing and its modern realities.	K1, K2
CO 2	To determine how marketing influences the company's vision and mission and how and when it succeeds in doing so.	K3
CO 3	To analyse various pricing, distribution and promotion strategies and the rapid changes taking place in them.	K4
CO 4	To evaluate the latest trends in marketing and how it enhances customer and societal well-being.	K5
CO 5	To use the knowledge learnt in this course to develop a marketing plan for a product under consideration.	K6

Course Code	UEC5501
Course Title	MACROECONOMICS -1
Credits	06
Hours/Week	06
Category	Major Core (MC) - Theory
Semester	V
Regulation	2019
<p>Course Overview</p> <ol style="list-style-type: none"> 1. This module provides a complete understanding of macroeconomic variables and key elements related to aggregate behavior of the economy. 2. This module analyzes macroeconomic models, and helps to explain the behavior of key macroeconomic variables 3. Macroeconomics - 1 is tailoring a preliminary head start to understand the basic nuances of macroeconomic theory and provides a base to the next level. 4. The module content is spread over with special characteristics with respect to all basic elements of macroeconomics. 5. This module showcases the Classicalists and Keynesianism schools of thoughts. 	
<p>Course Objectives</p> <ol style="list-style-type: none"> 1. To provide a better platform to the learners to understand the fundamentals of macroeconomics, 2. To facilitate the learners to understand the methods of measurement various techniques of National income concepts and estimators 3. To improve the ability of the learners to apply macroeconomic concepts to the complex real-life environment. 4. To analyze the ways of decision-making tools to achieve desired macroeconomic goals. 5. To enhance the capacity of the learners to understand the prevailing economic and business policy with respect to the country's economic status. 	
Prerequisites	Basic knowledge to understand the terminology of the economic concepts.

SYLLABUS

UNIT	CONTENT	Hrs	CO	Cognitive Level
I	Introduction to Macroeconomics Nature and scope of Macroeconomics – origin and growth of Macroeconomics - Macro & Micro Economics - Basic Concepts: Equation, Stock, Flow, Continuity, Period Analysis Variables; Functional relationship and Parameters; Time Series & Cross-sectional data analysis; Static, Comparative static, Dynamic analysis; Ex post & Ex ante – Limitations of Macro Economics.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
II	National Income Estimation National Income: Definitions and Concepts- GDP, GNP, NDP, NNP, Per Capita Income, Personal Income, GDP at Factor Cost, GDP at Market Price, Green GDP – Importance, Methods of Measurement and Difficulties in National Income Estimation – National Income Accounting – Circular flow of Income.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
III	Classical Theory of Output and Employment The Classical Postulates – Say’s Law of Markets: Implications and Criticism of the Law of Markets –Classical Theory of Employment: With and without savings - Pigou’s reformation of wage cuts for full employment.	18	CO1 CO2 CO3 CO4 CO5	K1, K2, K3, K4, K5, K6
IV	Keynesian theory of Income Determination Consumption function and Multiplier - Investment function: Marginal Efficiency of Capital - Liquidity preference and rate of interest – Principle of Accelerator - Concepts of Aggregate Demand and Aggregate Supply – Effective Demand	18	CO1, CO2, CO3 CO4 CO5	K1, K2, K3, K4, K5, K6

V	Keynesian - Classical Synthesis IS-LM Analysis – Comparison of Classical and Keynesian views on the determination of income, employment and output – Product market Equilibrium: Derivation of IS curve – Money Market Equilibrium: Derivation of LM Curve – General Equilibrium.	18	CO1 CO2 CO3 CO4 CO5	K1, K2, K3, K4, K5, K6
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Text Books:

1. D.N. Dwivedi. Macroeconomics Theory and Policy, 2 nd Edition, Tata McGraw-Hill Companies, New Delhi.
2. Robert E. Hall and David H. Papell. Macroeconomics - Economic Growth, Fluctuations and Policy, Viva-Norton Student Edition. New Delhi, Chennai.
3. Rudiger Dornbusch, Stanley Fischer and Richard Startz, Macroeconomics, 10 th Edition, Tata McGraw-Hill Edition, New Delhi.
4. Vanita Agarwal, Macroeconomics Theory and Policy, Pearson, New Delhi, Chennai.
5. M. C. Vaish, Macroeconomic Theory, 4 th Edition, Vikas Publishing House PVT. LTD. New Delhi.
6. Robert J Gordon. Macroeconomics, 12 th Edition, Pearson Indian Education Services PVT. LTD.
7. K.R. Gupta, Advanced Macroeconomics, Volume II, Atlantic Publishers & Distributors (P) LTD. New Delhi.
8. G.S. Gupta. Macroeconomics Theory and Applications, 4 th edition, McGraw Hill Education, Chennai.
9. Andrew B. Abel, Ben S. Bernanke and Dean Croushore. Macroeconomics, 7 th Edition, Pearson Indian Education Services PVT. LTD.
10. H.L. Ahuja. Macroeconomics Theory and Policy, 20 th Edition, S. Chand and Company Ltd. New Delhi.
11. Bradley R. Schiller. The Macro Economy Today, 11 th Edition, Tata McGraw-Hill Edition, New Delhi.

WEB RESOURCES:

1. <https://www.freakonomics.com/>
2. <https://www.cbsnews.com/moneywatch/>
3. <https://hbswk.hbs.edu/>
4. <https://economics.mit.edu/>
5. <https://www.economy.com/dismal/>

Course Outcomes (COs) and Cognitive Level Mapping

COs	CO Description	Cognitive Level
CO1	To identify and understand the basic concepts of an economy.	K1,K2
CO2	To associate and analyze with theoretical concepts with practical situations of an economy.	K3
CO3	To draw comparison and make an analytical study of various economic phenomena.	K4
CO4	To suggest and propose remedial measures for an economic situation.	K5
CO5	To construct or simulate a similar situation and bring about practical applicability of it.	K6

Course Code	UEC 5502
Course Title	FISCAL ECONOMICS
Credits	6
Hours/Week	6
Category	MC
Semester	V
Regulation	2019
Course Overview	
<ol style="list-style-type: none"> 1. Fiscal Economics helps us to know the role and the functions of government in the economy. It is the branch of economics that assesses the government's revenue and expenditure and the adjustment of one to another to achieve desirable effects and avoid undesirable ones. 2. The course introduces the importance of finance and by examining the nature, scope and the theories of Fiscal economics. Besides it also discusses the principles to achieve Maximum social advantages in the economy. 3. The course also explores the types, cannons and effects of public expenditure on the economy. 4. Besides, the course investigates the aspect of taxation and its types. It looks into the theories, cannons and features of different types of taxes. 5. The course looks into how Finance commissions shape the financial relations between the center and the states in India. It also gives an overview of the budget making process of the government and various other aspects associated with it. 6. Finally, the course looks at the impact, incidence and shifting of taxes. It explores the theories associated with it and the effects of these on various aspects of the economy. 	
Course Objectives	
<ol style="list-style-type: none"> 1. To understand the process, dealings of government expenditure, taxation and its sources. 2. To use economic analysis to predict and verify the effects of government intervention on economic affairs. 3. To study the behavior of central and state financial disputes. 4. To discuss the implications of policy efficiency and equity. 5. To critically analyze fiscal policies and its implication in Indian Economy. 	
Prerequisites	Basic knowledge and understanding of government policy on tax, expenditure and federal system of the country.

SYLLABUS

UNIT	CONTENT	HRS	COs	COGNITIVE LEVEL
I	Meaning and scope of Public Finance – Fiscal tools – Objectives of Fiscal operations - Functions of the State - Comparison of Public and Private Finance – Basic Theories of Public Finance: Classical and Keynesian - Principle of Maximum Social - Limitations of the Principle.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
II	Types, Canons, Growth – Effects of public expenditure on production, distribution, stability and economic growth & development	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
III	Theories of taxation: Cost of service – Benefit and ability theories – Objectives, Classification and Canons of taxation – Features of a good tax system – Effects of taxation of production and distribution - Taxable Capacity. Sources of revenue for the Central, State and local governments: Personal Income Tax – Corporate Income Tax – Professional Tax – Goods and Services Tax – Local finance.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
IV	Centre-State Financial relations – Role of finance commissions – Recommendations of Last two finance commissions. Union Budget: Revenue Budget and Capital Budget – Deficit financing in India – Causes and Consequences of deficit financing. Analysis of last two years Budgets.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
V	Meaning of impact, shifting and incidence – Distinction between impact and incidence - Theories of shifting tax incidence: concentration, diffusion and modern theories – Factors affecting incidence of a tax – Incidence of taxes under different market conditions – Criticisms of the theory of shifting.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6

Text Books

1. Tyagi B. P. (2005). Breham Prakash, Public Finance, Jai Prakash Nath and Co., Meerut
2. Bhatia, H.L. (2004). Public finance, Vikas Publications, New Delhi.

3. Andley and Sundaram. (2004). Public Finance, RatanPrakashan, Agra
4. Musgrave R. A. (2003). Theory of Public Finance, McGraw Hill Book Company, New Delhi.

Suggested Readings

1. Musgrave R. A & Musgrave P. B. (2004). McGraw Hill Publishing Company Ltd.
2. Chelliah, Raja J. (1960). Fiscal policy in Underdeveloped Countries with special reference to India, George Allen and Ltd., London
3. Dalton, Hume (1971). Principles of Public Finance, Routledge and Kegan Paul Ltd, London

Web Resources

1. <https://finmin.nic.in>
2. <https://www.indiabudget.gov.in/>
3. <https://www.india.gov.in/my-government/documents/policy>
4. <https://www.indiabudget.gov.in/>

Course Outcomes (COs) and Cognitive Level Mapping

COs	CO Description	Cognitive Level
CO 1	To understand the conceptual clarity of fiscal economics and the elements of major fiscal instruments embrace in government fiscal decisions	K1, K2
CO 2	To integrate and assess the principle of optimal taxation in analysing various governments tax policies and public expenditure to create fiscal stability of the country	K3
CO 3	To analyze the application of center- state financial relations and budget management to ensure the constitutional values of fiscal federalism	K4
CO 4	To evaluate the role of the finance commission and to comprehend various types of budgets to ensure the sustainable growth	K5
CO 5	To assess the impact, shifting and incidence of the tax system as a whole and incidence of taxes in different market conditions in current economic scenario	K6

Course Code	UEC 5503
Course Title	INTERNATIONAL ECONOMICS
Credits	06
Hours/Week	06
Category	Major Core (MC) - Theory
Semester	V
Regulation	2019
<p>Course Overview</p> <ol style="list-style-type: none"> 1. International Economics is a field in Economics that applies the microeconomic models to understand the international economy. 2. The course provides an introduction to the main theories of international trade, including neoclassical trade approaches and recent theories. 3. This course provides a critical overview of theoretical, empirical and policy issues relating to international economics. 4. The course also seeks to engage in a comprehensive discussion on India's foreign trade and details the direction of growth that India's foreign trade has taken. 5. The different modules are structured to provide a comprehensive outline to international relations and the various institutions involved in shaping it. 	
<p>Course Objectives</p> <ol style="list-style-type: none"> 1. To provide an insight into the differences and similarities between regional, national and global economies. 2. To help students develop conceptual understanding of the key concepts in international economics and practical applications of both international trade and domestic trade. 3. To provide a strong theoretical background to the students on the subject of international trade and outline the development of trade theories over the period of time, and help them to understand the empirical aspects such as trade reforms and their impact on Indian economy. 4. To allow students to gain an in-depth knowledge of the regional trade regimes and how the global economy functions. 5. To familiarize students with the different types of Terms of Trade and analyse the changing patterns of trade in real world scenarios. 6. To integrate international economics concepts with functioning of global trade. 	
Prerequisites	Basic knowledge on elementary economic concepts.

SYLLABUS

UNIT	CONTENT	HRS	COs	COGNITIVE LEVEL
I	Unit I: Introduction International trade: Meaning, scope and importance – Interdependence of International and Domestic Trade - Reasons for international Trade.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
II	Unit II: Classical and Modern Theories of International Trade Classical theory: Absolute and Comparative cost advantage theory; Modern theory: Huckster-Ohlin theory and Leontief Paradox.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
III	Unit III: Terms of Trade Meaning – Difference between balance of trade and terms of trade – limits of terms of trade; Types of terms of trade: Net and Gross terms of trade, Income terms of trade, Single factor terms of trade, Double factor terms of trade, Real cost terms of trade and Utility terms of trade – Factors affecting terms of trade – Gains arising out of International trade - Free Trade and Protection – Optimum Tariff.	18	CO 1 CO2 CO3 CO4 CO5	K1, K2, K3, K4, K5, K6
IV	Unit IV: Foreign Exchange Rates Foreign exchange rates – Different exchange rates – Fixed and Flexible exchange rates – Theories of Exchange rates: Mint- Paper theory and Purchasing Power Parity theory – India's exchange rate policy.	18	CO1 CO2 CO3 CO4 CO5	K1, K2, K3, K4, K5, K6
V	Unit V: India's Foreign Trade Foreign trade of India: Composition and direction of India's International Trade – Recent import and export policies of Government of India – Impact of Globalization on the pattern of trade – Meaning of convertibility of current and capital accounts - SAARC – G20 – BRICS -Role of IMF, IBRD and WTO	18	CO1 CO2 CO3 CO4 CO5	K1, K2,K3, K4, K5,K6
Text Books				
<ol style="list-style-type: none"> 1. Dominick Salvatore. (2011). International Economics: Trade and Finance, John Wiley International Student Edition, 10th edition. 2. Paul Krugman, Maurice Obstfeld and Marc Melitz. (2012). International Economics: Theory and Policy, Addison- Wesley, Pearson Education Indian Edition. 9th Edition. 3. Souderton, BO and Geoffrey Reed. (1998). International Economics (3rd Edition), Macmillan Education Ltd. Hong Kong. 4. Salvatore D. (1990). Schaum's Outline of theory and problems of international economics, Schaum's, Delhi. 5. Cherunilam, Francis. (1998). International Business: Wheeler Publishers, New Delhi. 				
Suggested Readings				

<ol style="list-style-type: none"> 1. Lipsey, Richard, G. (1969). Introduction to Positive Economics, English Language Book Society and Weidenfeld and Nicolson, London. 2. Mannur, H.G. (1993). International Economics: Theory and Policy Issues, Vikas Publishing House Pvt. Ltd, New Delhi. 3. International Trade Journal 4. International Review of Applied Economics 5. Journal of International Development
<p>Web Resources</p> <ol style="list-style-type: none"> 1. https://commerce.gov.in/ 2. https://ipindia.gov.in/

Course Outcomes (COs) and Cognitive Level Mapping

COs	CO Description	Cognitive Level
CO 1	To understand and identify the key concepts and elements of international trade and international finance.	K1,K2
CO 2	To apply and examine various trade theories to understand the trade reforms for better decision making in terms of economic development.	K3
CO 3	To analyze the links between trade, international finance, economic growth and globalization with a particular emphasis on the experience of developing countries.	K4
CO 4	To evaluate the changing patterns of trade and to determine the role of various entities in the changing real world scenario.	K5
CO 5	To critically comment on and participate in current debate on international economic policy decisions.	K6

Course Code	UEC 5504
Course Title	BASIC ECONOMETRICS
Credits	06
Hours/Week	06
Category	Major Core (MC) - Theory
Semester	V
Regulation	2019
Course Overview	
<ol style="list-style-type: none"> 1. Introductory Econometrics is an interdisciplinary paper that uses economic theory, mathematics and statistical inference to quantify economic phenomena. In other words, it is the application of statistical methods to economic data that gives empirical content to economic relationships. 2. This course introduces econometrics by discussing the nature, scope, its application and usage. It exhibits how economic theory, statistical inference and mathematics are integrated to study various economic relationships. 3. It discusses the various statistical concepts and theories like random variables, Probability distribution function and Central limit theorem. 4. It helps examine the various methods of estimation and the attributes of a good estimator. 5. It introduces the idea of Linear Regression and various terms and concepts associated with it like, population and sample regression function, error term, etc. 6. It discusses the Classical Linear Regression Model and the various aspects related to it. Besides, it helps derive the normal equations using the method of Ordinary Least Square. 	
Course Objectives	
<ol style="list-style-type: none"> 1. To Identify and discuss the basic terms and concepts of econometrics 2. To apply the various concepts and theories associated with econometrics in real life instances to predict and forecast economic fluctuations. 3. To analyze and solve the issues in the Economy with help of Econometrics. 4. To appraise the practical applicability of Econometrics to study the interrelationship of various variables. 5. To adapt and facilitate the use of various concepts and models of Econometrics in related disciplines of economics. 	
Prerequisites	Knowledge on concepts related to statistics and mathematics that are fundamental to the understanding of econometrics.

SYLLABUS

UNIT	CONTENT	HRS	COs	COGNITIVE LEVEL
I	Nature and scope of Econometrics Nature and scope of econometrics: The Econometric approach – Economic theory – Statistics, Mathematics and Econometrics – Divisions of Econometrics.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
II	Random Variables and Probability Random Variables and Probability Distribution Function: Marginal and Conditional Probability Density Functions – From Population to Sample – Probability Distribution of the Sample Mean – Central Limit Theorem.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
III	Methods of Estimation Methods of Estimation: Point Estimation and Interval Estimation – Properties of a Good Estimator - Confidence Interval Approach to Hypothesis testing.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
IV	Basic Ideas of Linear Regression Basic Ideas of Linear Regression: The Two-Variable model – Population Regression Function (PRF) and Sample Regression Function (SRF) – Stochastic Specification of PRF – Nature of Stochastic Error Term- Stochastic Assumptions of Error term 'Ui' – Two variable vs Multiple Linear Regression.	18	CO1, CO2, CO3, CO4, CO5	K1, K2, K3, K4, K5, K6
V	Linear Regression Model - Estimation The Classical Linear Regression Model – Estimation of Parameters: Method of Ordinary Least Squares (OLS) – Derivation of the Two Normal Equations – Variances and Standard Errors of OLS estimators – Testing the Goodness of Fit using r^2 , The Coefficient of Determination – Tests of Significance of Individual Regression Coefficient.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6

Text Books

1. Gujarati, Damodar. (1999). Essentials of Econometrics, 2nd Edn, McGraw - Hill companies, Inc, USA McGraw Hill, Inc.
2. Madnani, G.M.K. (1994). Introduction to Econometrics: Principles and Applications, New Delhi: Oxford and IBH Publishing Co Pvt. Ltd.
3. Mehta, B.C. and Arun C. Mehta. (1987). Fundamentals of Econometrics, Delhi, Himalaya Publishing House.
4. Johnson, Aaron C Jr et al. (1987). Econometrics: Basic and Applied, New York: Macmillan Publishing Co.
5. Koutsoyiannis, A. (1979). Theory of Econometrics: An Introductory Exposition to Econometric Methods, London and Basingstoke: The Macmillan Pres Ltd.

Suggested Readings

1. Economic Development and Cultural Change.
2. American Economic Review.
3. Review of Economics and Statistics.
4. Journal of Economic Perspectives.
5. Econometrica.

Web Resources

1. <https://bit.ly/2XnrA21>
2. <https://bit.ly/3APGyeD>
3. <https://bit.ly/3AY6JjG>

Course Outcomes (COs) and Cognitive Level Mapping

COs	CO Description	Cognitive Level
CO1	To Identify and discuss the basic terms and concepts of econometrics	K1, K2
CO2	To Apply the various concepts and theories associated with econometrics in real life instances to predict and forecast economic fluctuations.	K3
CO3	To Analyse and solve the issues in the Economy with help of Econometrics.	K4
CO4	To Appraise the practical applicability of Econometrics to study the interrelationship of various variables.	K5
CO5	To Adapt and facilitate the use of various concepts and models of Econometrics in related disciplines of economics.	K6

Course Code	UEC 5601
Course Title	HUMAN RESOURCE MANAGEMENT
Credits	04
Hours/Week	06
Category	ELECTIVE SUBJECT (ES) - Theory
Semester	V
Regulation	2019
Course Overview	
<ol style="list-style-type: none"> 6. To Familiarize the students the concept of Human Resources 7. The aim of the course is to give to an understanding about the work environment. 8. The course also focuses on recruitment process of an organisation 9. In this course the various forms of motivation and leadership qualities are dealt 10. The trend and scope of human resources is analysed 	
Course Objectives	
<ol style="list-style-type: none"> 1. To understand the importance of Human Resources 2. To understand the Human Resource planning and Employee Reward System 3. To understand the importance of motivation and leadership qualities 4. To apply the knowledge of Human resources in enhancing productivity 	
Prerequisites	Basic Knowledge on organisation

SYLLABUS

UNIT	CONTENT	HOURS	COs	COGNITIVE LEVEL
I	Human Resource Management Human Resource as a unique factor of production – Nature, Scope and Objectives – Nature of organizations – Personal Policies and Principles – Human Resource Accounting and Auditing.	18	CO1 CO2 CO3 CO4 CO5	K1, K2, K3, K4,K5,K6
II	Human Resource Planning and Employee Reward System Meaning – Process of Human Resource Planning – Factors affecting human resource planning - Job analysis – Recruitment and	18	CO1 CO2 CO3 CO4 CO5	K1, K2, K3, K4,K5,K6

	selection – orientation and Placement – Theories of wages – Money as a means of reward – Employee maintenance – Quality of work life..			
III	Unit – III: Motivation Theories of Motivation – Maslow’s Hierarchy Needs – Herzberg’s Two Factor Model – Other Theories – Behavioral modification – Motivation concepts.	18	CO1 CO2 CO3 CO4 CO5	K1, K2, K3, K4, K5, K6
IV	Unit–IV: Leadership, Communication and Counseling Nature of Leadership behavior – Leadership Style – Employee participation – Benefits of participation – Communication – Communication process – Communication systems – Employee counseling.	18	CO1 CO2 CO3 CO4 CO5	K1, K2, K3, K4, K5, K6
V	Unit–V: Industrial Relations and Future Directions in HRM Nature of industrial relations – Parties to Industrial relations – Trade unions – Collective bargaining – Dispute management – Role of government and legislation – Personnel functions in future – New challenges in Human Resource Management – Research in Human Resource Management – Trends in Human Resource Management in India.	18	CO1 CO2 CO3 CO4 CO5	K1, K2, K3, K4, K5, K6

Text Books

1. Aswathappa. K. (2013). Human Resource Management, McGraw Hill Education (India) Private Limited.
2. Aswathappa K. Human Resource Management, Text and Cases 8th Edition New Delhi: Tata Mc Graw Hill 2017.
3. Gupta, C.B. Human Resource management. Text and Cases 19th Edition New Delhi: Sultan Chand, 2017.
4. Prasad, L.M. Human Resource management. New Delhi: Sultan Chand, 2017
5. Jyothi. P. D. N. Venkatesh (2012). Human Resource Management, Oxford University Press, India.
6. Tnuja Agarwal (2007). Strategic Human Resource Management, Oxford University Press, India.
7. Rao Venkateshware and T. Pareek Udai (1981). Designing and Managing human resource systems, Oxford and IBH publishing, New Delhi.

Suggested Readings

1. Edward E. Lawler and John W. Bourdean (2012). Effective human resource management: A Global analysis, Stanford business books.

2. Kenneth M. York (2010). Human resource management, Sage Publications India Pvt. Ltd, New Delhi.
3. Dessler, Gray (2012). A framework for human resource management, Pearson 6th Edition.\
4. Noe Raymond A. John R. Hollenback, Barry Gerhart and Patrick M. Wright (2013). Human resource management: Gaining a competitive advantage, 8th edition, Mc Graw Hill/Irwin, New Delhi.
5. David A., Stephen Robbins (2014). Fundamentals of human resource management, 10th edition, New York press.

Web Resources

1. <https://www.humanresources.org/>
2. <https://www.shrm.org/>
3. https://www.hr.com/en?t=/Default/spl_login

CO's	CO Description	Cognitive Level
CO 1	To understand and recall the importance of Human Resource	K1, K2
CO 2	To apply and develop Human resource policies for better productivity	K3,
CO 3	To determine motivational factors and enhance leadership skills for a better work environment	K4
CO 4	To assess and interpret the gamut of employability and promoting entrepreneurship	K5
CO 5	To design and formulate a feasible work environment at the global level.	K6

Course Code	UEC 5602
Course Title	TAMIL NADU ECONOMY
Credits	06
Hours/Week	06
Category	Major Elective (ME) - Theory
Semester	V
Regulation	2019
Course Overview	
<p>1. Tamil Nadu Economy subject gives a clear picture about the relevance of regional economy and its share in the National Economy, geographical features and the human development index of Tamil Nadu Economy.</p> <p>2. The aim of this subject is to create awareness about the agricultural development, marketing, distress (Farmer Suicide) and Agriculture Finance.</p> <p>3. This subject also examines the Industrial Sector under that industrial clusters, MSME Sector, Khadi and Village Industries in Tamil Nadu, Industrial Financial Institutions and Industrial Estates in Tamil Nadu.</p> <p>4. This course also examines the State Finance (Fiscal) and service sector like Population, health and nutrition, education, water supply and housing apart from this it also includes transport, banking and information technology.</p> <p>The general issues and performance in Tamil Nadu include, tourism and medical tourism, women development programmes, environmental protective measures, poverty alleviation programmes, education and health care related government schemes, programmes for mitigating unemployment.</p>	
Course Objectives	
<ol style="list-style-type: none"> 1. Outline the relevance of the regional economy 2. Explain the characteristics of agriculture in Tamil Nadu 3. Analyze the industrial development in Tamil Nadu 4. Evaluate the service sector in Tamil Nadu 5. Assess the performance of tourism in Tamil Nadu 	
Prerequisites	Basic knowledge on regional economy and various sectors participation in Tamil Nadu

SYLLABUS

UNIT	CONTENT	HRS	COs	COGNITIVE LEVEL
I	Meaning of a regional economics – The geographical features of Tamil Nadu – Natural Resources in Tamil Nadu – Economic and Social Indicators: Human Development Index – Gender Disparity Index - Poverty Index – Life Expectancy- Literacy Rate- Work Participation Rate – Unemployment Rate.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5,K6
II	Agriculture – land use pattern – cropping pattern – irrigation pattern – Major, seasonal and perennial crops - Agricultural marketing – defects and remedial measures – Issues and Policies- Agricultural distress – increasing cost of cultivation, non-farm employment and dearth of farm labor, urbanization –Framer suicide - Agricultural finance – NABARD – RRB – crop insurance.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
III	Industrial Clusters and its distribution in Tamil Nadu:Kancheepuram – Silk, VaniyambadiAmburand Dindigul– Leather, Coimbatore – Tiruppur – cotton and knitwear, Erode Sennimalai – handloom and dyeing, Namakkal – Poultry (egg and broiler), lorry building, Sivakasi – Printing, match and fireworks –MSME – Khadi and Village Industries - Industrial Financial Institutions – TIDCO, TIIC, SIPCOT; Industrial Estates in Tamil Nadu – DIC, EPZ, SPZ, SEZ.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5,K6
IV	State Finance – Revenue and Expenditure of the State – Tamil Nadu’s recent Budget - Finance Commission- Service Sector: Recent Population Census-Health and Nutrition – Education - Water Supply- Housing - Infrastructure in Tamil Nadu: Power – Transport – Banking and Information Technology.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6
V	Tourism and Medical Tourism – Women Development Programme – Environmental Protective Measures in Tamil Nadu – Poverty	18	CO 1 CO 2 CO 3	K1, K2, K3, K4,K5,K6

	Alleviation Programmes – Education and Health Care related Government Schemes – Programmes for mitigating Unemployment.		CO 4 CO 5	
Text Books				
<ol style="list-style-type: none"> 1. Kurien C.T and James Joseph (1979), “Economic Change in Tamil Nadu: A Regionally and Functionally Disaggregated Study”, Allied Publishers Pvt. Ltd. New Delhi. 2. Leonard S.J. A.G.(2006), “ Tamil Nadu Economy”, Macmillan India Ltd., New Delhi. 3. Naganathan. M (2002) “Tamil Nadu Economy – Trends and Prospects”, University of Madras. 4. Rajalakshmi.N (1999), “Tamil Nadu Economy”, Business Publishers, Bombay. 				
Suggested Readings				
<ol style="list-style-type: none"> 1. Indian journal of Agriculture Economics 2. Economic and political weekly 3. Southern Economist 4. Yojana 				
Web Resources				
<ol style="list-style-type: none"> 1. https://www.tn.gov.in/ 2. https://www.webindia123.com/tamilnadu/economy/agriculture.htm 3. https://www.cmie.com/ 4. https://tidco.com/ 				

Course Outcomes (COs) and Cognitive Level Mapping

COs	CO Description	Cognitive Level
CO 1	To understand the relevance of the regional economy from global perspective	K1, K2
CO 2	To integrate and assess the characteristics of agro based economy in Tamil Nadu	K3
CO 3	To analyze and determine the role of Government in emerging industrial development in Tamil Nadu	K4
CO 4	To evaluate the resources and major economic sectors in Tamil Nadu	K5
CO 5	To assess and formulate the economic policy for the better performance of Tamil Nadu	K6

Course Code	UEC 5603
Course Title	ECONOMICS OF GROWTH AND DEVELOPMENT
Credits	04
Hours/Week	06
Category	ELECTIVE SPECIAL
Semester	V
Regulation	2019
Course Overview	
<ol style="list-style-type: none"> 1. Economics of Growth and Development is a new, exciting and challenging course integrating disciplines of economics and political economy. 2. The aim of the course is to give us a deeper understanding of the economic, social, political and institutional mechanisms through which people can enjoy improvements in living standards. 3. The Course is divided into five units. The units are so structured so as to introduce the learner to a fairly theoretical yet analytical overview to various concepts of growth and development. 4. This course introduces the various development indices. It talks about structural issues concerning poverty and inequality and their measures various models of development and dualism and finally touches on the environmental impact on development, the Sustainable Development Goals and the challenges and opportunities that women pose in pursuit of economic development. 5. This course lasts over a semester and provides senior undergraduate students with ideas and subject knowledge to pursue higher studies in development policy. 	
Course Objectives	
<ol style="list-style-type: none"> 1. To provide students with a basic headstart with concepts of growth and development and its various measures and culminating with Sen's capability approach. 2. To introduce concepts of poverty and inequality and their popular measures like Lorenze curve, Kuznets's ratio, Gini-Coefficient, Poverty Line etc. 3. To provide a theoretical framework on the various models of dualism like Lewis, Fei Ranis, Jogerson and a critique of dualism. 4. To analyse how achievement of Sustainable Development Goals are an important indicator of development and what India has achieved in the area of SDG'S and yet to achieve in this area. 5. To showcase the nexus between the environment and development, and how women can be leveraged to contribute to the development of a nation and the challenges that they pose. 	
Prerequisites	Basic ideas of Micro, Macro with some basic mathematical maturity.

SYLLABUS

UNIT	CONTENT	HR S	Cos	COGNITIVE LEVEL
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I	<p>Unit I – Introduction to Growth and Development</p> <p>Meaning of Growth and Development – Distinction between Growth and Development – Determinants of Growth and Development - Measurement of Growth and Development – PQLI; HDI; Gender Development Index; Gender Empowerment Index; Global Hunger Index – Sen’s Capability Approach.</p>	18	CO 1, CO2, CO3, CO4, CO5,	K1, K2, K3, K4,K5,K6
II	<p>Unit II – Theories of Development</p> <p>Adam’s Smith’s views about growth - Karl Marx’s Theory of Development - Rostow’s stages of Growth – Rosenstein Rodan’s Big Push Theory – Ragnar Nurske’s Balanced Growth – Hirschman’s Unbalanced Growth theory – Leibenstein’s Critical Minimum Effort theory – Nelson’s Low Level Equilibrium Trap.</p>	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6
III	<p>Unit III – Theories of Dualism</p> <p>Types of Dualism - Social, technical and financial dualism; Dual models on development planning: Lewis model of economic development, Ranis and Fei model, Jorgenson’s model, Criticism of development planning models.</p>	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6
IV	<p>Unit IV – Inequality, Poverty and Development</p> <p>Inequality in Income and Wealth Distribution – Axioms of Inequality Measurement- Popular Measures - Kuznet’s Curve; Lorenz Curve; Gini – coefficient. Poverty- Meaning- Absolute and Relative Poverty - Axioms of Measurement of Poverty; Popular Measures – Poverty Line; Head Count Ratio; Multi-Dimensional Poverty Index – Vicious Circle of Poverty.</p>	18	CO 1, CO2, CO3, CO4, CO5	K1, K2, K3, K4,K5,K6

V	<p>Unit V – Environment, Sustainability and Gender</p> <p>Environment Versus Development – Sustainable Development – Definition and concept; Environmental Kuznets Curve; Green GDP - Millennium Development Goals (MDGs) and Sustainable Development Goals (SDGs); India’s Status in achieving SDGs – Challenges in achieving SDGs. Role of Women in the Development of a Nation – Current Status of women and their labour force participation- impact on Development – Opportunities and Challenges.</p>	18	CO 1, CO2, CO3, CO4, CO5	K1, K2, K3, K4,K5,K6
<p>Text Books</p> <ol style="list-style-type: none"> 1. Economic Development by Michael P Todaro and Stephen. C. Smith 12 th Edition. Pearson Publications. 2. Development Economics-Debraj Ray. Princeton University Press. 3. Growth and Development with special reference to developing economies. A.P. Thirwall. Macmillan Press Ltd. 6th Edition. 4. Introduction to Development Economics. Third Edition. Subrata Ghatak. Routledge London and New York. 				
<p>Suggested Readings</p> <ol style="list-style-type: none"> 1. Development as Freedom by Dr. Amartya Sen. Alfred A Knopf Inc. 				
<p>Web Resources</p> <ol style="list-style-type: none"> 1. https://scholar.google.co.in/ 2. https://www.researchgate.net/ 3. https://bit.ly/3vmGiCU 4. https://micromasters.mit.edu/dedp/ 				

Course Outcomes (COs) and Cognitive Level Mapping

<u>COs</u>	CO Description	Cognitive Level
CO 1	To understand the intuition of various concepts of growth and development and to discover that growth is necessary but not sufficient for development.	K1, K2
CO 2	To compare the different theories of economic growth and associate their relevance to the problem of economic development of the less developed countries.	K3
CO 3	To critically appraise the subject literature and connect it to various contemporary socio-political-economic paradigms and the policies of the State.	K4
CO 4	To assess broad concerns of gender disparity, sustainability, environmental concerns and evaluate various socio-economic policies used to address them.	K5
CO 5	To compile the knowledge learnt from the course and formulate multi-dimensional welfarist solutions to the socio-economic problems of inequality, poverty etc.	K6

Course Code	UEC 6501
Course Title	MACROECONOMICS -II
Credits	06
Hours/Week	06
Category	Major Core (MC) - Theory
Semester	VI
Regulation	2019
<p>Course Overview</p> <ol style="list-style-type: none"> 1. This module includes the rest of the next level concepts, theories, models and applications of macroeconomics. 2. The module basically takes the learner mostly into the realistic economic applications and growth models which lay the platform of the country's macro policies and its impact. 3. The need and importance of two sides of the country's economic state such as Fiscal and Monetary policies are elaborated in this module. 4. This course also makes the learners understand the interdependence of Microeconomics to Macroeconomics and its reversal. 5. This Module facilitates the learners to assess the existing policies and forecast to recommend necessary changes to the country's need in the long run. 	
<p>Course Objectives</p> <ol style="list-style-type: none"> 1. To make the learners understand how household consumption decisions influence the economy as a whole. 2. To understand the reasons behind the evolution of various Macroeconomic models with evidence. 3. To provide a better platform to the learners to improve the analytical skills of various models of macroeconomics, 4. To facilitate the learners to remove observed constraints in the methods of estimation of a country's economic standby. 5. To improve the technical and analytical skills of the learners to apply macroeconomic concepts to the complex real-life environment by providing innovative ideas. 	
Prerequisites	The student has to complete Macroeconomics - I offered in the previous semester to take up this course.

SYLLABUS

UNIT	CONTENT	HRS	COs	COGNITIVE LEVEL
I	Post-Keynesian Consumption Functions: Absolute Income Hypothesis, Relative Income Hypothesis and Permanent Income Hypothesis – Life Cycle Hypothesis.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
II	Inflation and Unemployment: Meaning of Inflation – types of Inflation – Measurement of Inflation – causes and cure of Inflation: the economic effects of Inflation–the Classical and Neo-classical theories of Inflation – the Keynesian theory of Inflation – Modern theories of Inflation – measures to control inflation - inflation and rate of unemployment –modifications in Phillips’s curve.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
III	Business Cycles: Meaning and types of Cycles; Phases of a Business cycle; Theories of business cycle: Hawtrey’s Monetary Theory of Trade Cycle; Schumpeter’s Theory of Innovations; Keynesian Theory of Trade Cycle; Samuelson’s Model of Trade Cycle; Hicks’s Model of Trade Cycle; Kaldor’s Model of the Trade Cycle	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
IV	Models of Growth: Harrod - Domar Growth Model – Theory of income distribution: Kaldors’s Model of income determination through differential saving	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
V	Theory of Income Stabilization: Role of Monetary and Fiscal Policies in maintaining real economic growth with stability.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6

Text Books

1. Rudiger Dornbusch, Stanley Fischer and Richard Startz, Macroeconomics, 10th Edition, Tata McGram-Hill Edition, New Delhi.
2. D.N. Dwivedi. Macroeconomics Theory and Policy, 2nd Edition, Tata McGraw-Hill Companies, New Delhi.
3. Robert J Gordon. Macroeconomics, 12th Edition, Pearson Indian Education Services Pvt. Ltd.
4. M. C. Vaish, Macroeconomic Theory, 4th Edition, Vikas Publishing House PVT. LTD. New Delhi.

- Andrew B. Abel, Ben S. Bernanke and Dean Croushore. *Macroeconomics*, 7th Edition, Pearson Indian Education Services Pvt. Ltd.

Suggested Readings

- Vanita Agarwal, *Macroeconomics Theory and Policy*, Pearson, New Delhi, Chennai.
- K.R. Gupta, *Advanced Macroeconomics*, Volume II, Atlantic Publishers & Distributors (P) LTD. New Delhi.
- G.S. Gupta. *Macroeconomics Theory and Applications*, 4th edition, McGraw Hill Education, Chennai.
- H.L. Ahuja. *Macroeconomics Theory and Policy*, 20th Edition, S. Chand and Company Ltd. New Delhi.
- Bradley R. Schiller. *The Macro Economy Today*, 11th Edition, Tata McGraw-Hill Edition, New Delhi.

Web Resources

- <https://www.rbi.org.in/>
- <https://www.investopedia.com/>
- <https://web.stanford.edu/~sargent/ljungqvist.html>
- https://en.m.wikibooks.org/wiki/Macroeconomics/Savings_and_Investment
- <https://www.google.com/search?tbm=bks&q=macroeconomics>

Course Outcomes (COs) and Cognitive Level Mapping

COs	CO Description	Cognitive Level
CO 1	To understand the theoretical base of various macroeconomic variables, and the intuition and rationale of various macroeconomic stabilization policies.	K1, K2
CO 2	To determine and explain how the above theoretical concepts are related and how they influence and are in turn influenced by each other.	K3
CO 3	To analyse and develop a critical appraisal of various macroeconomic models and policies and how they are relevant for the current macroeconomic environment	K4
CO 4	To compare various exogenous shocks to the above macroeconomic models and predict its various effects on equilibrium and other macroeconomic situations.	K5
CO 5	To construct ways in which a combination of such policies will affect various macroeconomic targets and lead to socially desirable outcomes.	K6

Course Code	UEC 6502
Course Title	PORTFOLIO MANAGEMENT
Credits	06
Hours/Week	06
Category	Major Core (MC) – Theory
Semester	VI
Regulation	2019
Course Overview	
<ol style="list-style-type: none"> 1. This course provides a broad overview of investment management, focusing on the application of finance theory and investment decision making by understanding risk-return trade-off. 2. It also acquaints students with a basic introduction to portfolio theory and study various methods of modelling the risk associated with stock investment such as the capital asset pricing model and arbitrage pricing theory. 3. It also provides an insight to the concept of market efficiency and helps students to understand the different versions of the Efficient Market Hypothesis 4. The conceptual framework of the course introduces various derivatives and covers the options pricing models using the Binomial and Black-Scholes approach. A wide range of futures and swaps dealing strategies, along with their applications to hedging and risk management is explained. 5. This course also aims at providing an in-depth understanding of financial derivatives in terms of concepts, structure, instruments and trading strategies for profit and risk management. 	
Course Objectives	
<ol style="list-style-type: none"> 1. To provide in-depth knowledge on conceptual foundation of investment environment and present a comprehensive coverage of investment process and various investment avenues. 2. To prepare students to identify, select, and construct optimal portfolios and evaluate them using selected models. 3. To understand the importance of information and market behaviour upon efficient markets using theoretical and empirical evidence. 4. To Identify the application of derivative instruments to hedge risk and to evaluate risks and pay-offs associated with trading of derivative instruments and their implications. 5. Understand the basic risk management and trading strategies using financial derivatives. 	
Prerequisites	Basic knowledge of concepts in statistics

SYLLABUS

UNIT	CONTENT	HOURS	Cos	COGNITIVE LEVEL
I	Definition of Investment - Concept of Risk and Return - Investment venues - Definition of Portfolio Management, Functions of Portfolio Management - Types of Managed Portfolios – Measurement of Risk and return in Individual stocks and Portfolios – Markowitz Diversification and Classification of Risks – William Sharpe's Single Index Market Model.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6
II	Capital Asset Pricing Models – Arbitrage Pricing Theory: Theoretical and Empirical Validation.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6
III	Cootners' Price – value Interaction Model, Samuelsons' Continuous Equilibrium Model, Different Forms of Market efficiency identified by Fama – Empirical evidence on efficient markets.	18	CO 1 CO2 CO3 CO4 CO5	K1, K2, K3, K4,K5,K6
IV	Derivatives and its types – Option Pricing Models: Binomial Option Pricing Model, Black-Scholes Option Pricing Model – Futures Pricing – Swap Valuation.	18	CO 1 CO2 CO3 CO4 CO5	K1, K2, K3, K4,K5,K6
V	Meaning and types of Hedging – Forward Hedging, Money Market Hedging - Delta Hedging and Options - Managing Interest rate risk with swaps – Managing Foreign Exchange risk – Managing Credit Risk with Derivatives.	18	CO 1 CO2 CO3 CO4 CO5	K1, K2, K3, K4,K5,K6
Text Books				
<ol style="list-style-type: none"> 1. Fischer, D.E. and Jordan R.J., 2001, <i>Security Analysis and Portfolio Management</i>, Ed. 6, Prentice-Hall of India (P) Ltd. New Delhi. 2. .K. Bhalla, "Investment Management", S. Chand & Company Ltd, New Delhi, 1983. 3. Chance, D.M., 2004, <i>An Introduction to Derivatives & Risk Management.</i>, Ed. 6, Thomson South- Western. 4. Brealey, R.A. and S.C.Myers, 1996, <i>Principles of Corporate Finance.</i>, Ed 4., Tata McGraw-Hill Publishing Company Ltd, New Delhi. 5. Saunders, A., 2000, <i>Financial Institutions Management: A Modern Perspective</i>, Ed. 3, McGraw Hill, New Delhi. 				
Suggested Readings				

1. Bodie, Z., A. Kane and A.J. Marcus, 2005, *Investments*. Ed. 6, McGraw-Hill Irwin, London
2. Elton, E.J., M.J. Gruber, S.J. Brown and W.N. Goetzmann, 2003, *Modern Portfolio Theory and Investment Analysis*, Ed. 6, Chichester: John Wiley & Sons, New York
3. Grinblatt, M. and S. Titman, 2002, *Financial Markets and Corporate Strategy*. ED. 2, McGraw Hill Irwin, London.
4. Assness, C., R. Krail and J. Liew, 2001, *Do Hedge Funds Hedge?*
5. Brown, S.J. and W.N. Goetzmann, 2001, *Hedge Funds with Style*, National Bureau of Economic Research
6. Duffie, D. and K.J. Singleton, 2003, *Credit Risk: Pricing, Measurement and Management*, Princeton University Press
7. Haugen, R.A., 2003, *Modern Investment Theory.*, Ed. 5, Pearson Education
8. Fabozzi, F.J. and F.Modigliani, 2005, *Capital Markets: Institutions and Instruments*, Ed. 3, Prentice-Hall of India Private Ltd, New Delhi

Journal Reference

1. The Journal of Portfolio Management
2. Journal of Alternative Investments
3. Journal of Derivatives
4. Journal of Wealth Management

Web Resources

1. <https://www.reuters.com/>
2. <https://ift.world/booklets/portfolio-management-an-overview-part1/>

Course Outcomes (COs) and Cognitive Level Mapping

COs	CO Description	Cognitive Level
CO 1	To understand the fundamental concepts of risk and return and how investment decisions are communicated to stakeholders at all levels	K1, K2
CO 2	To examine and formulate expectations of capital markets through investment theories, and regulate a sustainable business environment.	K3
CO 3	To determine market efficiency and drive strategic alignment between economic activity and investor expectation to specific business problems in a rational manner.	K4
CO 4	To compare securities and predict the price trends using market data and well-defined frameworks to withstand uncertainties using effective leadership skills.	K5
CO 5	To design and construct optimal portfolios to achieve strategic objectives of profit and growth in the future course of the economy.	K6

Course Code	UEC 6503
Course Title	FINANCIAL MANAGEMENT
Credits	06
Hours/Week	06
Category	Major Core (MC) – Theory
Semester	VI
Regulation	2019
Course Overview	
<ol style="list-style-type: none"> 1. The course provides an insight on the financial aspects which an economist must be aware of for planning and decision making 2. The various types of business organizations are discussed in this course 3. The course explores various techniques available to evaluate various proposals 	
Course Objectives	
<ol style="list-style-type: none"> 1. Grasp the fundamental concepts of Financial Management. 2. Analyze the role of business organizations in compliance with economic policies. 3. Demonstrate and appraise the role for financial system. 4. Examine the various financial concepts. 5. Determine the impact of capital budgeting and cost of capital in an organization. 	
Prerequisites	Basic knowledge of finance

SYLLABUS

UNIT	CONTENT	HOURS	COs	COGNITIVE LEVEL
I	Nature and Scope of Business Finance – Relationship among Finance, Economics and Commerce. Goals of Financial Management. Emerging Role of Financial Managers in India	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6
II	Organizational, Regulatory and Tax. Framework – Forms of Business organization – Sole proprietorship, Partnership, Co-operative society, Private company and public company. Regulatory Framework – Industrial policy, Companies Act and SEBI guidelines. Relevance of Tax Structure - Direct and Indirect Taxes applicable to companies	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6

III	Functions of Financial system – Financial Instruments – Financial Institutions – Its rationale and types – Equilibrium in Financial Markets – Indicators of Financial Development.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6
IV	Basic Financial Concepts – The Value of Money – Its rationale and Techniques – Applications of Compounding and Present value techniques – Valuation of Long-term securities.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6
V	Capital Budgeting- Methods of capital budgeting - Concept and Measurement of cost of capital - importance - assumptions – Explicit and implicit costs. Measurement of specific costs – costs of debt, preference shares, equity capital and retained earnings. Computation of overall cost of capital – Assignment of weights and Mechanics of computation.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6

Text Books

1. Dr. S.N. MAHESHWARI, 2013, Financial Management: Principles and Practice, Sultan Chand & Sons
2. PRASANNA CHANDRA, 1997 Financial Management: Theory and Practice, Tata McGraw Hill Publishing Company LTD, New Delhi
3. M.Y. KHAN, P.K. JAIN, 2002, Financial Management, Tata McGraw Hill Publishing Company Ltd, New Delhi.

Suggested Readings

1. I.M. Pandey, 2003, Financial Management, Vikas Publishing House PVT LTD – New Delhi
2. E.F. Brisham, 1996, Fundamentals of Financial Management, CBS International Editor
3. Arther. J. Keown, David. F. Scott, J.V., John D. Martin, J. William Petty, 1986 Basic Financial Management, Prentice Hall of India Private LTD, New Delhi
4. John. J. Hampton, 1986, Financial Decision Making – Prentice Hall of India, PVT LTD, New Delhi

Web Resources

1. <https://www.fmsadvisors.com/>
2. <https://financialmanagementguide.investmentzone.com>

Course Outcomes (COs) and Cognitive Level Mapping

COs	CO Description	Cognitive Level
CO 1	To outline the financial environment in an economy and identify the conceptual framework with understating of finance and commerce	K1, K2
CO 2	To compute the valuation of securities for attain market outcomes and policy making in individual as well as firm level	K3
CO 3	To compare the various forms of business organisations and create better understanding of market environment	K4
CO 4	To plan and invest in the financial products and innovative instruments	K5
CO 5	To predict the best possible proposal among the various alternatives for sustainable growth of the firm	K6

Course Code	UEC 6701
Course Title	RESEARCH METHODOLOGY IN ECONOMICS (MS)
Credits	6
Hours/Week	18
Category	MS
Semester	6
Regulation	2019
Course Overview	
<ol style="list-style-type: none"> 1. Research Methodology is a hands-on course designed to impart education in the foundational methods and techniques of academic research in social sciences and analyze the macroeconomic context. 2. Economic student would examine and be practically exposed to the main components of a research framework i.e., problem definition, research design, data collection, ethical issues in research, report writing, and presentation in various economic issues. 3. In addition to their application in an academic setting, many of the methodologies discussed in this course would be similar to those deployed in professional research environments in global perspective. 	
Course Objectives	
<ol style="list-style-type: none"> 1. Identify various types of research and criteria of a good research. 2. Select a research problem and review a literature. 3. Construct hypothesis and select appropriate sample. 4. Validate hypothesis and make inferences. 5. Demonstrate report writing skills. 	
Prerequisites	Basic knowledge and understand the importance of research in Economics

SYLLABUS

UNIT	CONTENT	HOURS	COs	COGNITIVE LEVEL
I	Meaning and definition of research - Significance - Research Method versus Research Methodology - Types of Research – Research Process - Qualities of good research.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6

II	Definition of research problem – Techniques involved in defining a problem - Selection of a problem. Review of literature: Importance - Objectives of review of literature – Sources of review of literature - Advantages of Review of literature.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6
III	Hypotheses: Meaning and types of hypotheses-sources and functions of hypotheses - rules of constructing hypotheses. Sampling Design: Census and Sample Survey – Criteria for selecting a sample procedure - Different types of sample designs.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6
IV	Collection of Primary data: Observation method – Interview method – Collection of data through Questionnaires and Schedules; Collection of secondary Data – Case study method. Data Processing – Elements of data analysis – Statistics in research – Descriptive statistics – Measures of relationships and associations.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6
V	Meaning of Interpretation – Techniques of interpretation – Precaution in interpretation. Significance of report writing - Different steps in writing report - Layout of the research report - Types of report - Mechanics of writing research report - Precautions for writing research reports.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6

Text Books

1. Kothari C R. (2009). Research Methodology. Methods and Techniques (Second Revised Edition), New Age International Private Ltd, Publishers.
2. Goode. (1983). William J and Paul K Hatt, Methods in Social Research, McGraw-Hill International Book Co. London.
3. Krishnaswami O R. (2002). Methodology of Research in Social Sciences. Himalaya Publishing House, Delhi.
4. Bryman, Alan & Bell, Emma (2011). Business Research Methods (Third Edition), Oxford University Press.
5. Kerlinger, F.N., & Lee, H.B. (2000). Foundations of Behavioural Research (Fourth Edition), Harcourt Inc.
6. Rubin, Allen & Babbie, Earl (2009). Essential Research Methods for Social Work, Cengage Learning Inc., USA.
7. Deepak & Sondhi, Neena (2011). Research methodology: Concepts and cases, Vikas Publishing House Pvt. Ltd. Delhi.

8. Pawar, B.S. (2009). Theory building for hypothesis specification in organizational studies, Response Books, New Delhi.

Suggested Readings

1. Indian journal of Agriculture Economics
2. Economic and political weekly

Web Resources

1. <https://www.indiastat.com>
2. <https://www.mospi.gov.in/>
3. <https://www.rbi.org.in/>
4. <https://www.worldbank.org>

Course Outcomes (COs) and Cognitive Level Mapping

COs	CO Description	Cognitive Level
CO 1	Identify the foundational methods and techniques to understand academic research in social sciences.	K1, K2
CO 2	To examine and assess the components of research framework using different analytical tools and review of literature to apply effective, creative and innovative solutions to research problems	K3
CO 3	To Construct research hypothesis using various appropriate sampling techniques and statistical tools to predict the changes in the economy	K4
CO 4	To Critically review literature relevant to the field of social science and determine significance and scope of the research finding in framing policies	K5
CO 5	To formulate and develop leadership skills in research to support better decision making with respect to different stakeholders.	K6

Course Code	UEC 6706
Course Title	RESEARCH METHODS FOR ECONOMICS
Credits	06
Hours/Week	06
Category	Major Special (MS)
Semester	VI
Regulation	2019
Course Overview	
<ol style="list-style-type: none"> 1. This is course on research methodology dive deeper into concepts and issues that surround research methodology. 2. The course begins with identifying the research problem and how to process raw data and get it ready for descriptive statistics. 3. The course is heavily loaded with tools to test hypotheses. 4. This course will help the student to be ready while writing a research problem 	
Course Objectives	
<ol style="list-style-type: none"> 1. To provide an understanding of research problem, research questions, research gap etc. 2. To provide details of primary and secondary data analysis and a thorough idea about hypothesis testing. 3. To provide a detailed idea about both parametric and non-parametric tests. 	
Prerequisites	Basic knowledge on Research Methodology

SYLLABUS

UNIT	CONTENT	HOURS	COs	COGNITIVE LEVEL
I	Sources of research problem - Research gap – Research questions – Formulation of Primary and Secondary objectives – Deducing hypothesis.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6
II	Precautions in the Primary and Secondary data - Levels of measurement: Nominal, ordinal, interval and ratio; Data coding - Data entry – Editing – Recoding - Exploring the data: Diagrammatic representation - finding outliers in the data –	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6

	Summarizing data through Tables and cross tables - Descriptive statistics.			
III	Procedure for testing hypothesis - Testing of means – Testing of difference between means – comparing two related samples – testing of proportions – testing of difference between proportions – testing of correlation coefficients – simple regression; (t-test, Chi-Square test and ANOVA)	18	CO1, CO2, CO3, CO4, CO5	K1, K2, K3, K4, K5, K6
IV	One-sample sign test - Wilcoxon signed rank test - Friedman test - Goodman Kruska's Gamma - Kruskal-Wallis test - Mann-Kendall Trend Test - Mann-Whitney test - Mood's Median test - Spearman Rank Correlation.	18	CO1, CO2, CO3, CO4, CO5	K1, K2, K3, K4, K5, K6
V	Application to research tools and techniques to a research problem.	18	CO1, CO2, CO3, CO4, CO5	K1, K2, K3, K4, K5, K6

Text Books

1. Kothari C R. (2009). Research Methodology. Methods and Techniques (Second Revised Edition), New Age International Private Ltd, Publishers.
2. Darren George, Paul Mallery, (2008), SPSS for Windows Step by Step, New Delhi, Pearson Education.
3. Priyaranhan Dash, (2011), Research Methodology with SPSS, New Delhi, Viranda Publications Pvt. Ltd.
4. S.P. Gupta, (2012), Statistical Methods, New Delhi, Sultan Chand & Sons.

Suggested Readings

1. Wayne C. Booth, Joseph Williams, and Gregory G., (2008), The Craft of Research, Fourth Edition, The University of Chicago PRESS Chicago & London
2. John W. Crewel, (2014), Research Design: Qualitative, Quantitative and Mixed Method Approaches, 4th Edition, SAGE Publications, Inc, Singapore.
3. Mark N.K. Saunders Philip Lewis and Adrian Thornhill (2019), Research Methods for Business Students, Pearson Education Limited, Harlow, UK

Web Resource

1. <https://www.dedoose.com/>
2. <https://www.esourceresearch.org/>

Course Outcomes (COs) and Cognitive Level Mapping

COs	CO Description	Cognitive Level
CO 1	Identify and discuss the role and importance of research in the social sciences.	K1, K2
CO 2	Develop understanding on various kinds of research & research process.	K3
CO 3	Demonstrate the ability to choose methods appropriate to research aims and objectives.	K4
CO 4	Exhibit Proficiency in qualitative and quantitative data analysis and presentation	K5
CO 5	Exemplify and apply advanced critical thinking skills and enhanced writing skills	K6

Course Code	UEC 6705
Course Title	INTERNSHIP
Credits	05
Duration	30 DAYS
Category	MS
Semester	VI
Regulation	2019
<p>Internship allows the students to gain hands on experience and industry exposure. The internship for UG is conducted during the Christmas Vacation for minimum of 30 days. The UG students will be sent to industries/organization after getting approval from the Department and they are expected to report to the professor in charge periodically during the internship period. The students should maintain an internship work dairy to capture the day today learning activities/experiences and submit the same along with a report.</p>	

Course Code	UEC 1301
Course Title	BUSINESS ECONOMICS
Credits	04
Hours/Week	06
Category	Allied Required (AR) - Theory
Semester	I
Regulation	2019
Course Overview	
<ol style="list-style-type: none"> 1. Business Economics integrates various branches of economics such as Micro Economics, Macro Economics, Money & Banking and Fiscal Economics 2. The aim of the course is to give basic knowledge about the subject matter of economics 3. The module of this course is structured in such a way to examine the different Market Structure, National Income accounting, role of Money, inflation and the role of Government. 4. In this course we will examine the role played by the different stakeholders in the economy 5. The important aspects that will be discussed in this course includes how changes in the economic policies will have an impact on the Economic activities of the country. 	
Course Objectives	
<ol style="list-style-type: none"> 1. To enable the student to understand the impact of economics policies on the economy 2. To understand the role of Banks and their operations 3. To understand the role of Government and their working functions 4. To apply the knowledge of economics in real practice. 	
Prerequisites	Basic Knowledge on Elementary Economics

SYLLABUS

UNIT	CONTENT	HOURS	COs	COGNITIVE LEVEL
I	Nature and Scope of Economics-Concept of Demand and Supply, Elasticity concepts-Agents of production; Concepts of costs and Revenue-Competitive Market Structure and Determination of prices - Pricing under Monopoly and Monopolistic Competition	26	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6

II	National Income concepts and difficulties- Determination of National Income- Determinants of consumption, saving and investment	16	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6
III	Money and Banking Concepts of money, Commercial Banks and Credit Creation, Central Bank and Credit Control.	16	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5,K6
IV	Measures of money supply; velocity of money, Determination of the price level, Inflation and deflation - causes and remedies	16	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6
V	Budgets - Types of budget deficits, Direct and Indirect Taxes, Development and Non- development Expenditures.	16	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4 ,K5,K6

Text Books

1. Sundharam K.P.M and E.N Sundharam. Micro Economics. New Delhi: Sultan Chand, 2009.
2. Seth, M.L. Micro Economics, Agra: Lakshmi Narain Agarwal Educational Publishers, 2009.
3. Ahuja, H. L. (2016), Modern Micro Economics Theory and Practices, Ed.20, S. Chand, New Delhi.
4. Vaish, M.C., (2005), Money Banking and International Trade, Vikas Publishing House Pvt Ltd., New Delhi.
5. Tyagi, B.P., (2019), Public Finance, Jai Prakash Nath Co., New Delhi
6. Sethi, T.T. (2003). Monetary Economics: S. Chand and Co., New Delhi
7. M.L.Seth, Monetary Economics Lakshmi Narain Agarwal Publication
8. B.P.Tyagi and H.P.Singh, Sixty Two Edition, 2018-19. Jai Prakash Nath Publication

Suggested Readings

1. Mankiw N. Gregory Macroeconomics .New York : Worth Publishers, 2009
2. Bharati.V.Pathak Indian Financial System, 5e Pearson Publication
3. Principles of Economics by N. Gregory Mankiw South Western Cengage Learning

Web Resources

1. <https://www.rbi.org.in/>
2. <https://www.mospi.gov.in/>
3. <https://bit.ly/31PVXHJ>
4. <https://www.indiastat.com/>

Course Outcomes (COs) and Cognitive Level Mapping

COs	CO Description	Cognitive Level
CO 1	To understand and identify the conceptual framework and the elements of economic variables involved in economic decision making	K1, K2,
CO 2	To apply and examine various business models which induces innovation and promotes leadership skills	K3,
CO 3	To analyse and determine the role of Government, market and other entities in creating a sustainable environment	K4
CO 4	To justify and evaluate the market outcomes and policy making	K5
CO 5	To integrate and formulate economic solution to the problems in real world scenario	K6

Course Code	UEC 2301
Course Title	INDIAN ECONOMIC PLANNING AND POLICY
Credits	06
Hours/Week	06
Category	Allied Required (AL) - Theory
Semester	II
Regulation	2019
Course Overview	
<ol style="list-style-type: none"> 1. This course is designed for undergraduate students to learn the art of understanding the functioning of the economy in the light of its mixed economic set-up, historical developments and recent reforms. 2. Understanding the role of economic activities has always been a challenging task for non-economics students and it is an unavoidable task. 3. The course touches upon various relevant topics which are indeed useful for the non-economics students who want to apply for general competitive exams and civil services. 4. The course will also provide an insight to the features of Indian Economy, enabling students to understand the Indian economy better and the challenges and problems shaping the economy. 5. It will result in a comprehensive understanding of Indian Economy as a developing economy and various economic issues of the agricultural sector. 6. To develop the conceptual framework of government policies and programs and acquaint students with latest data and will enhance analytical skills 7. To gain in depth knowledge in understanding the consequences of Population and Climate Change 	
Course Objectives	
<ol style="list-style-type: none"> 1. To understand the concept of planning in India. 2. To familiarize the issues associated with Agriculture 3. To familiarize the issues associated with Industry 4. To examine the various aspects of service sector 5. To understand the concept of capital market and foreign trade 	
Prerequisites	Basic knowledge on Indian economy and Planning

UNIT	CONTENT	HRS	COs	COGNITIVE LEVEL
I	Economic Planning in India, History of Economic Planning in India - Objectives of Five year Plans - Policy of Mixed Economy and its relevance - An analysis of the last two five year plans - Sectoral Contribution to GDP-Limitations of Indian Planning Techniques. NITI-Ayog	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6
II	Agriculture, Place of Agriculture in Indian Economy - Need for Food Security in India - Irrigation and Agricultural Input Pricing Policies in India - Rural Land Reforms policies in India - Agricultural Output Pricing Policies in India in the last two years.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6
III	Industry, Role of Industries in Indian Economic Development - Small Vs Large Scale Industries - Reasons for Industrial Sickness in India - Industrial growth in the last two five year plans - Industrial policy of Government of India since 1948 - performance of the Industry in the last two years.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6
IV	Population, An analysis on recent population census - Theory of Demographic transition - Good and Bad effects of rising population in India - Family planning policy in India under five year plans-National Population Policy in recent years.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6

V	Service Sector, Role of different modes of Transport in Indian Economic Development - Need for Government intervention in the provision of Health and Education in India - Composition of India's foreign Trade - Performance of Indian capital Markets - Role of SEBI - Impact of WTO on India - Performance of the service sector in the last two years.	18	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6
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Text Books

1. Datt, Ruddar and K P M Sundharam. (2005). Indian Economy, New Delhi, S.Chand and Co. Pvt. Ltd.
2. Dhingra, I C. (2005). Indian Economy, New Delhi, Sultan.
3. Bhagwati, Jagdish N. and Padma Desai (1981). Planning for Industrialization, Oxford University Press, London.
4. Agarwal, A.N., (2004). Indian Economy: Problems of Development and Planning, Wishwa Prakashan.
5. Uma Kapila, (2002). Indian Economy since Independence, Academic Foundation.

Suggested Readings

1. Indian journal of Agriculture Economics
2. Economic and political weekly
3. Southern Economist
4. Yojana

Web Resources

1. <https://www.indiastat.com/>
2. <https://labour.gov.in/>
3. <https://msme.gov.in/>

Course Outcomes (COs) and Cognitive Level Mapping

COs	CO Description	Cognitive Level
CO 1	To understand the outline the relevance of the Indian Economy and Planning from global perspective	K1, K2
CO 2	To integrate and assess the foundation of economic growth and development, analyse the progress and changing nature of the agricultural sector and its contribution to the economy as a whole.	K3
CO 3	To analyse and determine the role of Government in emerging industrial development in India	K4
CO 4	To evaluate the importance, causes and impact of population growth and its distribution, translate and relate them with economic development	K5
CO 5	To assess and formulate the importance of planning undertaken by the government of India.	K6

Course Code	UEC 3401
Course Title	ECONOMICS OF SOCIAL ISSUES
Credits	03
Hours/Week	05
Category	Allied Optional (AO) - Theory
Semester	III
Regulation	2019
Course Overview	
<ol style="list-style-type: none"> 1. Economics of Social Issues is an optional paper which introduces the different doctrines of Philosophers like Karl Marx, Gandhi and few others. It also highlights the importance of the Protection of Human Rights Act. 2. The aim of this course is to provide basic knowledge about the important concepts like Poverty and Inequality, Hierarchical System, Access to Health, Education, Employment and similar indicators along with the role of Government to improve societal life. 3. The course examines the importance of Consumerism and the Consumer Protection Act. 4. This course, familiarize the aspects of discrimination as a social stigma. 5. Further, the course highlights the importance of Economic Crimes including Corruption and Terrorism and its consequences. Various Acts framed in the Constitution of India to prevent economic crimes is also introduced in this course. 	
Course Objectives	
<ol style="list-style-type: none"> 1. To understand the basic economic and social doctrines propounded by various philosophers. 2. To introduce the concepts of poverty and inequality and its relevance. 3. To familiarize the importance of consumerism and the Consumer Protection Act. 4. To identify the various types of discrimination and its consequences. 5. To analyze the idea about the intensity of economic crimes and its resultant effects. 	
Prerequisites	Basic understanding about economics and social issues.

SYLLABUS

UNIT	CONTENT	HRS	COs	COGNITIVE LEVEL
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I	INTRODUCTION: Social Economics: Definition – Equality in Human Societies - Principles of Social Doctrines: Karl Marx – Gandhi – Ambedkar and Periyar E.V.R. – Protection of Human Rights Act 1993.	15	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
II	POVERTY AND INEQUALITY: Causes and consequences of poverty and inequality in India: Historical factors - Hierarchical system - Occupational structure - Deprivation of land rights – Access to education – Other factors: Access to employment - unemployment and under employment – Access to health – Access to finance; Role of government – Social security – Subsidies – Social banking – Financial inclusion.	15	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
III	CONSUMERISM: Meaning and definition – Consumption and Consumerism – Global issues of consumerism – Consumer Protection Act 1986 - Provision of information – Protection from business manipulation.	15	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
IV	DISCRIMINATION: Definition, sources of discrimination, kinds and costs – Gender Discrimination – Regional disparities: Rural versus Urban; Multiculturalism.	15	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
V	ECONOMIC CRIMES: Meaning and forms of economic crimes – Economics of Terrorism – Consequences of terrorism - Corruption Causes and consequences – remedial course of action - Economic crimes and their prevention - Corruption laws in India: Indian Penal Code, 1860 - The Prevention of Corruption Act, 1988 - The Benami Transactions (Prohibition) Act, 1988 - The Prevention of Money Laundering Act, 2002.	15	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
Textbooks:				
<ol style="list-style-type: none"> 1. Culyer, A.J., 1973, The Economics of Social Policy, Martin Robertson and Co. Ltd., London. 2. Douglass C. North and Roger Leroy Miller, 1971, the Economics of Public Issues, Harper and Row, New York. 3. Dreze, Jean and Amartya Sen, 1989, Hunger and Public Action, Clarendon Press, Oxford. 4. Devaraj Ray, 2019, Growth and Development, S. Chand Publication, New Delhi. 				

<ol style="list-style-type: none"> 5. Mishra.S.K. and Puri. V.K., 2019, Indian Economy, 37th Edition, Himalaya Publishing House Private Ltd, Mumbai. 6. Shanker Rao. C.N, 2019, Principles of Sociology with an introduction to Social Thought, S.Chand Publication, New Delhi. 7. Uma Kapila, 2019, Indian Economy Performance and Policies, 20th Edition, Academic Foundation, New Delhi.
<p>Suggested Readings:</p> <ol style="list-style-type: none"> 1. Harbison, Frederick and Charles A. Meyers, 1964, Education, Manpower and Economic Growth: Strategies of human Resource Development, Mc Graw- Hill book Co. New York. 2. Indira Gandhi Memorial Trust, 1995, Redefining the Good Society, Wiley eastern ltd., New Delhi. 3. Le Grand, Julian and ray Robinson, 1976, The Economics of Social problems, The Macmillan press ltd., London. 4. Lutz, Mark and Kenneth Lux, 1979, The Challenge of Humanistic Economics, The Benjamin/Cummings Publishing Co. Inc., California. 5. Sandford, Cedric, 1979, Social Economics, Heinemann Educational Books, London.
<p>Journals for Reference:</p> <ol style="list-style-type: none"> 1. Journal of Development Economics 2. Indian Journal of Social Work 3. Economic and Political Weekly 4. Economic Survey of India 5. World Development Report 6. Yojana 7. Southern Economist
<p>Web Resources:</p> <ol style="list-style-type: none"> 1. https://www.globalissues.org/TradeRelated/Poverty.asp 2. https://www.fas.org/irp/threat/terror.htm 3. https://www.infoplease.com/spot/01terrorism.html

Course Outcomes (COs) and Cognitive Level Mapping

COs	CO Description	Cognitive Level
CO 1	To recognize the economic principles of social issues.	K1, K2
CO 2	To compare the poverty standards and inequality levels.	K3
CO 3	To demonstrate the consumer protection act.	K4
CO 4	To examine the different aspects of discrimination prevailing within the society.	K5
CO 5	To assess the economic crimes and the subsequent acts.	K6

Course Code	UEC 3402
Course Title	MEDIA ECONOMICS
Credits	03
Hours/Week	05
Category	Allied Optional
Semester	III
Regulation	2019

Course Objectives

1. Media Economics as a concept involves the ownership and structure of Media industries.
2. The course puts forward the relevance of economic and political factors and policies that has shaped today's world media and the markets: 'Through expansion, privatization and convergence, the world's media and media markets are undergoing fundamental shifts in the race to the new society.' These changes are global and driven by economic policies as well as political policies of countries suggests the importance of understanding the economics of media and media markets.
3. Media Economics course focuses on the economic environment in which media operate, and discusses the main forces that shape media, market and consumer attitude in a very changing climate of media technology.
4. The course aims to reveal the marketing roles under different ownership and its effects on media content and function today and in future. Media Economics course seeks to review and analyse a range of different media markets around the world, especially transitions focussed on Indian media market operations over the years and various regulations shaping industry in general
5. Therefore, to analyse the changing media markets economists make use of a number of analytical tools to inform their strategic thinking and communicate in a systematic manner how they operate and what contents they produce at different media products namely, broadcast and cable industries, motion pictures, print industry and future of media industry.

Course Objectives

1. To understand and apply economic principles in Media Industry
2. To outline different market structure in Media Industry
3. To evaluate market structure and impact of regulation on media market
4. To identify and assess major Players In Broadcast, Cable , Satellite TV And Internet
5. To Compare print media with internet media

Prerequisites	Principles of economics
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SYLLABUS

UNIT	CONTENT	HRS	COs	COGNITIVE LEVEL
I	Definition of Media Economics, the importance of studying media economics, macro & micro economic issues in media, types of media companies, the economic problem of production, distribution & consumption, types of economies.	18	CO1 CO2, CO3, CO4, CO5	K1, K2, K3, K4, K5, K6
II	Supply & demand, the demand curve, price elasticity & cross elasticity of demand, types of demand for media products. Product & geographic dimensions of media markets, market structures – monopoly, oligopoly, monopolistic competition, perfect competition, media industries and market structure, market conduct.	18	CO1 CO2, CO3, CO4, CO5	K1, K2, K3, K4, K5, K6
III	What is a media market and who are its major players? Methods used to measure market concentration and diversification within a firm, impact of regulation and impact of technology on media markets	18	CO1 CO2, CO3, CO4, CO5	K1, K2, K3, K4, K5, K6

	and individual firms.			
IV	The radio, cable & satellite television and internet industries – industry trends, major players, market structure and economic characteristics, role of regulatory and technological forces and future of the respective industries.	18	CO1 CO2, CO3, CO4, CO5	K1,K2,K3,K4, K5,K6
V	The newspaper industry – major players, market structure and economic characteristics, role and type of advertising in newspapers, impact of the internet on newspapers, economic future of the newspaper industry. The magazine industry – major players, market structure and economic characteristics, types of division in magazine publishing, various markets for magazines, impact of technology and the internet on the magazine industry	18	CO1 CO2, CO3, CO4, CO5	K1,K2,K3,K4, K5,K6

Books for Study:

1. Albarran, A.B. (2002). Media Economics: Understanding Markets, Industries & Concepts (2nd Ed) Ames: Iowa State University Press.
2. Gillian Doyle, (2002). Understanding Media Economics, SAGE Publications Ltd. ~ 67
3. Colin Hoskins, (2004). Media Economics: Applying Economics to New and Traditional Media, Sage Publications, Inc, 1st Ed.
4. Effulin, (2009). The Business of Media Distribution: Monetising Film, TV and Video Content in an Online World, Focal Press

Books for Reference:

1. Alexander A., Owens, J., and Carveth, R. (1993) Media Economics: Theory and Practice, New York: Lawrence Erlbaum.
2. Albarran, A.B., & Chan – Olmsted, S. (Eds) (1998) Global Media Economics: Commercialisation, Concentration and Integration of World Media Markets, Ames: Iowa State University Press.
3. Bagdikian, B.H. (2000). The Media Monopoly 6th Ed., Boston: Beacon Press
4. Golding.P., and Murdoch, G. (1997). The Political Economy of the Media (Vols. 1&2)

Journal Reference

1. Journal of Media Economics
2. Handbook of Media Economics
3. Journal of Media Business Studies

Web Resources

1. <https://journals.sagepub.com>
2. <https://azimpremjifoundation.org/content/journal-media-economics>
3. <https://www.tandfonline.com/>

Course Outcomes (COs) and Cognitive Level Mapping

COs	Course Description	Cognitive Level
CO 1	To understand the fundamental concepts and changing economic forces that direct and constrain the choices of decisionmakers across the media sector.	K1, K2
CO 2	To examine and evaluate the distinctive economic features of media firms, and the strategies deployed by media houses with respect to business practices, technological advancements and policy regulation.	K3
CO 3	To compare and contrast economic dimensions of supply, demand and competition in both traditional and digital media and develop communication and leadership skills through public relations in a dynamic business environment	K4
CO 4	To justify the role of dissemination of information, as an essential for the functioning of the economic and the political system that constitutes markets specific competitive dynamics between stakeholders of all levels in the media industry.	K5
CO 5	To formulate and predict trends in mass media and integrate media as a system of interrelated forces, including historical foundations, technological advances, economic dynamics, regulatory constraints, and ethical concerns shaping the economy	K6

Course Code	UEC 3801
Course Title	GREEN ECONOMICS
Credits	03
Hours/Week	03
Category	NME
Semester	II
Regulation	2021
<p>Course Overview</p> <ol style="list-style-type: none"> 1. To explore the relationship between environment and economy it introduces three concepts called efficiency optimality and sustainability. 2. It is also dealing each country has to figure out its own energy resources consists with its and endowment energy resources, and employing technologies which are economically viable and socially equitable. 3. Green infrastructure is linking the landscape and communities that impart balanced. Strategic and comprehensive approach to conservation. 4. The purpose of green marketing is to highlight the new role of marketing in imparting our environment condition. 5. The students should be able to identify the place and connotation of particular concepts and approaches of environmental accounting within the overall subject of assessing sustainable development 	
<p>Course Objectives</p> <ol style="list-style-type: none"> 1. The course is structured into five units: understanding the rationale advancing an inclusive green economy. 2. The purpose of this course is to provide students with basic understanding of the cost of environmental growth and environmental degradation, sustainable policy. 3. This course also focusing the importance of green infrastructure to the economy. 4. It is also focusing the feasibility of green market thereby achieve sustainability. 5. Green accounting enables us to assess the resource potentials and availability 	
Prerequisites	Basic knowledge Environmental studies

SYLLABUS

UNIT	CONTENT	HOURS	COs	COGNITIVE LEVEL
I	Unit-I Economy and Environment Basic Concepts: Ecology – Eco-System – Economic Development – Population – Community habitat; Components of eco-system: Biotic and abiotic substances, consumer, producer and decomposer organisms – pollution; Scope of ecology and economic development; Environment-Development-Poverty Nexus.	12	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6
II	Unit-II: Green Energy Meaning – types and benefits - 7Economizing on electricity use- Designing energy efficient buildings-promoting energy efficient appliances -Roof top solar electricity	12	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6
III	Unit-III: Green Infrastructure Transport-Technology to reduce Fossil Fuel- Promoting public transport and NMT –Water- Reducing Demand through water saving devices - Sewage Treatment-Solid Waste Management – citizen Involvement	12	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6
IV	Unit-IV: Green Marketing and Product Green product -Green Marketing- Importance of Green Marketing-Adoption of Green Marketing – Green Marketing Mix- Strategies to Green Marketing	12	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6
V	Unit V: Green Accounting Meaning and objectives - Use of permits to reduce greenhouse gas emissions –Carbon Credit- Carbon foot print. Digitalization and environment – CSR and environmental reporting - Green Auditing	12	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4,K5,K6

Text Books

1. Bhattacharya, R N (latest edition), Environmental Economics: An Indian Perspective (E), Oxford University Press, New Delhi,2011.
2. Dasgupta, P (2001), Human well-being and natural environment, Oxford University Press

3. Robert Dahlstrom Green Marketing Management cengage learning 2010
4. Isher Judge Ahluwalia et.al Urbanisation in India Challenges Opportunities and the way forward Sage publications 2014
5. Fisher, A, C. (1981) Resource and Environmental Economics, Cambridge University press Cambridge.
6. Murty. M.N, Environment, Sustainable Development and Well-being, Oxford University Press, New Delhi.
7. Singh K and Shishodia A. Environmental Economics: Theory and Application, Sage Publication, New Delhi, 2007-2012.
8. Tietenberg, T. (1994) Environmental Economics Policy and Harper Collins New York.

Suggested Readings

1. Kolstad, C.D. (2011). Intermediate Environmental Economics. New Delhi: Oxford University Press.
2. Singh, Katar and Shishodia, Anil (2007). Environmental Economics: Theory and Applications. New Delhi: Sage Publications.
3. Berck, P. (2015). The Economics of the Environment. New Delhi: Pearson India.
4. Kumar, Pushpam (2009). Economics of the Environment and Development. New Delhi: Ane Book
5. Muthukrishna, S (2010). Economics of Environment. New Delhi: Phi learning Pvt. Ltd.
- 6.

Web Resources

1. <https://mnre.gov.in/>
2. www.greenenvironmentindia.com
3. <https://www.iginasia.org/>
4. <https://www.mospi.gov.in>

Course Outcomes (COs) and Cognitive Level Mapping

COs	Course Description	Cognitive Level
CO 1	Identify the link between economic development and environmental quality.	K1, K2
CO 2	Explore the various possibilities to reduce pollution	K3
CO 3	Analyse the importance of green transport in sustainable development	K4
CO 4	To understand and evaluate different types of green infrastructure	K5
CO 5	Demonstrate the methods of green accounting	K6

Course Code	UEC 4401
Course Title	Comparative Economic System
Credits	04
Hours/Week	06
Category	Allied Optional (AO) - Theory
Semester	IV
Regulation	2019
Course Overview	
<ol style="list-style-type: none"> 1. Comparative Economic System explain the different economic system fo different Countries 2. The aim of the course is to give basic knowledge about the Structure of an Economic System 3. The module framed in such a way to enrich the working functions of different economic system. 4. In this course, we will also examine the Sustainable Development Goals 5. The other important aspects which are dealt in this paper are Human Development Index 	
Course Objectives	
<ol style="list-style-type: none"> 1. To understand the different economic system and their working functions 2. To understand how economic system and their impact on developing and developed nations 3. To understand the performance indicators of different economic system. 4. To apply the knowledge of different economic system and trace out the SDGs and HDI 	
Prerequisites	Basic knowledge on Elementary Economics

SYLLABUS

UNIT	CONTENT	HOURS	COs	COGNITIVE LEVEL
I	Unit I: Introduction to Economic Systems Economic Systems: Definition, Characteristics, criteria for classification of economic systems, Performance Criteria	12	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
II	Unit II: Traditional Economic Systems Traditional Economic Systems: Features and Limitations of Capitalism, Socialism and Mixed Economy; Characteristics of Marxism, Leninism, Communism, Democratic Socialism, Market Socialism, Neo Liberalism	12	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6

III	Unit III: Capitalist Economy The Capitalist Market Economy – USA, UK and Japan - Features, Determination of employment and output, Growth Trajectory, instability and crisis under capitalism	12	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
IV	The Command Economy – USSR: Features, Organisation of the Soviet economy, Soviet economic planning, current reforms – Glasnost and Perestroika. China: Organisations and Institutions, Phases of development – current reforms- The drive towards modernization – Cuba – Efficacy of education and health sector - Economic conditions of North Korea and Venezuela.	12	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
V	The Mixed Economy - India: Features, Phases of development – NORDIC Countries: Features, Emphasis on Sustainable Development and Human Development – Changes in Economic system since Globalization and its emerging challenges	12	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6

Text Books

1. Lokanathan V. (1998). History of Economic Thought, S. Chand and Company, Ram Nagar, New Delhi.
2. Hajela T.N. (2011). History of Economic Thought (17th edition) Ane Books India, Chennai. 3.
3. Shrivastava S.K. (1999). History of Economic Thought, S Chand and Company, Ram Nagar, New Delhi.
4. Girija B N. A. Mani Mekalai and L Sasikala. (2005). History of Economic Thought, Vrinda Publications (p) Ltd, Mayur Vikar, Phase-1, New Delhi. 5.
5. Ghosh B N and Rama Gosh. (1999). Concise History of Economic Thought. Himalaya Publishing House, New Delhi

Books for Reference

1. Balassa, Bela and Marcus Noland, Japan in the World Economy (Washington Institute for International Economics 1988)
2. Desai: Padma. The Soviet Economy: Problems and Prospects (Oxford: Basic Blackwell 1987)
3. Eckstein, Alexander. China's Economic Systems (Cambridge: Cambridge University Press 1977)
4. Grossman, Gregory. Economic Systems (New Delhi: Prentice Hall of India Pvt Ltd 1984)
5. Halm, George N. Economic Systems: A Comparative Analysis (Calcutta: Oxford and IBH Publishing House 1964)

6. Kosai, Yatuka and Yositaro Ogino, The Contemporary Japanese Economy (Hong Kong: The Macmillan Press Ltd 1987)
7. Kotaro, Tsuru. The Japanese Market System: It's Strengths and Weaknesses (Tokyo: Kodansha Ltd Publishers 1995)

Web Resources

1. <https://en.unesco.org/>
2. <https://www.undp.org/>

Course Outcomes (COs) and Cognitive Level Mapping

COs	CO Description	Cognitive Level
CO 1	To understand and recognise the role of economic system and their impact on the countries	K1, K2
CO 2	To apply and examine the principles for sustainable environment	K3
CO 3	To compare and contrast the policies of different economic system and their impact on Human Development	K4
CO 4	To argue and assess an economic system to attain sustainable environment	K5
CO 5	To construct and simulate an economic system which enhances livelihood.	K6

Course Code	UEC 4402
Course Title	BASIC ECONOMICS
Credits	03
Hours/Week	05
Category	ALLIED OPTIONAL
Semester	IV
Regulation	2019

Course Overview

1. This course is aimed as a comprehensive, guide to understanding the fundamentals of economics.
2. The course introduces the concepts of scarcity , efficiency, welfare cost of choice and interaction between the agents of production in an economic system.
3. It also develops conceptual about the production, distribution, and consumption of goods and services, and study economic growth, activity, employment, public finance and cost and demand inflation. This course will also teach hep students gain in depth knowledge about price stability, different kinds of market structure, the role of government policies towards economic stability.
4. The course also provides a basic framework of how government policies are structured and implemented fiscal policy and also assess the budget allocation framework of developing countries
5. Another feature of this course is that it will guide students to identify business cycles, analyse the relationship between inflation and unemployment and evaluate the role of fiscal and monetary policies and its working in an economy
6. Finally, this course demonstrates how economics education provides a powerful tool for analysing policy and learning how economy functions of economic principles.
7. Basic economics examines a full spectrum of issues that impact on financial situations and decisions. It also provides insight into role of money in the economy for sustainable development. From production to consumption, the course looks at how the world's resources are used by and distributed among individuals and organizations from micro and macro perspective.

Course Objectives

1. Demonstrate the models of demand, supply, production, cost, revenue and market structure and comprehend the conceptual framework of equilibrium in goods market and money market
2. Analyse national income and its concepts, savings, consumption and investment
3. Explain the concepts related to money and banking system in India and Interpret money supply and its fluctuations
4. Demonstrate trends in business cycles, its phases and impact on national income, price and unemployment in an economy.

5. To comprehend the rationale for government intervention in a market economy, the assessment of public policy, and the impact of government expenditures and taxation on the economy and the citizenry.

Prerequisites Elementary economics

SYLLABUS

UNIT	CONTENT	HOURS	COs	COGNITIVE LEVEL
I	Price Theory Nature and Scope of Economics - Law of demand and law of supply - Factors influencing demand and supply – Elasticity of demand and supply - Cardinal utility analysis and consumer equilibrium - Cost and Revenue curves - Pricing under perfect competition and monopoly.	20	CO1 CO2 CO 3 CO4 CO5	K1, K2, K3, K4, K5, K6
II	National Income Accounting Definition and Components of National Income - Methods of Calculation of National Income - Difficulties in the calculation of National Income - Recent trends in India's National Income - Comparison of India's National Income with Low - Middle and High-income economies.	16	CO 1 CO 2 CO 3 CO4 CO5	K1, K2, K3, K4, K5,K6
III	Money and Banking Definition, Kinds and functions of money RBI, Definition of Money Supply in India, Functions and Performance of Commercial Banks in India – Types of Commercial Banks. Role of development banks and mutual funds. Functions and Performance of Reserve Bank	18	CO1 CO2 CO 3 CO4 CO5	K1, K2, K3, K4, K5, K6

	of India – Quantitative and Qualitative Credit control weapons.			
IV	Trade Cycles Definition and Characteristics of Trade Cycles - Different phases of trade cycles – Definition and types of Inflation and Deflation - Causes and consequences of Inflation - Anti cyclical policies.	18	CO 1 CO 2 CO 3 CO4 CO5	K1, K2, K3, K4, K5, K6
V	Public Finance Scope of Public Finance - Role and Types of Direct and Indirect Taxes in India - Role and Types of Public Borrowing in India - Role and Types of Public Expenditure in India - Relevance of Deficit spending in India.	18	CO 1 CO 2 CO 3 CO4	K1, K2, K3, K4, K5

Books for Study

1. Jhingan, 2016, M.L., Money Banking International Trade and Public Finance, Ed. 8, Veranda Publisheres, New Delhi.
2. Datt, Ruddar and K P M Sundharam, 2016, Indian Economy, S.Chand and Co. Pvt. Ltd. New Delhi
3. Public Finance in Theory and Practice, Musgrave Richard A., Musgrave Peggy B., Fifth Edition, McGraw-Hill International Editions ,Singapore. (1989)
4. Ahuja. H.L (2017). Advanced Economic Theory, Ed. 21, S. Chand & Company Ltd. New Delhi.
5. Samuelson, Paul Anthony and Nordhaus, William D. (2019), Economics, Ed. 20, Tata McGraw Hill Publishing Company Ltd., New Delhi.
6. Douglas B. Bernheim and Michael D. Whinston. (2009). Microeconomics, Tata McGraw-Hill (India)
7. Stiglitz, Joseph E and Carl E. Walsh (2011). Economics, Ed.4, W.W. Norton & Company, Inc., New York.
8. Dominic Salvatore, (2012), Principles of Microeconomics, Ed. 5, Oxford University Press, New De
9. Intermediate Public Economics, Hindriks, J and G.D. Myles., Cambridge: MIT Press, (2013)

Books for Reference

1. Lipsey, Richard, G., 1998, Introduction to Positive Economics, English Language Society and Weidenfeld and Nicolson, London
2. Samuelson, Paul Anthony and William D. Nordhaus, 1998, Economics, Ed. 6 New Delhi:Tata

McGraw Hill Publishing Company Ltd, New Delhi.

3. Atkinson Anthony, B., & Stiglitz, J. E. (1980). Lectures on public economics.
4. Auerbach, A. J., Chetty, R., Feldstein, M., & Saez, E. (Eds.). (2013). Handbook of public economics (Vol. 5). Newnes.

Web Resources

1. <https://www.aeaweb.org/aej-micro/>
2. <https://microeconomicinsights.org/>
3. <https://journals.sagepub.com/home/>
4. <https://ocw.mit.edu/courses/economics/14-01sc-principles-of-microeconomics>
5. <https://www.freakonomics.com/>
6. <https://www.economy.com/economicview/>
7. <https://mru.org/>
8. www.worldbank.org
9. www.rbi.org.in
10. www.nber.org
11. <https://www.nipfp.org.in/home-page/>

Course Outcomes (COs) and Cognitive Level Mapping

Cos	CO Description	Cognitive Level
CO1	To understand and identify essential foundations of economic theory in solving decision making problems of an economy.	K1,K2
CO2	To assess macroeconomic policy framework for inclusive and sustainable growth	K3
CO3	To critically analyse economic situations encountered in the real world that involves money, financial markets and institutions, and actions undertaken by central banks in the development and implementation of fiscal and monetary policy framework	K4
CO4	To simulate economic growth through innovation and evolve entrepreneurial and leadership qualities in a competitive market economy	K5
CO5	To predict and formulate theories towards welfare of economy by assessing the effects of government intervention on behaviour of individuals, households, and firms in a real-life scenario.	K6

Course Code	UEC 4801
Course Title	ENTREPRENEURIAL ECONOMICS
Credits	02
Hours/Week	03
Category	NME
Semester	IV
Regulation	2019
Course Overview	
<ol style="list-style-type: none"> 1. Entrepreneurs are essential for a country as they have potential to increase employment and productivity 2. The aim of the course is to introduce concepts related to the basic requirements of business such as finance, documentation and project management 3. The module of this course introduces various theories of entrepreneurship 4. Social and economic dimensions of entrepreneurship in India are discussed in this course 5. The course enumerates the need of the entrepreneurs for an overall development of a country 	
Course Objectives	
<ol style="list-style-type: none"> 1. To understand various functions of an entrepreneur 2. To discuss various theories of entrepreneurship 3. To study the growth of entrepreneurship in India 4. To create awareness on various source of finance available for entrepreneur 5. To design and formulate a project 	
Prerequisites	Basic knowledge on business activities

SYLLABUS

UNIT	CONTENT	HOURS	COs	COGNITIVE LEVEL
I	Unit – I: Introduction Meaning – origin – Definition – characteristics functions-types of entrepreneurs –social entrepreneur	12	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
II	Unit – II: Theories of Entrepreneurship Theory of Risk bearing, uncertainty, coordination, organization and supervision— theory of innovation –theory of achievement- theory of ‘opportunity’- Walker’s theory.	12	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6

III	Unit – III: Entrepreneurship Concept-growth of entrepreneurship in India- factors affecting entrepreneurship –Government actions -Role of women in entrepreneurship	12	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
IV	Unit – IV: Institutional finance to entrepreneur Need for institutional finance-commercial banks- other financial institutions-institutional support to small entrepreneur-NSIC SIDO, SSIB, SSID, SISIs, DICs, Industrial estates, TCOs.	12	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6
V	Unit – V: Project management Meaning – objectives-characteristics of project- project cycle-project formulation-project design- project report-proforma of a project Report	12	CO 1 CO 2 CO 3 CO 4 CO 5	K1, K2, K3, K4, K5, K6

Text Books

1. Drucker Peter. F. (1990). Innovation and Entrepreneurship.
2. Gupta. C. B and N. P. Srinivasanm (2000). Entrepreneurial Development.
3. Jayashree Suresh (2015). Entrepreneurial Development Margham publications.
4. Vasanth Desai (2001). Entrepreneurship Development, Himalayas publishing House.

Suggested Readings

1. South East European Journal of Economics and Business, Versita for the School of Economics and Business in Sarajevo.
2. Theoretical Economics, Be press publication
3. International Review of Economics Education, Economics LTSN
4. Journal of Applied Economics, Universidad del CEMA
5. Journal of Economics and Finance Education, Academy of Economics And Finance

Web Resources

1. www.pearsoned.co.in
2. <https://bit.ly/3FWZ2xL>
3. <https://bit.ly/3plcVQe>

CL AND CO BASED CIA QUESTION PAPER FORMAT FOR UG THEORY COURSES MC, AR, AO, MS, ME, GL and NME*
(Excluding other languages)

SECTION	MARKS	Q. NO	K1	K2	K3	K4	K5	K6
A	Answer ALL (6 x 1 = 6)	1	+					
		2	+					
		3	+					
		4		+				
		5		+				
		6		+				
B	Answer 1 out of 2 (1 x 6 = 6)	7			+			
		8			+			
C	Answer 1 out of 2 (1 x 6 = 6)	9				+		
		10				+		
D*	Answer 1 out of 2 (1 x 12 = 12)	11					+	
		12						+
No. of CL based Questions with Max. marks			3 (3)	3 (3)	1 (6)	1 (6)	1 (12)	1 (12)
No. of CO based Questions with Max.marks			CO1		CO2	CO 3	CO 4	CO 5
			6 (6)		1 (6)	1 (6)	1 (12)	1 (12)

- **MC**-Major Core, **AR**-Allied Regular, **AO**-Allied Optional, **MS**-Major Special, **ME**-Major Elective, **GL**-General Languages, **NME**-Non Major Elective.
- **Section A** could have one or more of the following: Fill in the blanks, True or False, Match the following, Definition, Comment on, Reason out etc.,But, K1 and K2 should carry equal weightage.
- In **Section D** students have choice between K5 and K6. III Component Assessment carries 40% of CIA and the assessment(s) should be for cognitive levels **K1 to K4** and all should carry equal weightage

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI 60034
DEPARTMENT OF ECONOMICS
FIRST CONTINUOUS ASSESSMENT TEST, JULY, 2021
UEC 5501 MACROECONOMICS 1 (MC)

III BA Economics

Time: 10.00am to 11.30 am

XX.XX.2021

Max. Marks: 30

SECTION A			
Answer ALL the Questions in one or two sentences		(6 x 1 = 6 Marks)	
1.	Define Green GDP.	K1	CO1
2.	Name the author of the General theory of Employment, Interest and Money.	K1	CO1
3.	State Say's Law.	K1	CO1
4.	Describe the classical school.	K2	CO1
5.	Differentiate Time Series and Cross section data.	K2	CO1
6.	Recall the concepts of GDP, NDP, NNP, GNP.	K2	CO1
SECTION B			
Answer any ONE of the following in 150 words		(1 x 6 = 6 Marks)	
7.	Sketch the circular flow of national income with Government and Foreign Sector.	K3	CO2
8.	Explain dynamic analysis.	K3	CO2
SECTION C			
Answer any ONE of the following in 150 words		(1 x 6 = 6 Marks)	
9.	Compare classical theory of employment, with and without savings.	K4	CO3
10.	Illustrate Pigou's reformulation of Wage Cut.	K4	CO3
SECTION D			
Answer any ONE of the following in 100 words		(1 x 12 = 12 Marks)	
11.	Justify that the India Economy does not comply with any particular school of economic thought.	K5	CO4
12.	Summarize the calculation of national income by all the three methods.	K6	CO5

**CL AND CO BASED END SEMESTER EXAMINATION QUESTION PAPER FORMAT FOR UG THEORY COURSES
(MC, AR, AO, MS, ME and GL)**

SECTION		Q. NO	K1	K2	K3	K4	K5	K6	
A	(4 x 5 = 20) Answer ALL	1	+						
		2	+						
		3		+					
		4		+					
B	(2 x 10 = 20) Answer 2 out of 4	5			+				
		6			+				
		7			+				
		8			+				
C	(2 x 10 = 20) Answer 2 out of 4	9				+			
		10				+			
		11				+			
		12				+			
D	(2 x 20 = 40) Answer 2 out of 4	13					+		
		14					+		
		15							+
		16							+
No. of CL based Questions with Max. marks			2 (10)	2 (10)	2 (20)	2 (20)	2 (40)	2 (40)	
No. of CO based Questions with Max. marks			CO 1		CO 2	CO 3	CO 4	CO 5	
			4 (20)		2 (20)	2 (20)	2 (40)	2 (40)	

- **MC**-Major Core, **AR**-Allied Regular, **AO**-Allied Optional, **MS**-Major Special, **ME**-Major Elective, **GL**-General Languages.
- **Section A** could have one or more of the following: Fill in the blanks, True or False, Match the following, Definition, Comment on, Reason out, but K1 and K2 should carry equal weightage.
- In **Section D** students have choice between K5 and K6.

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI 60034

**DEPARTMENT OF ECONOMICS
END SEMESTER EXAMINATION, OCTOBER, 2021
UEC 5501 MACROECONOMICS I (MC)**

III B.A. Economics

XX.XX.2021

Duration: 3 hrs.

Max. Marks: 100

SECTION A

Answer ALL the Questions

1.	Define the following	(5 x 1 = 5 Marks)		
a)	Per Capita Income		K1	CO1
b)	Real GDP.		K1	CO1
c)	Say's Law.		K1	CO1
d)	Multiplier.		K1	CO1
e)	Accelerator.		K1	CO1
2.	Fill in the blanks	(5 x 1 = 5 Marks)		
a)	The Great Depression occurred in the year _____.		K1	CO1
b)	Net Investment= Gross Investment - _____.		K1	CO1
c)	Another name for Capital Consumption Allowance is _____.		K1	CO1
d)	The building blocks of the IS Curve is the _____.		K1	CO1
e)	If MPC increases the value of the multiplier _____.		K1	CO1
3.	Match the following	(5 x 1 = 5 Marks)		
a)	Adam Smith	Measure of Inflation	K2	CO1
b)	Raghuram Rajan	Repo Rate	K2	CO1
c)	Monetary Policy	Keynes	K2	CO1
d)	GDP Deflator	Economic Advisory Council	K2	CO1
e)	Great Depression	Laissez Faire	K2	CO1
4.	TRUE or FALSE	(5 x 1 = 5 Marks)		
a)	Usually in the Short Run Prices tend to be flexible.		K2	CO1
b)	Endogenous variables are explained within the model.		K2	CO1
c)	Stagflation means Increase in output with increase in prices.		K2	CO1
d)	An economy without net exports is an open economy.		K2	CO1
e)	John Maynard Keynesian belonged to the Neo-Classical School.		K2	CO1

SECTION B			
Answer any TWO of the following in 150 words		(2 x 10 = 20 Marks)	
5.	Illustrate the difference between Real and Nominal GDP using an example.	K3	CO2
6.	Sketch the circular flows of national with government and foreign sector.	K3	CO2
7.	Illustrate the concept of Liquidity Trap.	K3	CO2
8.	Examine the Motives for Holding Money.	K3	CO2
SECTION C			
Answer any TWO of the following in 150 words		(2 x 10 = 20 Marks)	
9.	Analyze the derivation of the IS Curve using the Keynesian Cross and Investment Function.	K4	CO3
10.	Examine the crowding out effect.	K4	CO3
11.	Compare the intuition of the vertical and horizontal aggregate supply curve	K4	CO3
12.	Derive the Keynesian Multiplier.	K4	CO3
SECTION D			
Answer any TWO of the following in 250 words		(2 x 20 = 40 Marks)	
13.	Evaluate the effects of fiscal expansion and monetary expansion in the IS-LM model.	K5	CO4
14.	Appraise the general equilibrium in the IS-LM Model.	K5	CO4
15.	Justify the role of an accomodatory monetary policy to cure an economic depression	K6	CO5
16.	Construct the IS and LM curves from their respective building block.	K6	CO5

**UNIT WISE DISTRIBUTION OF CL AND CO BASED QUESTIONS AND MARKS FOR
END OF SEMESTER QUESTION PAPER SETTING FOR UG COURSES
(MC, AR, AO, MS, ME and GL)**

	SECTION A (1 Mark/Question)		SECTION B (10 Marks/Question)	SECTION C (10 Marks/Question)	SECTION D (20 Marks/Question)	
	K1	K2	K3	K4	K5	K6
UNIT I	2 (1)	2 (1)	-	1 (10)	-	
UNIT II	2 (1)	2 (1)	1 (10)	1 (10)	1 (20)	-
UNIT III	2 (1)	2 (1)	1 (10)	1 (10)	1 (20)	-
UNIT IV	2 (1)	2 (1)	1 (10)	1 (10)	-	1 (20)
UNIT V	2 (1)	2 (1)	1 (10)	-	-	1 (20)
No. of CL based Questions with Max. Marks	10 (10)	10 (10)	2 (20)	2 (20)	2 (40)	2 (40)
No. of CO based Questions with Max. Marks	CO1		CO2	CO3	CO4	CO5
	20 (20)		2 (20)	2 (20)	2 (40)	2 (40)

MC-Major Core, AR-Allied Regular, AO-Allied Optional, MS-Major Special, ME-Major Elective, GL-General Languages.

In Section D students have choice between K5 and K6.

**CL AND CO BASED MARKS DISTRIBUTION FOR DIRECT ASSESSMENTS OF UG COURSES
MC, AR, AO, MS, ME and GL**

SECTION	CL	CO	CIA I	CIA II	III Component	Semester	Total (200)	CL and CO %
A	K1, K2	CO1	6	6	20	20	52	26%
B	K3	CO2	6	6	10	20	42	21%
C	K4	CO3	6	6	10	20	42	21%
D	K5, K6	CO4, CO5	12	12	-	40	64	32%

MC-Major Core, AR-Allied Regular, AO-Allied Optional, MS-Major Special, ME-Major Elective, GL-General Languages.

COMPONENT III ASSESSMENTS AND RUBRICS

Rubrics for evaluation

Seminar/Assignment

Seminars are optional to UG and mandatory to PG. Topics for the seminar are suggested by the course teacher and the students are encouraged to collective exhaustive information on the chosen topic, arrange them in order and make a presentation. They are expected to use visual aids, models, tools for the presentation and circulate relevant literature to the students.

Rubrics for evaluation

S. No	Criteria	Max. Marks
1.	Topic introduction	10
2.	Collection of literature (primary, secondary and tertiary)	10
3.	Presentation methodology	20
4.	Articulation and Communication skills	10
5.	Time management	10
6.	Discussion and Interaction	20
7.	Summary and Conclusion	20

Internship/Field visit

Internship allows the students to gain hands on experience and industry exposure. The internship for UG is conducted during the Christmas Vacation for minimum of 30 days. The UG students will be sent to industries/organization the department signed MoU with.

Rubrics for evaluation of Internship

S. No	Criteria	Max. Marks
1.	Industry/Organization profile	10
2.	Thrust areas and specialization	10
3.	Internship module and participation	20
4.	Expertise of the industry/organization	10
5.	Regularity and hands on training	10
6.	Presentation/Demonstration	20
7.	Report writing	20