



ST.PHILOMENA'S COLLEGE (AUTONOMOUS), MYSURU

(AFFILIATED TO UNIVERSITY OF MYSORE)

REACCREDITED BY NAAC WITH A GRADE

PROGRAMME – M.A ECONOMICS

SEMESTER SCHEME

CBCS WITH LEARNING OUTCOME BASED CURRICULUM

Academic year 2018-19 onwards

PREAMBLE

The course was commenced during the academic year 2015-16. This is the first revision of syllabus; the department has introduced three interdisciplinary soft core papers in the second and third semesters. In this revised syllabus the case study is included in Advance Microeconomics and Mathematics and Statistics for Economists papers to improve practical knowledge and analytical skill of the students.

This syllabus is framed to give sound knowledge with understanding of Economics to post graduate students of two years of M.A. degree course. The course encourages the students to analyze the economic behavior of the economy, individual, firm and market. This program to



ST. Philomena's College (Autonomous) Mysore

COURSE – MA in Economics

Two-year four semesters Choice Based Credit System (CBCS) and Continuous Assessment Grading Pattern (CAGP) Under Post Graduate Programme under Autonomous Structure

FROM THE ACADEMIC YEAR- 2018 Onwards

Guidelines/Regulations

1. Eligibility for Admission

Candidates shall have studied Economics as Major/Core subject in any Bachelor degree course of any recognized University with not less than 45 % (40% for SC/ST and Category - I Candidates) of the aggregate marks of all the years of course of study. The qualification and the percentage marks for admission shall be as per the guidelines issued by University of Mysore from time to time

Note: -In case of candidates who have taken more than three years to complete their Bachelor's Degree, the percentage of mark is arrived as per the guidelines issued by University of Mysore from time to time

2. Duration of the Programmes

The duration of Programme shall extend over 4 semesters (two academic years) of 20 weeks each including instructions and examinations.

3. Maximum Period for Completion of the Programmes

The candidates shall complete the Programme within 4 years from the date of admission. The term completing the programmes means passing all the prescribed examinations of the programme to become eligible for the degree. No candidate shall be permitted to appear for the examinations after the prescribed period for completing the programme. Whenever a candidate opts for blank semesters/ dropped papers, he/she have to study the prevailing papers offered by the department when he /she continues his /her studies.

4. Medium of Instruction

The medium of instruction shall be English.

5. Hours of Instruction per Week

There shall be 24-30 hours of instructions per week in subjects without practicals/field-work and 28-34 hours of instructions per week in subjects with practicals/field-work. These hours may be distributed for lectures, seminars, tutorials, practicals, project-work and other modes of instruction which individual courses may demand.

6. Attendance

Each paper (theory/practical) shall be treated as an independent unit for the purpose of attendance. A student shall attend a minimum of 75% of the total instruction hours in a paper (theory/practical) including tutorials and seminars in each semester. There shall no provision for condonation of shortage of attendance and a student who fails to secure 75% attendance in a paper shall be required to repeat that semester with the payment of semester fees.

7. Guidelines to Implement CBCS & CAGP Masters Degree Programme

Course: Every paper offered will have three components associated with the teaching-learning process, namely

(a) **L** - Lecture (b) **T** - Tutorial (c) **P** - Practicals

Where

L - Stands for Lecture session.

T - Stands for Tutorial session consisting participatory discussion/self study/desk work/ brief seminar presentations by students and such other novel methods that make a student to absorb and assimilate more effectively the contents delivered in the Lecture classes.

P - Stands for Practical session and it consists of Hands on experience / Laboratory Experiments/Field Studies/Case studies that equip students to acquire the much required skill component.

In terms of credits, every one hour session of L amounts to one credit per semester and a minimum of two hour session of T or P amounts to one credit per semester, over a period of one semester of 16 weeks for teaching – learning process. The total duration of a semester is 20 weeks inclusive of semester end examination.

A paper shall have either one or two or all the three components. That means a may have only lecture component, or only practical component or combination of any two or all the three components.

The total credit earned by a student at the end of the semester upon successfully completing the course is equal to $L + T + P$ of each paper.

Different papers of study are labeled and defined as follows:

Hard Core Paper

A paper which should compulsorily be studied by a candidate as a core requirement is termed as a **Hard Core Paper**.

Soft Core Paper

If there is a choice or an option for the candidate to choose a paper from a pool of papers from the main discipline subject of study or from a sister/related discipline / subject which supports the main discipline/ subject is termed as a **Soft Core Paper**.

Elective Paper

Generally a paper which can be chosen from a pool of papers and which may be very specific or specialized or advanced or supportive to the discipline / subject of study or which provides an extended scope or which enables an exposure to some other discipline / subject / domain or nurtures the candidate's proficiency / skill is called an Elective Paper. Elective papers may be offered by the main discipline / subject of study or by sister / related discipline / subject of study. *A Soft Core paper may also be considered as an elective.*

Open Elective

An elective paper chosen generally from an unrelated discipline / subject, with an intention to seek exposure is called an **open elective**. **A core paper offered in a discipline / subject may be treated as an elective by other discipline / subject and vice versa.**

Project work / Dissertation work

It is a special paper involving application of knowledge in solving / analyzing / exploring a real life situation / difficult problem.

Minor Project Work

A project work up to 4 credits is called Minor Project work.

Major Project Work

A project work of 6 to 8 credits is called Major Project Work.

Dissertation Work

A project work can be of 10 – 12 credits. A Project /Dissertation work may be a hard core or a soft core as decided by the BOS concerned.

8. Scheme of Instruction

8.1 A candidate has to earn a minimum of **76 credits**, for successful completion of a Master's Degree with a distribution of credits for different papers as given in the following table.

Paper Type	Credits
Hard Core	A minimum of 42, but not exceeding 52
Soft Core	A minimum of 16
Open Elective	A minimum of 08

8.2 A candidate can enroll for a maximum of 24 credits per semester.

8.3 Only such candidates who register for a minimum of 18 credits per semester and complete successfully 76 credits in 4 successive semesters shall be considered for declaration of ranks, medals and are eligible to apply for student fellowship, scholarship, free ships and hostel facilities.

9. Continuous Assessment, Earning of Credits and Award of Grades

The evaluation of the candidate shall be based on continuous assessment. The structure for evaluation is as follows:

9.1 Assessment and evaluation processes happen in a continuous mode. However, for reporting purposes, a semester is divided into 3 distinct components identified as

C₁, C₂, and C₃

9.2 The performance of a candidate in a paper will be assessed for a maximum of 100 marks as explained below.

a) The first component (C₁) of assessment is for 15 marks. This will be based on test, assignment, seminar and attendance (Class Participation). During the first half of the semester, the first 50% of the syllabus will be

completed. This shall be consolidated during the 8th week of the semester. Beyond 8th week, making changes in C₁ is not permitted. The marks for the class participation - 91-100 % -05 marks, 81-90% - 04 marks and 75-80% - 03 marks.

b) The second component (C₂) of assessment is for 15 marks. This will be based on test, assignment, seminar and attendance (Class Participation). The continuous assessment and scores of second half of the semester will be consolidated during the 16th week of the semester. During the second half of the semester, the remaining units in the paper will be completed. The marks for the class participation- 91-100 % -05 marks, 81-90% 04 marks and 75-80% -03 marks

c) The outline for continuous assessment activities for Component – I (C₁) and Component – II (C₂) will be proposed by the teacher(s) concerned before the commencement of the semester and will be discussed and decided in the respective Departmental Council. The students should be informed about the modalities well in advance. The evaluated papers / assignments during component - I (C₁) and component - II (C₂) of assessment are immediately returned to the candidates after obtaining acknowledgement in the register maintained by the concerned teacher for this purpose.

d) During the 18th – 20th week of the semester, a semester end examination of 2 hours duration shall be conducted for each paper. This forms the third/final component of assessment (C₃) and the maximum marks for the final component will be 50.

10. Setting Question Papers and Evaluation of Answer Scripts.

a) Question papers in three sets shall be set one by the internal and two by the external examiners. While selecting the examiners the University Guidelines to be followed. Whenever there are no sufficient internal examiners, the Chairman of Board of Examination [BOE] shall get the question papers set by external examiners.

b) The Board of Examiners shall scrutinize and approve the question papers and scheme of valuation.

c) There shall be single valuation for all theory papers by **external examiners**. A detailed scheme of valuation to be prepared by the department and to be provided to the external examiner along with the answer scripts

d) The examination for Practical Work / Field Work / Project Work will be conducted jointly by internal and external examiners. However, the BOE on its discretion can also permit two internal examiners from the College.

e) If a paper is full of (L = 0): T: (P=0) type, then the examination for C₃ component will be as decided by the BOS concerned.

i) The details of continuous assessment are summarized in the following Table

Component	Syllabus in a paper	Weightage	Period of continuous assessment
C ₁	First 50% of the Syllabus	15%	First half of the semester To be consolidated by 8 th week
C ₂	Remaining 50% of the Syllabus	15%	Second half of the semester To be consolidated by

			16 th week
C ₃	Semester-end examination (all units of the paper)	70%	To be completed during 18 th – 20 th Week
Final grades to be announced latest by 24th week			

k) A candidate's performance from all 3 components will be in terms of scores, and the sum of all three scores will be for a maximum of 100 marks (15 + 15 + 70).

m) **Finally, awarding the grades should be completed latest by 24th week of the Semester.**

11. Minor / Major Project Evaluation

Right from the initial stage of defining the problem, the candidate has to submit the progress reports periodically and also present his / her progress in the form of seminars in addition to the regular discussion with the guide. Components of evaluation are as follows:

Component – I(C₁): Periodic Progress and Progress Reports (15)

Component – II (C₂): Results of Work and Draft Report (15)

Component – III (C₃): Final Viva Voce and evaluation (70). The report evaluation is for 40 and the Viva – voce examination is for 30.

12. In case a candidate secures less than 30% in C₁ and C₂ put together in a paper, the candidate is said to have **DROPPED** that paper, and such a candidate is not allowed to appear for C₃ in that paper.

In case a candidate's class attendance in a paper is less than 75% or as stipulated by the College, the candidate is said to have **DROPPED** that paper, and such a candidate is not allowed to appear for C₃ in that paper.

Teachers offering the papers will place the above details in the P G Department Council meeting during the last week of the semester, before the commencement of C₃ and subsequently a notification pertaining to the above will be brought out by the Principal before the commencement of C₃ examination. A copy of this notification shall also be sent to the office of the Controller of Examinations.

12.1 In case a candidate secures less than 30% in C₃ he/she may choose **DROP/MAKEUP** option.

In case a candidate secures more than or equal to 30% in C₃ but his/her grade (G) = 4, as per section 12.5 below, then he/she may be declared to have been conditionally successful in that paper, provided that such a benefit of conditional clearance based on G = 4 shall not be availed for a maximum of **8credits** for the entire programme of Master's Degree of two years.

A candidate exercising his/her option to MAKEUP examination shall be declared passes if he/she secures more than or equal to 30% in C₃ provided he/she fulfils the conditions mentioned in the Para 12.1 & 12.5. To a candidate who does not pass in MAKE UP examination, no separate MAKEUP examination shall be conducted. Such a candidate has to appear for the examination as and when the C₃ component examination is conducted for Odd & Even semester of that academic year along with the regular candidates..

12.2 A candidate has to re-register for the DROPPED paper when the paper is offered again by the department if it is a hard core paper. The candidate may choose the same or an alternate core/elective in case the dropped paper is soft core/ elective paper. A candidate who is said to have DROPPED project work has to re-register for the same subsequently within the stipulated period. **The details of any dropped paper will not appear in the grade card.**

12.3 The tentative / provisional grade card will be issued by the Registrar (Evaluation) at the end of every semester indicating the papers completed successfully. This statement will not contain the list of DROPPED papers.

12.4 Upon successful completion Master's degree a final grade card consisting of grades of all papers successfully completed by the candidate will be issued by the Registrar (Evaluation).

12.5 The Grade (G) and the Grade Point (GP) earned by the candidate in the subject will be as given below.

P	G	GP = V x G
90 – 100	10	V x 10
80 – 89	9	V x 9
70 – 79	8	V x 8
60 – 69	7	V x 7
50 – 59	6	V x 6
40 – 49	5	V x 5
30 – 39	4	V x 4
0 – 30	0	V x 0

Here, P is the percentage of marks $P = \frac{[(C_1 + C_2) + C_3]}{C_1 + C_2 + C_3}$ secured by a candidate in a paper which is rounded to nearest integer. V is the credit value of paper. G is the Grade and GP is the Grade Point.

12.6 A candidate can withdraw any paper within ten days from the date of notification of final results of that semester. Whenever a candidate withdraws a paper, he/she has to register for the same paper in case it is hard core paper, the same paper or an alternate paper if it is soft core/open elective.

A DROPPED paper is automatically considered as a paper withdrawn.

12.7 The Semester Grade Point Average (SGPA) of a candidate after successful completion the required number of credits (76) is given by

$$SGPA = \frac{\sum GP}{\text{Total number of credits}}$$

12.8 The Final Semester Grade Point Average (SGPA) of a candidate after successful completion the required number of credits (76) is given by

$$CGPA = \frac{\sum GP \text{ of all the four Semesters}}{\sum \text{Credits of all the Semesters}}$$

13. Classification of results

The Final Cumulative Grade Point (FGP) to be awarded to the student is based on CGPA secured by the candidate and is given as follows:

CGPA	FGP	
	Numerical Index	Qualitative Index
$4 <= CGPA < 5$	5	SECOND CLASS
$5 <= CGPA < 6$	6	
$6 <= CGPA < 7$	7	FIRST CLASS
$7 <= CGPA < 8$	8	
$8 <= CGPA < 9$	9	DISTINCTION
$9 <= CGPA < 10$	10	

Overall percentage = $10 \times CGPA$ or is said to be 50% in case $CGPA < 5$

VISION AND MISSION OF THE COLLEGE

VISION:

The college is guided by the visionary zeal of providing value- based education to everyone irrespective of religion, caste, creed or sex by which the character is formed, intellect is explained and one can stand on his/her feet.

MISSION:

To transform young men and women who come to learn not from books, but also from life and to share the experience of working and playing together, this inculcates life skills to become good citizens with integrity and discipline.

VISION AND MISSION OF THE DEPARTMENT

VISION:

The department envisions achieving excellence in teaching and significant research to provide quality education to students, and prepare professional leaders to address the emerging global economic and social challenges.

MISSION:

1. To prepare students for acquiring applied knowledge of economics to enhance their employability and entrepreneurship.
2. To equip students with skills to formulate and implement theoretical and applied research work that will contribute to knowledge for nurturing future researchers and specialists in economics.
3. To provide a vibrant and innovative environment for students to acquire knowledge necessary for developing themselves into qualified professionals.

PO No.	Programme Educational Objectives (PEOs)
PEO-1	PROFESSIONAL DEVELOPMENT To train the students to acquire applied knowledge in economics and apply professionally and ethically with responsibility towards the need of the society
PEO-2	CORE PROFICIENCY To expertise the students to organize, understand, evaluate, and solve problems by providing hands on experience through modern tools and techniques for necessary practice.
PEO-3	TECHNICAL ACCOMPLISHMENTS To equip the students with the talent to interpret in core applications by building up a multi-disciplinary concept.
PEO-4	PROFESSIONALISM To train the students to acquire the significance of self-discipline, communication skills, professional

	attitude, holistic personality development, responsibility and team work to be better economist.
PEO-5	LEARNING ENVIRONMENT To provide an environment for life-long learning to inculcate the importance of research, creativity, invention and leadership to become a successful economist.

Mapping of Mission of the department with Programme Educational Objectives

Mission	Programme Educational Objectives (PEOs)				
	PEOs-1	PEOs-2	PEOs-3	PEOs-4	PEOs-5
M1	✓	✓		✓	
M2	✓		✓		
M3				✓	✓

PO No.	PROGRAMME OUTCOMES (POs) Upon completion of the Programme the student will be able -
PO-1	The students will be able to analyze the Socio-Political and Economic Issues related to national and international scenario.
PO-2	Curriculum helps to create the capacity to Work effectively in a multi-disciplinary environment.
PO-3	The students are able to understand the research culture leading to publication of articles and research article from the projects/subjects for hands-on experience.
PO-4	The students will be able to understand how the economic policies affect the common people through the societal interactions.
PO-5	The students empower with a holistic approach in professional attitude towards ethical issues, teamwork, responsibility and accountability for a better career.

PSO No.	PROGRAMME SPECIFIC OUTCOMES PSOs Upon completion of the Programme the student will acquire -
PSO-1	The Student will get depth knowledge about Micro and Macro Economics.
PSO-2	Students are able to gain knowledge and analyze Fiscal policy, Monetary policy, Welfare policies and its implications in economy.
PSO-3	Qualitative and quantitative techniques, Data analyse and interpretation skills by using SPSS, Eviews, STATA and Tally Softwares are used for hands on experience.
PSO-4	Training the students in handling research tools and techniques and ethics as well as publishing skills of research articles.
PSO-5	Helps to understand the international trade and finance, Human development Index, MDG's and SDG's, Economic and Environmental development.

MAPPING OF PROGRAMME EDUCATIONAL OBJECTIVES WITH PROGRAM OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PROGRAM OUTCOMES	PROGRAM SPECIFIC OUTCOMES
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PROGRAMME EDUCATIONAL OBJECTIVES	PO-1	PO-2	PO-3	PO-4	PO-5	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
PEOs-1	✓							✓		
PEOs-2			✓			✓				
PEOs-3		✓						✓		
PEOs-4					✓			✓		✓
PEOs-5				✓			✓		✓	

MA - Economics - Course Structure

I Semester							Total
Sl.No	Subject Code	QP Code	Title	Type (HC/SC)	L:T P	Credit	Credits
1	A0210	51001	Advanced Micro Economics	HC	3:1:0	4	16
2	A0220	51002	Advanced Macro Economics	HC	4:0:0	4	
3	A0230	51003	Mathematics and Statistics for Economists	HC	3:1:0	4	
4	A0240	51004	Development Economics	HC	4:0:0	4	
			Any One of the following				
5	A0310	51005	Financial Economics	SC	4:0:0	4	4
6	A0320	51006	Economics of Health	SC	4:0:0	4	
7	A0330	51007	Agricultural Economics	SC	4:0:0	4	
8	A0340	51008	Labour Economics	SC	4:0:0	4	
II Semester							
1	B0210	51101	Indian Economy	HC	4:0:0	4	12
2	B0220	51102	Public Economics : Theory & Policy	HC	4:0:0	4	
3	B0230	51103	Monetary Economics	HC	4:0:0	4	
			Any One of the following				
4	B0310	51104	Gender Economics	SC	4:0:0	4	4
5	B0320	51105	Agricultural Economics	SC	4:0:0	4	
6	B0330	51106	Labour Economics	SC	4:0:0	4	
7	B0550	96505	Media and Social Development(Interdisciplinary) (both teacher and student sharing with Social Work and Journalism departments)	SC	4:0:0	4	
			Open Elective				
1			Open Elective – offered from other departments	OE	4:0:0	4	4
III Semester							
1	C0210	51201	Research Methodology and Data Analysis	HC	3:1:0	4	

Open Electives offered to for non-economics students					
1		I Semester	-	-	-
2		II Semester – Indian Economy	OE	4:0:0	4
3		III Semester- 1. Rural Development in India	OE	4:0:0	4
		2. Environmental Economics	OE		4
4		IV Semester- 1. Indian Financial Institutions & Markets	OE	4:0:0	4
			OE		4
HC-56 + SC-16 + OE-8 = 80					80
					Nil



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(AFFILIATED TO UNIVERSITY OF MYSORE) REACCREDITED BY NAAC**

PROGRAMME: M.A.ECONOMICS

(For Candidates admitted during the Academic year 2018 onwards)

I SEMESTER

Course Title	ADVANCED MICROECONOMIC						
Course Type	Hard Core- Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2 = 15+15			30 Marks	100
		External	Duration	C3	03Hrs	70 Marks	
COURSE OBJECTIVES(COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	To analysis the cost conditions of the industries						
CO-2	To understand the market conditions and make decision in market						
CO-3	To understand the concept of input output analysis						
CO-4	Insist an entrepreneurial skill among the students						
Mapping of CLOs with PSOs&CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed		CLDs	
CLO-1	Understand and analyze the behavioral patterns of consumers and markets.			PSO-1		Analyse	
CLO-2	Apply and evaluate the Cost of Capital Techniques in a production.			PSO-3		Evaluate	
CLO-3	Analyse Linear & Non- Linear functional relationship			PSO-4		Analyse	
CLO-4	Understand price determination of factors (Rant, wages, interest and Profit.) and social welfare function.			PSO-2		Understand	
CLO-5	Evaluate the externalities effect on the different market conditions.			PSO-5		Evaluate	

Unit I: Theory of Consumer Behavior		12 Hrs
1.1	Introduction	
1.2	Historical Development of the Theory	
1.3	Indifference Curve Analysis	
1.4	Revealed Preference Hypothesis	
1.5	Consumer's Behaviour under Conditions of Uncertainty and Risk	
1.6	Theory of Marginal Preference	
1.7	Lancaster's Theory.	
Unit II: Theory Demand and Supply		14Hrs
2.1	Theory of demand-Derivation Demand Schedules -Factors Influencing Demand	
2.2	Elasticity of Demand (Applications) - Changes in Demand and Changes in Quantity Demanded -Price Elasticity - Income Elasticity- Cross Elasticity.	
2.3	Recent Developments in the Theory of Demand - Linear Expenditure System -Demand for the Product of a Firm.	
2.4	Theory of Supply -Factors Influencing Supply -Changes in Supply - Supply Elasticity- Determinants of Supply Elasticity- Market Determination of Price and Quantity- Equilibrium Supply and Demand - (Applications).	
Unit-III:Production and Cost Analysis		14Hrs
3.1	Production Theory: Production Function with One Variable Input and Two Variable Inputs	
3.1.1	Optimal use of Variable Inputs and Optimal Combination	
3.1.2	Empirical Production Function – Cobb-Douglas production function - CES production function	
3.1.3	Technology and International Competition	
3.2	Cost Theory	
3.2.1	Short-Run Cost Function and Cost Curves	
3.2.2	Long-Run Cost Curves	
3.2.3	Economics of Scale and Economies of Scope	
3.2.4	Learning Curve	
3.2.5	Empirical of Cost Functions	
Unit-IV:Price and Output Determination under Different Markets		12 Hrs
4.1	Perfect Competition: Equilibrium of the Firm under Market Period, Short-Run and Long- Run - Constant, Increasing and Decreasing Cost -Industries - Equilibrium of the Firm and Industry.	

4.2	Pure Monopoly: Demand and Marginal Revenue under Monopoly - Short-Run and Long- Run Equilibrium - Cost of Monopoly to Society - Price	
4.3	Imperfect Competition: Monopolistic Competition: Fundamentals - Short-Run and Long-Run Equilibrium - Product Differentiation - Resource Allocation and Utilization -	
4.4	Oligopoly: Chamberlin Model – The Kinked Demand Curve Model – The Centralized and Market Sharing Cartel Model – Price Leadership – Collusive Oligopoly – Oligopoly and Price Rigidity:Case Study.	
Unit –V: A Critique of the Neo - Classical Theory of Firm		12Hrs
5.1	The Marginalist Controversy	
5.2	A Critique of Average-Cost Pricing	
5.3	Baumol’s Sales Revenue Maximization Model	
5.4	Williamsons’ Model of Managerial Discretion	
5.5	Marris’s Model of Managerial Enterprise	
5.6	Full Cost Pricing Rule	
5.7	Bain’s Limit Pricing Theory and its Recent Developments -Sylos – Labini’s Model -Behavioural Model of The Firm	
5.8	Game TheoreticModel	

Self-Study Component:

Historical Development of the Consumer Theory - cardinal versus ordinal Utility theory. The Law of Demand-Elasticity’s of Demand–Demand Schedule -Supply Schedule-Equilibrium Supply and Demand.

Production Theory - Returns to Scale-nature and types of costs-theory of firm

Equilibrium of the firm and the industry- Characteristic features of Perfect competition,Monopoly,Monopolistic competition-Price and output determination under different market conditions

Reference Books

Sl. No	Title of the book	Authors	Publisher	Editio n	Year of publicatio n
1	Modern Microeconomics	Koutsoyiannis,	Macmillan, London	5 th	1997
2	Principles of Microeconomics, latest edition	N.GragoryMankiw,	The Dryden Press	7 th	2019
3	Theory and Problems of Microeconomic	Dominick Salvator	Schaum’s Outline Series, McGraw-Hill Book Company	12 th	2002

4	Microeconomics	Pindyck Robert S., and Daniel L. Rubinfeld,	Pearson Prentice Hall.	7 th	2006
5	Advanced Economic Theory	Ahuja H.L	S.Chand and Company	19 th	2002
6	Principles of Economics	McConnell R. and Stanley L. Brue	Tata McGraw Hill Inc	16 th	2005
7	Microeconomics	Hubbard R. Glenn and Anthony Patrick O'Brien	Pearson Prentice Hall	2 th	2016

I SEMESTER

Course Title	ADVANCED MACROECONOMICS						
Course Type	Hard Core Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr	70 Marks	100
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	To understand the concepts of national income and accounting.						
CO-2	To familiarize the students, the basic difference between the classical and Keynesian theories.						
CO-3	To understand the theoretical structure of macroeconomics it's very essential for the students to analyze of the different issues and policies in the real economy.						
CO-4	To Understand about of Inflation, Unemployment problem and knowledge about Business cycle.						
Mapping of CLOs with PSOs & CDLs							

CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to	PSOs Addressed	CLDs
CLO-1	Understand of national income accounting.	PSO-1	Understand
CLO-2	Understand and analyse classical & Keynesian theories of output and employment.	PSO-2	Analyze
CLO-3	Evaluate the consumption and Investment functions.	PSO-3	Evaluate
CLO-4	Apply the business cycle theories in the economy.	PSO-4	Apply
CLO-5	Understand various macroeconomic problems.	PSO-2	Understand

Unit 1: National Income Accounting		12Hrs
1.1	Measurement of National Income and Macro Performance	
1.2	National Income Accounts- Accounting Concepts & Identities	
1.3	GDP Deflator	
1.4	National Income Accounting Identities	
1.5	GNP and Quality of Life measuring the cost of Living	
1.6	Importance of National Income Analysis	
1.7	Green accounting	
Unit-II: Classical Theory: The Economy in the Long-Run		14Hrs
2.1	The Classical Revolution -Basic Assumptions of the Classical School - Determinants of Output, Employment, Savings, Investment, Wages, Prices, Interest Rate	
2.2	Equilibrium Output and Employment	
2.3	Implications of Classical Full Employment Model	
2.4	Critical Evaluation.	
Unit-III: Keynesian Macroeconomics		14Hrs
3.1	Concept of Effective Demand: Aggregate Demand and Aggregate Supply - Underemployment Equilibrium.	
3.2	Consumption Function and its Determinants: Implications of Consumption Function.	
3.3	Alternative Theories of Consumption Behaviour –Friedman’s theory of consumption - Franco Modigliani and the Life-Cycle Hypothesis - Robert Hall and	

	the Random-Walk Hypothesis.	
3.4	Investment Function and its Determinants: Business Fixed Investment, Residential Investment, Inventory Investment - Equilibrium Income and Output in Simple Two Sector Model, Three Sector and Four Sector Models - Multiplier and Accelerator Analysis - Relevance and Critique of Keynesian Macroeconomics.	
Unit –IV: Business Cycle Theory: The Economy in the Short-Run		12Hrs
4.1	Introduction to Economic Fluctuations: Time Horizons in Macroeconomics - Aggregate Demand - Aggregate Supply - Stabilization Policy.	
4.2	Aggregate Demand: Goods Market and the <i>IS</i> Curve - Money Market and the <i>LM</i> Curve.	
4.3	Explaining Fluctuations with the <i>IS-LM</i> Model - <i>IS-LM</i> as a Theory of Aggregate Demand - The Great Depression.	
4.4	Aggregate Demand in the Open Economy: Mundell-Fleming Model with Changing Price Level.	
4.5	Aggregate Supply: Three Models of Aggregate Supply: Sticky-Wage Model, Imperfect-Information Model, Sticky-Price Model - Inflation, Unemployment and the Phillips Curve. Edmond Phelps on Phillips Curve.	
4.6	Macroeconomic Policy Debates: Stabilization Policy.	
Unit-V: New Classical Economics		12Hrs
5.1	Emergence of New Classical Macroeconomics: Rational Expectations Analysis	
5.2	Policy Conclusions and Implications	
5.3	Supply-Side Economics	
5.4	Theoretical Propositions and Implications	
5.5	Keynesian Counter Critique.	

Self-Study Components

1. Central Themes of Macroeconomics
2. Functional relationships & Identities
3. Methods of National Income Estimation
4. Trends in India's National Income
5. Problems in the estimation of India's National Income
6. Says Law of Markets. OTM, Pigouvian Theory, Real Theory of Interest.
7. Determinants of the PC and Investment
8. MEC & its determinants

9. Investment Multiplier, Accelerator
10. Alternative theories of consumption behavior.
11. Causes & Consequences of economic fluctuations
12. Theories of inflation.

References:

Sl. No	Title of the book	Name of the author	Name of the publisher	Edition	Year of publication
1	Macroeconomic Analysis	Shapiro Edward	Galgotia Publications	First	2004
2	Macroeconomics	RudigerDornbusch, Stanley Fisher and Richard Startz	Tata Mcgraw-Hill Publishing	Fifth	2004
3	Macroeconomics	Mankiw N Gregony	Worth Publishers	2 th Edn	2014
4	Advanced Macro economics	David Romer	McGraw Hill	9 th Edn.	2001
5	Macroeconomics	Mankiw N. Gregory	Worth Publishers	4 th Edn	2016
6	Macroeconomics: Theory and Policy	Ackley Gardner	Macmillan	5 th Edn	2010
7	Macroeconomics	Blanchard Oliver	Blanchard Oliver	latest	2018

I SEMESTER

Course Title	MATHEMATICS AND STATISTICS FOR ECONOMISTS						
Course Type	Hard Core- Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2 = 15+15			30 Marks	
		External	Duration	C3	03Hrs	70 Marks	
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	To provide quantitative skills to collect, analyze and interpret the analytical data.						
CO-2	To give basic mathematical and statistical techniques for economic students.						
CO-3	To understand the different techniques for analyzing the data.						
CO-4	To provide various tools which helps for decision making						
Mapping of CLOs with PSOs &CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed		CLDs	
CLO-1	Gives the mathematical and statistical methods to analyze and understand economic theories.			PSO-3		Understand	
CLO-2	They get analytical skills, market prediction and cause and effect relationship between the variables.			PSO-1		Analyze	
CLO-3	Analyse the difference between the linear and non-linear functions			PSO-3		Analyze	
CLO-4	Able to take decisions and forecast the economic			PSO-4		Analyze	
CLO-5	Gives an idea about how to utilize the optimum Resources.			PSO-2		Understand	

Unit: I Equilibrium		12 Hrs
1.1	Meaning of equilibrium Partial market equilibrium-A linear and non-linear functions	
1.2	Solution of a general equation system	
1.3	Equilibrium in national income analysis- Aggregate demand and aggregate supply functions	
1.4	Consumption function	
Unit: II Calculus		14Hrs
2.1	Differential techniques and Rules-Maxima and Minima of function	
2.2	Utility analysis - Maximization of utility - Mathematical derivation of consumers' equilibrium-Demand elasticity and estimation, Relationship – MR, AR and elasticity.	
2.3	Integration techniques- Rules	
2.4	Consumer's Surplus- Producer's Surplus	
2.5	Introduction to Differential Equations	
3.4	Vector and Matrices – Basic concepts, types of matrix, elementary operations, Inverse matrix,	
3.4.1	Solving a system of linear equations	
3.4.2	Testing consistency of linear equation	
Unit: III Theory of Firms' Behavior		12 Hrs
3.1	Production function	
3.1.1	Cost function	
3.1.2	Revenue function	
3.1.3	Equilibrium of firms and profit maximization,	
3.1.4	Homogenous function	
3.1.5	Cobb-Douglas production function	
3.1.6	CES Production Function,	
3.1.7	Euler's theorem	
3.1.8	Monopoly and joint production,	
3.1.9	Duopoly	
3.1.10	Producers' surplus	
3.1.11	Cob-web model	
3.1.12	Multi-market equilibrium.	
Unit: IV Correlation and Regression		14Hrs

4.1	Meaning and Types of Correlation, Scatter diagram, Correlation coefficient	
4.2	Pearson's product moment correlation coefficient, Calculation of Pearson's correlation	
4.3	Spearman's Rank Correlation Coefficient	
4.4	Regression Method – Linear regression method - Two variables	
4.5	Hypothesis Testing	
4.6	Introduction to Multiple Regression	
4.7	Time Series Analysis – components of time series- Estimation by least squares method	
Unit: V Index Numbers		
5.1	Measuring and types of Index Numbers, Price index, Retail price index, Quantity index Link and Chain	12 Hrs
5.2	Relative uses of index numbers	
5.3	Method of construction of index numbers	
5.4	Computation of Index numbers –Laspeyer's, Paache's Index numbers- Marshall- Edgeworth Index numbers - Fisher's Aggregate method	
5.5	Deflating the index numbers	
5.6	Limitation of index numbers	

Self-study components

1. Applicability of mathematical and statistical tools to other disciplines, Inductive and Deductive reasoning, Axiom system, Logic meaning of necessary and sufficient conditions, sets and relations, number system, Algebra –Function and limits -linear and non linear functions, exponential function, logarithmic function., Analytical Geometry, Simultaneous equation and solutions for two variables.
2. Differentiation and Integration – Derivative, rules of differentiation, functions of several variables, partial derivatives, total derivative.
3. Types of Data, Nominal data, Ordinal data, qualitative data and quantitative data, Discrete and Continuous data, Sources of data, Population and Samples,
4. Standard normal, 't', X^2 and 'F' distributions.

References:

Sl. No	Title of the book	Authors	Publisher	Edition	Year of publication

1	An Introduction of Mathematical Economics	Bose D	Himalaya Publishing House	-	2018
2	Mathematics and Statistics for Economics, , New Delhi	Monga G S, Vikas	Publishing House	-	2000.
3	Theory and Problems of Microeconomic	Dominick Salvator	Schaum's Outline Series, McGraw-Hill Book Company	12 th	2002
4	Microeconomics	Pindyck Robert S., and Daniel L. Rubinfeld,	Pearson Prentice Hall.	7 th	2006
5	Advanced Economic Theory	Ahuja H.L	S.Chand and Company	19 th	2002
6	Mathematical Analysis for Economists,	Allen R.G.D	Macmillan		

I SEMESTER

Course Title	DEVELOPMENT ECONOMICS						
Course Type	Hard Core Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15		30Marks		100
		External	Duration	C3	03 Hr.	70 Marks	
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	To familiarizes the basic theories, approaches and problems of economics of development and planning.						
CO-2	To analyse the basis of inequality measurement is used to develop measures of inequality between nations.						
CO-3	The course proceeds to aggregates models of growth and cross-national comparisons of the growth experience.						
CO-4	To understand the theories of neo classical growth and partial theories of economic growth and development.						
Mapping of CLOs with PSOs & CDLs							

CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to	PSOs Addressed	CLDs
CLO-1	Understand the differences between Economic growth and Development, Indicators of Economic Development.	PSO-5	Understand
CLO-2	Analyse the inequality measures and Characteristics of Developing Countries.	PSO-1	Analyze
CLO-3	Understand Constraints on Development Process.	PSO-5	Understand
CLO-4	Understand theories and Approaches of economic development.	PSO-5	Understand
CLO-5	Evaluate some growth models.	PSO-2	Evaluate

Unit: I Introduction to Development Economics		12 Hrs
1.1	Measuring Economic Development, Concept of Human Development	
1.2	Human Development Index	
1.3	Human Capability Approach to Development	
1.4	Development as Freedom	
1.5	Development versus Displacement.	
1.6	Changing paradigms of Development Economics	
1.7	Sustainable development	
Unit-II: Theory of Poverty and Income Distribution		14Hrs
2.1	Growth and Distribution Justice	
2.2	Kuznet's Hypothesis	
2.3	Poverty and its Measurement - Poverty Alleviation Measures	
2.4	Convergence and Divergence Economic Theories	
2.5	Development Gap - Causes, Consequences and Measures to Reduce Development Gap	
2.6	Measuring income distribution	
2.7	Lorenz curve, Gini Co-efficient & functional distribution of income.	
Unit-III: Grand Theories of Economic Growth and Development		14Hrs
3.1	Classical Theory of Economic Development and its Salient Features	
3.2	Theories of growth :Adam Smith's & David Ricardo's	
3.3	Karl Marx: Growth and Decay of Capitalism, Theory of Social Change, Surplus Value Theory, Reserve Army and Materialistic Interpretation of History	
3.4	Schumpeter's Growth Theory: Capitalistic Development, Crisis in Capitalism, Innovation, Degeneration of Capitalism	
Unit-IV: Neo-Classical Growth Theories		12Hrs
4.1	Stylized Factors of Neo-Classical Growth Theory	
4.2	J.E. Meade's Growth Model	
4.3	Harrod- Domar Model	
4.4	Kaldor&Mirrlees Model	
4.5	Mrs. Joan Robinson's Model	

4.6	Cambridge Criticism of Neo-Classical Growth Model.	
Unit-V: Partial Theories of Economic Growth and Development		12Hrs
5.1	Salient Features of Partial Theories	
5.2	Vicious Circle of Poverty	
5.3	Theory of Circular Cumulative Causation	
5.4	LewisModel	
5.5	Big-push and Critical Minimum Effort Thesis	
5.6	Balanced and Unbalanced Growth Theories	
5.7	Endogenous Growth Models	
5.8	Romar-LucasModel	
5.9	Learning by Doing and Production Function Approach to Development	
5.10	Golden Rule of Accumulation.	

Self-Study Components

Unit1: Concept of Development Economics- Evolution of Development Economics –Definitions & meaning of Economic development .Calculation of HDI, GDI, GEM, HPI, Human Deprivation index – recording the views on development vs displacement issues from the affected groups of people.

Unit 2: Measures of Development distance – NIEO – review of latest world development

Report to know the current position of global development status.

Unit 3: Failure of Marxism – A critique – relevance of Schumpeter in globalisationcontext Technology as the driving force under globalisation – ICT revolution and Human development.

Unit4: Recording the grievances of small & marginal farmers – Meeting few Industrialists & recording their problems in the context of globalisation – meeting local exporters & listing the barriers to export – panel discussion on commercialization of service sector.

References

Sl. No	Title of the book	Name of the author	Name of the publisher	Edition	Year of publicatio
1	Growth & Development	Thirlwall A.P,	West press pvt. Ltd.		
2	Economic Development in the 3th World,	Todaro M.P & Smith	Orient & Longman	2 nd	2007
3	Development Economics,	Ray Debraj	Princeton	Latest	1998

			university press		
4	Leading Issues in Economic Development	Meier M Gerald,	oxford New York	Latest	2004
5	Economic Development – Theory Principles &History	Higgins Benjamin W.W Norton	New York	---	1999
6	Economics of Growth, Development &Planning	Srivastava O.S	Vikas publication	6 th	1996
7	Frontiers of Development Economics	G.M Meier & josephs E. Stiglitz	Oxford University press	4 th	2002
8	Paradigm of Development Economics	Rajanikanth	--	2 nd	2003
9	Economic Development – Theory & Practice for a divided World	Stuart R. LynnPrintice hall	New Jersy		2003
10	Economic Growth	Robert J. Barro& Xavier Sale I Martin	McGraw Hill	3 rd	2010

I SEMESTER

Course Title	FINANCIAL ECONOMICS						
Course Type	Soft Core- Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2 = 15+15			30 Marks	
		External	Duration	C3	03Hrs	70 Marks	
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	To understand and identify the intermediaries in the financial sector						
CO-2	To make aware about the instruments in the financial sector.						
CO-3	To identify the functions of Intermediaries in the Development of Capital market						
CO-4	To understand the difference between primary and secondary market and assess the working of SEBI						
Mapping of CLOs with PSOs &CDLs							

CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to	PSOs Addressed	CLDs
CLO-1	Understand the structure and functions of financial market.	PSO-1	Understand
CLO-2	Analyse the performance of primary and secondary market.	PSO-2	Analyse
CLO-3	Evaluate the performance of monetary policy	PSO-3	Evaluate
CLO-4	Understand and analyse the functions of exchange	PSO-5	Analyse
CLO-5	Analyse the changing role of financial institutions in the process of growth and development.	PSO-4	Analyse

Unit: I Financial Economics		16Hrs
1.1	Structure of Financial System	
1.2	Functions of Financial Sectors	
1.3	Equilibrium of Financial Markets	
1.4	Financial System and economic development	
1.5	Criteria to Evaluate Financial sectors	
Unit: II Introduction to Security Analysis		16Hrs
2.1	Meaning of Risk- Types of risk	
2.2	Concept and types of Return of Yield Risk	
2.3	Return Trade Off	
2.4	Valuation of Securities	
2.5	General Principles of Valuation	
Unit: III Regulatory and Promotional Institutions		16Hrs
3.1	RBI, Functions, Role	
3.2	Objectives of Monetary policy and Instruments	
3.3	Commentary on Current monetary Policy	
3.4	SEBI- functions- Role in Security Market	
Unit: IV Money Market and Capital Market		16Hrs
4.1	Instruments	
4.2	Repo and Reverse Repo rate	

Self-	4.3	Organization of Money market and Participants	Study
	4.4	Capital Market Instruments	
	4.5	Primary Issue – Process	
	4.6	Secondary Market	
	4.7	Stock exchange	
	4.8	Process of trading	

components:

1. Introduction to Indian Financial system
2. Indian money market and its instruments
3. Indian capital market
4. RBI functions- commercial banks.

References

Sl. No	Title of the book	Authors	Publisher	Edition	Year of publication
1	Financial Institutions and Markets	L.M. Bhole	Tata McGraw – Hill publishing Company	-	1999
2	Indian Financial System	Pathak, V. Bahrathi	Pearson India Ltd	-	2008
3	Indian Financial System	Khan. M.Y.	Tata McGraw Hill	12 th	2008
4	Development Banking and Financial Intermediaries	Desai Vasant	Himalaya Pub., House		
5	The Indian Financial System: Markets, Institutions and Services	Pathak, Bharati V.	Pearson Education India		

I SEMESTER

Course Title		ECONOMICS OF HEALTH						
Course Type	Soft Core-Theory	Total Hours	64	Hours/Week		04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks		100
		External	Duration	C3	03 Hr.	70 Marks		
COURSE OBJECTIVES (COs)								
CO No.	Course Objectives On completion of the course the student will be able to							
CO-1	To understand the scope and objectives of health economics.							
CO-2	To acquire sufficient knowledge about fundamental principles of health economics.							
CO-3	To create awareness about financing health care services and allocation of resources in the budget.							
CO-4	To understand and analyze the health inputs, outputs and health indicators.							
Mapping of CLOs with PSOs & CDLs								
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to				PSOs Addressed	CLDs		
CLO-1	Relate and rephrase the scope and objectives of health economics.				PSO-1	Remember		
CLO-2	Students are able to Understand and apply microeconomic principles to analyze the major issues of the health care sector.				PSO-1	Understand		
CLO-3	Understand the public supply of health services with free and discriminatory pricing.				PSO-2	Understand		
CLO-4	Understand about health insurance and its importance.				PSO-5	Understand		
CLO-5	Analyze the health care for poor and latest health programmes.				PSO-3	Analyze		

Unit: 1 Understanding Health Economics		16 Hrs
1.1.	Health Care Economics – its economic theory	
1.2.	Health care needs and the health care sector	
1.3.	Health care services in human resource development process	
1.4.	Global health scenario	
1.5.	Major diseases-estimates of ill health burden	
1.6.	Estimation of economic value of health care services.	
Unit: II Demand and Supply of health services and pricing system		16 Hrs
2.1.	The supply function of health care services	
2.2.	The personnel system	
2.3.	Physical infrastructure networking	
2.4.	Drug industry- the hospitals and nursing homes	
2.5.	The physician induced supply of health care.	
2.6.	The demand for health care	
2.7.	Derivation of the demand	
2.8.	Public provision of health care	
2.9.	Pricing as a means of demand generation	
2.10.	Public supply of health services-with free	
2.11.	Discriminatory pricing	
2.12.	Health insurance	
2.13.	Individuals and family	
2.14.	As an incentive for demand creation for health.	
Unit: III Financing health care services		16 Hrs
3.1.	Government financing of health care	
3.2.	Health care as public good and merit good	
3.3.	Allocation of resources in the budget	
3.4.	Comparing the ratio of health expenditure with comparable countries	

3.5.	Financing through social insurance	
3.6.	Health care for the poor, disabled, aged and institutional finances- latest health programmes	
3.7.	The role of development financial institutions	
Unit: IV Health inputs, outputs and health indicators		16 Hrs
4.1.	Resources	
4.2.	Costs- cost concepts and cost analysis	
4.3.	Cost- output relationships	
4.4.	Production function	
4.5.	Components of costs- comparing, costs- costing methods.	
4.6.	Outputs and health indicators- measures of mortality and morbidity	
4.7.	Measures of function and dysfunction health profiles	
4.8.	Global health indicators- quality adjusted life year (QALY)	
4.9.	Efficiency and evaluation: Production function and health sector	
4.10	Economic efficiency and evaluation	

Self Study:

National health policy for all by 2000 A.D.- Alternative health policy, Voluntary health services, private sector in health services, Reproductive health care system, user pays principle in pricing- Networking of the health care system national nutritional Programmes.

Books for Reference:

Sl. No	Title of the book	Name of the author	Name of the publisher	Edition	Year of publication
1	The economics of health and health care	Folland, Sherman, Aller C. Goodman and MivanStano	Prentice hall	2 nd	1997
2	Health Economics	Phelps- Charles .E,Addison	Wesley	2 nd	1997

3	National Health Policy	GOI, Ministry of health and family welfare	GOI, Ministry of health and family welfare	latest	1983
4	Investing in People: The Health sector	World Bank	World Bank	Latest	1994

I SEMESTER

Title: Agricultural Economics –I

Course Title		AGRICULTURAL ECONOMICS					
Course Type	Soft Core -Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr	70 Marks	100
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	To expose the students to the concept, scope and significance of agricultural economics.						
CO-2	To impart adequate knowledge and analytical skills in the field of agricultural marketing issues.						
CO-3	To impart knowledge on issues related to lending to priority sector credit management and financial risk management.						
CO-4	To make them to understand the agricultural policies and its effect on sustainable agricultural development						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed	CLDs		
CLO-1	Understand the scope and significance of agricultural economics.			PSO-1	Understand		
CLO-2	Students are able to get adequate knowledge and analytical skills in the field of agricultural marketing issues.			PSO-3	Analyze		
CLO-3	Evaluate the issues related to lending to priority sector credit management and financial risk management.			PSO-3	Evaluate		

CLO-4	Able to analyze the agricultural policies and its effect on sustainable agricultural development.	PSO-5	Analyze
CLO-5	Understand the theories of agricultural development.	PSO-2	Understand

Unit: 1 Nature and Scope			16 Hrs
1.1.	Agriculture and economic development		
1.2.	Difference between agriculture and industry		
1.3.	Farming systems		
1.4.	Role of Land, Labour and Capital in Farming		
1.5.	Farm Management concept and its significance in modern farming		
1.6.	Agricultural development-poverty		
1.7.	Environment-recent trends in agricultural development.		
Unit: II Theories of agricultural development			16Hrs
2.1.	Transformation of traditional agriculture		
2.2.	Theories of Mellor		
2.3.	Boserup		
2.4.	Lewis		
2.5.	Fei-Ranis		
2.6.	Dale Jorgenson		
2.7.	Schultz.		
Unit: III Production relationships in agriculture			16Hrs
3.1.	Laws of returns		
3.2.	Production functions		
3.3.	Factor-product		
3.4.	Factor-factor and Product-product relationships		
3.5.	Cobb-Douglas production function.		
Unit: IV Factors determining the farm products and Environmental problems of agriculture			16Hrs
4.1.	Supply behavior in agriculture		

4.2.	Features and problems of Agricultural marketing.	
4.3.	Environmental problems of Agricultural Development	
4.4.	Salinity, water logging, Desertification of Land	
4.5	Excess use of water	
4.6	Fertilizers and pesticides	
4.7.	Farm implements	
4.8.	Cropping pattern,	
4.9.	Causes, impact and importance of social forestry.	

Self-Study:

Principles of farm management -Farm budgeting techniques - Land tenure systems and land reforms - Determination of cost of cultivation of farm products -Various cost concepts adopted by CACP – Instability of farm prices – Agricultural Prices policy - Minimum Support Prices for farm products-climate change and sustainable agriculture.

Reference Books:

1	Agricultural Economics,Subba Reddy, Raghuram, NeelakantaSastry and Bhavani Devi, Oxford & IBH, New Delhi.
2	Fundamentals of Agricultural Economics, Sadhu and Singh, Himalaya Publishing House, Mumbai.
3	Introduction to Agricultural Economic analysis,Bishop and Toussaint, John Wiley & Sons
4	Agricultural Economics, Goodwin, Charles.
5	Elements of Farm Management Economics,Singh, I.J., East-West Press Pvt. Ltd, New Delhi.
6	Agricultural Marketing in India,Acharya and Agarwal, Oxford& IBH, New Delhi.

I SEMESTER

Course Title	LABOUR ECONOMICS						
Course Type	Soft Core -Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr.	70 Marks	
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	To introduce the concepts of nature, scope & evolution of labour economics.						
CO-2	To understand the labour market and labour market equilibrium in the economy.						
CO-3	To gives an idea about labour market force –supply of & demand for labour.						
CO-4	To make awareness about employment, wage and wage discrimination in the economy.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed	CLDs		
CLO-1	Able to understand labour economics concepts, nature, and scope.			PSO-1	Understand		
CLO-2	Understand the labour market equilibrium, labour market rigidity and flexibility.			PSO-2	Understand		
CLO-3	Analyze the determinants of labour supply and determinants of labour demand.			PSO-1	Analyze		
CLO-4	Evaluate the employment and economic development and concept of wage and economic development.			PSO-5	Evaluate		
CLO-5	Able to understand the concept of skilled labour and human capital development approach.			PSO-5	Understand		

Unit: 1 Introduction- Labour Economics		16Hrs
1.1.	Labour Economics, concept, nature & scope	
1.2.	Evolution of labour Economics	
1.3.	Distinct features of labour as a factor input	
1.4.	Relationship between labour economics & labour problems	
1.5.	Importance of labour Economics	
1.6.	Inter disciplinary character of labour economics	
1.7.	Changing dynamics of labour economics	
1.8.	Contemporary labour economics	
Unit: II Labour Market		16Hrs
2.1.	Labour market concept- Differences between labour market & commodity market	
2.2.	Labour market imperfections	
2.3.	Classical, Neo-classical & modern approaches to labour market	
2.4.	Labour market equilibrium	
2.5.	Labour market rigidity	
2.6.	Labour market flexibility	
2.7.	Changing nature of labour market under globalization	
2.8.	Labour market discrimination	
2.9.	Segmentation of labour market.	
Unit: III Labour Market forces- Supply of & Demand for labour		16Hrs
3.1.	Concept of labour supply	
3.2.	Determinants of labour supply	
3.3.	Supply of women & child labour	
3.4.	Changing demographic trends & labour supply	
3.5.	Labour migration & supply of labour	
3.6.	Demand for labour	
3.7.	Labour demand as derived demand	
3.8.	Marshall's rules of derived demand	

3.9.	Determinants of the demand for labour	
3.10.	Demand for labour in the short & long run- Technology & demand for labour.	
Unit: IV Employment & Wage		16Hrs
4.1.	Modern concept of full employment	
4.2.	Employment & economic development	
4.3.	New dimensions of employment	
4.4.	Concept of decent job, casual & permanent employment	
4.5.	Classical, neo classical Keynesian & Modern – unemployment	
4.6.	Causes, consequences & measures to reduce unemployment	
4.7.	Wage concept, Wage & economic development	
4.8.	Theories of wage , Classical, neo Classical & Modern	
4.9.	Wage differentials , Wage discrimination, Wage standardization	
4.10.	Relationship between wages & employment, productivity & inflation	
4.11.	Labour productivity concept, me	
4.12	Skill development -Human capital development approach to labour productivity	

Self study Components

Unit 1: Panel discussion on multidisciplinary character of labour Economics - listing the problems of industrial labour& unorganized labour

Unit 2: Listing the evidences of labour market Imperfections – seminar on the implications of labour market imperfections on labour.

Unit 3: Exploring the supply position of labour in a particular region, city or a village (both organised& unorganised) - panel discussion among students on the determinants of demand for labour- To understand migratory character of labour

Unit 4: Collecting Evidences on Wage differentials and wage discrimination

References

- 1 Labour Economics, Mittal A.C & Sanjay Prakash Sharma RSBA Jaypur, 2005.
- 2 Economics of Labour& Industrial Relations, BhagoliwalT.N ,SahityaBhavanAgra,1998.

- 3 Labour Economics, George J. Bayers, McGraw Hill, New York.
- 4 Contemporary Labour Economics, McConnel & Stanley Brue, McGraw Hill, New York, 2002.
- 5 Economics of Labour, References, Phelps Brown Ed, Yale university press New Heaven, 1983.
- 6 Economics of labour, R.A. Lester, Mcmillan, New York, 1975.
- 7 Labour market in an Era of Adjustment, Susan Hortin, Ravi Kambur & Deepak Majumdar World bank, Washington DC, 1994.
- 8 Labour Economics, George J. Borjas, McGrawhill, New York, 2000.

II SEMESTER

Title: Indian Economy

Course Title	INDIAN ECONOMY						
Course Type	Open Elective Paper	Total Hours	32	Hours/Week	02	Credits	02
Course Code	Evaluation	Internal	C1+C2=15+15			20Marks	
		External	Duration	C3	0Hr	30 Marks	50
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	To understand the concept of features of Indian economy and Human development status in India.						
CO-2	To analyse the planning models in India.						
CO-3	To understand the population explosion, demographic dividend and population policy.						
CO-4	To provide knowledge about concept and measurement of poverty and unemployment.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed	CLDs		
CLO-1	Understand the concept of Indian public finance and FDI in India.			PSO-2	Understand		
CLO-2	Able to understand the objectives and features of Indian planning.			PSO-2	Understand		
CLO-3	Analyze the Indian population growth and demographic dividend.			PSO-5	Analyse		
CLO-4	Able to understand the poverty alleviation and employment programme.			PSO-5	Analyse		
CLO-5	Evaluate the structural adjustment programmes and stabilization programmes.			PSO-2	Evaluate		

Unit I: Overview of an Indian Economy		14Hrs
1.1.	Natural resources	
1.2.	Human resources development	
1.3.	Infrastructure	

1.4.	Structural transformation	
1.5.	Trends in the growth of National Income	
1.6.	Green accounting	
1.7.	Saving, Investment and Capital-output Ratios and its implications	
1.8.	India's Development Experience	
1.9.	Planning and Development Strategies	
1.10.	Planning Commission to NITI Aayog	
1.11.	Parallel Economy and its Implications	
1.12.	Poverty and unemployment	
1.13.	Gender and development.	
Unit II: Agricultural Sector in India		14Hrs
2.1.	Importance of Agriculture in Development	
2.2.	Cropping Pattern - Land Reforms - Farm Size and Efficiency	
2.3.	Agricultural Labour Problems	
2.4.	Mechanization and Green Revolution	
2.5.	Agricultural Finance and Rural Indebtedness	
2.6.	Agricultural Marketing	
2.7.	Agricultural Prices	
2.8.	Agricultural Co-Operatives	
2.9.	Food Problem and Public Distribution System	
2.10.	Rural Development and Agriculture	
2.11.	WTO and Agriculture.	
Unit III: Industrial Sector in India		12Hrs
3.1.	Role of Industrialization	
3.2.	Growth and Structural Composition	
3.3.	Structural Transformation	
3.4.	Small-Scale Industries	
3.5.	Public Sector Industries - Role and Performance	

3.6.	Privatization of Public Sector - Private Sector Industries and their Performance and Problems	
3.7.	Industrial Labour	
3.8.	Industrial Finance; Development Banks - Capital Market	
3.9.	Industrial Monopoly – MRTP- New Industrial Policy.	
Unit IV: Growth of Service Sector in India		12Hrs
4.1.	Concept and Composition of Service Sector	
4.2.	Growth Trajectory of Service Sector	
4.3.	GATS in Trade in Services 2006	
4.4.	Service Sector in India -Major Trends in the Growth of Service Sector Critical Issues	
4.5.	Sustainability of Service Sector Growth	
4.6.	Social Sector Reforms: Education, Health, Housing, Employment – Current Budget Allocation to Social Sector	
4.7.	Millennium Development Goals	
4.8.	Sustainable Development Goals	
4.9.	Good and Service Tax in India (GST).	
Unit: V Trade, Balance of Payments and Trade Policy		12Hrs
5.1.	Exchange Rate Policy of India	
5.2.	Trends in India's Foreign Trade	
5.3.	Balance of Payments Problems and Policies	
5.4.	New Trade Policy - Export Promotion vs. Import Substitution	
5.5.	Liberalization	
5.6.	WTO and India's Trade Prospects	
5.7.	Foreign Direct Investment in India	
5.8.	Globalization and its Impact on India's Trade and Investment	
5.9	The role of Multilateral Financial Institutions.	

Self study Component:

1. Agricultural policy - Agricultural growth under five year plans- strategies to develop agriculture-Capital formation - Green revolution - Price policy - food security and Public distribution system - agricultural finance- marketing – market infrastructure.
2. Industrial development. Changing industrial policy regimes. Public v/s private sector – industrial finance and labour relations – Role of MNCs in industrial development – Regional disparities- Role and problems of micro, small and medium industrial enterprises – I T Industry.
3. Service sector growth – changing trends and composition of service sector- Parallel Economy - Centre State Financial Relations-

Reference Books:

1	Indian Economy- S. Ruder Dutt& K P M Sundaram Chand & co. Ltd New Delhi, 2010.
2	Indian Economy, Mishra &Puri , Himalaya Publication
3	India in the world Economy, Deepak Lal, Oxford University press, New Delhi, 1999.
4	Economic Policy Reforms, Krueger [Ed] ,Oxford University press New Delhi, 2002.
5	India’s Development Experience, Subramanian S [ed], Oxford University press, New Delhi[2002].
6	Indian Economy since Independence, Uma Kapila ,Academic Foundation, New Delhi, 2003.
7	Indian Economy,I.C.Dhingra, Sulthan Chand & Son, Delhi, 2010.
8	Indian Economics,Dewett, Verma and Sharma, 2009.
9	Indian Economy – Problems of Development and Planning, A.N. Agarwal, VishwaPrakashan, New Delhi, 2009.
10	“The state in a changing world”, WDR, Oxford University press- Washington.D.C, 1997.
11	“Structural adjustment programme The social issues involved” Dharmghai,Working paper United nations Institute for policy research Washington D.C., 1993.
12	Third international conference on globalization and development 2001 Havana

Reports:

- 1 Govt. of India, Ministry of Finance, Economic Surveys (of recent years).
- 2 The World Bank, World Development Report (of recent years).
- 3 The UNDP, Human Development Report (of recent years).
- 4 Govt. of India, Planning Commission, Drafts of 8th, 9th, 10th and 11th Five Year Plans.
- 5 Govt. of India, Planning Commission, National Human Development Report, (2002).
- 6 Indira -Gandhi Institute of Development Research (IGIDR), India Development Reports, Mumbai.
- 7 Economic Development, Todaro . M P .& S C Smith - Pearson Education [Singapore] pvt. Ltd. Delhi, 2003.
- 8 C M I E reports on Indian Economy.

II SEMESTER

Title: Public Economics: Theory & Policy

Course Title	PUBLIC ECONOMICS: THEORY & POLICY						
Course Type	Hard Core-Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr.	70 Marks	
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	To gives an idea about an overview of the public sector.						
CO-2	To understand the source of public revenue.						
CO-3	To understand the source of public expenditure.						
CO-4	To make awareness about budget preparation and fiscal policy for stabilization.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to				PSOs Addressed		CLDs
CLO-1	Understand various Approaches about Role of Government and				PSO-1		Understand

	Principle of Maximum Social Advantage.		
CLO-2	Understand the concept of public revenue.	PSO-1	Understand
CLO-3	Apply and analyse the incidence & approaches of taxation.	PSO-2	Analyze
CLO-4	Evaluate the concept of public debt management & fiscal and monetary policies in India.	PSO-2	Evaluate
CLO-5	Analyse the concepts of budget & fiscal federalism in India.	PSO-2	Analyze

Unit: I An Overview of the Public Sector		14Hrs
1.1.	Economics of Public Sector: The Field of Public Finance - Private and Public Interests: Individual Rights versus Social Responsibility - Adam Smith's Role of Government - Musgrave's Economic Role of Government.	
1.2.	Principle of Maximum Social Advantage: Musgrave's Views on Principle of Maximum Social Advantage -Fundamental Theorems of Welfare Economics.	
1.3.	Public Goods and the Need for Government: Public and Private Goods - Rivalry and Exclusion. Allocation of Public and Private Goods - Efficiency in Public Goods Provision - Market Failure and Externalities.	
Unit: II Public Revenue		14Hrs
2.1.	Taxation :Theory of Taxation	
2.2.	Structure and Principles of Taxation: Benefit and Ability-to-Pay Approaches	
2.3.	Ramsey Rule	
2.4.	Evaluation of Tax Reforms	
2.5.	Taxation Incidence and Alternative Concepts of Incidence.	
Unit: III Public Expenditure		12Hrs
3.1.	Theories of Public Expenditure	
3.2.	Structure and Growth of Public Expenditure	
3.3.	Expenditure Evaluation	
3.4.	Reforms in Expenditure Budgeting	
3.5.	Criteria for Public Investment	
3.6.	Income Redistribution	
3.7.	Expenditure Programmes for the Poor.	

Unit: IV Budget		12Hrs
4.1.	Concept of PPB	
4.2.	Zero-based Budgeting	
4.3.	Deficit Budgeting	
4.4.	Types of Deficits	
4.5.	Public Debt: Trends and Composition of Indian Public Debt	
4.6	Debt Management	
Unit: V Fiscal Policy		12Hrs
5.1.	Objectives -Fiscal Policy and Price Stability	
5.2.	Full Employment,	
5.3.	Economic Growth and Equity Interdependence between Fiscal and Monetary Policies	
5.4.	Fiscal Policy for Stabilization	
5.5.	Vertical and Horizontal Imbalance	
5.6.	Finance Commissions	
5.7.	Issues in Revenue Devolutions and Grants-in-aid.	

Self-study Component:

Origin of public finance-role of public finance

Public finance in under developed countries

Difference between public and private expenditure

Negative externalities and inefficiency

Principles of taxation

Difference between public debt and private debt

References:

1	Dr. B.P. Tyagi "Public Finance," Jai PrakashNatu& (O).
2	S.K. Singh "Public Finance in Theory and Practices," Sultan Chand & Co
3	D.K. Srivastava, "Issues in Indian Public Finance," New Century Publications.

4	Musgrave R.A and P.A. Musgrave Public Finance in Theory and Practice, McGraw-Hill Kogakusha, Tokyo.
5	Anderson John E, Public Finance Principles and Policy, Houghton Mifflin Company, Boston, USA.

II SEMESTER

Title: Monetary Economics

Course Title		MONETARY ECONOMICS						
Course Type	Soft Core- Theory	Total Hours	64	Hours/Week	04	Credits	04	
Course Code	Evaluation	Internal	C1+C2 = 15+15			30 Marks		
		External	Duration	C3	03Hrs	70 Marks		
COURSE OBJECTIVES (COs)								
CO No.	Course Objectives							
	On completion of the course the student will be able to							
CO-1	To Understand measures of money supply ,theories of demand for money and Measure the concepts of National income							
CO-2	To analyze the nature of classical & Keynesian theories of employment							
CO-3	To stimulate an awareness on macroeconomic challenges and policy management in progressive nations							
CO-4	To understand Fiscal policy and crowding out effect, Optimum Policy mix with IS-LM Model.							
Mapping of CLOs with PSOs &CDLs								
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed		CLDs		
CLO-1	Understands the operations of money, interactions between monetary aggregates and real aggregates, monetary policy interventions.			PSO-1		Understand		
CLO-2	Understand and analyze the determinants and measures of money supply and its role in causing the business cycles.			PSO-4		Analyze		
CLO-3	Knowledge of the monetary policy formulations, its targets and objectives and to create an interest in the			PSO-2		Apply		

	recent monetary reforms initiated in India		
CLO-4	Gives the monetary forces operate through a multitude of channels viz., markets, non-markets, institutions and the State.	PSO-5	Analyze
CLO-5	Attempt is made to give an insight to the present global financial crisis.	PSO-5	Understand

Unit: I Money and the Economy		12 Hrs
1.1	Money and Economy Linkages	
1.2	Money Supply and Money Demand	
1.3	Concepts and Measures.	
1.4	Liquidity Approach to Monetary Theory	
1.5	General Liquidity: Concept and Definitions	
1.6	Effects of General Liquidity	
1.7	Radcliffe - Sayers Thesis	
1.8	Gurley - Shaw Thesis	
1.9	Implications of Monetary Policy.	
Unit: II Theories of Money		14Hrs
2.1	Quantity Theory of Money	
2.2	Classical and Keynesian Version of the Quantity Theory of Money	
2.3	Milton Friedman's Reformulation of Quantity Theory of Money	
2.4	Tobin's Portfolio Analysis	
2.5	Monetarism V/s Keynesianism	
2.6	Monetary Theories of Business Cycle.	
Unit: III Theories of Interest		14Hrs
3.1	Keynesian Theory of Liquidity Preference	
3.2	Hicks-Hansen <i>IS-LM</i> Approach to General Equilibrium	

3.3	Portfolio Balance Theory	
3.4	Factors affecting the Equilibrium Rate of Interest	
3.5	Implications of these Theories for Monetary Policy.	
Unit: IV Inflation: Theories and Policies		12Hrs
4.1.	Theories of Inflation	
4.2.	Demand-Pull and Cost-Push Theories of Inflation	
4.3.	Phillips Curve	
4.4.	Monetarist, Keynesian and New Classical Views on Inflation and Unemployment.	
4.5.	Inflation and Interest Rates-Real and Nominal Interest Rates	
4.6.	Fisher's Effect	
4.7.	Nominal Interest Rate and the Demand for Money	
4.8.	Social Costs of Inflation	
4.9.	Hyperinflation	
4.10.	Classical Dichotomy	
Unit:V Monetary Policy		12Hrs
5.1.	Introduction - Objectives of Monetary Policy	
5.2.	Exchange Rate Stability	
5.3.	Price Stability	
5.4.	Price Policy	
5.5.	Limitations of Monetary Policy	
5.6.	Time Lags in the Monetary Policy	
5.7.	Efficiency of Monetary Policy	
5.8.	Co-ordination between Instruments and Objectives of Monetary and Fiscal Policies.	

Topics for Self Study

1. Money Supply behavior in India
2. Money Stock Measures in India

3. Neo-Classical Theory of Interest (Loanable Funds Theory)
4. Types of inflation, Concepts of inflation
5. Social Costs of inflation
6. Business Cycles; Causes and Phases
7. Monetary measures to Control economic fluctuations
8. Open market operations
9. Functions of the International Monetary Fund

References:

1	The Theory of Money and Financial Institutions”, Shubik Martin, Volume I and II Cambridge, the MIT Press, 1999.
2	Towards a New Paradigm in Monetary Economics, Stiglitz, Joseph E and Bruce E. Greenwald, Cambridge, the Cambridge University Press, 2003.
3	Monetary Economics, Hajala T.N., Kanark Publishers Pvt. Limited, New Delhi, 1998.
4	Monetary Economics; Institutions, Theory and Policy, Suraj B. Gupta, S. Chand & Company Limited, New Delhi, 2004.

II SEMESTER

Course Title	GENDER ECONOMICS						
Course Type	Soft Core- Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2 = 15+15			30 Marks	
		External	Duration	C3	03Hrs	70 Marks	
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives						
	On completion of the course the student will be able to						
CO-1	To understand basic concepts of gender Economics and Feminism.						
CO-2	To understand the role of women role of women in the economy.						
CO-3	To Evaluate the concept of certain protections for women security.						
CO-4	To give in-depth knowledge about different gender inequality measures.						
Mapping of CLOs with PSOs & CDLs							

CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to	PSOs Addressed	CLDs
CLO-1	Understand the different concept of feminism.	PSO-1	Understand
CLO-2	Understand and analyse the various theories with respect to gender development.	PSO-1	Analyse
CLO-3	Analyse the welfare economic policies for gender growth and development.	PSO-2	Analyse
CLO-4	Understand and analyse the concept of discrimination and its measurement with respect to gender.	PSO-5	Analyse
CLO-5	Evaluate the social security measures with respect to gender.	PSO-2	Evaluate

Unit: I		16Hrs
1.1.	Introduction - Basic Concepts – Difference between Gender and Sex	
1.2.	Patriarchy - Feminism - Schools of feminism – Gender Division of Work	
1.3.	Invisibility of Women’s work – Gender Budget – WID – WAD – GAD, Eco feminism	
1.4.	Gender Audit – Gender Mainstreaming The concept of Gender Economics	
1.5.	Gender concerns in Economic theory – Sen’s Contribution to Women’s issues	
Unit: II		16Hrs
2.1.	Theories of Women Exploitation - Theories of Women exploitation	
2.2.	Economic basis and Functioning of patriarchy	
2.3.	Marx-Engel’s Theory of exploitation	
2.4.	Gender based evaluation of theories of Development	
2.5.	Women claims in Household – Invisibility of women’s work	
2.6.	Valuation of Women’s Contribution to National Income.	
Unit: III		16Hrs
3.1.	Women Labour and Employment	

3.2.	Gender structure in Developed and Developing Economies – Sex Ratio	
3.3.	Gender Segmentation of employment	
3.4.	Factors influencing supply of and Demand for female labour – Wage discrimination	
3.5.	Garry Becker’s Theory – Factors influencing wage gap	
3.6.	Women in formal and informal employment Labour legislations	
3.7.	Justification for equal wages – Women in Trade Unions	
Unit: IV		
4.1.	Social Security and Social Protection - Need for Social Security	
4.2.	Need for Gender Concerns in designing Social Security Policy - Government Policy – Affirmative Action	
4.3.	Gender analysis of existing Social Security programs- Institution in Provision of Social Security for Women – Role of NGOs	
4.4.	Engendering Development - Concept of engendering development- Ways & means of engendering – social norms, laws, & economic institutions- Power, incentives & resources in the house hold	
4.5.	Economic development & gender equality	
4.6.	Measures to redress gaps in command over resources & political voice	
4.7.	Issues in the formulation & implementation of engendered policies.	

Self Study:

Theories of Economic Development

Women in Formal and Informal Employment

References:

1	Women Work and Discrimination, Arputha Murthy Savithri, Ashish Publishing House, New Delhi, 1980.
2	Women’s Role in Economic Development, Bosarup Ester, George Allen and Unwin, London, 1970.
3	Theories of Women Studies, Bowles Gloria and Dueli Klein Kenate, New York, 1989.

4	Empowering Women for Sustainable Development, DevasiaLeelamma, Ashish Publishing House, New Delhi, 1994.
5	Women's Occupational Mobility, Dex Shirley, Macmillan Press, London, 1987.
6	The issues at Stake: Theory and practice in the Women's Movement in India, Gandhi, Nandita and Nandita Shah, New Delhi, 1992.
7	Women at Work in Developing Economy, Gupta Nirmal K Sudan Falendra K Anmol Publications, New Delhi, 1990.
8	Is 'Gender' Easy to Study? Some Reflections, Economic and Political Weekly, Maithreyi Krishnaraj, October 21, 2001.
9	Women's Studies in India – A Reader, Mary E. John, Penguin Books, New Delhi, 2008.
10	Women in Contemporary India: Realities and Perspectives, Sanjoy Roy, Akansha Publishing House, New Delhi, 2010.
11	Tracking Gender Equity Under Economic Reforms Continuity and Change in South Asia, Swapna Mukhopadhyay and Ratna M. (Eds), Kali for Women, New Delhi, 2003.
12	The Macro Economic Policies And The Millennium Development Goals, Vibhuti Patel, Gyan Publishing House, New Delhi, 2006.
13	Gender Budget – A case Study of India, Department of Economics, Vibhuti Patel, Centre for Advanced Study in Economics Working Paper UDE (CAS) 7(7)/2003
14	Emergence of Women's Question and Role of Women's Studies, Vina Mazumdar Occasional Paper, Centre for Women's Development Studies, New Delhi, 1985.

II SEMESTER

Course Title		AGRICULTURAL ECONOMICS					
Course Type	Soft Core -Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr	70 Marks	100
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives						
	On completion of the course the student will be able to						
CO-1	To expose the students to the concept, scope and significance of agricultural economics.						

CO-2	To impart adequate knowledge and analytical skills in the field of agricultural marketing issues.		
CO-3	To impart knowledge on issues related to lending to priority sector credit management and financial risk management.		
CO-4	To make them to understand the agricultural policies and its effect on sustainable agricultural development		
Mapping of CLOs with PSOs & CDLs			
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to	PSOs Addressed	CLDs
CLO-1	Understand the scope and significance of agricultural economics.	PSO-1	Understand
CLO-2	Students are able to get adequate knowledge and analytical skills in the field of agricultural marketing issues.	PSO-3	Analyze
CLO-3	Evaluate the issues related to lending to priority sector credit management and financial risk management.	PSO-3	Evaluate
CLO-4	Able to analyze the agricultural policies and its effect on sustainable agricultural development.	PSO-5	Analyze
CLO-5	Understand the theories of agricultural development.	PSO-2	Understand

Unit: I		16Hrs
1.1.	Agricultural growth and productivity trends in India	
1.2.	Inter-regional variations	
1.3.	Shifts in cropping pattern	
1.4.	Diversification of agriculture	
1.5.	Supply of inputs : Irrigation-Power-Seeds-Fertilizer	
Unit: II		16Hrs
2.1.	Public and private investment	
2.2.	Capital formation in agriculture	
2.3.	Pricing of inputs	

2.4.	Role of subsidies	
2.5.	Strategy of agricultural development and technological change	
2.6.	The growth of capitalism in Indian agriculture	
2.7.	Indigenous practices	
2.8.	Bio-technological practices	
Unit: III		16Hrs
3.1.	Man-land ratio	
3.2.	Size of land holdings	
3.3.	Tenancy and crop sharing	
3.4.	Land reforms	
3.5.	Green revolution II	
3.6.	Organic farming-Contract farming	
3.8.	Sustainable agriculture- Agri-business management.	
Unit: IV		16Hrs
4.1.	Agricultural marketing	
4.2.	Food marketing	
4.3.	Market infrastructure	
4.4.	India's foreign trade in agriculture	
4.5.	GM agriculture	
4.6.	W.T.O. and Indian agriculture	

Self-Study:

1. Small and marginal farmers - agricultural labour - wage structure - hi-tech agriculture and horticulture – aquaculture - allied agricultural activities - food processing and value addition - Contract farming.

References:

1	Indian Economy, RudderDatt& K P M SundaramS. Chand & co. Ltd New Delhi, 2010.
2	Reports of the National Commission on Farmers, Govt. of India, New Delhi, 2008.
3	Indian Agriculture – Problems, Progress and Prospects, A.N. Agarwal, Vikas Publishing

	House, New Delhi.
4	Agricultural Problems of India, Bancil, P.C. ,Vikas Publishing House, New Delhi.

II SEMESTER

Course Title	LABOUR ECONOMICS						
Course Type	Soft Core -Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr.	70 Marks	
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	To introduce the concepts of nature, scope & evolution of labour economics.						
CO-2	To understand the labour market and labour market equilibrium in the economy.						
CO-3	To gives an idea about labour market force –supply of & demand for labour.						
CO-4	To make awareness about employment, wage and wage discrimination in the economy.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed	CLDs		
CLO-1	Able to understand labour economics concepts, nature, and scope.			PSO-1	Understand		
CLO-2	Understand the labour market equilibrium, labour market rigidity and flexibility.			PSO-2	Understand		
CLO-3	Analyze the determinants of labour supply and determinants of labour demand.			PSO-1	Analyze		
CLO-4	Evaluate the employment and economic development and concept of wage and economic development.			PSO-5	Evaluate		
CLO-5	Able to understand the concept of skilled labour and human capital development approach.			PSO-5	Understand		

Unit: 1 Introduction to Indian Labour Market		16Hrs
1.1.	Features of Indian labour market- Size & composition of organised unorganized labour	
1.2.	Demand for and supply of Labour in India	
1.3.	Labour in India	
1.4.	Major issues in the Indian Labour market	
1.5.	Labour absenteeism & labour turnover	
1.6.	Labour productivity in India	
1.7.	Labour migration & mobility	
1.8.	Women & child labour in India	
1.9.	Demographic dividend	
1.10.	Globalization impact on Indian labour market	
1.11.	Sources of labour statistics in India.	
Unit: II Employment & wage policy in India		16Hrs
2.1.	Employment scenario	
2.2.	Employment GDP relationship	
2.3.	Employment elasticity	
2.4.	Sectoral composition of employment	
2.5.	Emerging trends in employment -features, types & magnitude of unemployment	
2.6.	State policy for employment generation	
2.7.	Minimum wages,criteria for fixing minimum wages - Implications of minimum wages - Wage structure - Bonus-dearness allowance - Wage determination the role of wage boards - Feasibility of National wage policy - Globalization impact on employment & wages.	
Unit: III Labour management in public & private Sector		16Hrs
3.1.	Rationale of state intervention in labour matters	
3.2.	Protection of organised& unorganized labour	

3.3.	Second national commission on labour		
3.4.	Workers participation in management & quality circles		
3.5.	Personnel management		
3.6.	Human resource planning, job analysis, recruitment, selection & induction, Labour mobility, Motivation, job satisfaction, fringe benefits		
3.7.	Managing labour in a competitive world		
Unit: IV Informal sector in India			16Hrs
4.1.	Concept of informal sector		
4.2.	Classification & features informal labour market		
4.3.	Magnitude of informal labour		
4.4.	Agricultural labour- Contract labour		
4.5.	Globalization & Indian Labour: ILO, objectives, structure & functions		
4.6.	ILO & India		
4.7.	ILO sponsored labour welfare & labour development programmes		
4.8.	Globalisation impact on organised & unorganised labour, child & women labour		
4.9.	Exit policy & safety net		

Self-study Components

Unit: 1-Visiting a nearby factory to collect information about labour absenteeism, labour turnover & migration.

Unit: 2 -Listing the employment programmes of the state & their salient features – discussion on the working of National Rural Employment Guarantee Programme – studying the bonus practice in an industry.

Unit:3 -Visit some industries to identify social welfare & social security measures - recording the grievances of unorganized labour & the measures available to protect them – understanding the VRS mechanism & industrial dispute settlement – studying recruitment practices & personnel management

Unit: 4- Group discussion/ seminar on the impact of ILO on Indian labour legislation – panel discussion on NTBs & International Labour Standards – studying the trends in the trade union movement of a city or a district.

References

1	Aspect of Labour Welfare & Social Security, Sharma A.V, Himalaya publications, house, New Delhi, 1999.
2	Labour Economics,Mittal A.C & Sanjay Prakash Sharma, RSBA Jaipur, 2005.
3	Economics of Labour& Industrial Relations, Bhagoliwal T.N, SahityaBhavan Agra,1998.
4	Labour Restructuring in India- A critique if New Economics policies,Hajela P.D, common wealth publications, New Delhi.
5	Labour Problems & Social Welfare, Mamorina C.B, kitabmahal, Allahabad.
6	Labour Employment & industrial Relations in India, Papola T.S, P.P Ghosh and A.L. Sharma, B.R publications New Delhi, 1993.
7	Industrial Labour in India, Rajendra K. Sharma, Atlantic Publishers New Delhi
8	Globalisation&labour management relations: Dynamics of change,VenkataRathnam C.S., Sage publications New Delhi. P.Subbarao, 2005.
9	Essentials of Human Resource management & Industrial Relations, Himalaya publishing New Delhi.
10	Informal Sector in India; perspectives & Policies,Kundu A & Sharma A.N (ed), Institute of Human Development Studies, New Delhi,2005.

II SEMESTER

Course Title	Media and Social Development						
Course Type	Soft Core Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr.	70 Marks	100
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	To understand the concept of human development and measuring human development.						
CO-2	To provide knowledge about relationship between economic growth and human development.						
CO-3	To understand the consumption and the links with human development.						
CO-4	To provide knowledge about new dimensions of human security and human rights and						

	human development.		
Mapping of CLOs with PSOs & CDLs			
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to	PSOs Addressed	CLDs
CLO-1	Understand the nature and scope and significance of human development.	PSO-5	Understand
CLO-2	Able to understand the relationship between economic growth and human development.	PSO-5	Analyze
CLO-3	Understand the role government in financing of health care services.	PSO-3	Understand
CLO-4	Able to understand the struggles for human freedoms and human rights.	PSO-5	Understand
CLO-5	Evaluate the Millennium Development Goals and challenges in meeting the goals.	PSO-5	Evaluate

Unit-1: Introduction to Rural development		16 Hrs
1.	Meaning - Concept and Connotations of Rural Development	
1.2	Basic Elements and Objectives of Rural Development - Rising Expectations and Development - Development and Change	
1.3	Need for Rural Development	
1.4	Human Beings as the Cause and Consequence of Development - Dilemmas in Development.	
Unit: II Rural Economics		
2.1.	Rural Economics: Significance of Rural Economics in the Indian Economy.	
2.2	Rural Economics: Definition, Characteristics, HDI, GDI, GHI and MDG.	
2.3	Issues – Poverty, Low Wages, Gender, Indebtedness, Bonded Labour, Migration, Poor Transportation, and Unemployment.	
2.4	Rural Economic measures and Programmes: National and State Programmes.	
2.5	Rural Economics: Significance of Rural Economics in the Indian Economy.	

Unit: III Social Development		16Hrs
3.1.	Social Development – Gender in sustainable development, social dimension of infrastructure, Local government, participation and civic engagement, social analysis and social policy, social sustainability and safeguards.	
Unit: IV Media Development		16Hrs
4.1.	Development Journalism: - Theories of Development journalism	
4.2	News coverage on: gender, rural, health, Human Interest stories	
4.3	Media and Human Rights	
4.4	Role of Media in Democracy – Political, Economic, Cultural, Social and Technological factors.	

Self Study Component

1. Concept of Development Economics- Evolution of Development Economics –Definitions & meaning of Economic development .Calculation of HDI, GDI, GEM, HPI, Human Deprivation index – recording the views on development vs displacement issues from the affected groups of people.

References

1	Indian Economy: Nature, Problem & Progress,Agarwal, A.N,VikasPublishing House, NewDelhi, 2001.
2	Media and Society: Challenges and opportunities, Agarwal, VirBala
3	Indian Economy,AlakGhosh, Asian Publication, NewDelhi, 1984.
4	An AMIC compilation, Media and Democracy in India, 2000.
5	Agricultural problems of India, Bansil, P.C, Vikas Publishing House, NewDelhi, 19891.
6	The Cooperative Movement in India, Bagai Krishnan, Vijaya Press, NewDelhi, 2000.
7	Media and Society- Berger, Arthur Asa.
8	Media and Culture an introduction to mass communication, Campbell, Richard.
9	Indian Economy,Dutt&Sundaram, Sultan & Chand, New Delhi, 2006.
10	Smallis Beautiful, E.F. Schumacher, HarperPerennial, London,UK, 1989.
11	Management of Co-operatives, Kishen, Ram, JaicoPublishing House,Mumbai, 2003.
12	Co-operative in India: A Critical analysis of the Co-operativemovement in India’s planned economy,Mathur.B,SahityatBhavan,Agra, 1998.

13	Mass Media issues analysis and debate, Oddman, Jeorge.
14	Economic development of India, Sankaran, S, Progressive Co-operation, Bombay, 1998.
15	1968 Recent trends in Co-operative movements in India, Tyagi, R. B., Asia Publishing House, New Delhi, 1969.
Web Source:	
1	http://people.umass.edu/abasole/Gandhi-Kumarappa.pdf

III SEMESTER

Course Title	RESEARCH METHODOLOGY AND DATA ANALYSIS						
Course Type	Hard Core- Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2 = 15+15			30 Marks	
		External	Duration	C3	03Hrs	70 Marks	
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	To understand the concept and Types of Research.						
CO-2	To apply the various steps in research like identifying problems in research area, finding gap and so on.						
CO-3	To apply and analyse the different types of data.						
CO-4	To equip the students with basic knowledge of statistical software usage in research and produce good research projects and articles.						
Mapping of CLOs with PSOs &CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed		CLDs	
CLO-1	Able to Understand and analyse different types of research.			PSO-1		Understand	
CLO-2	Able identify the gap in research area to formulate the objectives and hypothesis related to their research area.			PSO-2		Analyse	
CLO-3	Collect different sets of data as needed.			PSO-3		Analyse	
CLO-4	Analyse and interpret both the qualitative and quantitative data			PSO-4		Apply	
CLO-5	Able to evaluate and write a research project and article in their interested area.			PSO-4		Evaluate	

Unit: I - Foundations of Research		12 Hrs
1.1.	What is Research? - Meaning and Characteristics- Social Science Research-Meaning and Scope- Objectives - Reference Documentation in the library and Need for Research in Economics.	
1.2.	Types and Methods of Research: Classification of Research - Pure and Applied Research-Exploratory -Descriptive – Diagnostic -Evaluation -Action -	

	Experimental Research -Statistical Methods -Historical Research-Surveys-Case Study-Field Study.	
1.3.	Planning and Objectives of Research: Identification of Research problem - Review of Literature -Objectives Hypothesis-Concepts-Research Plan-Sampling Design -Steps in Research.	
Unit: II- Sampling Techniques and Data Processes		12 Hrs
2.1.	Meaning-Types -Probability sampling techniques -Non Probability sampling techniques -Choice of Sampling Technique-Sample size determination.	
2.2.	Introduction -Editing- Classification and Coding- Transcription	
Unit: III- Hypothesis Testing		14Hrs
3.1.	Univariate and multivariate data analysis - Estimation of mean and variance- Test of single sample mean – two independent means test- Testing for means of paired data- Test of single sample variance – two sample variance test.	
3.2.	Analysis of Variance: Introduction – assumptions for Analysis of variance- Testing for the equality of k proportion means - Between treatments estimate of population variance - Within treatments estimate of population variance - Comparing the variance of estimates – the F test – multiple comparison procedures.	
Unit: IV- Non-parametric Tests		14Hrs
4.1.	Introduction- Meaning- one sample mean test – run test -Wilcoxon signed rank test - Two samples test - Independent sample test - Mann- Whitney test - Paired samples test	
4.2.	Wilcoxon signed rank test- Chi Square test- Spearman rank correlation test – three or more than three samples test- Kruskal –Wallis test – Friedman test	
Unit: V- Factor Analysis		12Hrs
5.1.	What is factor analysis? - Objectives of factor analysis -Designing a factor analysis- Assumptions in factor analysis- deriving factors and assessing overall fit- Interpreting the factors- validation of factor analysis.	
5.2.	Report Writing: Types of Reports-Research Report Format-Documentation: Footnotes and Bibliography-Writing the Report-Presentation.	

Self-study:

Types data – measures of location and dispersion

References

1	Social Research Methods, Bryman Alan, Oxford University Press, Oxford.
2	Research Methodology, Kothari C.R., New Age International Publication, New Delhi.
3	Methodology of Research in Social Sciences, Krishnawamy O.R. and Ranghanathan, M., Himalaya Publishing House, Bangalore.
4	Research Methodology in Economics, Kurian C.T. Institute of Development Studies, Madras.
5	Research Methods in Social Science, Majumdar P.K., Viva Books Private Limited, New Delhi.
6	How to Write and Publish a Scientific Paper, Robert, A. Day, Cambridge University Press, Great Britain.

III SEMESTER

Course Title	INTERNATIONAL TRADE: THEORY AND POLICY						
Course Type	Hard Core-Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15		30Marks		100
		External	Duration	C3	03 Hr.	70 Marks	
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	To provide knowledge about importance of international trade.						
CO-2	To analyse the fundamental theories of international trade.						
CO-3	To make awareness about international trade policies and practices.						
CO-4	To understand the importance of economic integration and WTO and trade policies.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed	CLDs		
CLO-1	Understand the Nature, Scope and Importance of			PSO-1	Understand		

	International Economics.		
CLO-2	Analyse the theories international trade.	PSO-5	Analyze
CLO-3	Evaluate the gains from international trade & their measurements.	PSO-5	Evaluate
CLO-4	Understand the trade creating customs union & history of economic integration.	PSO-2	Understand
CLO-5	Analyze the objectives and functions of WTO.	PSO-5	Analyze

Unit: 1 Basic Concepts of International Trade		14Hrs
1.1.	What is International Economics about? - The basis of International Trade - Internal and International Trade	
1.2.	The Importance of International Economics	
1.3.	The Standard Theory of International Trade: The Production Frontier with Increasing Costs - Community Indifference Curves - Equilibrium in Isolation - The Basis for the Gains from Trade with Increasing Costs - Trade based on Difference in Tastes.	
1.4.	Demand and Supply, Offer Curves and the Terms of Trade: Partial Equilibrium Analysis - Offer Curves - General Equilibrium Analysis - Relationship between General and Partial Equilibrium Analysis.	
Unit: II Fundamental Theories of International Trade		14Hrs
2.1.	Trade based on Comparative Advantage: David Ricardo	
2.2	Mill's Reciprocal Demand - Comparative Advantage and Opportunity Cost.	
2.3	<i>Factor Endowments and The Heckscher-Ohlin Theory:</i>	
2.4	Assumptions of the Theory - Factor Intensity, Factor Abundance - Factor Endowments and Heckscher-Ohlin Theorem	
2.5	Factor Price Equilibrium Theorem - Empirical Test of Heckscher-Ohlin Model.	
2.6	Leontief Paradox - Recent Developments in the Theories of International Trade: The Availability Doctrine - The Stolper-Samuelson Theorem - The	

	Vent for Surplus Approach	
Unit: III International Trade Policies and Practices		12Hrs
3.1.	Trade Restrictions: Tariffs - Partial Equilibrium Analysis of a Tariff - The Theory of Tariff Structure - General Equilibrium Analysis of a Tariff - The Optimum Tariff.	
3.2.	Non-Tariff Trade Barriers and the New Protectionism: Import Quotas - Voluntary Export Restraints - Technical, Administrative and other Regulations	
3.2.1	International Cartels - Dumping - The Political Economy of Protectionism and Strategic Trade and Industrial Policy - Outstanding Trade Problems.	
Unit: IV Economic Integration		12 Hrs
4.1.	Customs Unions and Free Trade: Introduction - Trade Creating Customs Union - Trade Diverting Customs Union - Static and Dynamic Benefits from Customs Union	
4.2.	History of Economic Integration - The European Economic Community - The European Free Trade Association	
4.3.	NAFTA - Attempts of Developing Countries towards Economic Integration – SAARC, BRICS.	
Unit: V WTO and Trade Policies		12 Hrs
5.1.	General Agreements on Tariffs and Trade (GATT) - World Trade Organization (WTO)	
5.2.	Objectives and Functions of WTO	
5.3	Trade Related Intellectual Properties (TRIPs) - Trade Related Investment Measures (TRIMs)	
5.4	General Agreements on Trade in Services (GATS) - Trade and Environment - Trade Liberalization - Recent Developments in PRIDS and TRIMS.	

Self-study topic:

- 1 Mercantilists Views on Trade - Trade based on Absolute Advantage: Adam Smith

2. Adam Smith, Ricardo's comparative cost and opportunity cost, Heberler empirical evidence.
3. Free trade v/s protection for developing countries general equilibrium effect of a tariff in a large and small countries strategic trade policy.
4. Origin and development, structure of WTO. GATT, WTO and Trade agreements.

References:

1	International economics, Dominick Salvatore, John Wiley and Sons
2	International economics, Robert J Carbaugh, Thomson- South Western
3	International trade, MIA Mikic Macmillan Press LTD.

III SEMESTER

Course Title		THEORY OF ECONOMETRICS					
Course Type	Hard Core- Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2 = 15+15			30 Marks	100
		External	Duration	C3	03Hrs	70 Marks	
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	To provide knowledge about the scope of econometrics						
CO-2	To understand about the interrelationship between different sectors in an economy						
CO-3	To introduce the basics of linear regression model						
CO-4	To introduce the various econometrics problems.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed		CLDs	
CLO-1	Understands the econometrics application to economic theory.			PSO-1		Understand	
CLO-2	Able to write the economic models and finds the relationship between the variables.			PSO-3		Analyse	
CLO-3	Understand and analyse the simple and multiple Regression models.			PSO-3		Analyse	

CLO-4	Able to test hypothesis and interpret the results.	PSO-4	Apply
CLO-5	Able to evaluate the econometric models.	PSO-4	Evaluate

Unit: I Introduction		12 Hrs
1.1.	Definitions, scope and Division of Econometrics	
1.2.	Methodology of econometrics and other interrelated discipline	
1.3.	Simple linear regression Model	
1.4.	Basic ideas - Problem of Estimation Point and Interval Estimation	
1.5.	OLS - Properties of the Least Squares estimates:	
1.6.	Classical Normal Linear Regression Model (CNLRM)	
1.7.	Hypothesis Testing - statistical tests of significance of the estimates.	
1.8.	The test of goodness of fit (R^2).	
Unit: II Multiple Regression Model		12Hrs
2.1.	Multiple regression model with two explanatory variables	
2.2.	Estimation and testing of hypothesis	
2.3.	R^2 and Adjusted R^2	
2.4.	Partial correlation coefficients.	
Unit: III Dummy Variables and Dynamic Models		14 Hrs
3.1.	Distributed Lag and Dynamic models.	
3.2.	Dummy variable model – meaning – Importance – dummy variable trap	
3.3.	ANOVA- ANCOVA models.	
3.4.	Error in Variables - Time as a variable - Lagged variables	
Unit: IV Special Problems in Single Equations Linear Models		12Hrs
4.1.	Multicollinearity –Nature – Causes - Consequences – Detection - Remedial measures.	
4.2.	Heteroscedasticity- Nature – Causes - Consequences – Detection - Remedial measures.	
4.3.	Auto-correlation - Nature – Causes - Consequences – Detection - Remedial measures.	

Unit: V Simultaneous Equation Models		14Hrs
5.1.	Nature - Simultaneous equation bias - Identification:	
5.2.	Under – Exact – Over Identification	
5.3.	Rules of identification - Order condition and Rank condition of identification	
5.4.	Estimation of Simultaneous equations models – ILS – 2SLS – LIMLE - FIMLE	

Reference:

1	Theory of Econometrics, A.Koutsoyiannis, Palgrave Publication, 2001.
2	Basic Econometrics, DamodarGujarathi, Macgraw Hill Publication, 2007.

III SEMESTER

Course Title	COMPUTER APPLICATION FOR ECONOMIC ANALYSIS (Interdisciplinary)						
Course Type	Soft Core- Theory	Total Hours	32	Hours/Week	02	Credits	02
Course Code	Evaluation	Internal	C1+C2 = 10+10		20 Marks		50
		External	Duration	C3	03Hrs	30 Marks	
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	To understand the uses of computers in economics.						
CO-2	To apply excel in data entry, sorting, data import and export.						
CO-3	To analyse the data using maths& stats and data analysis tools in excel tools.						
CO-4	To present the data in table, chats and figures.						
Mapping of CLOs with PSOs &CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed		CLDs	
CLO-1	Understand usage of excel and software in economics.			PSO-1		understand	
CLO-2	Able apply excel in data entry and data analysis.			PSO-3		Apply	
CLO-3	Able to code and recode the data.			PSO-3		Apply	

CLO-4	Able present the data in tables, charts and figures.	PSO-4	Analyse
CLO-5	Able to analyse and interpret the results.	PSO-4	Analyse

Unit-1: Introduction		16Hrs
1.	Inputting Data from the Keyboard - Creating File in Microsoft Excel - Loading of existing Data Set - Inputting Data from Raw Data File - Copying Data from Microsoft Excel to Clipboard - Adding Two Sheets/Files, Editing Files - Printing, Saving and Copying Edited Files.	
1.1.	File Processing :Sorting - Searching - Merging - Summarizing - Direct Access - Storage - Retrieval - File Organization Techniques - Documentation Debugging Storage and Time Execution Estimation - System Security.	
Unit: II-Data Processing and Data Management		16Hrs
2.1.	Introduction - Getting Started - Entering Data in the Data Viewer - Defining Variables - Recoding Variables - Computing new Variables - Data Analysis with Statistical Software - Generating Frequency Table, Bar Chart, Pie Chart, Histogram. Scatter Diagrams - Saving, Retrieving Data - Printing Output.	
Unit: III Data Estimation		16Hrs
3.1.	Calculation of Probability, Calculation of Central Tendencies : Arithmetic Mean, Median, Measure of Dispersion Standard Deviation and Range, Contingency Table, Chi-square, and Cramer's V, Pearson's r , and Spearman's rho	
3.2.	Estimation of Correlation Coefficient Zero Correlation Matrix - Partial Correlation - Estimation of Simple Regression - Ordinary Least Squares - Estimation of Multiple Regressions.	
Unit: IV Test of Statistical Significance		16Hrs
4.1.	Test of Statistical Significance - 't' Test - F Test - ANOVA Test - Chi-Square Test Construction of Index Numbers - Deflating a Series by Price Indexes - Time Series Analysis and Forecasting.	

References

1	Social Research Methods, Bryman Alan, Oxford University Press, Oxford.
2	Statistics for Business with Computer Application, Edward Minieka, South-Western, USA

3	Business Statistics, Sonia Taylor, Palgrave.
4	How to Do Just Anything on a Computer, Reader's Digest, London.
5	A First Course in Computers, Saxena Sanjay, Vikas Pub., House Private Ltd, New Delhi.

III SEMESTER

Course Title	Taxation						
Course Type	Hard Core-Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr.	70 Marks	100
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	To gives an idea about an overview of the public sector.						
CO-2	To understand the source of public revenue.						
CO-3	To understand the source of public expenditure.						
CO-4	To make awareness about budget preparation and fiscal policy for stabilization.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed	CLDs		
CLO-1	Understand various Approaches about Role of Government and Principle of Maximum Social Advantage.			PSO-1	Understand		
CLO-2	Understand the concept of public revenue.			PSO-1	Understand		
CLO-3	Apply and analyse the incidence & approaches of taxation.			PSO-2	Analyze		
CLO-4	Evaluate the concept of public debt management & fiscal and monetary policies in India.			PSO-2	Evaluate		
CLO-5	Analyse the concepts of budget & fiscal federalism in India.			PSO-2	Analyze		

Units	Proposed Syllabus	Duration
1	Indian Tax System: Introduction-Constitutional provisions- Direct Taxes Vs. Indirect Taxes -Canon of Taxation-Characteristics of good tax- Effects of Taxation on Production- Effects of taxation on Distribution- Principles of Taxation- The Principles of Equity- Benefit principle-the Bowen and Lindahl Models-Ability to pay theory-Theory of Optional Taxation: Ramsey Rule.	12 Hrs
2.	Computation of Taxable Income and Tax Liability of Individuals- Income from Salary-Income from House Property-Income form Business/Profession- Capital Gains- Income from other Sources- Gross Total Income- Deductions from Gross Total Income- Computation of Tax Liability- Case Studies.	20 Hrs
3	Computation of Taxable Income and Tax Liability of Companies- Income from House Property-Income form Business/Profession- Capital Gains- Income from other Sources- Gross Total Income- Deductions from Gross Total Income- Minimum Alternative Tax (MAT) -Computation of Tax Liability- Case Studies.	16 Hrs
4	Goods and Service Tax- Meaning- Constitutional Amendment- Important Definitions- Structure of GST- GST Council- Taxable persons- Concept of Supply- Composite and Mixed Supply- Time of supply- Value of Supply- Reverse Charge Mechanism- Levy and Collection of GST- Procedure for Registration- Tax Rates- Input Tax Credit- Payment of Taxes- Filing of Returns- Computation of Total Income and Tax Liability- Case Studies.	16 Hrs

References

1	Public Finance: Dr.B.P.Tyagi& H.P. Singh, Jai Prakashnath& Co, Meerut, 2017, 61 st Edn.
2	Public Finance in Theory and Practice: Dr. S.K. Singh, S.Chand& Co., Revised edition 2016.
3	Economics for Business - Peter Mitchelson and Andrew Mann 8. Business Economics - C.M. Chaudhary
4	The essence of Business Economics - Nellis and Parker
5	Indirect Taxes Law and Practice, V.S. Datey, Taxmann Publications.
6	GST Practice Manuel 2 nd Edition - CA AnoopModi and CA Mahesh Gupta- Taxmann Publications, 2017.

III SEMESTER

Course Title	NATURAL RESOURCES AND ENVIRONMENTAL ECONOMICS						
Course Type	Soft Core-Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr.	70 Marks	100
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	To introduce economics principles related to natural resource and environmental economics.						
CO-2	To explore the concept of efficiency and the efficient allocation of natural resources.						
CO-3	To understand the environmental policy issues and alternative instruments of environmental policies.						
CO-4	To understand the concept of economic growth and environment.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed	CLDs		
CLO-1	Understand the natural resource classification and natural resource policy in India.			PSO-1	Understand		
CLO-2	Understand the problems of waste management and energy problems in developing countries.			PSO-5	Understand		
CLO-3	Apply and analyse the Pigovian analysis of externalities and market failure.			PSO-2	Analyze		
CLO-4	Evaluate the economic growth and environmental degradation.			PSO-5	Evaluate		
CLO-5	Understand the environmental Kuznets Hypothesis and sustainable development.			PSO-2	Understand		

Unit: I Natural Resources		16Hrs
1.1.	Natural Resource - Types and Classification – Resource Taxonomy and scarcity	
1.2.	Conservation of Non-renewable resources	
1.3.	Conservation of Renewable resources	
1.4.	Natural Resource Policy in India	
1.5.	Meaning and need of Green Accounting	
Unit: II Introduction to Ecological Economics		16Hrs
2.1.	Introduction, Bio economics and Spatial Economics	
2.2.	Ecology and Economic Growth	
2.3.	Economics of Recycling, Solid Wastes, Industrial Wastes and Nuclear Wastes	
2.4.	The Problem of Wastes Management in Developing Countries	
2.5.	Energy Problems in Developing Countries	
Unit: III Welfare Criteria and Environmental Analysis		16Hrs
3.1.	Pareto Criterion	
3.2.	Pigovian Analysis of Externalities	
3.3.	Compensation Criterion	
3.4.	Property Rights and Coase Theorem	
3.5.	Environmental quality as a Public Good	
3.6.	Market Failure	
Unit: IV Economics Growth and Environment		16 Hrs
4.1.	The Cost of Economic growth and Environmental Degradation	
4.2.	The limit to Growth Model	
4.3.	Social limits to Growth Model	
4.4.	Environmental Kuznets Hypothesis	
4.5.	Sustainable Development	

4.6.	Natural Hazards & Disaster Management: Introduction to hazards-hazard classification	
4.7.	Types of hazards like earth quake, tsunami, volcanoes, cyclone, flood, drought, land slide, cold & heat hazards	

Self-study component:

Classification of Natural Resources

Common Property Resources

Joint Forest Management

Forest Act

References:

1	Accounting and Valuation of Environment – A Preview for Developing Countries, United Nation, 1997.
2	Environmental Economics: An Indian Perspective, Rabindra N, Bhattacharya ,Oxford University Press.
3	Environmental Economics,Oxford University Press,2000.
4	Environmental Economics in Theory and Practice, Nick Hanley, Jason F. Shogren and Ben White , Macmillan, 1991
5	Environmental and Natural Resource Economics, Tom Tietenberg, Pearson Edition, 2005.
6	Environmental Economics: Theory, Management and Policy, Jhingan.M.L& Chandra K.Sharma, Second Edition, 2012.

IV SEMESTER

Course Title	INTERNATIONAL FINANCE AND BUSINESS						
Course Type	Hard Core-Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr	70 Marks	100

COURSE OBJECTIVES (COs)			
CO No.	Course Objectives On completion of the course the student will be able to		
CO-1	To provide knowledge about international finance and international capital flows.		
CO-2	To aware about the foreign exchange market systems.		
CO-3	To understand the theories of foreign exchange rate.		
CO-4	To provide knowledge about Central bank and balance of payment determinants.		
Mapping of CLOs with PSOs & CDLs			
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to	PSOs Addressed	CLDs
CLO-1	Understand the importance of international finance and international capital flows.	PSO-5	Understand
CLO-2	Evaluate the functions of foreign exchange market and international money market.	PSO-5	Evaluate
CLO-3	Apply and analyze the foreign exchange rate theories.	PSO-3	Analyze
CLO-4	Understand the international financial market integration.	PSO-5	Understand
CLO-5	Analyze the role of central bank in managed exchange rate and balance of payment determinants.	PSO-2	Analyze

Unit: I International Finance		12 Hrs
1.1.	Why it is important to Understand International Money and Finance - Circular Flow of Income and Product	
1.2.	International Transactions and how they affect Balance of Payments (an example).	
1.3.	International Capital Flows - Motives and Effects of International Capital Flows - Multinational Corporations	
1.4.	Labour Migration - Motives and Effects of International Labour Migration.	
Unit: II Foreign Exchange Markets		14Hrs

2.1.	Functions of Foreign Exchange Markets - Exchange Rates and the Markets for Foreign Exchange	
2.2.	Foreign Exchange Risks - Interest Arbitrage and the Efficient and Effective Exchange Rates	
2.2.	Composite Currencies: Special Drawing Rights and European Currency Unit - Foreign Exchange Arbitrage	
2.3.	Demand and Supply of Currencies - Introduction to Foreign Exchange Rate Theories	
2.4.	International Money Markets.	
2.5.	Gold Standard - Bretton Woods System - Flexible Exchange Rate System	
Unit: III International Financial Instruments		14Hrs
3.1.	<i>Forward Currency Market and International Financial Arbitrage:</i> Foreign Exchange Risk - Forward Exchange Market - International Financial Arbitrage - Uncovered Interest Parity - Eurocurrency Market.	
3.2.	Monetary adjustments methods of correction monetary, <i>Interest Yield, Interest Rate Risk, and Derivative Securities:</i> Hedging, Speculation and Derivative Securities and their Risk.	
3.3.	<i>International Financial Market Integration:</i> International Capital Markets - International Money Markets - Vehicle Currencies	
3.4.	Capital Market Integration - International Banking and Payment System.	
Unit: IV Central Banks, Exchange Rates, and Balance of Payments Determination		12Hrs
4.1.	<i>Role of the Central Banks:</i> Managed Exchange Rates: Foreign Exchange Interventions - Do Interventions Accomplish Anything?	
4.2.	<i>Traditional Approaches to Exchange-Rate and Balance of Payments Determination:</i> Exports, Imports and the Demand for and Supply of Foreign Exchange	
4.3.	Elasticity Approach - Absorption Approach - Monetary and Portfolio Approaches to Exchange Rate and Balance of Payment Determination.	
Unit: V Open Economy		12Hrs

5.1.	An Open Economy Framework - Economic Policy with Fixed Exchange Rates	
5.2.	Economic Policy with Floating Exchange Rates - Policy Co-ordination	
5.3.	Monetary Union and Target Zones - Monetary and Fiscal Policy under Fixed Exchange and Floating Exchange Rates.	

Self-Study Topic:

Exchange rate determinants, fixed exchange rate, flexible exchange rate system.

IMF and World Bank: role present function of IMF and World Bank.

IMF and developing countries. World Bank and developing world, Asian development bank.

References

1	International economics, Dominick Salvatore, John Wiley and Sons.
2	International economics, Robert J Carbaugh, Thomson- south western.
3	International trade, MIA Mikic, Macmillan press LTD.
4	Global Financial Management, Thomas J. O' Brien.

IV SEMESTER

Title: Managerial Economics

Course Title	MANAGERIAL ECONOMICS							
Course Type	Hard Core- Theory	Total Hours	64	Hours/Week	04	Credits	04	
Course Code	Evaluation	Internal	C1+C2 = 15+15			30 Marks		100
		External	Duration	C3	03Hrs	70 Marks		
COURSE OBJECTIVES (COs)								
CO No.	Course Objectives On completion of the course the student will be able to							
CO-1	To understand the scope and objectives of Managers and entrepreneur.							
CO-2	To analyse the objectives, theories and profit of Firm.							
CO-3	To evaluate the various projects.							
CO-4	To understand the internet or online business environment.							
Mapping of CLOs with PSOs &CDLs								
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to				PSOs Addressed	CLDs		
CLO-1	Understand the role of managers, entrepreneur and various theories of Firm.				PSO-1	Understand		
CLO-2	Evaluate the various theories of Profit.				PSO-2	Evaluate		
CLO-3	Analyse and forecast the demand for the products.				PSO-3	Analyse		
CLO-4	Apply and evaluate the various projects.				PSO-4	Apply		
CLO-5	Analyse and evaluate the K-enterprise.				PSO-5	Evaluate		

Unit: I Managerial theories		12 Hrs
1.1.	Role of Managerial Economists, significance of managerial economics	
1.2.	Firm organization: sole proprietorship, partnership, Joint Stock Company, corporation, co-operatives.	
1.3.	Theory of firm; profit maximization, Baumol's sales revenue maximization model, managerial utility model- Williamson model, marries model of managerial enterprises:	
1.4.	Behavioral theories; Simons satisfying model, Cyert and March's behavioral theory of the firm.	

Unit: II Demand forecasting		12 Hrs
2.1.	Demand forecasting: purpose of forecasting demand,	
2.2.	Determining scope of forecasting,	
2.3.	Methods of demand forecasting survey method, statistical method.	
Unit: III Price practices and strategies		14Hrs
3.1.	Cost oriented pricing,	
3.2.	Cost-plus pricing marginal cost pricing rate of return and competition oriented pricing,	
3.3.	Going rate pricing, profit policy, planning and forecasting.	
3.4.	Break-even analysis planning for profit.	
Unit: IV- Capital budgeting		13Hrs
4.1.	Meaning and importance of capital budgeting,	
4.2.	Benefit and cost analysis, steps for capital project evaluation,	
4.3.	Modern techniques for investment appraisal.	
Unit-V: K- Economy		13Hrs
5.1.	Meaning, Knowledge as a factor of production	
5.2.	Features- knowledge management- Internet economics	
5.3.	Internet infrastructure- The Internet/Knowledge application infrastructure	
5.4.	The internet commerce- K-profit- K enterprise portfolio analysis	

Self-study topics

Theory of pricing: Monopolistic competition, duopoly, oligopoly, profit theory, residual claimant theory, wage theory of profit, dynamic surplus theory, innovation theory role government in business.

References

1	Managerial economics analysis and problems and cases by P.L. Mehta, silt and chand and sons
2	Business and managerial economics in global context Sampat Mukherjee, New central book agency (p) Ltd , Kolkata.

3	Mc Guigon R. James, R. Charles Moyer, Frederick H Deb, Harris (2002), <i>Managerial Economics: Applications, Strategy and Tactics</i> , South Western, USA
4	Salvatore Dominick, <i>Managerial Economics in a Global Economy</i> , McGraw Hill Inc., New York

IV SEMESTER

Course Title		WELFARE ECONOMICS						
Course Type	Hard Core- Theory	Total Hours	64	Hours/Week	04	Credits	04	
Course Code	Evaluation	Internal	C1+C2 = 15+15			30 Marks		
		External	Duration	C3	03Hrs	70 Marks		
COURSE OBJECTIVES (COs)								
CO No.	Course Objectives							
	On completion of the course the student will be able to							
CO-1	To understand concept of individual and social welfare function.							
CO-2	To analyse the various welfare theories.							
CO-3	To evaluate the various general equilibrium models.							
CO-4	To understand the various choice theories and models.							
Mapping of CLOs with PSOs & CDLs								
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed		CLDs		
CLO-1	Able to understand concept of individual and social welfare function.			PSO-1		Understand		
CLO-2	Able analyse the various welfare theories.			PSO-2		Analyse		
CLO-3	Students will be able to evaluate the various general equilibrium models.			PSO-2		Evaluate		
CLO-4	Students will be able to understand the various choice theories and models.			PSO-5		Understand		
CLO-5	Able to construct the welfare models.			PSO-4		Apply		

Unit:1 Pre-Paretian Welfare Economics		14Hrs
1.1.	Benthamite Approach to Aggregate Welfare; Optimum Resource Allocation	

	and Welfare,	
1.2.	Maximization, Assumption of Uniform Income	
1.3.	Utility Function of Individuals	
1.4.	Question of Income Distribution; Issue of Interpersonal Comparisons of Utility	
1.5.	Marshallian Welfare Economics; Consumer's Surplus; Measurement of Consumer's Surplus	
1.6.	Principle of Compensating Variation; Hicks's Consumer's surpluses.	
Unit : Paretian Welfare Economics I		14Hrs
2.1.	Pareto optimality — Optimum exchange conditions	
2.2.	The production optimum, The consumption optimum	
2.3.	Concept of contract curve; Top level optimum	
2.4.	Infinite number of non-comparable optima vs. unique social optimum	
2.5.	Compensation criteria.	
Unit: III Paretian Welfare Economics II		12Hrs
3.1.	Contributions of Barone, Kaldor and Hicks; The Scitovsky double criterion	
3.2.	Concept of community indifference map, Samuelson's utility possibility curve	
3.3.	Value judgments and welfare economics; Bergson's social welfare function	
3.4.	Arrow's possibility theorem.	
Unit: IV General Equilibrium Theory		12Hrs
4.1.	Interdependence in the Economy - Partial and General Equilibrium Analyses	
4.2.	Walrasian Excess Demand and Input - Output Approaches to General Equilibrium - Existence, Uniqueness and Stability of Equilibrium.	
4.4.	Simultaneous Equilibrium - General Equilibrium and Allocation of Resources	
4.5.	Prices of Commodities and Factors - Factor Ownership and Income Distribution.	
4.6.	Relationship between Relative Commodity and Factor Prices (Stolper-Samuelson Theorem)	
4.7.	Relationship between Output Mix and Real Factor Prices, Effect of Changes in	

	Factor Supply in Closed Economy (Rybczynski Theorem) - Production and Consumption.	
Unit: V Choice Theory		12Hrs
5.1.	Measurement of Economic Welfare - Definition - Utilitarian Economics (Pre-Paretian Welfare Economics)	
5.2.	Welfare and General Equilibrium - Pareto-Optimality and Market Equilibrium	
5.3.	Arrow's Impossibility Theorem - Externalities and Market Failures - Welfare Economics and Social Choice Theory.	
5.4.	Problem of Public Goods - Pigouvian Welfare Economics - Second Best Optima - Sen's Contributions to Welfare Economics - Collective Choice and Social Welfare.	

Self-study Component:

Interdependence in the Economy – Partial and General Equilibrium Analyses; Marshallian Welfare Economics: Consumer's Surplus; Measurement of Consumer's Surplus – Difficulties involved, Criticism;

References

- 1 Social choice and Individual Values, Arrow, K. J., Yale University Press, New Haven, 1951.
- 2 Welfare Economics and the Theory of the State, Baumol, W. J. (Second Edition) Longmans, London, 1965.
- 3 Welfare Economics, Baumol, W. J. (Ed.), Edward Elgar Publishing Ltd. U.K., 2001.
- 4 Welfare Economics, Myint, H., Macmillan, London, 1948.
- 5 Economic Theory and the Welfare state, Nicholas, B. (Ed.), Edward Elgar Publishing Ltd., U. K., 2001.
- 6 The Economics of Welfare, Pigou, A. C. (4th Edition) Macmillan, 1962.
- 7 Modern Microeconomics, Koutsoyiannis, Macmillan, London, 1997.
- 8 Microeconomics Theory and Applications, Dominick Salvator, Oxford University Press, New York, 2003.

IV SEMESTER

Title: Term Project

Course Title	TERM PROJECT						
Course Type	Soft Core Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr	70 Marks	100
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	To make them identify the problem area of research work.						
CO-2	To provide knowledge on the variables and find the same with their respective area of research.						
CO-3	To understand and to construct the objectives and the hypothesis of the research.						
CO-4	To provide knowledge about to prepare research project.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed	CLDs		
CLO-1	Understand the practical aspect of the research.			PSO-4	Understand		
CLO-2	Able to evaluate the problem area of the research.			PSO-4	Evaluate		
CLO-3	Understand the collection and interpretation of the research data.			PSO-3	analyze		
CLO-4	Able to publish the research article.			PSO-4	Evaluate		
CLO-5	Able to use of the statistical tools in the research project.			PSO-3	Understand		

Term Project Evaluation

Right from the initial stage of defining the problem, the candidate has to submit the progress reports periodically and also present his / her progress in the form of seminars in addition to the regular discussion with the guide. Components of evaluation are as follows:

Component – I (C₁): Periodic Progress and Progress Reports (15)

Component – II (C₂): Results of Work and Draft Report (15)

Component – III (C₃): Final Viva Voce and evaluation (70). The report evaluation is for 40 and the Viva –voce examination is for 30.

IV SEMESTER

Course Title		INFRASTRUCTURE ECONOMICS					
Course Type	Soft Core Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr	70 Marks	
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	To understand the concept and importance of social infrastructure and quality of living.						
CO-2	To provide knowledge on the investment in education and trends in public expenditure.						
CO-3	To understand the financing of health care services and importance of health insurance.						
CO-4	To provide knowledge about housing demand and supply, water supply and sanitation.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed	CLDs		
CLO-1	Understand the development of social infrastructure in India.			PSO-5	Understand		
CLO-2	Able to understand the social rate of return on investment in education.			PSO-2	Evaluate		
CLO-3	Understand the role government in financing of health care services.			PSO-2	Understand		
CLO-4	Able to understand role of government in providing housing services.			PSO-5	Analyze		
CLO-5	Evaluate the water supply schemes, sanitation programs problems in rural areas.			PSO-5	Evaluate		

Unit: 1 Social Infrastructure		16Hrs
1.1.	Concept- Importance- Social infrastructure and quality of living	
1.2.	Equity and Social concerns- Approaches to develop social infrastructure,	
1.3.	Traditional and new methods- community participation- Privatization feasibility	
1.4.	Opportunities and Possibilities- Development of social infrastructure in India.	
Unit: II Education		16Hrs
2.1.	Investment in Education – Analysis of Cost and Cost Concepts	
2.2.	Measurement- trends in Public expenditure on Education- Measurement of Benefits	
2.3.	Social rate of Return on Investment in Education- Educational Planning	
2.4.	Considerations and Issues- Privatization of Education -GATS and Higher Education	
2.5.	Issues in Governance and Management- Policy issues.	
Unit: III Health		16Hrs
3.1.	Supply and Demand for Health care services-Methods of Estimation	
3.2.	Derivation of Individual and Market Demand for Health Care Services	
3.3.	Financing of Health care Services- Role of Government- Health Insurance	
3.4.	Role of Institutions- Health Policy- issues and Concerns- Evaluation.	
Unit: IV Housing		16Hrs
4.1.	Housing: Demand and Supply analysis- Methods of estimation	
4.2.	Financing of housing- Public and Private Investment	
4.3.	Role of Institutions- Emerging Housing Market- Challenges and Opportunities	
4.4.	Housing Policy: Priorities and concerns	
4.5.	Water Supply and Sanitation:Water Supply Schemes-Sanitation Programs	
4.6.	Problems in Rural Areas – Role of Public Sector	

References:

1	“Infrastructure for Development, World Development Report, Oxford University Press, New York, 1994.
2	India Development Reports, Parikh K.S. (Ed) ,Oxford University Press, New Delhi.
3	Indian Council of Social Science Research (ICSSR), Economics of Infrastructure, vol. IV, New Delhi, 1976.
4	The Economics of Energy Vol I & II, Paul Stevens, 2000.
5	Pricing in Public Sector: Theory and Applications, Sankar U, Indian Economic Association Trust for Research and Development, New Delhi, 1992.
6	Economics of Education,Blang on (Ed) Penguin Books, England, 1971.
7	Health Economics,Zweifel Peter &FreidrickBreyer, Oxford University Press, New York, 1997.
8	Modern Transport Economics,Nosten H.S, C.E. Merrill, London, 1971.
9	“The Contributions of Infrastructure to Economic Development: A Review of Experience and Policy Implications, KessidesChristiue, World Bank Discussion Paper 213, 1993.
10	India Infrastructure Reports

IV SEMESTER

Course Title		GENDER ECONOMICS					
Course Type	Soft Core- Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2 = 15+15			30 Marks	
		External	Duration	C3	03Hrs	70 Marks	
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives						
	On completion of the course the student will be able to						
CO-1	To understand basic concepts of gender Economics and Feminism.						
CO-2	To understand the role of women role of women in the economy.						
CO-3	To Evaluate the concept of certain protections for women security.						
CO-4	To give in-depth knowledge about different gender inequality measures.						
Mapping of CLOs with PSOs &CDLs							
CLOs No.	Course Learning Outcomes(CLOs)			PSOs Addressed		CLDs	
	On completion of the course the student will learn to						

CLO-1	Understand the different concept of feminism.	PSO-1	Understand
CLO-2	Understand and analyse the various theories with respect to gender development.	PSO-1	Analyse
CLO-3	Analyse the welfare economic policies for gender growth and development.	PSO-2	Analyse
CLO-4	Understand and analyse the concept of discrimination and its measurement with respect to gender.	PSO-5	Analyse
CLO-5	Evaluate the social security measures with respect to gender.	PSO-2	Evaluate

Unit: I Gender and Development		16Hrs
1.1.	Gender and Development - Bias in Conceptualizing and Measuring Women's Contribution to National Income	
1.2.	Measuring Gender Inequality in Human Development	
1.3.	Gender Related Development Index – Gender Empowerment Measure	
1.4.	Women in Agriculture – Women in Industry – Women in Services	
1.5.	Gender Dimensions of SAP and International trade	
Unit: II Women empowerment		16Hrs
2.1.	Concept of women empowerment – indicators women empowerment	
2.2.	Social, political & economic empowerment of women – financial inclusion & women SHGs	
2.3.	Policy interventions in women empowerment.	
2.4.	Media & women empowerment – legal support for women empowerment	
Unit: III Gender and Social Sector		16Hrs
3.1.	Paradigms for studying education – Human Capital Theory	
3.2.	Capability Theory – Applications to Gender – Importance of Women's education	
3.3.	Gender gaps - Education and Empowerment – State Policy and Programmes for promoting Women's Education – Life Cycle Approach to identify gender specific health needs	

3.4.	Reproductive Rights - Gender dimension of National Health Policy - Health Programmes	
3.5.	National Rural Health Mission – Reproductive and Child Health Programme.	
Unit: IV Gender Equality		16Hrs
4.1.	International Agencies in promoting Gender equality	
4.2.	Significance of International Women’s Year – SAARC Year of Girl Child	
4.3.	International Conferences on Women – Public Policies to reduce gender gap	
4.4.	National Commissions for Women – Political Participation of Women – PRI	
4.5.	Women’s Rights – Deprivation – Marginalization of Women - Feminization of Poverty	
4.6.	Paradigm Shift - Welfare Oriented Programmes to Empowerment Oriented Programmes,	

Self-Study:

1. Gender differences in School enrolment and completion at various levels of education, dropout rates, Literacy.
2. SarvaSikshAbhiyan
3. Gender differences in access to health
4. Schemes for promoting girl child education

References:

1	India: Economic Development and Social Opportunity, Amartya Sen and Jean Drèze, Oxford University Press, 1995.
2	Theories of Women Studies, Bowles Gloria and Dueli Klein Kenate, New York, 1989.
3	The issues at Stake: Theory and practice in the Women’s Movement in India, Gandhi, Nandita and Nandita Shah, New Delhi, 1992.
4	Is ‘Gender’ Easy to Study? Some Reflections, Maithreyi Krishnaraj, Economic and Political Weekly, October 21, 2006.
5	Women’s Studies in India – A Reader, Mary E. John, Penguin Books, New Delhi, 2008.

6	Women in Contemporary India: Realities and Perspectives, Sanjoy Roy, Akansha Publishing House, New Delhi, 2010.
7	Tracking Gender Equity Under Economic Reforms Continuity and Change in South Asia, Swapna Mukhopadhyay and Ratna M. (Eds), Kali for Women, New Delhi, 2003.
8	The Macro Economic Policies And The Millennium Development Goals, Vibhuti Patel, Gyan Publishing House, New Delhi, 2006.
9	Gender Budget – A case Study of India, Department of Economics, Vibhuti Patel, Centre for Advanced Study in Economics Working Paper UDE (CAS) 7(7)/2003
10	Emergence of Women's Question and Role of Women's Studies, Vina Mazumdar, Occasional Paper, Centre for Women's Development Studies, New Delhi, 1985.

IV SEMESTER

Course Title		NATURAL RESOURCES AND ENVIRONMENTAL ECONOMICS					
Course Type	Soft Core-Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr.	70 Marks	100
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	To introduce economics principles related to natural resource and environmental economics.						
CO-2	To explore the concept of efficiency and the efficient allocation of natural resources.						
CO-3	To understand the environmental policy issues and alternative instruments of environmental policies.						
CO-4	To understand the concept of economic growth and environment.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed		CDLs	
CLO-1	Understand the natural resource classification and natural resource policy in India.			PSO-1		Understand	

CLO-2	Understand the problems of waste management and energy problems in developing countries.	PSO-5	Understand
CLO-3	Apply and analyse the Pigovian analysis of externalities and market failure.	PSO-2	Analyze
CLO-4	Evaluate the economic growth and environmental degradation.	PSO-5	Evaluate
CLO-5	Understand the environmental Kuznets Hypothesis and sustainable development.	PSO-2	Understand

Unit: I Introduction: Basic Concepts		16Hrs
1.1.	Introduction to Environmental Economics –Importance – The Material Balance Principle	
1.2.	Relation between Development and Environment – Tragedy of Commons	
1.3.	Environmental Problems and Policy Solution – Market Failure	
1.4.	Public Goods and Externalities – Trade off between Ecological and Economic Principles	
Unit: II Environment and Development		16Hrs
2.1.	Environment and Development – Concepts and indicators of Sustainable Development	
2.2.	Strategies of Sustainable development - Sustainable Accounting - CPR	
2.3.	Environment and People – Poverty and Environment	
2.4.	Political Economy of Sustainable Development	
Unit: III Environmental Regulation		16Hrs
3.1.	Environmental Regulations - Economics of Environmental Policies Designing Environmental Policy	
3.2.	Non Market Policy Instruments – Economic Instruments	
3.3.	Price Based–Quantity Based and Hybrid Instruments	
3.4.	Environmental Planning – Environmental Impact Assessment	
3.5.	Environmental Policy in India	
Unit: IV Global Environmental Issues		16Hrs

4.1.	Globalization and Environment - Global Environmental Issues	
4.2.	Global Warming – Climate Change - International Mechanisms	
4.3.	International Agreements – National Initiatives to reduce global warming	
4.4.	NGO initiatives.	

Self Reading

1. Status of Natural Resources in India
2. Different types of pollution, causes and consequences
3. Pollution control Board

References:

1	Environmental Economics: An Indian Perspective, Rabindra N, Bhattacharya, Oxford University Press, 2001.
2	Environmental Economics, Kolstad. D. Charles, Oxford University Press, 2000.
3	Environmental Economics in Theory and Practice, Nick Hanley, Jason F. Shogren and Ben White, Macmillan, 1999.
4	Environmental Economics (Readers in Economics), Shankar U (Ed), Oxford University Press, 1979.
5	Ecology and Economics: An Approach to Sustainable Development, Ramprasad Sengupta, 2001.

IV SEMESTER

Title: Applied Econometrics

Course Title	APPLIED ECONOMETRICS						
Course Type	Soft Core- Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2 = 15+15			30 Marks	
		External	Duration	C3	03Hrs	70 Marks	
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	To provide knowledge about the application of econometrics.						
CO-2	To apply and analyse the time series analysis.						
CO-3	To evaluate the time series models						
CO-4	To conduct the empirical research or doing a project.						
Mapping of CLOs with PSOs &CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to				PSOs Addressed	CLDs	
CLO-1	Understands the econometrics application to economic theory.				PSO-1	Understand	
CLO-2	Evaluate the time-series models.				PSO-3	Evaluate	
CLO-3	Able apply the error correction for time series model.				PSO-3	Analyse	
CLO-4	Able to test hypothesis and interpret the results.				PSO-4	Apply	
CLO-5	Able to evaluate the econometric models and write a project.				PSO-4	Evaluate	

Unit: 1 Time Series Analysis		16Hrs
1.1.	Introduction - Stationary and Non-stationary series	
1.2.	Testing of a Unit root - Co integration Test for Co-integration	
1.3.	Error Correction Model - Introduction of ARCH and GARCH Modeling.	
Unit: II Demand Analysis		16Hrs
2.1.	Single Demand equation Model.	
2.2.	Dynamic demand analysis	

2.3.	Empirical Analysis of Demand for Money; Estimation of Production Function.	
2.4.	Cobb- Douglas-CES production function: Trans-log- Phillips Curve	
Unit: III Simulation Methods		16Hrs
3.1.	Motivation, Monte Carlo simulations, - variance reduction techniques - boot strapping	
3.2.	Random number generation. An example of the use of Monte Carlo simulation in econometrics.	
Unit: IV Conducting empirical research or doing a project		16Hrs
4.1.	What is an empirical research project? - What is it for? - Selecting the topic.	
4.2.	Review of literature - Permutation of General Model	
4.3.	Empirical works conducted for Indian Economy	
4.4.	Demand analysis - Production Function analysis	
4.5.	Application of Econometrics in Agriculture.	

Reference:

1	An Introduction to Applied Econometrics a time series approach by Kerry Patterson; Macmillan Press LTD .2000
2	Introductory Econometrics for finance by Chris Brooks, Cambridge University Press 2002
3	Applied Econometrics: by Meghnad Desai, Mehra Hill Publishing company Ltd 1997
4	Indian Econometrics Models, K. L. Krishna
5	Introductory Econometrics with Applications by RamuRamanthan, Thomson- South-western Bangalore 2002.

Open Elective Paper (For Other Departments)

II SEMESTER

Title: Indian Economy

Course Title	INDIAN ECONOMY						
Course Type	Open Elective Paper	Total Hours	32	Hours/Week	02	Credits	02
Course Code	Evaluation	Internal	C1+C2=15+15			20Marks	
		External	Duration	C3	0Hr	30 Marks	50
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	To understand the concept of features of Indian economy and Human development status in India.						
CO-2	To analyse the planning models in India.						
CO-3	To understand the population explosion, demographic dividend and population policy.						
CO-4	To provide knowledge about concept and measurement of poverty and unemployment.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed	CLDs		
CLO-1	Understand the concept of Indian public finance and FDI in India.			PSO-2	Understand		
CLO-2	Able to understand the objectives and features of Indian planning.			PSO-2	Understand		
CLO-3	Analyze the Indian population growth and demographic dividend.			PSO-5	Analyse		
CLO-4	Able to understand the poverty alleviation and employment programme.			PSO-5	Analyse		
CLO-5	Evaluate the structural adjustment programmes and stabilization programmes.			PSO-2	Evaluate		

Unit: 1 An overview of the Indian Economy		14Hrs
1.1.	Features of Indian Economy – Indian economy on the eve of Independence	
1.2.	National income, savings & capital formation – Sectoral composition of Indian economy	
1.3.	Human development status in India – Infrastructure development	
1.4.	Regional imbalances in development – Indian public finance – Inflation in India	
1.5.	FDI in India.	
Unit: II Planning in India		14Hrs
2.1.	Rationale, Objectives & features of Indian planning – planning machinery	
2.2.	Plan formulation, execution & evaluation	
2.3.	Planning Models, Mahalanobis & P.R. Brahmananda & C.N Vakil Model	
2.4.	Regional planning in India – 11 th five year plan, salient features & objectives	
2.5.	60 years of planning in India – planning under globalisation.	
Unit: III Population		12Hrs
3.1.	Population explosion – trends in India's population growth	
3.2.	Demographic dividend – population policy.	
3.3.	Human Resource development- manpower planning	
Unit: IV Poverty & unemployment		12Hrs
4.1.	Poverty concept, measurement & magnitude – poverty alleviation programmes.	
4.2.	Concept of unemployment, measuring Unemployment, magnitude – causes & consequences	
4.3.	Major employment programmes – structure & emerging trends in employment.	
Unit: V Economic reforms in India		12Hrs
5.1.	Indian economy on the eve of economic reforms – objectives & features of economic reforms	

5.2.	Structural Adjustment Programmes & Stabilisation programmes	
5.3.	Major reforms in Agriculture, Industry, Trade, Services, Infrastructure, banking, taxation & capital market.	

Self-Study Components

Features of underdeveloped economy - problems of Agriculture, Industry & Infrastructure – Population & economic development – Controlling of population growth – Nexus between poverty & environment – Importance of small scale Industries – Growth & income distribution – employment concept – employment & economic development – planning commission – new industrial policy – role of foreign trade in economic development- occupational structure – Trade liberalisation – Monetary & fiscal policy – WTO & GATS – banking structure – VAT- MODVAT- CENVAT- GST

References

1	Indian Economy, K.P.M. Sundaram, S. Chand & company Ltd, New Delhi, 2008.
2	Indian Economy – Its Development Experience, Misra S.K. & Puri V.K., Himalaya publishing house, New Delhi, 2007.
3	India's Economy: Some issues & answers, Acharya Shankar, Academic foundation, New Delhi, 2003.
4	Indian Economy since Independence, Kapila Uma, Academic foundation, New Delhi, 2003.
5	Economic Policy Reforms & Indian Economy, Kruger O Anne ed, Oxford University press, New Delhi, 2003.
6	R.B.I – Report on Currency & Finance
7	Government of India Economic Survey, Ministry of Finance, New Delhi
8	Planning Commission – 11 th five year plan, New Delhi

Open Elective Paper (For Other Departments)

III SEMESTER

Course Title	Rural development						
Course Type	Soft Core Theory	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr.	70 Marks	100
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	To understand the concept of human development and measuring human development.						
CO-2	To provide knowledge about relationship between economic growth and human development.						
CO-3	To understand the consumption and the links with human development.						
CO-4	To provide knowledge about new dimensions of human security and human rights and human development.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to			PSOs Addressed	CLDs		
CLO-1	Understand the nature and scope and significance of human development.			PSO-5	Understand		
CLO-2	Able to understand the relationship between economic growth and human development.			PSO-5	Analyze		
CLO-3	Understand the role government in financing of health care services.			PSO-3	Understand		
CLO-4	Able to understand the struggles for human freedoms and human rights.			PSO-5	Understand		
CLO-5	Evaluate the Millennium Development Goals and challenges in meeting the goals.			PSO-5	Evaluate		

Unit: 1 Introduction to Rural Development		14Hrs
1.1.	Meaning of Rural Development- Basic Elements of Development-	
1.2.	Objectives of Development- Strategies of Rural Development-Rural Development Theories.	
1.3.	Approaches: Gandhian Approach- Sectoral Approach-Target Group Approach-Area Approach and Integrated Approach.	
Unit: II Rural Economy of India		14Hrs
2.1.	Rural Measures-Rural Income-Size, Growth and Occupational Structure of Rural Population	
2.2.	Problem of Unemployment-Poverty-Causes and Consequences of Poverty in India	
2.3.	Policies for Rural Development-Need for Rural Development policy	
2.4.	Rural Development under Five year Plans.	
Unit: III Rural Development Programme in India		12Hrs
3.1.	Types of Rural Development Programmes in India- CDP, SFDA, MFAL, DPAP, IRDP	
3.2.	Block Plan NREP, RLEGP, JRY, DWCRA, FWP, TRYSEM	
3.3.	Rural Employment Guarantee Programme.	
Unit: IV Rural Agriculture and Rural Infrastructure		12Hrs
4.1.	Perspectives and Approaches-Agriculture and the Rural Economy of India	
4.2.	Planning for Village Industries Growth and Development of Rural Industries in India	
4.3.	Rural Industrial Co-operatives-Rural Infrastructure-Rural Transport-Rural Electricity	
4.4.	Rural Education-Rural Housing-Rural Health, Sanitation, Water Supply	
4.5.	Role of Infrastructure in Rural Development.	
Unit: V Governance and rural Development		12Hrs
5.1.	Panchayat raj institutions	
5.2.	Decentralization	
5.3.	e-governance	

References:

1	Rural Economics, Dhingra I.C, S.Chand and Sons, New Delhi.
2	Rural Development in India: A Public Policy Approach, Shriram Maheswari, Sage publishers, New Delhi, 1995.
3	Rural Development, Principles, Policies and Management, Katar Singh, Sage Publishers, New Delhi, 1986.

Open Elective Paper (For Other Departments)

III SEMESTER

Course Title	ENVIRONMENTAL ECONOMICS						
Course Type	Open Elective Paper	Total Hours	32	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15		20 Marks		50
		External	Duration	C3	03 Hr	30 Marks	
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives On completion of the course the student will be able to						
CO-1	To understand the concept and importance of the study of environmental economics.						
CO-2	To analyse the environmental pollution and types of pollution						
CO-3	To understand the environmental accounting and various approaches to environmental accounting.						
CO-4	To provide knowledge about global environmental policy and international action for environmental protection.						
Mapping of CLOs with PSOs & CDLs							
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to				PSOs Addressed	CDLs	
CLO-1	Understand the Importance of the study of Environmental Economics				PSO-5	Understand	

CLO-2	Able to understand the Impact of population growth on Environment.	PSO-5	Evaluate
CLO-3	Analyze the Green accounting & Green Economics.	PSO-1	Analyze
CLO-4	Able to understand the Concept of Environmental Accounting.	PSO-5	Understand
CLO-5	Evaluate the environmental policy in India and global environmental policy.	PSO-2	Evaluate

Unit: 1 Introduction to Environmental Economics		16Hrs
1.1.	Environmental Economics its nature & scope	
1.2.	Importance of the study of Environmental Economics	
1.3.	Sustainable development Concept & strategies to achieve sustainable development	
1.4.	Environment & Economic development – Kuznets Environmental curve	
	Material balanced principle-(Entropy law) – Environmental stress – Externalities.	
Unit: II Environmental Pollution		16Hrs
2.1.	Concept of Environmental pollution	
2.2.	Impact of population growth on Environment with reference to output growth and environment	
2.3.	Types of pollution Air, Water, Noise, Chemical, thermal and degradation of land & habitant – causes & consequences - climate change & Global warming.	
Unit: III Environmental Accounting		16Hrs
3.1.	Concept of Environmental Accounting – various approaches to Environmental accounting	
3.2.	System of National Accounts (SNA), IEEA & Green GDP methods	
3.3.	Green accounting & Green Economics – Environmental Impact & Assessment.	
Unit: IV Environmental Policy		16Hrs

4.1.	Global Environmental Policy- International Action for Environmental protection	
4.2.	Helsinki protocol (1985) - Montreal protocol (1987) – Earth Summits	
4.3.	WTO & Environmental issues. Environmental Policy in India	
4.4.	Direct & Indirect measures- Moral suasion – regulation – prohibition- Taxes.	
4.5.	Subsidies – Tradable permits – mixed instruments	
4.6.	Role of NGO's & Civil society organizations.	

References:

1	Environmental Economics, Kolstad- Charles, Oxford University press – New Delhi.
2	Environmental Protection – Challenges & Issues, Mahajan V.S, Deep & Deep Publishers New Delhi.
3	Environmental Economics. In theory & practice Nick, Hantey, Manasa publication –New Delhi.
4	Environmental Economics, Rabindra N Bhattacharya Oxford University press – New Delhi.
5	Environmental Economics Readers in Economics, Shankar U, Oxford University press- New Delhi.
6	United Nations Accounting & Valuation of Environment Vol I & II A premier for Developing countries – ESCAP – New York.

Open Elective Paper (For Other Departments)

IV SEMESTER

Course Title	India Financial System						
Course Type	Open Elective Paper	Total Hours	64	Hours/Week	04	Credits	04
Course Code	Evaluation	Internal	C1+C2=15+15			30Marks	
		External	Duration	C3	03 Hr	70 Marks	100
COURSE OBJECTIVES (COs)							
CO No.	Course Objectives On completion of the course the student will be able to						

CO-1	To understand the concept and importance of the Indian Banking system.		
CO-2	To analyse the role of banking sector in India.		
CO-3	To understand the historical background of the banking sector in India.		
CO-4	To provide knowledge about reserve bank of India, commercial banks and regional rural banks in India.		
Mapping of CLOs with PSOs & CLDs			
CLOs No.	Course Learning Outcomes(CLOs) On completion of the course the student will learn to	PSOs Addressed	CLDs
CLO-1	Understand the Importance of the banking system in India.	PSO-5	Understand
CLO-2	Able to understand the role of reserve bank of India in the economy.	PSO-5	Evaluate
CLO-3	Analyze of assets and liabilities of scheduled Commercial Banks in the banking system.	PSO-1	Analyze
CLO-4	Able to understand the role and structure of the regional rural banks in India.	PSO-5	Understand
CLO-5	Evaluate the development of the cooperative banks and role of RBI in cooperatives.	PSO-2	Evaluate

Unit: I Nature & functions of Financial System		16Hrs
1.1.	Nature & structure of financial system –Role & Functions	
1.2.	Financial system & Economic Development- Financial Intermediaries	
1.3.	Primary & secondary markets – Major issues in the Indian financial system	
1.4.	Financial Sector Reforms in India.	
Unit: II Financial Institutions		16Hrs
2.1.	RBI & its functions – Monetary policy & economic stability	
2.2.	Commercial Banking like NIT, SFCs & Housing Financing companies	
2.3.	Development Banking & Merchant Banking.	

Unit: III Introduction to Financial Markets		16Hrs
3.1.	Money Market & Capital Market – call Money Market	
3.2.	Treasury Bills market – Government. Securities Markets	
3.3.	Discount Market – Foreign Exchange Market	
3.4.	Debt Market Stock exchange –capital Market Reforms in India	
3.5.	Risk Management in financial Markets.	
Unit: IV Financial Instruments & Services		16Hrs
4.1.	Mutual Funds – venture capital its importance & methods, design,	
4.2.	Factorising, Forfeiting credit rating, Securitization,	
4.3.	Depositories Financial Serum for future markets.	

Self-Study component

1. Nature & functions of Financial System
2. Financial Institutions
3. Introduction to Financial Markets
4. Financial Instruments & Services

Reference Books

1	Financial Institutions and Markets, L.M Bnoie, Tata McGraw Hill, New Delhi.
2	Administer: Financial Institutions, Markets and Management – MC Graw Hill, New Delhi.
3	Unorganized money market in India, Kalkal G.C: Lalvani, Bombay
4	Financial Markets, Khan M.Y : Vikas
5	Financial Markets, Goraon&Nataraja: Himalaya
6	Venture Capital Financing in India, Verma J.C, Sage publications
7	Financial Institutions & Markets Structure Growth & Innovations, Bhole L.M, 1992.
8	Financial Institutions of India,Dagli V(Ed):1976.

Open Elective Paper (For Other Departments)

IV SEMESTER

Title: Economics of Globalization

Unit: 1 Introduction to Globalisation		16Hrs
1.1.	Concept and definition – Evolution – objectives	
1.2.	Why globalisation? – process, dimensions and features	
1.3.	How to measure the extent of globalisation?	
1.4.	Advantages and disadvantages – gainers and losers of globalisation.	
Unit: II International Trade and Technology Transfer		16Hrs
2.1.	World Trade Scenario since globalisation	
2.2.	Composition, direction and trends in global trade – Features of trade liberalisation	
2.3.	Regional Trade Blocks – Trade between developed and developing nations	
2.4.	WTO and its objectives – Technology transfer and its implications.	
Unit: III International Financial Flows		16Hrs
3.1.	Foreign Direct Investment, its composition, direction and trends – factors determining FDI,	
3.2.	Benefits and costs – MNCs as means of global capital flows – portfolio investment	
3.3.	Official Development Assistance- Remittances from abroad	
3.4.	International Commercial borrowings	
3.5.	Financial crises in MDCs and their implications for developing nations.	
Unit: IV Labour Migration and Information Revolution		16Hrs
4.1.	International Labour Migration, causes and consequences	
4.2.	GATS Agreement and Labour migration	
4.3.	Managing global labour migration; international labour standards	
4.4.	Information revolution and globalisation	

4.5.	Growth of communication technology and its impact on global business environment	
4.6.	Information sharing.	

References

1	Facets of globalisation: Yusuf Shahid, Simon Everent and Weiping W.U. (ed), 2001.
2	International and Local Dimensions of Development, The World Bank, Washington DC
3	Globalisation and its Discontents, Stiglitz Joseph. E, W.W. Norton and company New York, 2002.
4	Globalisation for Development World Bank and Palgrave Macmillan, Goldin Ian and Kenneth Reinert, Washington DC, 2006.
5	Globalisation Unmasked, Petras James and Henry Vitmeyer Madhyam books Delhi, 2001.
6	In Defence of Globalisation, Bhagawathi Jagadish, Oxford University press New Delhi, 2004.
7	Globalization of Finance, Singh Karlijit, Madhyam books New Delhi, 1998.
8	The Economics of Globalization-policy perspective from Public Economics; Razin and Sadka – 2010
9	Backer, Epstein and Pollin- Globalization and Progressive Economic Policy