PROGRAMME STRUCTURE AND SYLLABUS (2020 ADMISSION ONWARDS)

MASTER OF ARTS BUSINESS ECONOMICS



EXPERT COMMITTEE FOR M.A. BUSINESS ECONOMICS
MAHATMA GANDHI UNIVERSITY
മഹാത്മാഗാന്ധി സർവ്വകലാശാല 2020

MASTER OF ARTS

BUSINESS ECONOMICS

PROGRAMME STRUCTURE AND SYLLABUS 2020-2021 ADMISSIONS ONWARDS

(UNDER MAHATMA GANDHI UNIVERSITY PGCSS REGULATIONS 2020)



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M.A. Business Economics Degree Programme

(Mahatma Gandhi University Regulations PGCSS 2020 from 2020-21 Academic Year)

M.A. Business Economics is a postgraduate Economics course. It is designed to meet the growing demand for those who seek a postgraduate degree combining a solid training in microeconomic and macroeconomic principles with quantitative methods and research informed applied economics units along with economics issues and problems related to business organization, management and strategy. M.A. in Business Economics covers topics such as Microeconomics, Macroeconomics, Development Economics, Indian Economy, Mathematical Methods, Public Economics, Management Concepts and Organizational Behaviour, Statistics, Investment Analysis and Portfolio Management, International Economics, Econometrics, Research Methodology in Business Economics, Environmental Economics and Marketing Management Theories. This programme will contain a mix of theory, methods, research and field courses that will be very fruitful for the economic development of a country. With a master degree in Business Economics, one is expected to have comprehensive knowledge of modern economics along with management education as an academic discipline. This programme enables students to know about economic theory regarding the way in which economy is influenced by economic policies. It provides a deep insight of finance and management sectors and civilizes the soft skill of a student which makes him/ her to face any challenge in public and private sector.

M.A. Business Economics is an advanced level course designed for the students to deal with economic concepts and management principles in a much in-depth manner. This programme provides a strong foundation in economic principles and meets the needs of decision-makers and advisors in the business to create essential business skills which are necessary for career progression in many public and private sector organizations. During the course time, a student will get in-depth knowledge about the core subjects like micro economic theory, macroeconomic theory, mathematical economics and Econometrics. The course seeks to cultivate the analytical and critical skills relevant to economic development, in particular, those needed to assess alternative approaches to policy. It provides rigorous quantitative training which makes students competent to take up the most challenging careers in business, industry, public sectors and advanced academic research. It aims to provide the research tools and approaches needed for those who wish to proceed to doctoral research in Economics. The need to improve curriculum and keep up with the pace of new developments, it is important to incorporate new

literature in the postgraduate course. Thus, keeping in view the emerging trends in business, finance and Governance, a new curriculum for M. A. Business Economics has been developed. The present curriculum also contains teaching and evaluation methodology so that students are well trained and equipped with latest knowledge and skills to cope with the burgeoning challenges. The programme spanning four semesters intends to impart the necessary skills and capabilities to meet the challenges of the ever-changing vibrant economic environment.

AIM OF THE PROGRAMME

The broad objective of this programme is to overcome the issues occurring in the business world that needs an analytical and quantitative approach with the use of latest techniques evolving in the field of Business and Economics. It provides students with a full understanding of economic theory and with a firm grounding in the analytic methods of economic theory used by economists working in research, government, management and business. It also aims at equipping the students with the analytical tools of economics to have a holistic understanding of the economy in particular and the society in general. It prepares them for challenging careers open to economists as well as business analysts. The objective of business economics instruction is to offer an opportunity for students to be exposed to different facets of the discipline and to learn how economists go about their work. The specific objectives of the M.A.Business Economics Programme are given below:

- i) To transform students to skilled persons who are able to deal with competitive business challenges in the era of globalization and privatization.
- i) To provide students a strong base in economic principles and help them to develop a critical ability to solve business related issues in the best possible way.
- **ii**) To give students knowledge in the various fields of Economics and an in-depth understanding of the theoretical and empirical constructs in the field of Economics.
- iv) To disseminate awareness and appreciation of the complexity of socio- economic interdependence and change.
- v) Application of economic theories and dilating problem-solving acumen. To teach applications of theories in analyzing current economic problems.
- vi) Preparation for advanced studies leading to M. Phil. and PhD.
- vì) To equip students with a set of tools of econometrics, which would help them to solve real-world problems.
- vii) Develop the powers of inquiry, critical analysis, logical thinking, and your ability to apply

- theoretical knowledge to current issues of policy and practice in economics and business.
- ix) Encourage initiative, independent learning, awareness of analytical and theoretical approaches in the field of economics, exposure to recent research and state-of-the-art tools in applied for work in economics.
- x) To train students for model building, test economic models and business models using advanced methods and sophisticated economic and management tools, analysis interpretation and formulation of development policies.
- xì) To stimulate analytical and critical thinking on the different economic and management issues.
- xì) To develop the capabilities of original and independent work, promoting excellence in thought and in action.
- xii) To give the students a level of knowledge in economics and business management to equip them to get employment in professional occupations or in other Research focused roles.
- xiv)To equip the students academically sound professionally competent so that they can solve any problem with ease.

1. PROGRAMME LEARNING OUTCOMES

Specifically, upon successful completion of the programme students will be able:

- 1. Gaining Additional Skills to Existing Knowledge: Students are able to enhance their soft skills like analytical skills and managerial skills with particular focus on Quantitative Techniques, Finance and Applied Business Economics along with the study of keeping up with classes, readings, problem sets, tests and assignments forces them to develop their time management and teamwork skills. Mastery in scientific analysis and latest soft skills enable them to take up the most challenging careers in business, industry, public sector and advanced academic research.
- 2. Gaining Access to Existing Knowledge: Students are able to create a continuous learning environment for engaging themselves to update with new knowledge in Economics. Locate published research in Economics, Management and related fields; locate information on particular topics and issues in economics; search out economic data as well as information about the meaning of the data and how they are derived.
- 3. Displaying Command of Existing Knowledge: Students are able to demonstrate knowledge of theoretical and empirical bases underpinning the construction, implementation and
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interpretation of Economic theories and assessment techniques, and be able to assess the Economic and social consequences regarding the same. Summarize (in a 2-minute monologue or a 300-word written statement) what is known about the current condition of the economy; summarize the principal ideas of an eminent living economist; summarize a current controversy in the economics literature; state succinctly the dimensions of a current economic policy issue; explain key economic concepts and describe how they can be used; identify the new developments in the field of management.

- 4. Displaying Ability to Draw Out Existing Knowledge: Write a précis of a published journal article; read and interpret a theoretical analysis, including simple mathematical derivations, reported in an economics journal article; read and interpret a quantitative analysis, including regression results, reported in an economics journal article; show what economic concepts and principles are used in economic analyses published in articles from newspapers and newsmagazines.
- 5. Utilizing Existing Knowledge to Explore Issues: To take a rigorous, quantitative approach to solve economic problems and to build and test economic models, using sophisticated economics tools. Prepare a written analysis (of say, 5 pages) of a current economic problem; prepare a decision memorandum (of say, 2 pages) for a superior that recommends some action on an economic or business strategy decision faced by the organization.
- 6. Creating New Knowledge: Think critically, independently and creatively to synthesize concepts to formulate cases, issues, identify and formulate a question or series of questions about some economic or business issues that will facilitate investigation of the issue; prepare a 5-page proposal for a research project; complete a research study whose results are contained in a published paper.

2. ELIGIBILITY FOR ADMISSIONS

A Candidate who has passed B.A., Economics or B.Sc., (Mathematics) degree examination of Mahatma Gandhi University or an examination of some other University accepted by the syndicate as equivalent thereto shall be permitted to apply for the M.A. Business Economics in the affiliated colleges of the University. Students admitted under this programme are governed by the University Regulations in force.

- 3. MEDIUM OF INSTRUCTION AND ASSESSMENT English shall be the medium of instruction and examination.
 - 4. FACULTY UNDER WHICH THE DEGREE IS AWARDED Faculty of Social Science SPECIALIZATIONS OFFERED, IF ANYManagement Concepts and Organisational Behaviour, Investment Analysis and Portfolio Management, Research Methodology in Business Economics,
 - **8** PROGRAMME STRUCTURE & SYLLABUS PGCSS 2020-MA BUSINESS ECONOMICS

Econometrics, Quantitative Economics, Advanced Microeconomics and Financial Economics.

5. NOTE ON COMPLIANCE WITH THE UGC MINIMUM STANDARDS FOR THE CONDUCT AND AWARD OF POST GRADUATE DEGREES

The Programme Structure, Scheme and Syllabus of the M.A. Programme in Business Economics is in compliance with the UGC Minimum Standards for the Conduct and Award of Post Graduate Degrees.

6. ELIGIBILITY FOR THE AWARD OF DEGREE

A candidate shall be eligible for the award of the degree only is he/she undergone the prescribed course of study in the college affiliated to the University for a period of not less than two academic years passed the examination of all the courses with 'E' grade shall be the minimum requirement for the award of the degree.

THE PROGRAMME STRUCTURE

- 1. Students shall be admitted into the four -semester postgraduate programme in Business Economics.
- 2. The programme shall include two types of courses; Core courses and Elective Courses.
- 3. There are 17 core courses and 3 groups-wise electives with three courses. The core courses are designed to provide students with rigorous academic training, as well as with tools that can be used in policy analysis.
- 4. The elective courses shall be in the fourth semester. All the elective courses should hold same credit for a programme.
- 5. There shall be three groups of three Elective courses for the programme such as Group A, Group B and Group C.
- 6. The elective courses mainly aim to provide specialization in various Business Economics courses such as applied, mathematical stream, advanced microeconomics and business management. The department will offer any one group in the fourth semester.
- 7. The selection of courses from different groups are not permissible.
- 8. Course evaluation would consist of seminar presentations, assignments, written examinations, Project and viva-voce.
- 9. There shall be a Project with a dissertation to be undertaken by all students.
- 10. The student shall submit one assignment as an internal component for every course.
- 11. The PG student may deliver one seminar lecture as an internal component for every course.
 - PROGRAMME STRUCTURE & SYLLABUS PGCSS 2020-MA BUSINESS ECONOMICS

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- 12. Every student shall undergo two class tests as an internal component for everycourse.
- 13. Total credits for the programme are eighty (80). No course shall have more than four
- (4) Credits.
- 14. Project shall be completed by working outside the regular teaching hours. Project shall be carried out under the supervision of a teacher in the department concerned. A candidate may, however, in certain cases be permitted to work on the project in an industrial / research organization on the recommendation of the Supervisor. There shall be an internal assessment and external assessment for the project.
- 15. The external evaluation of the dissertation work is followed by the presentation of work including dissertation and viva-voce.
- 16. Comprehensive viva voce shall be conducted at the end of the programme. This shall cover questions from all courses in the programme.
- 17. The weight for the Internal Evaluation of Theory Project/Comprehensive viva-voce is 5 and the External evaluation of Project /Comprehensive viva-voce is 15 and its maximum Weighted Grade Point (WGP) is 25 and 75 respectively. The Internal External ratio is 1:3.
- 18. There shall be no separate minimum grade point for internal evaluation.
- 19. The minimum requirement of aggregate attendance during a semester for appearing the end semester examination shall be 75%.
 - The programme shall include a study tour for students, which can be done during any semester. The tour shall be to research institutions/industrial sites, extending for a maximum of five working days, excluding journey time.

7. THE SEMESTER-WISE COURSE DETAILS

Course Code	Title of the Course	Type of the Course	Hours per week	Credits
	FII	RST SEMESTE	R	
	Microeconomics-I	Core	05	04
	Macroeconomics-I	Core	05	04
	Development Economics	Core	05	04
	Indian Economy	Core	05	04
	Mathematical Methods for Economic Analysis	Core	05	04
		OND SEMEST	FR	
	Microeconomics-II	Core	05	04
	Macroeconomics- II	Core	05	04
	Public Economics	Core	05	04
	Management Concepts and Organisational Behaviour	Core	05	04
	Statistical Methods for Economic Analysis	Core	05	04
<u>, </u>		IRD SEMESTE	ER	
	International Economics	Core	05	04
	Econometrics-I	Core	05	04
	Research Methodology in Business Economics	Core	05	04
	Environmental Economics	Core	05	04
	Investment Analysis and Portfolio Management	Core	05	03
T		RTH SEMEST		~ .
	International Finance	Core	05	04
	Econometrics-II	Core	05	04

	ELECTIVE (Credit 3x3=9)			
GROUP A	GROUP B	GROUP C		
Agricultural Economics	Marketing Management	Financial Economics		
Industrial	Human Resource	Game Theory and Its		
Economics	Management	Economic Applications		
Labour Economics	Project Management &	Economics of		
	Entrepreneurial	Business		
	Development	Strategy		

Project/Dissertation	Core	Credit	02
Comprehensive Viva -Voce	Core	Credit	02
	Total weight	of the course	80

8. Pattern of Questions

The question paper for final assessment will be of three hours duration and will consist of three parts. The question shall be prepared in such a way that the answers can be awarded A+, A, B, C, D, E grades. There shall be no separate minimum grade point for internal evaluation of Theory, Project, and Comprehensive viva-voce. A question paper may contain short answer type/annotation, short essay type questions/problems and long essay type questions.

Weight: Different types of questions shall be given different weights to quantify their range as follows:

Sl.No.	Type of Questions	Weight	Number of questions to be answered
1.	Short Answer type questions	1	8 out of 10
2.	Short essay/ problem solving type questions	2	6 out of 8
3.	Long Essay type questions	5	2 out of 4

All questions shall be set in such a way that the answers can be awarded A+, A, B, C, D, E grade.

9. Direct Grading System

Direct Grading System based on a 7 – point scale is used to evaluate the performance (External and Internal Examination of students). For all courses (theory & practical) / semester/overall programme, Letter grades and **GPA/SGPA/CGPA** are given on the following scale:

Range	Grade	Indicator
4.50 to 5.00	A+	Outstanding
4.00 to 4.49	A	Excellent
3.50 to 3.99	B+	Very good
3.00 to 3.49	В	Good (Average)
2.50 to 2.99	C+	Fair
2.00 to 2.49	С	Marginal
up to 1.99	D	Deficient (Fail)

No separate minimum is required for Internal evaluation for a pass, but a minimum **C** grade is required for a pass in an external evaluation. However, a minimum **C** grade is required for pass in a course.

10.1. Evaluation first stage - Both internal and external (to be done by the teacher)

Grade	Grade Points
A+	5
A	4
В	3
С	2
D	1
Е	0

10.2. Theory-External

Maximum weight for external evaluation is **30.** Therefore, Maximum Weighted Grade Point (WGP) is **150.** Weight: Different types of questions shall be given different weights to quantify their range as follows:

Sl.	Type of Questions	Weight	Number of questions to be answered
1.	Short Answer type questions	1	8 out of 10
2.	Short essay/ problem solving type questions	2	6 out of 8
3.	Long Essay type questions	5	2 out of 4

10.3 Theory (Internal) - Components and Weightage

	Components	Weightage
i.	Assignment	1
ii.	Seminar	2
iii.	Best Two Test papers	1 each (2)
	Total	5

(For test papers all questions shall be set in such a way that the answers can be awarded A+, A, B, C, D, E grade.)

11. Project- External: Components and Weightage

The project is evaluated by one external and one internal examiner. The dissertation of the project is examined along with the oral presentation of the project by the candidate. The different weight for assessment of different components is shown in below.

Components	Weightage
Relevance of the topic and analysis	3
Project content and presentation	7
Project viva	5
Total	15

11.1 Project- Internal: Components and Weightage:

Internal evaluation of the dissertation will be based on the following criterion

Components	Weightage
Relevance of the topic and analysis	2
Project content and presentation	2
Project viva	1
Total	5

11.2Comprehensive viva-voce (External)-components and weightage

Components	Weightage
Course viva (all courses from first semester to fourth semester)	15

Total	15

12. Comprehensive viva (Internal)- Components and Weightage

Comprehensive viva-voce shall be conducted at the end of the programme. Viva-voce shall be conducted by one external examiner and one internal examiner. The viva-voce shall cover questions from all courses in the programme. There shall be no internal assessment for comprehensive viva-voce.

Components	Weightage
Course viva (all courses from first semester to fourth semester)	5
Total	5

13. Dissertation Format

Dissertation: Master of Arts (MA) in Business Economics

The dissertation shall be prepared in the following format.

General	Guidelines
1	General Introduction to the Study
2	Review of Literature
3	Research Gap
4	Statement of the problem
5	Significance of the Study
6	Formulation of Research Questions /Issues
7	Research objectives
8	Hypotheses
9	Conceptual Framework – Conceptualization & Operationalization (precise and specific meaning of the terms and concepts)
10	Theoretical framework
	Analytical Framework
11	Data source (Primary/Secondary)
12	Sampling framework
13	Pilot Survey, if needed

14	Tools of analysis (Analytical Framework)
15	Limitations of the study
16	Chapter outlines
	Chapters
17	Situating the Study
18	Discussion of the Results
19	Major findings, Summary, Recommendations (if any) and Conclusion
20	Bibliography /References &Webliography
21	Appendices

1.1. Title page	1.2 P	reface		
Title of the project	1.3 Table of contents			
Name of the candidate	a.	List of Tables		
Name and designation of the supervisor	b.	List of Figures		
Degree for which project is submitted	c.	Glossary.		
Name of the College	d.	List of abbreviations		
Month and year the project is presented	e.	Acknowledgment		
Declaration of the student				
&supervisor	page)			
1.5 The Main Text				
Introductory Chapter: Items 3 to 16	6 mentioned abo	ve		
b. Other Chapters- Analysis, Resul	ts Interpretation			
c. Conclusion Chapter: Conclusion	s, Recommenda	tions &Summary		
1.6 End Notes (after each Chapter)				
1.8 Appendices				
Questionnaire	Codir	ng Frame (optional)		
Interview Schedule	Letter	rs sent to sample members (optional)		

Observation Schedule (optional)	Any Other			
L	ength of the Project			
a. Report length 40 to 50 pages excluding	g Appendix and Certificates			
b. Alignment: Justify				
c. Font: Times New roman	c. Font: Times New roman			
d. Font size: 12				
e. Line spacing: 1.5				
f. Double line Page Border				
* Style of The Report: • Chicago Manual	of Style (CMS) or American Psychological			
Association Style (APA)				

Departmental Requirement

(To be kept at the Department by the Supervisor)

Supervisor- Student Meeting Log

Date/Time	Discussion Areas	Summary of Discussions	Signature of the
			Supervisor
	Topic selection		
	Clarify Objectives		
	Literature Review		
	Seminar 1		
	Research Design		
	Collect Data		
	Analyze Data		
	Write up		
	Supervisor's		
	Comments		
	Final Draft -		
	Seminar 2		

Name of the Supervisor:

Name of the Student:

Notes: The dissertation work may be started in the Third Semester itself for timely completion of the work at the end of the IV Semester.

FIRST SEMESTER

Course Code	Title of the Course	Type of the Course	Hours per week	Credits
	Microeconomics-I	Core	05	04
	Macroeconomics-I	Core	05	04
	Development Economics	Core	05	04
	Indian Economy	Core	05	04
	Mathematical Methods	Core	05	04
	for Economic Analysis			

Semester	Course Code	Course Title	Type of course	Credit	Teaching Hours		
I		Microeconomics-I	Core	4	90		
	Course Objectives						

The purpose of this course is to provide students with a solid understanding of modern microeconomic theory. The course presents a rigorous treatment of the principles governing individual behaviour, market structure, and game theory. The cardinal end of the course is to equip the students themselves in a comprehensive manner with the multiple facets of the Modern Microeconomic theory and the applications of theories in analyzing current economic problems and to develop the ability to synthesize knowledge. In a abroad sense, it provides an intuitive platform for what students will learn in the courses that follow. The emphasis will be on thinking like an economist and the course will illustrate how microeconomic concepts can be applied to analyses real-life situations. By the end of this course, the student is expected to be familiar with basic concepts of microeconomics and acquire analytical skills to analyses problems of economic policy. Besides, students should be able to demonstrate: (i) an understanding of relevant microeconomic concepts; (ii) a capacity to explain and evaluate critically theoretical arguments.

Unit-1 Theory of Consumer Behaviour

(25 Hours)

- 1.1 The Slutsky Equation- Compensated and Uncompensated Demand Function- Indirect Utility Function- Ray's Identity- Duality in Consumer Theory.
- 1.2 The Pragmatic Approach to Demand Theory Constant Elasticity Demand Function.
- 1.3 Dynamic Versions of Demand Function; Nerlove, Houthakker and Taylor-Linear expenditure system.
- 1.4 Consumer Choices Involving Risk and Uncertainty, Time and Characteristics -Bernoulli Hypothesis, Neumann and Morgenstern Index, Friedman and Savage hypothesis, Markowitz hypothesis.
- 1.5 Inter-temporal Substitution effect- Choices Involving Time- Time Allocation model-Attributes model of Kevin Lancaster
- 1.6 Network Externalities Bandwagon, Snob and Veblen Effects

Unit- 2: Theory of Production and Cost Production Function

(20 Hours)

2.1 Homogenous and Non-Homogenous Production Functions –A brief account of Production function of a single product firm- Production function of a multi-product firm (with

illustration)

- 2.2 Empirical production functions Cobb-Douglas Production Function Constant Elasticity Substitution Production Function—Variable Elasticity of Substitution (VES) Production Function-- Homothetic Production Function
- 2.3 A summary of Short- run and Long-run cost in Traditional and Modern Microeconomic Theory (without illustration)
- 2.4 The L shape Scale curve- Engineering production function and Engineering cost curves (with illustration). Learning Curve- Returns to Scope

Unit- 3: Oligopoly and Economic Behaviour of Firm

(30 Hours)

- 3.1 Oligopoly–Price and Output Determination; Collusive and Non-collusive oligopoly
- 3.2 A brief account of collusive Oligopoly (Cartels and Price Leadership)
- 3.3 Oligopoly with Homogeneous Product-Cournot, Bertrand & Stackelberg Model
- 3.4Oligopoly with Non-homogeneous Product-Chamberlin's model, Sweezy's Kinked Demand Curve. The Contestable Market Theory- Baumol
- 3.5 Theory of Games-Strategies Zero-Sum Game & Non-Zero-Sum Game -Prisoner's Dilemma - Nash Equilibrium- Game Theory Applications - Important Issues in Game Theory - Cooperation, Competition.

Unit- 4: Theories on Distribution

(15 Hours)

- 4.1 Marginal Productivity Theory and Product Exhaustion Problem: Euler's-Clark-Wicksteed-Walras
- 4.2 Macro theories of distribution -Ricardo-Marx- Kalecki Kaldor.

Reference:

- A. Koutsoyiannis (1985): Modern Microeconomcis, 2nd Ed, MacMillan 1. Education (Reprint).
- 2. Andreu Mas-Colell, Michael D. Whinston and Jerry R. Green (2005): Microeconomic Theory, OUP.
- 3. Austan Goolsbee, Steven Levitt and Chad Syverson (2013): Microeconomics, Worth **Publishers**

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- 5. Christopher Snyder, Walter Nicholson and Robert Stewart (2015): Microeconomic Theory: Basic Principles and Extensions, Cengage Learning.
- 6. David Besanko and Ronald R.Braeutigam (2014): Microeconomics, 4th Ed, John Wiley and Sons, Inc.
- 7. Genaro C. da Costa (2005): Value and Distribution in Neoclassical and Classical System, 2nd Ed, Himalaya Publishers, Mumbai.
- 8. Geoffrey A. Jehle and Philip J. Reny (2014): Advanced Microeconomic Theory 3rd Ed, Prentice Hall.
- 9. Gibbons, R. (1992): Game Theory for applied economists, Princeton University Press.
- 10. Hal R. Varian (2014): Intermediate Microeconomics with Calculus, 1st Ed, W. W. Norton & Company.
- 11. Henderson, M. and R.E. Quandt (1989): Microeconomic Theory: Mathematical Approach, 3rd Ed, McGraw Hill.
- 12. Jeffrey M. Perloff (2016): Microeconomics with Calculus, 3rd Ed, Pearson.
- 13. Judy A. Whitehead (2015): Microeconomic: A Global Text, Routledge.
- 14. Mike Rosser (2011): Microeconomics: The Firm and the Market Economy, MacMillan
- 15. Robert Awh (2001): Microeconomics, John Wiley.
- 16. Robin Bade and Michael Parkin (2017): Foundations of Microeconomics, 7th Ed. Pearson.
- 17. Saul Estrin, David Laidler and Michael Dietrich (2016): Microeconomics.5th Ed. Prentice Hall
- 18. Snyder and Nicholson (2016): Microeconomic Theory: Basic Principles and Extensions, 11th Ed, Pearson.
- 19. Steven E. Landsburg (2017): Price Theory and Applications, 8th Ed. Cengage Learning.
- 20. Thomas J Nechyba (2010): Microeconomics: An Intuitive Approach with Calculus-1stEdition, South Western Cengage Learning.
- 21. William A. McEachern (2017): Principles of Microeconomics, 4th Ed, Cengage Learning.
- 22. Mas-Colell A, Whinston M and J. Green (2012): Microeconomic Theory, Oxford University Press.
- 23. David M. Kreps, (1990) A Course in Microeconomic Theory, Princeton University Press.
- 24. Broadway, R. W and N.Bruce (1984), Welfare Economics, Basil Blackwell, Oxford

Semester	Course Code	Course Title	Type of course	Credit	Teaching Hours
I		Macroeconomics - I	Core	4	90
Course Objectives					

This course provides a rigorous framework for understanding the aggregate economy in both the short run and the long run. The objective of the course is to provide an overview of modern macroeconomics at the post-graduate level, to show how this body of theory can be adapted to the characteristics of developing economies. Another objective of the course is to familiarize the students with the contribution of various schools of thought in macroeconomics. The first part of the course is intended to present a thorough understanding of three outstanding orthodoxies, viz, Classical, Keynesian, Modern Neo- classical synthesis, Neo Keynesianism and Monetarism. The course structure covers the major debates and controversies intend to provide a wider vision of the present discourses in macroeconomics. The course will help to develop the aptitude to relate concepts with research and policy. The course aims to introduce students to key concepts, methodologies, theories, and techniques in modern macroeconomic analysis. Particular emphasis is placed on the modeling techniques of some of the theoretical models used widely in the analysis of economic growth, consumption, and investment. At the end of this course, students should be able to (i) know of the major issues as they arise in the field of macroeconomics, (ii) understand alternative approaches to modeling consumption, and investment, (iii) critically evaluate the usefulness of macroeconomic techniques.

Unit- 1: Classical versus Keynesian Approach

(40 Hours)

- 1.1 Classical: Labour Market-Employment and Output-Say's Law- Interest Rate-Quantity Theory of Money: Neutrality of Money and Classical Dichotomy. (Self-Study)
- 1.2 Keynesian Fixed Price Models: Keynesian Cross Model (Three Sector Model) and IS-LM Model: Liquidity Trap- Fiscal and Monetary Policies- Crowding Out Effect.
- 1.3 Keynesian Flexible Price Model: AD-AS Framework-Policy Implications-Multiplier: T and G-Multiplier, Balanced Budget Multiplier-Built-in-Stabilizers-Ricardian Equivalence.
- 1.4 Labour Market: Classical versus Keynes -Keynes Effect and Real Balance Effect
- 1.5 Inflation: Inflationary Gap-Demand-Pull and Cost-Push Inflation-Phillips Curve: Lipsey's excess-demand model - The Samuelson-Solow modification of the Phillips curve- Tobin's views on Phillips curve- Strategies to control inflation.
- 1.6 Neo-Keynesian Analysis (Disequilibrium Models): Walrasian Vs. Keynesian Models. Effective Demand and Notional Demand ---Incompatibility of Walras Law and Neoclassical Synthesis of Keynes's General Theory- Disequilibrium models of Robert Clower- Leijonhufvud's, Barro-Grossman and Malinvaud.

Unit- 2: Monetarism (10 Hours)

2.1 Main Propositions of Monetarism—Friedman's Re-statement of Quantity Theory of Money - Monetarist Inflation Theory - Adaptive Expectation Hypothesis

- 2.2 Monetarism and the Philips Curve: The Friedman-Phelps Expectations-Augmented Phillips Curve -Natural Rate of Unemployment Hypothesis-Accelerationist Hypothesis and NAIRU.
- 2.3 Policy Implications- Business Cycles and Monetary Policy: -Rule Versus Discretion-Cold Turkey versus Gradualism-Taylor rule-Inflation Targeting.

Unit- 3: Demand for Money and Supply of Money

(20 Hours)

- 3.1Theoretical Approaches to the Demand for Money: The Classics, Keynes, and Friedman.
- 3.2Transactions Theories of Money Demand: The Baumol Model-The Shopping-Time Model -Cash-in-Advance Models.
- 3.3 Tobin's Portfolio Theories of Money Demand- Buffer Stock Demand for Money: Akerlof and Milbourne (A-M) Model, Miller and Orr(M-O) Model.
- 3.4 Supply of Money: Financial Intermediation- Mechanistic Model of Bank Deposit Determination- Behavioural Model of Money Determination- Demand Determined View of Money Supply Process.
- 3.5 Measures of money supply; H- theory of money supply- Money Multiplier and Its Determination- Methods of Monetary Control- RBI Approach -- High Powered Money-Inside and Outside Money--Money Supply Determination in an Open Economy.

Unit- 4: Behavioural Foundations of Macroeconomics

(20 Hours)

- 4.1 Consumption Function: Current Income Theories (Absolute Income Hypothesis of Keynes, Kuznets's Consumption Puzzle, Drift Hypothesis of Smithies and Relative Income Hypothesis of Duesenberry). (Self-Study)
- 4.2. Fischer's Intertemporal Choice Model.
- 4.3 Normal Income Theories: Permanent income Hypothesis of Friedman and Life Cycle Hypothesis of Modigliani et.al -Robert Hall's Random Walk Hypothesis. (Self-Study)

4.4 Investment Function: Keynes's Investment Theory– MEC Approach - Accelerator Theory of Investment -Capital Stock Adjustment Principle - Financial Theory of Investment -Tobin's Q Ratio- Modigliani-Miller Theory -Metzler Inventory Cycle Model---Jorgenson's Neoclassical Investment Model.

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- 4. Carlin, Windy and Soskice, David (1990): Macroeconomics and the Wage Bargain: A modern Approach to Employment, Inflation, and the Exchange Rate, OUP. (Unit-1,2)
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- 6. D'Souza, Errol (2012): Macroeconomics, 2nd Ed. Pearson India. (Unit-4)
- 7. De Vroey, Michel (2016): A History of Macroeconomics from Keynes to Lucas and Beyond, CUP. (Unit-1& 2)
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- 25. Levacic, Rosalind and Rebmann, Alexander (1982): Macroeconomics: An Introduction to Keynesian- Neo-Classical Controversies, 2nd Ed, MacMillan (Unit-1,2 & 4)
- 26. Lewis, Mervyn and Mizen, Paul D (2000): Monetary Economics, OUP. (Unit-3)
- 27. Makinen, Gail E. (1977): Money, The Price Level, and Interest Rates: An Introduction to Monetary Theory, Prentice Hall Inc. (Unit- 1,2 & 3)
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- 31. Pierce, David G. and Tysome, Peter J (1985): Monetary Economics theories, evidence and policy, Butterworth. (Unit-3)
- 32. Pierre Picard (1993): Wages and Unemployment: A Study in Non-Walrasian Macroeconomics, Cambridge University Press. (Unit- 1& 2)
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- 38. Todd A. Knoop (2015): Business Cycle Economics: Understanding Recessions and Depressions from Boom to Bust, Praeger.
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- 40. Venieris, Yiannis P and Sebold, D Frederick (1977): Macroeconomics: Models and Policy, John Wiley and Sons. (Unit-3 &4)
- 41. Westaway, A J and Jones, T G Weyman (1977): Macroeconomics theory, evidence and policy, Longman. (Unit- 1,2, 3 &4)
- 42. Williamson, Stephen D. (2018): Macroeconomics, 6th Ed, Pearson. (Unit-1,2)

Semester	Course Code	Course Title	Type of course	Credit	Teaching Hours
I		Development Economics	Core	4	90
Course Objectives					

Development economics is an exciting and challenging branch of Economics. The approach of this course is to provide a comprehensive introduction to the theoretical paradigms of economic development. In a fast-moving global economic order, there is a persistent demand to synchronize the approaches, theories and development issues for a better understanding of the problems of the developing economies. By its very nature, the scope is interdisciplinary in nature, incorporating noneconomic dimensions like culture, norms, and values as well as political, historical and social processes. The discourse, however, is essentially based on the logic and theoretical framework of standard economic analysis. The objective of this course is to familiarize students with the conceptual routes, theoretical dynamics and practical strategies of growth and development. It is expected that this course would orient them towards major themes of development, lead them towards more methodical probes and equip them with adequate analytical knowledge. The aim of this course is to provide an advanced treatment of the main issues, concepts and techniques in modern growth theory. At the end of this course, students should be able (i) to understand and critically evaluate alternative theories of growth.(ii) show a clear understanding of the recent literature, both empirical and analytical, on theories of underdevelopment and growth in developing countries;(iii) be able to evaluate critically some of the results in the literature, particularly those related to development issues.

Unit -I: Economic Development –Overview (Self-Study) (10 Hours)

- 1.1 Meaning and measurement of economic development: conventional, human development index (Human Development Index, Gender Related Development Index, Gender Empowerment Measure, Gender Inequality Index, Human Poverty Index).
- 1.2 Quality of life indices: Entitlements approach- Capabilities and Functioning- Development as Freedom- Human Rights-Based Approach- Three Core Values of Development
- 1.3 Development Gap -Inequality in income distribution- Kuznets Inverted U hypothesis-Lorenz Curve and Gini-coefficient - Concept of Sustainable Development.

Unit- 2: Theories of Underdevelopment

(25 Hours)

- 2.1 Vicious Circle of Poverty—Dualistic Theories. Social Financial and Technical Dualism Prebisch- Singer thesis and Myrdal thesis: Backwash and spread effect- Circular and cumulative causation- Rostow's stages of growth. —Vent for Surplus theory of Hla Myint—Stable Theory –the Dutch Diseases.
- 2.2 Rural-urban migration and urban unemployment (Harris-Todaro model).

2.3 Political Economy of Underdevelopment (Theory of dependency): Paul Baran, Gundar Frank, Samir Amin and Emmanuel Wallerstein (World systems approach).

Unit- 3: Theories of Development and Growth

(25 Hours)

- 3.1. Classical Theory of Development-Adam Smith, David Ricardo, Karl Marx and Schumpeter.
- 32. Theories of Economic Growth: Harrod-Domar Model.
- 33. Neo-Classical Growth Models Solow and Meade.
- 34. Cambridge Growth Models: Mrs. Joan Robinson's and Kaldor's Growth Models.
- 35.Endogenous Growth Models: (Ramsey, Romer; Uzawa-Lucas, AK, Arrow's Model, Grossman and Helpman's model, Aghion and Howitt).

Unit-4: Approaches to Development

(20 Hours)

- 4.1. Theory of Big Push- Critical Minimum Effort Thesis- Low Income Equilibrium Trap. Balanced and Unbalanced Growth. (Self-Study)
- 4.2. Development with Unlimited Supply of Labour, Ranis and Fei Model Michael Kremer's O-Ring Theory of Economic Development-- The Jorgenson model and Dixit-Marglin model.

Unit-5: Critical Issues in Development Process

(10 Hours)

- 5.1 Role of Financial Institutions in Economic Development: (Acemoglu and Zilibotti model)
- 5.2 Globalization and Development: Views of Stiglitz.
- 5.3 Development and Human Rights
- 5.4 Social Capital and Development.
- 5.5 Corruption, Crime, Social Exclusion and Development.
- 5.6 Climate Change and Development.
- 5.7 Energy and Development.

Reference:

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- Adam Szirmai (2014): The Dynamics of Socio-Economic Development: An Introduction, 2nd Ed, Cambridge University Press.
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Semester	Course code	Course Title	Type of course	Credit	Teaching Hours
I		Indian Economy	Core	4	90
Course Objectives					

This course offers an analytical introduction to the main aspects of the Indian economic policy and performance in the post-independence period. It focuses on Indian economic problems in the light of relevant economic theories, and in a comparative perspective. The course is expected to enable the students to appreciate the evolution of the economy, its institutional framework, nuances in using statistical information for analyzing public policy, and to get familiar with the issues for research. This course also enables the students to understand the pre-reform and postreform development experience of the Indian Economy. A thorough understanding of Indian economic policies is a must for post-graduate students of economics and that is what this course aims to develop among the students.

Unit-1 – Structure and Growth of the Indian Economy

(15 Hours)

- 1.1 India's Economic growth in historical perspective.
- 1.2 National Income growth and measurement Database on Indian Economy.
- 1.3 Economic Planning Development strategies planning and development debates planning and import substitution -Rationale - Achievements - failures on crisis of 1991.
- 1.4 Economic Reforms Structural Adjustment Programmes Neo-liberalism in India-Disinvestment Policy - PPP-impact of 25 years of reforms on various sectors of the economy- NITI Aayog- and its structure, NITI Aayog Verses Planning Commission.
- 1.5 State-Local financial relations in India.

Unit-2: Agriculture and Industry

(15 Hours)

- 2.1 Productivity in agriculture; Land reforms; New technology in Indian agriculture-Green Revolution- Need for second Green Revolution; Modern farm inputs and marketing-; Commercialization and diversification.
- 2.2 Agricultural Finance and Marketing – globalization and Indian Agriculture —-New Agricultural Policy- WTO and- Indian Agriculture- Current Issues in Indian agriculture. Investments and subsidies in Indian agriculture- Agrarian distress and related issues- Govt. Supports and schemes in agriculture sector.
- Industrial Growth Trends patterns and structure industrial stagnation debates-31 PROGRAMME STRUCTURE & SYLLABUS PGCSS 2020-MA BUSINESS ECONOMICS

Industrial Policies in India- Reforms in industrial sector – industry under globalization-Research and development – Technology transfer – Make – in – India initiatives- Small and Medium Scale Industries (MSMEs)- Role, problems and remedies- Role of FDI in industrialization process- ICT based industrial development strategy- Public Sector Enterprises -Make in India.

Unit-3: Service Sector and Infra-Structure

(15 Hours)

- 3.1. Growth and performance of service sector in India – Pre and post-Independence period
- 3.2. Health and Education Infrastructure - Efficacy of social sector spending in India along with its implication for inclusive growth.
- 3.3. Energy, Transport, Telecommunication- recent infrastructure policy – Inadequacies and structural bottlenecks in infrastructure development- Trade in services- Global technological change and Indian IT boom. Challenges of India's Service sector.

Unit-4. Trade and External Sector

(15 Hours)

- 4.1. Evolution of trade policies since independence.
- 4.2. External Sector reforms Trade reforms changing structure, composition and direction of India's foreign trade – Balance of Payment; Exchange rate- India and WTO -EXIM policy – SEZ.
- 4.3. FII and FDI in India role of MNC's.

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- 2. Agarwal A N (2017), Indian Economy: Problems of Development and Planning, Vikas 2. Publishing House, New Delhi.
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- 81. Sangeeta Verma and P.C. Bodh (2018): Glimpses of Indian Agriculture, OUP
- 82. Sankar Kumar Bhaumik (2018): Reforming Indian Agriculture: Towards employment generation and poverty reduction Essays in Honour of G K Chandha, Sage India.
- 83. Saumya Chakrabarti (2016): Inclusive Growth and Social Change Formal–Informal–Agrarian Relations in India, OUP
- 84. Sikdar, S (2013). Capital Flows and Foreign Exchange Rate Management. Oxford: New Delhi.
- 85. S.J. Byres (ed): The State, Development Planning and Liberalization in India, OUP.
- 86. The Ministry of Finance & Government (2018): Economic Survey 2017-18 (Volume 1 and Volume 2), OUP.
- 87. Time Dyson (2018): A Population History of India From the First Modern People to the Present Day, OUP.
- 88. Uma Kapila (2018): Indian Economy: Performance and Policies, 2018-19.
- 89. Uma Kapila (2019): Indian Economy Since Independence: A comprehensive and critical analysis of India's economy, 1947-2017 (Academic Foundation)
- 90. Vaidyanathan, A (2010): Agricultural Growth in India: The Role of Technology, Incentives and Institutions, OUP, New Delhi.
- 91. Vijay Joshi (2016): 'India's Long Road: The Search for Prosperity'. Penguin Random House, New Delhi.
- 92. Vijay Joshi and I. M. D Little (2018): India's Economic Reforms, 1991-2001, OUP.
- 93. Zaad Mahmood (2017): Globalization and Labour Reforms: The Politics of Interest Groups and Partisan Governments, OUP.

Semester	Course code	Course Title	Type of course	Credit	Teaching Hours
I		Mathematical Methods for Economic Analysis	Core	4	90
		Course Ohio	ativos		

Course Objectives

This is a course on the basic mathematical methods necessary for understanding modern economics literature. Mathematics provides a logical, systematic framework within which quantitative relationships may be explored, and an objective picture of the reality may be generated. The deductive reasoning about social and economic phenomena naturally invites the use of mathematics. Among the social sciences, economics has been in a privileged position to respond to that invitation, since two of its central concepts, commodity, and price, are quantified in a unique manner. Thus, a good understanding of mathematics is indispensable for better cognizance of almost all fields of economics, both applied and theoretical. The goal of the course is to make students understand, assimilate and thus capable of using the mathematics required for studying economics at the master's level. This course will focus on developing the mathematical tools that are used extensively in Microeconomics, Macroeconomics, and Econometrics. Students should be given an introduction to the Linear algebra, Differential Calculus, Integral Calculus, etc. These mathematical methods would help students in their understanding of advanced and core courses in Economics. The aim of this course is to: (i) introduce the students to several mathematical tools used in modern economics; (ii) illustrate the use of these tools by applying them to various well-known economic models; and (iii) complement the core postgraduate microeconomic and macroeconomic theory courses. Learning outcomes: On completion of this unit, successful students should be able to demonstrate understanding of static optimization and dynamic systems applicable to economics.

(15 Hours) **Unit-1: Linear algebra**

- 1.1. Definitions of vector and matrix.
- 1.2. Types of matrices, Addition, subtraction and multiplication of matrices.
- Determinants, Minors, Cofactors, Adjoint and Inverse of a matrix. 1.3.
- 1.4. Solution of a system of linear equations - Cramer's rule and Inversion method.
- Rank of a matrix -Linear independence of vectors. 1.5.
- 1.6. Some applications in Economics - Input -output analysis - Partial equilibrium market model.

Unit-2: Differential Calculus

(25 Hours)

- 2.1 Limit of a function Derivative of a function.
 - 2.2 Rules of differentiation Higher order derivatives L'Hospital rule of finding the limit of a function
 - 2.3 Differentiation of implicit function Partial and total derivative of a function with several variables
 - 2.4 Maxima and minima of a function.
 - 2.5 Curvature properties Convexity and concavity Points of inflection.
 - 2.6. Properties of homogeneous functions Euler's theorem.
 - 2.7. Matrix calculus: Rules of Matrix differentiation, differentiation of a matrix by a scalar, differentiation of a scalar by a matrix
 - 2.8. Some applications in Economics- Derivation of Marginal cost, Marginal revenue functions
 - Derivation of point elasticity, tax yield and income multiplier, problems relating to indifference curve and isoquant. Production function, utility functions, cost functions. Cobb-Douglas production function, CES production function - Comparative static analysis of market model, national income model, input output model, determination of partial elasticities of demand.

Unit-3: Integral Calculus

(25 Hours)

- 3.1. Indefinite integrals rules of integration, initial conditions and boundary conditions
- 3.2. Integration by substitution, Integration by parts Integration of natural exponential functions.
- 3.3. Definite integrals properties of definite integrals
- 3.4. Area under a curve, area between curves
- 3.5. Difference equations and differential equations (basic concepts only).
- 3.6. Improper integrals Beta and Gamma integrals.
- 3.7. Some applications in Economics Consumer surplus and producer surplus continuous interest-discount calculation. Cobweb model, multiplier accelerator. Harrod-Domar and Solow model.

Unit-4: Linear Programmeming

(25 Hours)

4.1 Formulation of LPP and solution using graphical and Simplex methods.

- 4.2 Duality theory constrained optimization with inequality and non-negativityconstrains
- 4.3 Kuhn-Tucker formulation. Primal and duel, shadow prices.
- 4.4 Applications from Economics and Finance.

Reference:

- 1. Akira Takayama Mathematical Economics, 2nd Ed, Cambridge University Press.
- 2. Allen, R. G. D. (2003), Mathematical Analysis for Economists, The Macmillan Press, Delhi.
- 3. Anthony M. and Biggs N. (1996), Mathematics for Economics and Finance, Cambridge University Press.
- 4. Carl P. Simon and Lawrence Blume (2014): Mathematics for Economists, Viva Books.
- 5. Chiang and Wainwright (2018): Fundamental Methods of Mathematical Economics, 4th Ed, McGraw-Hill.
- 6. Edward Dowling (2011): Schaum's Outline of Introduction to Mathematical Economics, 3rd Ed, McGraw-Hill.
- 7. Henderson, James M and Quandt, Richard E (1989)- Microeconomic Theory: A Mathematical Approach.3rd Ed, TMH (Indian Edition).
- 8. Holden K. and Pearson A.W. (1992): Introductory mathematics for Economics and Business, Second Edition, The Macmillan Press Ltd.
- 9. Hoy M. et.al. (2001), Mathematics for Economics, 2nd Ed, MIT Press.
- 10. Jacques I. (2006), Mathematics for Economics and Business, 5th Edition, Prentice Hall.
- 11. M. D. Intriligator (1996) Mathematical Optimization and Economic Theory, Prentice-Hall
- 12. Malcolm Pemberton and Nicholas Rav (2016): Mathematics for Economists, 4th Ed, Manchester University Press
- 13. Martin Timbrell (1985): Mathematics for Economists: An Introduction, Wiley- Blackwell.
- 14. Mike Rosser and Piotr Lis (2018): Basic Mathematics for Economists, 2nd Ed, Routledge.
- 15. Ok E. A (2007): Real analysis with Economic Applications, Princeton University Press
- 16. Peter N. Hess: Using Mathematics in Economic Analysis, Prentice Hall.
- 17. Renshaw G. (2009): Maths for Economics, 3rd Edition, Oxford.
- 18. Robert B. and D. L. Schultze (1973): Modern Mathematics and Economic Analysis, W.W. Norton and company.
- 19. Sydaester K., Hammond P. and Strom A. (2012), Essential Mathematics for Economic Analysis, 4th Ed, Pearson.
- 20. Ummer E.K (2012), Basic Mathematics for Economics Business and Finance, Routledge.
- 21. William Novshek (1993): Mathematics for Economists, Academic Press.
- 22. Yamane, Taro (2010) Mathematics for Economists: An Elementary Survey, PHI.

SECOND SEMESTER

Course	Title of the Course	Type of the	Hours	Credits
Code		Course	per	
			week	
	Microeconomics-II	Core	05	04
	Macroeconomics-II	Core	05	04
	Public Economics	Core	05	04
	Managerial Concepts and Organisational Behaviour	Core	05	04
	Statistical Methods for	Core	05	04
	Economic Analysis			

Semester	Course code	Course Title	Type of course	Credit	Teaching Hours		
II		Microeconomics – II	Core	4	90		
	Course Objectives						

This is the second part of the core Microeconomics Sequence. This course is designed to provide students with a sound understanding of advanced microeconomic theory. It will cover the aspects of microeconomic theory that is required to analyze contemporary economics issues and to create new models to explain the behavior of individuals, firms, and markets, and to evaluate economic policies. The topics will include alternative theories of firms' behavior, information, institutional, behavioral economics, theory of general equilibrium and welfare economics. This course is intended to acquaint the student with decision making in the context of market interdependence, complexity, uncertainty and informational asymmetry; give insights into developments in the areas of general equilibrium and welfare economics; and to enable the student to apply microeconomic principles in the areas of industrial organization, exchange, and welfare.

Unit- 1: Theories of The Firm

(20 Hours)

- 1.1. Why firms, their size and structure Ronald Coase-O Williamson
- 1.2.Team production approach by Armen Alchian and Harold Demsetz 1.3.Hierarchical structures- U form and M form

Unit- 2: Alternative Theories of The Firm's Behaviour

(25 Hours)

- 2.1. Hall and Hitch Report and Full Cost Pricing 2.2. Gordon's attack on Marginalism
- 2.3. Theory of Limit Pricing -Bain, Sylos-Labini, F. Modigliani, Bhagwati and Pashigian
- 2.4. Managerial Theories-W J Baumol- O Williamson Marris
- 2.5. Behavioural theories- March and Cyert-Contestable Market Theory by W.J. Baumol

Unit- 3: Institution, Information and Behavioural Economics

(30 Hours)

- 3.1. Information Economics-Asymmetric Information the market for Lemons- the Principal Agent Problem Moral Hazard, Adverse Selection-Screening and Market Signalling.
- 3.2. Adverse Selection in Labour Market A Simple Model of Educational Attainment-Adverse Selection in credit market.
- 3.3 Behavioural Economics-Classical and Neo-Classical views of human nature Cyert and March's behavioural model—framing -anchoring effect uncertainty
- 42 PROGRAMME STRUCTURE & SYLLABUS PGCSS 2020-MA BUSINESS ECONOMICS

- 3.4 Role of time and emotions in economic decisions role of constraints and information satisficing – bounded rationality - altruism and common good.
- 3.5 New Institutional Economics: Transaction costs Social cost vis-à-vis individual costs-Identification and measurements of transaction costs, Coase Theorem, Bounded Rationality
- 3.6 Concepts of Property and defining Property Rights- Problems of Ill-defined Property rights, Externalities-Market failure and property rights- Issues relating to ill-defined property rights
- 3.7 Contracts Rent Seeking-Incentives- Applications to Markets- the Firm and the State.

Unit- 4: General Equilibrium and Welfare Economics

(15 Hours)

- 4.1. Partial and General Equilibrium, Walrasian General Equilibrium System- Existence, Uniqueness and Stability of an Equilibrium-2x2x2 General Equilibrium Model- Static Properties of a General Equilibrium State- General Equilibrium and the Allocation of Resources- Prices of Commodities and Factors- Factor Ownership and Income Distribution
- 42 Exposition of Welfare theories- A C Pigou, Wilfredo Pareto, Kaldor-Hicks, Bergson-Samuelson, Scitovsky Double Criteria- Welfare Maximization and Perfect Competition-Critique and Extensions
- 43. Arrow's impossibility, Sen's Capability Theory, Rawl's theory of justice and equity-Nussbaum's Central Capabilities
- 44. Easterlin Paradox. Human Happiness index

Reference:

- 1. A. Koutsoviannis (1985): Modern Microeconomcis, 2nd Ed, MacMillan Education (Reprint).
- 2. Andreu Mas-Colell, Michael D. Whinston and Jerry R. Green (2005): Microeconomic Theory, OUP.
- 3. Austan Goolsbee, Steven Levitt and Chad Syverson (2013): Microeconomics, Worth Publishers (chapter 15- information economics -17 behavioural economics)
- 4. B. Douglas Bernheim and Michael D. Whinston (2016): Microeconomics, McGrawHill. (Chapter 14 transaction cost, information and behavioural economics. Chapter 18-information economics Chapter 9 information economics)
- 5. Christopher Snyder, Walter Nicholson and Robert Stewart (2015): Microeconomic Theory: Basic Principles and Extensions, Cengage Learning.
- 6. David Besanko and Ronald R. Braeutigam (2014): Microeconomics, 4th Ed, John Wiley and Sons, Inc.Edition, South Western Cengage Learning.Genaro C. da Costa (2005): Value and Distribution in Neoclassical and Classical System, 2nd Ed, Himalaya Publishers, Mumbai.

- 7. Geoffrey A. Jehle and Philip J. Reny (2014): Advanced Microeconomic Theory 3rd Ed, Prentice Hall.
- 8. Hal R. Varian (2014): Intermediate Microeconomics with Calculus, 1 st Ed, W. W. Norton & Company.
- 9. Hal R. Varian (2017): Intermediate Microeconomics: A Modern Approach, 10th Ed, WW Norton & Co, NY.
- 10. Henderson, M. and R.E. Quandt (1989): Microeconomic Theory: Mathematical Approach, 3rd Ed, McGraw Hill.
- 11. Jeffrey M. Perloff (2016): Microeconomics with Calculus, 3rd Ed, Pearson.
- 12. Judy A. Whitehead (2015): Microeconomic: A Global Text, Routledge.
- 13. Maria Moschandreas (1994): Business Economics, Cengage Learning.
- 14. Mike Rosser (2011): Microeconomics: The Firmand the Market Economy, MacMillan
- 15. Robert Awh (2001): Microeconomics, John Wiley.
- 16. Robin Bade and Michael Parkin (2017): Foundations of Microeconomics, 7th Ed, Pearson.
- 17. Saul Estrin, David Laidler and Michael Dietrich (2016): Microeconomics, 5th Ed, Prentice Hall (Chapter 25 Economics of Information)
- 19. Snyder and Nicholson (2016): Microeconomic Theory: Basic Principles and Extensions, 11th Ed, Pearson. (Chapter 18 Information Economics)
- 20. Steven E. Landsburg (2017): Price Theory and Applications, 8th Ed. Cengage Learning.
- 21. Thomas J Nechyba (2010): Microeconomics: An Intuitive Approach with Calculus. 22. William A. McEachern (2017): Principles of Microeconomics, 4th Ed, Cengage Learning.
- 23. Yew-Kwang Ng (2004): Welfare Economics: Towards a More Complete Analysis, Palgrave-Macmillan

Semester	Course Code	Course Title	Type of course	Credit	Teaching Hours	
II		Macroeconomics - II	Core	4	90	
Course Objectives						

Analyzing today's hot-button policy issues requires approaching macroeconomic theory with the models that researchers and policymakers employ. The second part of macroeconomics intendeds to present the students with a firm grounding in modern macroeconomic thoughts. It, therefore, pays special heed to the major developments in the classical and Keynesian orthodoxy with clear historical perspectives. Here the emphasis is both on competing hypotheses and analytical techniques. The principal objective of the course is to provide the students with an intuitive understanding of both the sources of controversies and how the debates have led to the development of modern macroeconomics. At the end of this course students should be able to: (i) Understand the strengths and weakness of the main macroeconomic tools and models used in modern macroeconomics; (ii) Learn to evaluate and critically compare results in alternative macroeconomic models; and (iii) Understand the importance and limitations of modeling assumptions for macroeconomic policy.

Unit-1: New Classical Macroeconomics

(20 Hours)

- 1.1. Main Propositions of NCM: The Rational Expectations Hypothesis-Continuous Market Clearing - The Lucas Supply Curve - Rational Expectations -
- 1.2. The New Classical Economics and the Business Cycle The Ineffectiveness of Government Intervention - The Lucas Critique
- 1.3. Monetary Policy in the NCM and the Philips Curve -Credibility and Dynamic Time-Inconsistency.

Unit- 2: Real Business Cycle and Supply-Side Economics

(20 Hours)

- 2.1. Real Business Cycles Model: Labour Market in RBC Model—Intertemporal Substitution.
- 2.2. AS- AD in RBC Model—Supply Shocks in RBC Model-- Technology Shocks- Neutrality of Money and Flexibility of Wages and Prices – Stabilization Policy
- 2.3. Supply side Economics: Main features- and Types of supply-side policies -Tax (Laffer Curve), incentive and production- SSE and role of the Government. 7

Unit- 3: New Keynesian School and Post-Keynesian Economics

(30 Hours)

- 3.1 New Keynesian School: Imperfect Competition and Price Setting Sticky Nominal Wages—Staggered Wage-Contract Theory.
- 45 PROGRAMME STRUCTURE & SYLLABUS PGCSS 2020-MA BUSINESS ECONOMICS

- 3.2 Sticky Price Model: Menu Costs and Demand Externality.
- 3.3 Sticky Real Wages: Asymmetric Information Model-Implicit Contract Theory- Insider Outsider Model and Hysteresis.
- 3.4 Efficiency Wage Theories of Involuntary Unemployment: Shapiro–Stiglitz Model Turnover Cost-Selective Theory—On the Job Efficiency -Shirking Theory and Coordination Failure- Policy Implications of NKE.
- 3.5 Search and Matching Models-DMP Model.
- 3.6 Post-Keynesian Economics (PKE): Essentials Characteristics of Post Keynesian Economics Various Strands of PKE- Principles of Effective Demand and Labour Market: Employment and Unemployment—Consumption Theory-Pricing Theory and Distribution of Income---Expectation—Investment Theory Money: Endogenous Supply of Money and Circuit Theory- Minsky's Financial Instability Hypothesis-Path Dependency and Hysteresis-Role of State- Fiscal and Monetary Policy in PKE

Unit- 4: Macroeconomic Theories of Business Cycles

(20 Hours)

- 4.1 Samuelson's Interaction between Multiplier and Accelerator. Hicksian theory of Cycles. Kaldor's model of Cycles. Goodwin's Non-Linear Model. Kalecki's Theory of Cycles and Dynamics of a Capitalist Society and Political business cycles.
- 4.2 The Great Recession of 2008: The Roots of the Current Crisis -Financial Innovation and Agency Problems in the Mortgage Markets. Asymmetric Information and Credit Rating Agencies-Residential Housing Prices (The Subprime Debacle)
- 4.3 Financial Deregulation and Securitization.

Reference:

- Agenor, Pierre-Richard and Montiel, Peter J. (2015): Development Macroeconomics 4th
 i. Ed, Princeton University Press, Princeton.
- 2. Bober, Stanley (1968): The Economics of Cycles and Growth, New York: John, Wiley and Sons
- 3. Carlin, Windy and Soskice, David (1990): Macroeconomics and the Wage Bargain: A modern Approach to Employment, Inflation, and the Exchange Rate, OUP.
- 4. Chirichiello, Giuseppe (1994): Macroeconomic Models and Controversies, The Macmillan Press Ltd.
- 5. Dilip M. Nachane (2018): Critique of the New Consensus Macroeconomics and Implications for India, Springer.
- 6. D'Souza, Errol (2012): Macroeconomics, 2nd Ed. Pearson India. (Module-II)
- 7. De Vroey, Michel (2016): A History of Macroeconomics from Keynes to Lucas and
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- Beyond, CUP.
- 8. Felderer, Bernhard and Homburg, Stefan (1987): Macroeconomics and New Macroeconomics, Springer-Verlag.
- 9. Galbraith, James, K and Darity, William Jr (1994): Macroeconomics, Houghton Mifflin Co, NJ.
- 10. Gärtner, Manfred (2009): Macroeconomics, 3rd Ed, Prentice Hall.
- 11. Ghatak, Anitha (1994): Macroeconomics: A Mathematical Approach, Concept Publishing Co, ND.
- 12. Harcourt, G. C. (2006): The Structure of Post-Keynesian Economics the Core Contributions of the Pioneers, CUP. (Module-III-B)
- 13. Heijdra, Ben J. (2017): Foundations of Modern Macroeconomics, 3rd Ed, OUP
- 14. Hillier, Brian (2006): Macroeconomics: Models, Debates and Development, Basil Blackwell.
- 15. Homburg, Stefan (2017): A Study in Monetary Macroeconomics, OUP.
- 16. Jansen, Dennis W and Delorme, Charles and Ekelund, Robert B, Jr (1994): Intermediate Macroeconomics, West Publishing Co.
- 17. Knoop, Todd A. (2015): Business Cycle Economics: Understanding Recessions and Depressions from Boom to Bust, Praeger.
- 18. Lavoie, Marc (2006): Introduction to Post-Keynesian Economics, Palgrave. (Module- III-B)
- 19. Lavoie, Marc (2014): Post-Keynesian Economics: New Foundations, Edward Elgar. (Module-III-B)
- 20. Levaccic, Rosalind and Rebmann, Alexander (): Macroeconomics: An Introduction to Keynesian- Neo-Classical Controversies, 2nd Ed, MacMillan
- 21. Paul Davidson (1994): Post Keynesian Macroeconomic Theory, Edward Elgar, 1994. (Module-III-B)
- 22. Peel, David and Minford, Patrick (2016): Advanced Macroeconomics: A Primer, Edward Elgar.
- 23. Pentacost, Eric (2000): Macroeconomics: An Open Economy Approach, Macmillan.
- 24. Peter Galba'cs (2015): The Theory of New Classical : Macroeconomics: A Positive Critique, Springer.
- 25. Peterson, Wallace C and Estenson, Paul S (1992): Income, Employment and Economic Growth, 7th Ed. W W Norton, NY.
- 26. Phelps, E. (1990): Seven Schools of Macroeconomic Thought, Oxford University Press, Oxford
- 27. Philip Arestis (1992): Post-Keynesian Approach to Economics, Edward Elgar (Module- III-B)
- 28. Richard P.F. Holt and Steven Pressman (2001) (Ed): A New Guide to Post Keynesian Economics, Routledge.
- 29. Romer, David (1996): Advanced Macroeconomics 4th Ed, McGraw-Hill.
- 30. Rousseas, Stephen (1999): Post Keynesian Monetary Economics MacMillan. (Module- III-B)
- 31. Scarth, William (2014): Macroeconomics: The Development of Modern Methods for Policy Analysis, Edward Elgar.
- 32. Snowdon, Brian and Vane, Howard R (1997): A Macroeconomics Reader, Routledge.
- 33. Snowdon, Brian and Vane, Howard, R (2005): Modern Macroeconomics: Its Origins, Development and Current State, Edward Elgar.
- 34. Taylor, Lance (2004): Reconstructing Macroeconomics: Structuralist Proposals and Critiques of the Mainstream, Harvard University Press.
- 35. Tsoulfidis, Lefteris (2010): Competing Schools of Economic Thought, Springer.
- 36. Westaway, A J and Jones, T G Weyman (1977): Macroeconomics theory, evidence and policy, Longman. (Module-IV 4.1.)

37. Williamson, Stephen D. (2018): Macroeconomics, 6th Ed, Pearson.

Semester	Course code	Course Title	Type of course	Credit	Teaching Hours		
II		Public Economics	Core	4	90		
Course Objectives							

Public economics is the study of government policy from the points of view of economic efficiency and equity. Public economics explores the economic effects of government tax and expenditure policies, as well as the optimal design of these policies. The primary objective is to teach the leading current tools and methods of public finance. The course covers major topics in public finance including externalities, public goods, benefit/cost analysis, fiscal federalism, taxation, and others. The course deals with the nature of government intervention and its implications for allocation, distribution, and stabilization. The thought content encompasses a host of topics including public goods, market failures, and externalities. The objective of this course is to familiarize students about the rationale for and role of government intervention in economic activities and how the government makes economic decisions. The course will also examine the recent developments in both theoretical and empirical literature in the area. At the end of this course, students should be able to demonstrate a clear understanding of established concepts and theoretical results on collective choice, optimal income taxation, and the effects of income redistribution on the provision of public goods. The course will be useful for students aiming towards careers in the government sector, policy analysis, business, and journalism.

Unit- 1: Role of State and Macroeconomic Perspective of Public Finance

(10 Hours)

- 1.1. Role of Government: Issues related to market failure and government intervention-Government failure.
- 1.2. Changing Role of State: Issues in Public Finance in a Globalizing World with special emphasis on Global Public Goods.
- 1.3. Macroeconomics of Public Finance: The Interaction between Fiscal and Monetary Policy and Fiscal Stabilization

Unit- 2: Economic Analysis of Public Goodsand externalities

(25 Hours)

- 2.1. Public goods: Pure and Impure Public Goods.
- 2.2. Market failure and Externalities- Types of Externalities, Coase Theorem and Property Rights, Free-Rider Problem
- 2.3 Optimal provision of public goods Voluntary Exchange Models Samuelson's contribution.
- 2.4 The Theory of Clubs and Local Public Goods- Tiebout Model
- 2.5 Voting and Public Choice Reasons for Public Choice- Public Choice under Direct
- **48** PROGRAMME STRUCTURE & SYLLABUS PGCSS 2020-MA BUSINESS ECONOMICS

- Democracy unanimity rule -Wicksell approach
- 2.6 Majority Rule Buchanan and Tullok model Bowen Black model
- 2.7 Preference Revelation Mechanisms Lindahl equilibrium- Groves-Clarke mechanism

Unit- 3: Economic Decision Making of Government

(15 Hours)

- 3.1. Normative social choice theory Arrow's theorem Majority Voting The Median Voter Model Representative Democracy -Downs Model on Demand and Supply of Government Policy- Niskanen Model of Bureaucratic Behavior
- 3.2. Positive Social Choice Theory: The Leviathan Hypothesis Theory of Rent Seeking Property Rights Dimension, Rent Seeking and X- Efficiency 3.3.Lobbying and Interest Groups.

Unit- 4: Fiscal Administration and Management

(25 Hours)

- 4.1. Incidence of Taxation Optimal Taxation Dead Weight Loss Equity Vs Efficiency-Theories of taxation: Benefit Theory, The Cost Service Theory and Ability to Pay Theory
- 4.2 Impact and Incidence of Taxation, Theories of Shifting- Diffusion Theory, Concentration Theory, Demand and Supply Theory.
- 4.3. Theories of Public Expenditure: Adolf Wagner- Wiseman- Peacock Colin Clark- Bowen Model, Lindahl Model, Pigou Model and Samuelson Model
- 4.4 Theories of Public debt: Classical Keynesian Modern 4.5.Burden of Public Debt-Intergenerational Equity –Buchanan Thesis
- 4.5 Measurement and Macroeconomic Impact of Deficits: Alternative Paradigms 4.7.Deficit concepts-Problem of fiscal deficit –Corrective measures-FRBM Act
- 4.6 Budgetary Policy in India- Stages involved in the preparation, presentation and execution of government budget A brief review of recent budgets in India
- 4.7. Recent trends in the fiscal parameters in India -Its macroeconomic implications

Unit- 5: Fiscal Federalism: Theory and Practice

(15 Hours)

- 5.1. Theory of Fiscal Federalism: The Decentralization Theorem
- 5.2. Theory of Intergovernmental Transfers
- 5.3. Issues of Indian Federalism and Intergovernmental Transfers in India- Vertical and Horizontal Imbalances.
- PROGRAMME STRUCTURE & SYLLABUS PGCSS 2020-MA BUSINESS ECONOMICS

5.4. Centre-State financial relations in India-Finance Commission and the recent most reports of the Finance commissions of India

Essential Readings:

- 1. Anthony B. Atkinson and Joseph E. Stiglitz (2015): Economics of the Public Sector, 2nd Rev.Ed, Princeton University Press.
- 2. C.V. Brown and Peter. M. Jackson (2010): Public Sector Economics, 5th Ed, Wiley-Blackwell
- 3. Harvey Rosen (2012): Public Finance. 8th Ed, McGraw Hill Education.
- 4. Hyman David: Public Finance (2015): A contemporary Application of Theory to Policy, 5th Ed, Thomson Learning.
- 5. John Cullis and Philip Jones (2009): Public Finance and Public Choice: Analytical Perspectives, 3rd Ed, OUP (India)
- 6. Patrick A. McNutt (1997): The Economics of Public Choice: Contemporary Issues in the Political Economy of Governing, Edward Elgar Publishing Ltd.

Additional Readings:

- 1. Amaresh Bagchi (2005): Readings in Public Finance, OUP(India)
- 2. Bailey, Stephen J: Public Sector Economics (2001): Theory and Practice. Second Edition. Palgrave, New York.
- 3. Bharti Pandey (2017): Fiscal Federalism in India: Challenges and Reforms, Serials Publications.
- 4. Buchanan, J. M (1968): The Demand and Supply of Public Goods. Randy McNally, Chicago.
- 5. Cornes, Richard and Todd Sandler (1996): The Theory of Externalities, Public Goods and Club Goods. Cambridge University Press.
- 6. Friedman, A (1986): Welfare Economics and Social Choice Theory. Martins Nijhoff, Boston.
- 7. Glennester, H. and J. Hills (1998): The State of Welfare: the Economic and Social Spending, Oxford University Press, London.
- 8. Greene, Joshua E (2012): Public Finance: An International Perspective, World Scientific.
- 9. Gruber, Jonathan (2016): Public Finance and Public Policy, 5th Ed, Worth Publishers.
- 10. Hindriks, Jean and Gareth D. Myles (2007): Intermediate Public Economics. Prentice Hall of India.

- 11. Holley H. Ulbrich (2007): Public Finance in Theory and Practice, 2nd Rev.Ed, South-Western.
- 12. Jean-Jacques Laffont (1998): Fundamentals of Public Economics, MIT Press
- 13. Jha, R (1997): Modern Public Economics, Routledge, London.
- 14. John Leach (2003): A Course in Public Economics, Cambridge University Press.
- 15. Kenneth J. Arrow (2012): Social Choice and Individual Values (Cowles Foundation Monographs Series), 3rd Ed, Yale University Press
- 16. Mueller, Dennis C. (1979): Public Choice, Cambridge University Press.
- 17. Musgrave, R.A. and P.B. Musgrave (2017): Public Finance in Theory and Practice, Fifth Edition, McGraw Hill Education.
- 18. Stiglitz, Joseph E and Rosengard, Jay K (2015): Economics of the Public Sector,5th Ed, W.W. Norton and Co, Inc.

Semester	Course Code	Course Title	Type of course	Credit	Teaching Hours		
II		Management Concepts and Organisational Behaviour	Core	4	90		
Course Objectives							

Management Concepts and Organisational Behaviour is to acquaint the students with the basic nature of management, its process, tasks and responsibilities of a manager as organizational behavioural dynamics governing an organization. It will also help students to equip themselves with the tools necessary to understand the dynamics of individual and group behaviour for efficient and effective utilization of human resources in the organizations. It will also familiarize the participants with the behavioural patterns of human beings at individual and group levels in the context of an Organization.

Unit- 1: Introduction to Management and Organisational Behaviour

(20 Hours)

- 1.1. Introduction to Management Evolution Concept Scope Significance Role Nature Purpose
- 1.2. Management as profession- Management and Administration Functions of Management
- 1.3. Management Thought Classical Schools Neo Classical Quantitative and system school Contingency approach to management - Decision theory school

Unit- 2: Management Functions

(30 Hours)

- 21. Planning: Nature, Types, Importance, Steps in Planning Process, Long range and Short-range Planning, Objectives, MBO, Premising, Decision Making, Strategies & Policies, Making Planning effective and Open System Approach to Planning.
- 22. Organising: Span of Management, Graicuna's Theory of Superior-subordinate Relationship, Factors influencing Span of Management, Wide versus Narrow Spans, Decentralisation of Authority, Principles of Delegation, Balancing between Centralisation & de-centralisation, Types of Organisation.
- 23. Staffing: Nature & Significance, A brief knowledge of Recruitment, Selection, Training & Development, and Performance Appraisal.
- 24. Directing: Nature, Concept of Leadership, Leadership Styles, Theories of Leadership, Charismatic Leadership Theory, Concept of Motivation, relevance of Communication.

25. Controlling: Concept and Importance of Control, Control Process, Types of Control Mechanism, Management by Exceptions.

Unit- 3: Organisational Behaviour-Approaches and its Structure

(25 Hours)

- 3.1.Organisation Behaviour -Introduction, Historical Perspective, Approaches Importance, Framework for Learning OB, Limitations of OB, Globalization and OB.
- 32.Organisation Structure: Classification on the basis of Possession of Authority, Classification on the basis of grouping of activities, New Organisational Designs – Project, Matrix, Organic Structure & Mechanistic Structure, Challenge of Modern Organisation, Virtual Organisation.
- 33. Motivation Concept of Motivation Motivational Theories of Maslow, Herzberg, David Mc Clelland, and Porter and Lawler.
- 3.4.Leadership Theories of leadership Leadership Styles Leadership Skills Women and Leadership – Leadership for the future.
- 35.Group Dynamics & Motivation Benefits of Groups Types of Groups Group Formation and Development.

Unit- 4: Dynamics of Organisational Behaviour

(15 Hours)

- 4.1.Group Nature Stages- Properties Group Decision making Dynamics of informal Groups.
- 4.2. Conflict interpersonal inter group organisational.
- 4.3. Culture and Change: Concept of Culture, Fundaments of Culture, Fundamentals of Change.

References:

- 1. Hersey, Paul, Kenneth H. Blanchard and Dewey E. Johnson: Management of Organisational Behaviour- Utilising Human Resources, Prentice Hall, New Delhi
- 2. Koontz, Harold, Cyril O'Donnell, and Heinz Weihrich: Essentials of Management, Tata McGraw-Hill, New Delhi
- 3. Luthans, Fred- Organizational Behaviour, McGraw-Hill.
- 4. Newstrom, John W. and Keith Davis: Organizational Behaviour- Human Behaviour at Work, Tata McGraw-Hill, New Delhi.
- 5. Robbins, Stephen P. and Mary Coulter: Management, Prentice Hall, New Delhi
- 6. Robbins, Stephen P. Organisational Behaviour, Prentice Hall, New Delhi.

Semester	Course Code	Course Title	Type of course	Credit	Teaching Hours	
II		Statistical Methods for Economic Analysis	Core	4	90	
Course Objectives						

This course is designed to cover the statistical material required for entry into Econometrics. It begins with some basic concepts and terminology that are fundamental to Inferential Statistics. It then develops the notion of probability, followed by probability distributions of discrete and continuous random variables and of joint distributions. This is followed by a discussion on sampling techniques used to collect survey data. The objective of this course is to train students in the use of the most common statistical tools and techniques encountered in economics for analysis of data with valid logic and inferences. At the end of the course, students are expected to learn a clear understanding of the inferential statistics as well as the interpretation of data.

Unit- 1: Probability Theory and Probability distributions

(20 Hours)

- 1.1. Random variables - Discrete and Continuous.
- 1.2. Density function, Distribution function - Definition and properties. 1.3.Mathematical Expectation, Variance and co-variance of random variables. 1.4. Bivariate random variables -Marginal and conditional distributions.
- 1.5. Moment Generating function - Definition and properties.
- 1.6. Discrete distributions - Binomial - Mean, variance, mgf of Binomial distribution. Computation of probability using Binomial distribution. Fitting of Binomial.
- 1.7. Poisson distribution - mean, variance, mgf of Poisson distribution. Computation of probability using Poisson distribution, Fitting of Poisson distribution.
- 1.8. Continuous distributions - Normal distribution - Mean, variance and mgf of Normal distribution (Derivation is not required). Standard Normal distribution - pdf, tables of standard normal distribution, Computation of probabilities of Normal distribution. Log- normal distribution - pdf, relation between normal and log-normal distribution.
- 1.9. Law of large numbers and Central Limit theorem (Concept and statement only).

Unit- 2: Sampling methods and Sampling Distributions

(20 Hours)

2.1. Population and Sampling - Parameter and Statistic - Definition and examples.

- 2.2. Probability and non-probability sampling methods Practical methods of drawing random samples – with replacement and without replacement.
- 2.3. Determination of Sample size.
- 2.4. Sampling distributions Standard error. Sampling vs Non-sampling errors.
- 2.5. Chi-square, t, and F distribution Definition, properties and tables of distribution. Examples of statistics following t, Chi-square and F distributions.

Unit- 3: Inferential Statistics- Estimation

(20 Hours)

- 3.1. Estimation Point and interval Estimation Properties of Good estimators Cramer- Rao inequality.
- 3.2. Methods of Estimation Maximum Likelihood estimators and estimation using method of moments.
- 3.3.Calculation of MLE of parameters of Binomial, Poisson and Normal distributions.
- 3.4.Interval estimation Confidence interval population mean of normal distribution when population variance is known and unknown.

Unit- 4: Inferential Statistics - Testing of Hypothesis

(20 Hours)

- 4.1. Hypothesis testing Hypothesis Simple and composite hypothesis Null and alternative hypothesis Rejection and acceptance region - Type I and Type II errors, Significance level and power of a test. p-value of a test.
- 42.Large sample tests of population mean of one sample and two samples, proportion of a population of one sample and two samples, Goodness of fit, independence of attributes (twoway classification).
- 43. Small sample tests of mean and variance of normal population of one sample and two samples - paired sample and independent sample tests, ratio of variances of two normal populations.
- 44. Non-parametric tests Sign test, Wilcoxon Matched-pairs Test (or Signed Rank Test), run test, Fisher-Irwin Test, Mann-Whitney test, Kendall's Coefficient of Concordance and Kruskal-Wallis test.

Unit- 5: Research methodology

(10 Hours)

- 5.1. Objectives of Research Types of Research Research Process Criteria of Good Research- Research Problem - Selecting the Problem - Technique Involved in defining a Problem.
- 52. Research Design Features of a Good Design Different Research Designs
- 53. Research Report Technique of Interpretation Significance of Report Writing Different Steps and layout of writing report - types of Reports - Precautions for Writing Research Reports.

Reference:

- 1. McClave, Benson and Sincich (2012): A First Course in Business Statistics, 8th Ed. Prentice Hall.
- 2. Moore, McCabe, Alwan, Craig and Duckworth (20111a): The Practice of Statistics for Business and Economics H Freeman and Company.
- 3. Lind A. Douglas, Marchal G. William and Wathen A. Samuel (2016)- Basic Statistics for Business and Economics, 7th Ed, McGraw Hill International Edition.
- 4. Mendenhall William, Beaver J. Robert and Beaver M. Barbara (2014) Introduction to Probability and Statistics – 12th Ed, Thomson Books/Cole publishers.
- 5. Earl Babbie (2008): The Basics of Social Research, 4th Ed, Thomson.
- 6. Gerald Keller (2012): Statistics for Management and Economics, 9th Ed, South-Western.
- 7. James P. Stevens (2007): Intermediate Statistics: A Modern Approach, 3rd Ed, Lawrence Erlbaum Associates.
- 8. Joseph F. Healey (2012): Statistics: A Tool for Social Research, 8th Ed, Wardworth.
- 9. RoxyPeck and Jay Devore (2014): Statistics: The Exploration and Analysis of Data,8th Ed, Cengage.
- 10. Sheldon M Ross (2016): Introductory Statistics, 5th Ed, Associate Press.
- 11. Ronald M. Weiers (2010): Introduction to Business Statistics, 7th Ed, South-Western.
- 12. Anderson, Sweeney and Williams (2016): Statistics for Business and Economics 12th Ed, South-Western.
- 13. Peter J. Diggle and Amanda G. Chetwynd (2011): Statistics and Scientific Method: An Introduction for Students and Researchers, OUP.
- 14. Don E. Ethridge (2004): Research Methodology in Applied Economics, 2nd Ed, Wiley-Blackwell

- 15. William J. Goode and Paul K. Hatt: Methods in Social Research, McGraw-Hill Book Company, Inc.
- 16. Bryman, Alan (2008), Social Research Methods, Oxford University Press, New Delhi.
- 17. Gerard Guthrie (2010), Basic Research Methods, Sage Publications New Delhi

THIRD SEMESTER

Course	Title of the Course	Type of	Hours per	Credit
Code		the	week	S
		Cours		
		e		
	International Economics	Core	05	04
	Econometrics-I	Core	05	04
	Research Methodology in Business Economics	Core	05	03
	Environmental Economics	Core	05	04
	Investment Analysis and Portfolio Management	Core	05	03

	Semester	Course code	Course Title	Type of course	Credit	Teaching		
						Hours		
Γ	III		International Trade	Core	4	90		
Γ	Course Objectives							

This course surveys and studies the various theories of international trade and applies them to the analysis of current trade problems. The topics covered include theories explaining trade patterns, the effect of trade on national welfare, the welfare of groups within a country, trade policy, international economic integration and so on. The course aims to provide an understanding of the broad principles and theories, which govern the free flow of international trade, with empirical evidence. It would also provide an exposure to the theoretical underpinnings and empirical evidence of the major trade policies followed both at national and international level. The theoretical knowledge of international trade and policy imparted in the course would help the students to solve real-world problems. It will prepare them to become trade policy-makers and key strategists on trade issues.

Unit- 1: Classical Trade Theory (Self-Study)

(15 Hours)

- 1.1. Mercantilism
- 1.2. Absolute Advantage Theory
- 1.3. Comparative Advantage of Trade Real and Opportunity Cost Approaches
- 1.4. Gains from Trade- Reciprocal Demand (Offer Curves)
- 1.5. Terms of Trade and its Computation
- 1.6. Revealed comparative advantage (Case Study- Estimate India's revealed comparative advantage using Balassa index)

Unit- 2: Neo- Classical Trade Theory

(20 Hours)

- 2.1. Heckscher-Ohlin theorem
- 2.2. Factor-Price Equalization Theorem Factor Intensity Reversal
- 2.3. Empirical Verifications of Heckscher-Ohlin Theory
- 2.4. The effect of growth on trade Immiserating Growth Rybczynski Theorem
- 2.5. Technical progress and trade neutral, capital saving, labour saving

Unit-3: Modern Trade Theory

(25 Hours)

3.1 Kravis and Linder Theory of Trade- Technology Gap Theory and Product Life Cycle Theory

- 3.2 Intra-industry trade- causes, emergence and measurement- imperfect competition and trade
- 3.3 The Neo-Heckscher -Ohlin Models
- 3.4 Neo- Chamberlin models- Neo-Hotelling models- Krugman Model
- 3.5 Oligopolistic models- Brander- Krugman Model- Reciprocal Dumping Model- Gravity Model- Porter Diamond Model
- 3.6 Empirical work in intra-industry trade-Balassa index- Grubel-Lloyd index, Acquino index- impact of intra industry trade on developing economies-trade in services.
- 3.7 Introduction to supply chain management (SCM) impact of SCM on international trade
- 3.8 Trade and economic development- role and significance- Singer- Prebisch Thesis

Unit-4: Trade Policy (30 Hours)

- 4.1. Free trade and protection
- 4.2. Effects of tariff —Metzler Paradox- Optimum Tariff- Effective rate of protection
- 4.3. Quotas and other non-tariff barriers- technical/ quality/ safety standards (regulations)- case study on India's EXIM policy
- 4.4. Economic integration theory of customs union partial and general equilibrium analysis dynamic effects
- 4.5. Integration experiences- European Union, BRICS- NAFTA, PAFTA ASEAN
- 4.6.Regional trade blocs and barriers to free flows of trade
- 4.7. Multilateral trade negotiations- the GATT rounds UNCTAD and evolution of world trading arrangements World Trade Organization and fair trade- Development Round- Trade Facilitation- Trade War.

Essential Readings:

- Appleyard D. R and Field A J (2014) -International Economics 8th Ed McGraw Hill, New Delhi
- 2. Chacholiades, M. (1990), International Trade: Theory and Policy, McGraw Hill, Kogakusha, Japan
- 3. Krugman P R and Obsfeild M (2009) International Economics- Theory and Policy, 8th Ed, Pearson, Dorling Kindersley (India) Pvt. Ltd, New Delhi
- 4. Salvatore, D (2008) International Economics, 8th Ed, Wiley India, New Delhi
- 5. Soderston, B and Reed G. (1994) International Economics, 3rd Edition, McMillan Press Ltd. London
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Supplementary Readings:

- 6. A.J. Smit (2010): The competitive advantage of nations: Is Porter's Diamond Framework a new theory that explains the international competitiveness of countries? Southern African Business Review, Volume 14 Number 1
- 7. Bhagwati, J. N. (1987), International trade: Selected readings, Second Edition, MIT Press, Cambridge, Massachusetts
- 8. Bhagwati and Srinivasan (1983), Lectures on international trade, The MIT Press.
- 9. Carbaugh, R J (2008) International Economics, (11th Edition) Thomson South Western, New Delhi
- 10. Feenstra Robert C (2004), Advanced International Trade- Theory and Evidence, Princeton University Press, Princeton
- 11. Grimwade Nigel (2001), International Trade, (Second Edition), Routledge, London
- 12. Grubel H G and Lloyd P J (1975), Intra-industry Trade, Macmillan, London.
- 13. Haberler G (1961), A Survey of International Trade Theory, International Finance Section, Department of Economics, Princeton University.
- 14. Handbook of International Business, Oxford University Press
- 15. Kindleberger, C P International Economics, R.D. Irwin, Homewood
- 16. Michele Fratianni: (2007) The Gravity Equation in International Trade, Indiana University, Kelley School of Business, CIBER, Bloomington, Indiana 47405, USA.
- 17. Prebisch, Raul (1959). "Commercial Policy in the Underdeveloped Countries, AER 49, no.2. pp. 251-73.
- 18. Reinert K A (2012), An Introduction to International Economics, Cambridge university Press, New York
- 19. Richard Baldwin and Charles Wyplosz (2004), The Economics of European Integration, McGraw Hill, New York
- 20. Richard E Caver and Harry G Johnson, Readings in International economics

Semester	Course Code	Course Title	Type of course	Credit	Teaching		
					Hours		
III		Econometrics-1	Core	4	90		
Course Objectives							

An Economic model is a family of probability distributions proposed by a researcher that could possibly have generated the data of some economic variables -viewed as random variables. Given the economic data either cross-section or time series or panel, aresearcher would like to select a particular probability distribution from the family of distributions to "best match" the data. This course helps the students to learn how to estimate a general class of parametric models or semi parametric models, how to conduct testing and inference, given the data. The course also aims to cover (1) identification of model parameters; (2) consistency, asymptotic normality, and semi parametric efficiency of various estimators; (3) hypothesis testing and model selection. It also covers the problems encountered in estimation and inference in the context of the single-equation linear regression model. Empirical applications include estimation and inference of some popular economic models in microeconomics and macroeconomics. The true objective of this course is to acquaint students with econometric techniques that are widely used in empirical work in Economics and other related disciplines. It is intended to expose students to the art of performing estimation, analyzing and interpretation of the estimated econometric model. At the end of the course students should be able to: (i) demonstrate their understanding of the appropriate econometric methods for analyzing data; (ii) interpret computer output for the estimation and testing of econometric relationships; and (iii) interpret and discuss results.

Unit-1: Two Variable Regression Model

(20 Hours)

- 1.1. Definition & Scope of Econometrics-Methodology-Modern Interpretation
- 1.2. Classical Linear Regression Model-PRF-Linearity-Stochastic Disturbance Term-Significance- SRF
- 1.3 Method of OLS-Derivation of OLS Estimators-Deviation Form, Properties-
- 1.4 Assumptions-Gauss-Markov Theorem-Goodness of the Fit-R²
- 1.5 Estimation and Testing of Hypothesis-Standard Error.

Unit- 2: Multiple Regression Model

(15 Hours)

- 2.1 Multiple Regression-Matrix Approach—General k variable Model—Variance Covariance Matrix—OLS Estimators and Guass-Markov Theorem (Matrix Notation)
- 2.2 Partial Regression Coefficients—Multiple Coefficient of Determination-R Square and Adjusted R Square

- 2.3 Estimation and Testing of Hypothesis-Test of Coefficients and Overall Significance-t-test and F test-P-value—Testing the Equality of Two Regression Coefficients
- 2.4 Restricted Least Squares-Testing Linear Equality Restrictions

Unit- 3: Violation of the Assumptions of Classical Model and Extensions

(20 Hours)

- 3.1 Heteroscedasticity: Nature, Consequences, Tests, and Remedial Measures
- 3.2 Auto-correlation: Nature, Consequences, Tests, and Remedial Measures
- 3.3 Multicollinearity: Nature, Consequences, Tests, and Remedial Measures
- 3.4 Model Specification and Errors: Consequences—Underfitting and Overfitting— Measurement Errors
- 3.5 Regression through Origin -Scaling and Units of Measurement
- 3.6 Different Functional Forms of Regression Models and their Applications (Log-linear, Semilog, Double log, Reciprocal and Log Reciprocal Models)—Choice of Functional Forms

Unit- 4: Regression with Qualitative Variables and Simultaneous Equation Models (20 Hours)

- 4.1 Qualitative Explanatory Variables—Dummy Variable Regression—ANOVA ANCOVA Models—Dummy variable Trap—Interpretation of Regression Results
- 4.2 Models with Qualitative Dependent Variables- LPM, Logit, Probit, and Tobit Models— **Interpretation of Regression Results**
- 4.3 Simultaneous Equation Models—Simultaneous Equation Bias—Inconsistency of OLS Estimators—Identification Problem—Test of Simultaneity and Exogeneity
- 4.4 Problem of Estimation—Single Equation Methods —OLS—ILS—2SLS and Systems Methods—2SLS and SURE Model—Lurking Variables

Unit-5: Dynamic Econometric Models

(15 Hours)

5.1. Estimation of Distributed Lag Models—Koyck Model and its rationalization—Partial Adjustment and Adaptive Expectations Model—Almon Approach

52. Estimation of Auto Regressive Models—Instrumental Variables—Method of Instrumental Variables—Problems—SARG Test and Durbin h Statistic—Causality- The Granger Causality Test and Sims Test

Essential Readings:

- 1. Gujarati, Damodar & Dawn C Porter (2017): Basic Econometrics,5th Ed, McGraw Hill.
- 2. Stock James and Watson, Mark (2017): Introduction to Econometrics, 3rd Ed, Pearson Education (Indian Edition).
- 3. J Johnston (1997): Econometric Methods, 4th Ed, McGraw-Hill Higher Education.

Complementary Readings:

- 1. Badi H. Baltagi (2011): Econometrics, 3rd Ed, Springer.
- 2. Chandan Mukherjee, Howard White and Marc Wuyts (1998): Econometrics and Data Analysis for Developing Countries, Routledge New York.
- 3. Christopher Dougherty (2016): Introduction to Econometrics, Oxford University Press, Indian Edition.
- 4. G.S. Maddala and Kajal Lahiri (2012): Introduction to Econometrics, 4th Ed, John Wiley &Sons (Indian Edition).
- 5. Kmenta, Jan (1976), Elements of Econometrics, 2nd Ed, McMillian, New York.
- Michael Bailey, Real Econometrics: The Right Tools to Answer Important Questions, Oxford University Press, 2016
- 7. Peter Kennedy (2008): A Guide to Econometrics, 6th Ed, Wiley-Blackwell.
- 8. Ramu Ramanathan (2002): Introductory Econometrics with Applications,3rd Ed, Thomson Learning Inc, Singapore.
- Robert S. Pindyck and Daniel L. Rubinfeld, Econometric Models and Economic Forecasts,4th Ed, McGraw-Hill Publishing Co.
- 10. Russell Davidson & James G. MacKinnon (2009): Econometric Theory and Methods, Oxford University Press.
- 11. Sankar Kumar Bhaumik (2015): Principles of Econometrics: A Modern Approach Using EViews, Oxford University Press (India)
- 12. Studenmund A. H (2017): Using Econometrics: A Practical Guide, 7th Ed, Pearson (India).
- 13. William H. Greene (2018): Econometric Analysis, 8th Pearson Education (India).
- 14. Wooldridge, Jeffrey M (2018): Introductory Econometrics: A Modern Approach, Thomson,7th Ed, South Western, USA.
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Semester	Course Code	Course Title	Type of course	Credit	Teaching Hours		
III		Research Methodology in Business Economics	Core	4	90		
Course Objectives							

The purpose of this paper is to provide new researchers with a wide-ranging outline of the main elements of research methodology, particularly in the business field. A thorough understanding of research methodology is a must for post-graduate students of business economics and that is what this course aims to develop among the students. The paper aims to offer postgraduate students boarding on their research voyages with a useful summary that would guide in them navigating the methodological aspect of their research work.

Unit-1: Introduction to Research

(10 Hours)

- 1.1 Meaning of Research Classification of research (pure, applied, explanatory, descriptive, historical, diagnostic, experimental, qualitative and quantitative)-Features of a good research study- Steps in research process.
- 1.2 Need for Inter-Disciplinary Approach in business Economics- Management Decision Problem vs. Management Research Problem.
- 1.3 Formulating the research hypothesis- Types of Research hypothesis- Research applications in business Economics.

Unit- 2: Research Proposal and Research Design

(20 Hours)

- 2.1. Research proposal- types of research proposals-Steps in Research Proposal.
- 2.2. Literature Review -types- traditional, thematic and meta-analysis methods.
- 2.3. Research Design- Nature of good design Classification of Research Designs- Exploratory Research, Descriptive and Causal Designs- Secondary Resource analysis-Case study Method, Expert opinion survey, Focus group discussions, Descriptive Research Designs: Cross-sectional

studies and Longitudinal studies, Experimental Designs- Time series Designs- Errors affecting Research Design.

Unit- 3: Sampling Technique

(20 Hours)

- 3.1. Sample and non-Sampling –Methods of Sampling- Non-probability Sampling-Convenient, Judgment, Quota, Snowball -Probability-Simple Random, Stratified, Cluster, Multi Stage.
- 3.2. Qualitative Research Methods: Focused Interview, Semi-Standardized Interview, Problem-Centered Interview, Expert Interview, Group Interviews, Focus Groups, Non-participant Observation, Participant Observation, Ethnographic research - Grounded Theory Methodology.
- 3.3. Measurement: Levels and types of measurement-Nominal, Ordinal, Interval and Ratio. Attitude Measurement: Comparative and Non-Comparative scaling techniques, Tabulation and Cross-tabulation of data.

Unit- 4: Data Collection Method

(15 Hours)

- 4.1. Data Collection Methods of primary data collection Methods of secondary data collection.
- 4.2. Questionnaire Designing -Criterion for a good questionnaire Online questionnaire tools.
- 4.3. Attitude Scaling Techniques: Concept of Scale Rating Scales viz. Likert Scales, Semantic Differential Scales, Constant Sum Scales, Graphic Rating Scales - Ranking Scales - Paired Comparison and Forced Ranking.

Unit- 5: Data Preparation, Analysis and Interpretation

(25 Hours)

- 5.1. Data Preparation Univariate analysis Bivariate analysis Cross tabulations. Data analysis techniques: Multiple regression analysis, Discriminant analysis and factor analysis.
- 5.2. Analysis of Variance: Completely randomized design in a one-way ANOVA- Randomized block design in two-way ANOVA- Factorial design ANCOVA.

- 5.3. Report Writing- Essentials of a Good Report- Steps in Writing a Report-Types of Reports-Footnotes Bibliography. Style manuals-APA style, MLA style, ASA style, Chicago manual Style. (Concepts only).
- 5.4. Ethical Issues in Research Researchers Ethical code- Ethical Codes related to respondents-Plagiarism-Types of Plagiarism-Ways to Avoid Plagiarism.

Reference Books

- 1. Bruce, B. and Howard, L. (2014). Qualitative Research Methods for the social sciences, London: Pearson.
- 2. Chawala, Deepak & Sondhi, Neena (2016),Research Methodology- Concept & Cases, Vikas Publication,ISBN:978-93259-8239-0.
- 3. Flick, U. (2014). An introduction to qualitative research. Sage Publications.
- 4. Flick, U. (2015). Introducing research methodology: A beginner's guide to doing a research project. Sage.
- 5. Ghauri, Pervez & Gronhaug ,Kjell(2010),Research Methods in Business Studies,Pearson,ISBN: 978-0273712046.
- 6. Green, P E, Tull, D S & Albaum, Gerald(1988), Research for Marketing Decisions, Prentice Hall of India Pvt. Ltd
- 7. Gregory, I. (2005). Ethics in research. London: Continuum.
- 8. Gupta, S.L. and Gupta, H. (2011). Research Methodology: Texts and Cases with SPSS. Delhi: International Book House.
- 9. Gupta, S L & Gupta, H (2012), Business Research Methods, TMHE Pvt. Ltd, ISBN: 978-1-25-900503-9.
- 10. Guthrie, G. (2010). Basic research methods: An entry to social science research. SAGE Publications India.
- 11. Kothari, C.R. and Garg, G. (2019). Research Methodology: Methods and Techniques, New Age.
- 12. Krishnaswamy ,K N, Sivakumar ,A I and Mathirajan,M(2011),Research Methodology, Pearson, ISBN: 978-81-7758-563-6.
- 13. Neuman, W.L. (2011). Social Research Methods: Qualitative and Quantitative Approaches, 7th edition, International edition, Pearson
- 14. Pannerselvam, R (2016), Research Methodology, PHI Pvt. Ltd., New Delhi, ISBN: 978-81-203-4946-9
- 15. Schwartz, S. (2012). Microsoft Office 2010, New Delhi: Pearson. Kothari, C. R.(2016),
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MAHATMA GANDHI UNIVERSITY KOTTAYAM

Research Methodology- Methods & Techniques, New age international publishers, ISBN: 978-93-86649-22-5.

- 16. Sjoberg, G., and Nett, R. (2014). A methodology for social research. Jaipur: Rawat **Publications**
- 17. William J Goode and Paul K Hatt, 1981 Methods in social Research, McGraw-Hill
- 18. Wilkinson and Bhandarkar, 2002 Methodology and Techniques of Social Research, Himalaya

Semester	Course code	Course Title	Type of course	Credit	Teaching Hours	
III		Environmental Economics	Core	4	90	
Course Objectives						

This course examines the economics behind environmental issues and problems and policies designed to address them. Topics are focused on the valuation of non-market goods, cost- benefit analysis, correcting market failures especially in the provision of public goods, the tragedy of the commons, and climate change. The economic assessment of environmental impacts and the economics of policies and institutions which have a significant bearing on the environment are also covered in the course. This course will provide students with the tools to understand how market inefficiencies might arise in the presence of externalities like pollution and how market solutions can correct market failures. The main objective of the course is to illustrate how the study of mainstream economics needs to be reoriented in the light of the following premises: the natural environment is the core of any economy and economic sustainability cannot be attained without environmental sustainability. Thus, the course is intended to equip students with analytical skills that would enable the evaluation of environmental and economic policy issues. It is expected to enable students to understand the economics of the relationship between economic activities and environmental impacts. This course builds on the knowledge of students in micro-economics and public economics.

Unit- 1: Basic Environmental issues: Environment and Economy (15 Hours)

- 1.1. Environment and Economy- Environmental Economics, Ecological Economics and Resource Economics- Interlinkages between the Economy and the Environment
- 12 Material Balance Approach- criteria of Natural Resource Use-Principles of uncertainty and irreversibility – Inter generational equity- intra generational equity
- 13. Environment-Development Trade-offs: Environmental Cost of Economic Growth- The Environmental Kuznets Curve. Theory of Krutilla-Fisher Equation for Preservation or Development.
- 14. Different Perspectives on Development and Growth: The First and Second Laws of Thermodynamics Pessimist and Optimistic Models Limits to Growth- Beyond the Limits -Simon Julian's thesis of "Ultimate Resource"-The Skeptical Environmentalist.
- 15. Global environment issues climate change: positive and normative analysis of climate change- Economics of Global Warming and Climate Change: Nordaus' Dice Model.

Unit- 2: Welfare Economics, Social Sector and Environment

(20 Hours)

- 21. Individual preference regarding environmental protection-Pareto optimality
- 22 Market Failure and Externalities: Non-exclusion and the Commons Tragedy of Commons Non rivalry and Public Goods -Non-convexities- Asymmetric Information
- 23. Hardin's Thesis, Olson Theory of Collective Action, Externalities and Property Rights: Coase theorem -Pigouvian Solution, Ostrom's Co-operative Solutions to Common Pool Resources (CPR) -Optimal Provision of Public Goods- Pollution Prevention, Control and Abetment – Command, Control and Market Based Instruments -Taxes Vs Tradable Permits - CPRS
- 24.Land use Deforestation- urbanization and their impact on environment Air and water pollution

Unit-3: Environmental Valuation

(20 Hours)

- 3.1. Valuing the Environment: The Economic Concept of Value-Types of Value: Use-Value, Option Value and Non-use or Passive Use Values- The standard model-divergence in value measures-challenges to neo-classical theory of environmental valuation - Development of Nonmarket Valuation—Anthropocentric versus Biocentric Viewpoints - Valuation techniques- market and non-market- direct and indirect - Environment impact assessment-**LCA**
- 32. Valuation Methods: Compensating and Equivalent Welfare Compensating and Equivalent Variations and Willingness to Pay and Willingness to Accept.
- 33. Alternative Approaches and Methods of Environmental Valuation Revealed Preference Methods—Travel Cost Method—Random Utility Site Choice Model—Problems of Travel Cost Method—Hedonic Pricing Method and the Problems—Hedonic Wage Values—Dose Response Function—Averting Expenditure and Avoided Cost Methods— Challenges— Aggregation and Partial Values
- 34.Stated Preference Methods—Contingent Valuation—Steps in Conducting a Contingent Valuation—Reliability and Validity—Attribute Based Models—Conjoint Analysis—Choice Experiments—Contingent Ranking—Production Function Methods—General Methodology and Measurement Issues

35. Economic Incentives: Emission taxes, tradable pollution permits, Pigouvian fee; Emission standards and Environmental Protection.

Unit- 4: Sustainable Development

(15 Hours)

- 4.1. Sustainable Development: Sustainability Criteria: Hicksian Sustainability Possible-Sustainability Rules - The Hartwick-Solow Approach
- 4.2. Non-Declining Natural Capital Stock Approach -Safe Minimum Standards Approach -Daly's Co-operational Principles - Sustainability versus Efficiency
- 4.3. Indicators of Sustainability ENP/AENP (Environmentally Adjusted or Approximate Environmentally Adjusted National Product) and Green GNP Indicator on the Basis of Natural Capital Stock and SMS Approaches
- 4.4. Weak, Strong and Very Strong Sustainability- Pearce-Atkinson Measure of Weak Sustainability Daly-Cobb's Index of Sustainable Economic Welfare- Common-Perring's Model of Sustainable Development.
- 4.5. Course of Inter-Generational Welfare- Environmental Sustainability-**Ecological** Sustainability-Protecting Forest Products and Services
- 4.6. Eco Economy and its Shape—Solar Hydrogen Economy—New Materials Economy Feeding Everyone Well—Protecting Forest Products and Services

Unit-5: Environmental Governance and Management

(20 Hours)

- 5.1. Integrated environmental and economic accounting and the measurement- Environmentally corrected GDP
- 52 Ecological Footprint Analysis-Global Environmental Governance- the Montreal and Kyoto Protocol -International Environmental Treaties and Institutions- WTO and TRIPS as related to environmental issues- Subsidies and taxes, Product standards and Exceptions clause; International environmental externalities.
- 53. Environmental regulations and assessment in Indian context.

Essential Reading:

- 1. Kolstad, Charles D (2014): Environmental Economics, 2nd Ed, Oxford University Press, Indian Edition.
- 2. Nick Hanley, Jason F. Shogren and Ben White (2010): Environmental Economics in Theory and Practice, 2nd Ed, Palgrave MacMillan.
- 3. Ahmed M. Hussen (2014): Principles of Environmental Economics. 4th Ed, Routledge.
- 4. Horst Siebert (2010): Economics of the Environment: Theory and Policy, 7th Ed, Springer.

Supplementary Reading:

- 5. Anthony C. Fisher (1981): Resource and Environmental Economics, Cambridge University Press
- 6. Barry C. Field and Martha K. Field (2016): Environmental Economics: An Introduction, 7th Ed, McGraw Hill.
- 7. Baumol, William J and Wallace E Oates: The theory of environmental policy, Cambridge University press, 1988.
- 8. Charles S. P. (2000): Economics and Global Environment, Cambridge University Press
- 9. David A. Anderson (2010): Environmental Economics and Natural Resource Management, Routledge, London
- 10. Hans Wiesmeth (2012): Environmental Economics: Theory and Policy in Equilibrium, Springer.
- 11. Henk. F, H. L. Gabel, Shelby G. and Adam Rose, (2001) "Frontiers of Environmental Economics" Edward Elgar, Cheltenham UK
- 12. James Crustave Speth and Peter Maas (2009). Global Environmental Governance Foundation of Contemporary Environmental Studies-Island press.
- 13. Jonathan M. Harris and Brian Roach (2018): Environmental and Natural Resource Economics: A Contemporary Approach, 4th Ed, Routledge.
- 14. Katar Singh, Anil Shishodia (2007): Environmental Economics; Theory and Applications, Sage publications, New Delhi.
- 15. Kavi Kumar, in Kanchan Chopra and Vikram Dayal (2009), (Ed). Hand book of Environmental Economics; Oxford University Press.
- 16. Kimio Uno and Peter Bartelmus (1998): Environmental Accounting in Theory and Practice, Springer
- 17. Krutilla John V. (1967). "Conservation Reconsidered", American Economic Review, Vol. 57, 1067.
- 18. Lee G. Anderson and Juan Carlos Seijo (2010): Bioeconomic of Fisheries Management, Wiley-Blackwell, Iowa
- 19. Lester R. Brown (2001): Eco Economy: Building an Economy for the Earth, W.W Norton and Company, London
- 20. Lester R. Brown (2015): The Great Transition: Shifting from Fossil Fuels to Solar and Wind Energy, W.W Norton and Company, London
- 21. Mohan Munasinghe and James Gustave Speth, Sustainable Development in Practice Cambridge University Press.
- 22. Nicholas Stern(2007): The Economics of Climate Change: Stern review, Cambridge University Press.

- 23. Oates W.E. (1994) (ed.), The Economics of the Environment, An Elgar Critical Writings Reader, Edward Elgar.
- 24. Olson, Jr., Mancur (1971), The Logic of Collective action: Public Goods and the theory of Groups, Cambridge, Harvard University Press.
- 25. Ostrom, E. (1990), Governing the Commons: The Evaluation of Institutions for Collective Actions, Cambridge University Press, Cambridge.
- 26. Pearce, D.W. and R. Turner (1991): Economics of Natural Resource Use and Environment, John Hopkins University Press, Baltimore.
- 27. Pearce D.W. and Jeremy J. Warford (1996), World without End: Economics, Environment and Sustainable Development, OUP.
- 28. Peter G. Brown and Geoffry Garner (2009), Right Relationship, Building a whole Earth Economy, Berrett-Koehler publishers, Sanfransisco.
- 29. Rabindra N Bhattacharya (2002), Environmental Economics-an Indian perspective, OUP, New Delhi.
- 30. Roger Perman, Yue Ma, James McGilvray and Michael Common: Natural Resource and Environmental Economics, 3rd Ed, Pearson Learning.
- 31. Steven C. Hackett (2006): Environmental and Natural Resources Economics: Theory, Policy, and the Sustainable Society, M.E.Sharpe, New York
- 32. Sugatha Margit (2007): India Macroeconomics Annual 2007, Centre for Studies in Social Sciences, Kolkata, Sage Publishers
- Tietenberg, T. (1994): Environmental Economics and Policy, Harper Collins, New York.
- 34. Tony Prato (1998): Natural Resource and Environment Economics, Iowa State University
- 35. Trond Bjorndal and Gordon Munro (2012): The Economics and Management of World Fisheries, OUP, London
- Ulaganathan Sankar (2004) Environmental Economics OUP, New Delhi.
- 37. United Nations (2014): System of Environmental Economic Accounting Central Framework, New York.

Semester	Course Code	Course Title	Type of course	Credit	Teaching Hours	
III		Investment Analysis and Portfolio Management	Core	3	90	
Course Objectives						

The course aims at developing a comprehensive conceptual and theoretical background upon which the student can expand his or her knowledge of the field of investments and portfolio management. This course content mainly focuses on developing the practical skills in investment management and also giving a foundation on major investment portfolio management strategies. Students will understand the investment process, scope and stages and be able to analyze how the market expectations are formed, how the strategic asset allocations are made and how an optimal investment strategy is selected. The course includes major theories like Efficient Market Hypothesis, Markowitz's Model and it also tries to impart basic knowledge on fundamental and technical analysis.

Unit- 1: Investment and Risk Analysis

(20 Hours)

- 1.1 Investment meaning and types Factors responsible for Investment- Features of an Investment programme - Investment Process.
- 12 Investment vs. Speculation -Investment Avenues- Individual Investors Institutional Investors Foreign Institutional Investors.
- 13 Risk and Return-Meaning and definition of risk-Types (Systemic Risk, Market Risk, and Interest Rate Risk)- Risks of Investment and Return on Investment.

Unit- 2: Capital Market Analysis

(20 Hours)

- 2.1 Capital Market Origin and Development Functions of Capital Market- Instruments New Issue Market/IPO – Book Building.
- 2.2 Listing Trading processes S E B I and its functions Stock Exchanges N S E B S E NSDL-CDSL.
- 2.3 Credit Rating CRISIL Derivatives Futures and Options Commodity Exchange Exchange Traded Funds.

Unit- 3: Portfolio Management

(25 Hours)

3.1 Portfolio management- Meaning and Concept- Portfolio Management Process, Objectives, Basic Principles.

- 32 Portfolio Construction: Approaches to Portfolio Construction- Markowitz's Model-Markowitz efficient frontier Capital Market theory-CAPM model Capital Market Line-Security Market Line Arbitrage Pricing Theory (APT).
- 33 Efficient Market Hypothesis (EMH) Weak, semi-strong and strong Forms of market efficiency-Implications of EMH-Random walk theory.

Unit- 4: Fundamentals and Technical Analysis

(25 Hours)

- 4.1Fundamental Analysis-Economic Environment analysis-Industry Analysis- Company analysis-Operating analysis- Management analysis-Financial Analysis- Approaches to valuation- DCF method.
- 4.2 Technical Analysis-Meaning and Assumptions-Trend Lines and their significance-Dow Theory, volume indicators, market sentiment indicators, confidence indicators, points & figure charting, bar charting.
- 4.3 Elliot Wave Principle-Moving Averages of stock prices Relative Strength Index-Chart Patterns.

References:

- 1. Prasanna Chandra Investment Analysis and Portfolio Management Tata McGraw-Hill
- 2. Donald E.Fischer and Ronald J.Jordan Security Analysis and Portfolio Management Prentice Hall
- 3. Bhole L M Financial Institutions and Markets Tata McGraw-Hill
- 4. Barua, Regunathan and Varma Portfolio Management Tata McGraw-Hill
- 5. Prasanna Chandra Financial Management, Theory and Practice Tata McGraw-Hill
- 6. Avadhani V A Securities Markets Himalaya Publishing House
- 7. Gupta L C Rates of Return Oxford University Press
- 8. Khan M Y Indian Financial System Tata McGraw-Hill
- 9. Yasaswy N J Equity Investment Tata McGraw-Hill

MAHATMA GANDHI UNIVERSITY KOTTAYAM

- 10. William J Baumol Stock Market and Economic Efficiency
- 11. Thomas, Susan (Ed.) Derivatives Markets in India Tata McGraw-Hill
- 12. Stephen J Brown, William N Goetzmann Edwin J Elton, Martin J Gruber Modern Portfolio Theory and Investment Analysis,7th Edition,
- 13. Robert A. Haugen Modern Investment Theory –
- 14. Prasanna Chandra -Financial Management: Theory and Practice-
- 15. Francis J C -Investment Analysis-
- 16. Jonathan Berk, Peter DeMarzo, Ashok Thampy -Financial Management
- 17. S. Kevin- Security Analysis and Portfolio Management-2 edition

FOURTH SEMESTER

Course Code	Title of the Course	Type of the Course	Hours per week	Credits
	International Finance	Core	05	04
	Econometrics-II	Core	05	04
Elective- (Froun-A			
Ziccive (Agricultural Economics	Elective	05	03
	Industrial Economics	Elective	05	03
	Labour Economics	Elective	05	03
Elective- (From-B			
Zioca (Marketing Management	Elective	05	03
	Human Resource Management	Elective	05	03
	Project Management & Entrepreneurial Development	Elective	05	03
Elective- (Group-C	<u> </u>		
Licetive	Financial Economics	Elective	05	03
	Game Theory and its Economics Applications	Elective	05	03
	Economics of Business Strategy	Elective	05	03
	Project/Dissertation	Core		02
	Comprehensive Viva -Voce	Core		02

Semester	Course Code	Course Title	Type of course	Credit	Teaching Hours	
IV		International Finance	Core	4	90	
Course Objectives						

The course will address the following main topics: the balance of payments; foreign exchange market and exchange rate determination; foreign currency derivative instruments; arbitrage and international parity conditions; risks in global finance, the management of foreign exchange risk with forwards and options; basic characteristics of trade finance and investment instruments; and international capital flows and markets. The intent is to investigate how various financial instruments are used for hedging and speculating in the currency markets and how economic theories are applied to determine the equilibrium exchange rates. Some policy issues concerning the recent world financial market turbulence will also be discussed. This course aims at providing a theoretical exposition of different aspects of international finance and financial institutions in a historic cum emerging geopolitical context particularly in that of globalization. It will equip students with both fundamental knowledge in international finance, financial institutions and their application in real life. This course seeks to provide a working knowledge of these issues. It will prepare students to become policy-makers and key strategists on issues related to international finance and related institutions. The stress will be on an understanding of the intuition behind the theories.

Unit-1: Foreign Exchange Rates and Markets

(30 Hours)

- 1.1 Foreign exchange market- structure and functions-the demand for and supply of foreign exchange – fixed and flexible exchange rate-nominal, real and effective exchange rates-Case studies on REER and NEER in India.
- 1.2 Types of foreign exchange transactions-arbitrage, spot and forward markets and rates, currency swaps, futures and options-foreign exchange risks, hedging and speculation
- 1.3 Theory of optimum currency area- Euro currency markets and international bond markets - Currency Board determination of exchange rate
- 1.4 Theories of exchange rate- mint parity theory-purchasing power parity theory- Balance of payments Approach- monetary approach-asset market (Portfolio Balance) approach-Exchange rate over shooting- Exchange control-objectives and methods of exchange control.

Unit-2: Balance of Payments

(18 Hours)

- 2.1. Balance of payments: concepts-structure-disequilibrium in balance of payments
- 2.2. Adjustment Mechanisms-devaluation-elasticity and absorption approaches-Marshall-Lerner condition- J- Curve- Monetary approach to balance of payment adjustment
- 2.3. Foreign Trade Multiplier
- 2.4. Case Study on 1991 BOP Crisis in India

Unit-3: Open Economy Macro Economic Policy

(15 Hours)

- 3.1. Open Economy Adjustment Policies-Internal and External Balance
- 3.2. Swan Diagram
- 3.3. Assignment Problem
- 3.4. Mundell-Fleming Model-combining monetary and fiscal policies
- 3.5. Implications of Impossible Trinity in the Indian context.

Unit-4: Resource Movements, Currency Crisis and International Financial Institutions

(27 Hours)

- 4.1. International labour movements and remittances
- 4.2. ILO- Outsourcing- challenges and Issues
- 4.3. Multi-national organizations (MNCs)
- 4.4. International capital movements-FDI and portfolio investments Indianexperience
- 4.5. Currency Crisis- East Asian Financial Crisis-Sub- prime lending crisis-Greece crisis- Euro zone (debt) crisis
- 4.6. Breton Woods system: International Liquidity and IMF-World bank- international debt problem-external debt of India using international statistics

Reference:

- 1. Keith Pilbeam (2013) International Finance, 4th edition, Palgrave
- 2. Salvatore, D (2008) International Economics, (8th Edition). Wiley India, New Delhi

- 3. Appleyard D. R and Field A J (2014) -International Economics (8th Edition) McGraw Hill, New Delhi
- 4. Krugman Paul, R and Obstfeld, Maurice and Melitz, Marc.J (2018) International Finance-Theory and Policy, 11th Ed, Pearson (India) Pvt. Ltd, New Delhi
- 5. Soderston, B and Reed G. (1994) International Economics, 3rd Edition, McMillan Press Ltd. London
- 6. MacDonald, Ronald (2007): Exchange Rate Economics: Theories and Evidence, Routledge.
- 7. Levi Maurice D. (2009): International Finance, 5th Ed, Routledge, New York.

Supplementary Readings:

- 1. Bhagwati, Jagdish, Arvind Panagariya, and T.N Srinivasan, (2004): The muddles over outsourcing". Journal of economic perspectives, 18(4): 93-104
- 2. Asbjorn Rodseth (2000): Open Economy Macroeconomics, Cambridge University Press.
- 3. Carbaugh, R. J (2008): International Economics, (11th Edition). Thomson South Western, New Delhi
- 4. Feenstra, Robert C. and Taylor, Alan M (2011): Advanced International Trade- Theory and Evidence, 2nd Ed, Worth Publishers.
- 5. Fleming, J.M. (1962): Domestic Financial Policies Under Fixed and Floating Exchange Rates, International Monetary Fund Staff Papers 9, pp. 369–379.
- 6. Frankel, J.A. (1993): Monetary and Portfolio Balance Models of Exchange Rate Determination, MIT press, Cambridge.
- 7. Gerber, James (2014): International Economics, 6th Ed, Pearson Education Inc.
- 8. Husted, Steven and Melvin, Michael (2016): International Economics, 9th Ed, Pearson.
- 9. Kenen Peter B. (2000): The International Economy, Cambridge University Press, New York.
- 10. Mundell, R A (1962): The Appropriate Use of Monetary and Fiscal Policy for Internal and External Stability, International Monetary Fund Staff Papers 9, pp. 70 79.
- 11. Radlett, S, and Sachs J. (1998): The east Asian Financial Crisis: Diagnosis, Remedies, and Prospects', Brookings Papers on Economic Activity. Vol 28, no.1. pp. 1-74.
- 12. Ramsaran Ramesh (1998): An Introduction to International Money and Finance Palgrave
- 13. Reinert K A (2012): An Introduction to International Economics, Cambridge university Press, New York:
- 14. Pugel, Thomas A (2016): International Economics, 16th Ed, McGraw Gill Education.
- 15. Stern, R.M. (2007): Balance of Payments: Theory and Economic Policy, Aldine Transaction
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- 16. Thirlwal, A.P (1999): Balance of Payments Theory, 6th edition, Oxford University Press, New York
- 17. Ugur Mehmet (2002): (Edited), An Open Economy Macroeconomics Reader, Routledge, London.

Semester	Course Code	Course Title	Type of course	Credit	Teaching		
					Hours		
IV		Econometrics—II	Core	4	90		
Course Objectives							

The aim of the course is to provide the theoretical background that is useful for research in applied economics. Applications of economic theory need a reasonable understanding of economic relationships and relevant statistical methods. This course provides an introduction to time series methods in econometrics covering aspects of the trend behavior, detrending mechanisms, and their properties, unit root theory, cointegrated system approaches, realized volatility and, model selection. This course accordingly is devoted to equipping the students with advanced theory of econometrics and relevant applications of the methods. It is designed to equip students for analyzing real-life data, related to economics in particular and social science in general. It will acquaint the students with advanced techniques in time-series and panel-data analysis as well as implementation of theory through software applications to gear them towards execution of independent research projects. The emphasis is on learning to use methods and to developing an understanding of how specific empirical questions determine the empirical approach to be used. The aims of this course are threefold: to introduce students to basic modelling techniques in the analysis of cross-section, panel and time series economic data; to provide students with sufficient econometric training to read the applied literature in core journals which use these standard techniques; to prepare students for a dissertation topic that analyses either crosssection, panel or time series data using basic econometric techniques. At the end of the course, students should be able to perform the following tasks: Interpret the results from regression models involving panel data and instrumental variables; understand how to use instrumental variables to account for endogenous regressors; understand how to estimate binary response models; understand how to set up, estimate and analyze panel data regression models; understand the basic concepts of stationary and nonstationary time series; understand and apply basic linear models for univariate and multivariate time series; understand the concepts of integration and cointegration and howto test for these phenomena in time series.

Unit-1: Stochastic Process and Stationarity

(15 Hours)

- 1.1. Stochastic Process, Ergodicity and Stationary—White Noise Processes
- 1.2. Non-Stationarity and Random Walk Models—Deterministic and Stochastic Trends / Trend and Difference Stationary Processes-Integrated Stochastic Process
- 1.3. Non-Stationary Time Series and the problem of Spurious Regression—Solutions
- 1.4. Transforming the Non-Stationary Time Series—Tests of Stationarity Correlogram (ACF, PACF), and Unit Root Test—Augmented Dicky-Fuller test—Non-parametric PP test— Structural Change

Unit-2: ARIMA Modelling and Cointegration

(20 Hours)

2.1. The World Decomposition Theorem—AR and MA processes—ARMA and

ARMAX— ARIMA Modelling

- 2.2. Linear combination of non-stationary series and Cointegration—Difference between Unit Root and Cointegration Tests- Augmented Engle-Granger test and Johansen -Juselius tests-Granger Representation Theorem
- 2.3. Cointegration and Error Correction Mechanism— VECM (Vector Error Correction Model) Granger Causality

Unit-3: Time Series Forecasting and VAR Models

(20 Hours)

- 3.1. Time Series Forecasting—Single Equation and Simultaneous Equation Regression Modelling and the Lucas Critique
- 3.2. Vector Auto regressions (VAR)— Structural VAR (SVAR) and Bayesian VAR (BVAR)— In sample & out of sample (VAR)—Impulse Response Functions— The issues of optimal lag length

Unit- 4: Volatility Measurement and Growth Rate Estimation

(15 Hours)

- 4.1. Volatility Measurement—Measurement of Volatility ARCH and GARCH Models and Estimation—GARCH Forecasting
- 4.2.Growth Rate Estimation—Robustness—Endogenous and ExSSogenous Breaks— Kinked Exponential Growth Rates

Unit-5: Panel Data Models

(20 Hours)

- 5.1. Panel Data Models—Nature and Data Sources—Constant Coefficients Model— Error Components Models—Fixed Effect (Lest Squares Dummy Variable LSDV) Model—Fixed Effect (Within Groups WG) Estimator—Random Effects Model (REM)—REM and Hausman Test—Breusch-Pagan Test—Consistency Property of Estimators.
- 52 Dynamic Panel Data Analysis—Panel Data Unit Root—Cointegration Tests

Reference:

- Badi H. Baltagi (2013): Econometric Analysis of Panel Data,5th Ed, John Wiley & Sons.Cheng Hsiao (2013): Analysis of Panel Data,3rd Ed, Cambridge UniversityPress
- 2. Chris Brooks (2014): Introductory Econometrics for Finance,3rd Ed, Cambridge University Press.
- 3. Chris Chatfield (2003): The Analysis of Time Series: An Introduction,6th Ed, Chapman and Hall.
- 4. Douglas C Montgomery, Cherlyl L. Jennings and Murat Kulahci (2015): Introduction to Time Series Analysis and Forecasting, 2nd Ed, Wiley.
- 5. Econometric Modelling by Dr. Rudra P. Pradhan, Department of Management, IIT Kharagpur. For more details on NPTEL visit http://nptel.iitm.ac.in
- 6. Erik Biorn (2017): Econometrics of Panel Data: Methods and Applications, OUP.
- 7. Franses, P. H. (1998), Time Series Models for Business and Economic Forecasting, Cambridge University press, New York.
- 8. G. S. Maddala and In-Moo Kim (1999): Unit roots, cointegration, and structural change, Cambridge University Press.
- 9. Gebhard Kirchgassner, Jurgen Wolters, Uwe Hassler, Introduction to Modern Time Series Analysis, Springer.
- 10. Gujarati Damodar & Dawn C Porter (2017): Basic Econometrics,5th Ed, McGraw Hill. Gusti Ngurah Agung (2014): Panel Data Analysis Using EViews, Wiley.
- 11. H. Stock James and Watson Mark (2017): Introduction to Econometrics,3rd Ed, Pearson Education (Indian Edition)
- 12. James D Hamilton (2012): Time Series Analysis, Princeton University Press.
- 13. Jeffrey M. Wooldridge (2010): Econometric Analysis of Cross Section and Panel Data, 2nd Ed, The MIT Press.
- 14. M. Hashem Pesaran (2015): Time Series and Panel Data Econometrics, Oxford.
- 15. Marc S. Paolella (2019): Linear Models and Time-Series Analysis, Wiley.
- 16. Orley Ashenfelter, Phillip B. Levine, David J. Zimmerman, Statistics and Econometrics: Methods and Applications, John Wiley & Sons.
- 17. Peter J. Brockwell, Richard A. Davis (2010): Introduction to Time Series and Forecasting, 2nd Ed, Springer.

- 18. Philip Hans Franses, Dick van Dijk and Anne Opschoor (2014): Time Series Models for Business and Economic Forecasting, 2nd Ed, Cambridge University Press.
- 19. Robert Alan Yaffee, Monnie McGee (2000): An Introduction to Time Series Analysis and Forecasting: With Applications of SAS and SPSS, Academic Press.
- 20. Ruey S. Tsay (2010): Analysis of Financial Time Series, 3rd Ed, Wiley.
- 21. Sankar Kumar Bhaumik (2016): Principles of Econometrics: A Modern Approach Using EViews, Oxford University Press (India).
- 22. Spyros Makridakis, Steven C. Wheelwright, Rob J. Hyndman (2008): Forecasting: Methods and Applications, 3rd Ed, John Wiley & Sons.
- 23. Svetlozar T. Rachev, Stefan Mittnik, Frank J. Fabozzi, Sergio M. Focardi, Teo Jaic, Financial Econometrics: From Basics to Advanced Modelling Techniques, John Wiley Sons.
- 24. Terence C. Mills (2015): Time Series Econometrics: A Concise Introduction, Palgrave.
- 25. Walter Enders (2018): Applied Econometric Time Series, 4th Ed, John Wiley & Sons (Indian Edition)

Semester	Course Code	Course Title	Type of course	Credit	Teaching Hours	
IV		Agricultural Economics	Elective- A-1	3	90	
Course Objectives						

This course is directed toward understanding the performance of the agricultural sector in the process of economic development. In this course, the role of the agricultural sector in aggregated (macro) growth and development theories, including the recent endogenous growth theories is reviewed. The course also deals with the production and diffusion of improved agricultural technology, institutions, infrastructure, markets, food security policy and international markets. This course is intended to provide an overview of the economics of agriculture. It is designed for providing adequate knowledge about the relevant concepts and principles of Agricultural Economics. The students having awareness in agricultural economics can assess the problems of the farm sector and can make contributions to the prosperity of villages. This course can improve the analytical skills of the students. It also tries to address real situations and the concrete problems of agriculture and economic development.

Unit- 1: Nature and scope of Agricultural Economics

(10 Hours)

- 1.1. Nature and Scope of Agricultural Economics
- 1.2.Role of Agriculture in Economic Development
- 1.3.Risk and Uncertainty in Agriculture
- 1.4. Instability of Agriculture.
- 1.5. Terms of Trade between Agriculture and Industry -Ranis-Fei Model-Jorgenson's Model- Resource mobilisation from the agricultural sector.
- 1.6. Role and Need for Agro-Based Industries

Unit-2: Models of Agricultural Development

(20 Hours)

- 2.1. Schultz's Transformation of Traditional Agriculture
- 2.2. Jorgenson's Model of development of Dual economy
- 2.3. Mellor's Model of Agricultural Development
- 2.4. Boserup Model of Agricultural Development.

Unit-3: Farm Management

(40 Hours)

3.1. Farm management- Principles of farm management-Farm management decisions-principles of factor substitution

- 3.2. Cost Principles Opportunity Cost Principle Principles of Comparative Advantage Limitations of Farm Management.
- 3.3. Agricultural Production Functions—Factor—Product Relationships
- 3.4. Product–Product Relationships, Factor–Factor- Relationships
- 3.5. Objective functions for family farms and their optimisation-large farms operated by an individual farmer-large farms under tenancy-small owner cultivator-tenant operating a small farm and using only family labour-tenancy and the conflict between the interests of land owner and those of the tenant
- 3.6. Agricultural Supply Response Models Cobweb and Nerlove Models.
- 3.7. Measures of Farm Efficiency.
- 3.8. Size of the Farm and Productivity

Unit- 4: Issues Related to Indian Agriculture

(20 Hours)

- 4.1. Agriculture and Productivity- Food Security and Public Distribution System in India.
- 4.2. Agricultural Finance Rural Indebtedness
- 4.3. Agricultural Marketing -Agricultural Price Policy- Price System in India; Challenges of agricultural Marketing in India-Measures to improve the efficiency of agricultural marketing-role of the state.
- 4.4. WTO and Agreement on Agriculture (AOA)-WTO and India's Agricultural Sector- Review of Recent Debates.

References:

- Acharya, S.S and Aggrawal, N.L 'Agricultural Prices Analysis and Policy', Oxford and IBH Publishing Co. Pvt. Ltd, New Delhi
- 2. Andrew Barkley and Paul W. Barkley (2013): Principles of Agricultural Economics, Routledge.
- 3. Basu, K. 'Agrarian Structure and Economic Underdevelopment', Harwood Academic, London, 1980
- 4. Bilgrami, SAR. 'An Introduction to Agricultural Economics', Himalaya Pub. House, Mumbai
- 5. David Colman and Trevor Young (997): Principles of Agricultural Economics: Markets and Prices in Less Developed Countries, Cambridge University Press.
- 6. Johl, S.S. and Kapur, T.R. 'Fundamentals of Farm Business Management', Kalyani
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Publishers, Ludhiana

- 7. John B Penson, Jr, Oral Capps, C Parr Rosson and Richard Woodward (2015): Introduction to Agricultural Economics, 6th Ed, Pearson.
- 8. Joydeb Sasmal (2016): Resources, Technology and Sustainability: An Analytical Perspective on Indian Agriculture, Springer.
- 9. Kohlon, A.S. and Tyagi, D.S. 'Agricultural Price Policy in India', Allied Pub. New Delhi . 1983
- 10. Lekhi, R.K. and Sing Joginder, 'Agricultural Economics', Kalyani Publishers, Ludhiana
- 11. Mellor, J.W. 'The Economics of Agricultural Development' Vora and Co, Mumbai, 1966
- 12.R.N. Sony and Sangeeta Malhotra (2015): Leading issues in Agricultural Economics, 12th Ed, Vishal Publishing Co.
- 13. Reddy S. Subha et al. 'Agri cultural Economics', Oxford and IBH Publishing Co. Pvt. Ltd, New Delhi
- 14. Rudra Ashok, 'Indian Agricultural Economics: Myth and Realities' Allied Pub. New Delhi, 1982
- 15. Sankhayan, P.L. 'Introduction to Economics of Agricultural Production', Prentice Hall of India Pvt. Limited., New Delhi
- 16. Schultz, T.Z. 'Transforming Traditional Agriculture', Yale University Press, 1964
- 17. Drummond, H. E and Goodwin, J W (2004), Agricultural Economics, Pearson Delhi

Semester	Course Code	Course Title	Type of course	Credit	Teaching Hours
IV		Industrial Economics	Elective- A-2	3	90
		Course Objectives			

In the globalized era, industrial development is a sine qua-non for rapid economic development. Keeping this in view, the objectives are to provide thorough knowledge about the economics of industry and issues related to market structure, firms' motivations and conducts, productivity, and efficiency in a cogent and analytical manner. Its aim is to familiarize students with a broad range of the methods and models applied by economists in the analysis of firms and industries. It also provides a detailed understanding of policy debates involved in industrial development in India. By learning this course, the students can obtain a glimpse of the recent developments in this field and enhance their analytical skill. This course offers a rich and diverse platform to explore the core of the economic theory, using real-world examples and encouraging unique and innovative problem-solving techniques. Upon completion of the course students should: understand basic models of the behavior of firms and industrial organization and how they can be applied to policy issues; be able to manipulate these models and be able to solve analytically problems relating to industrial economics; be familiar with the history of competition policy and be familiar with the functioning of different experimental market institutions and the key results of these experiments.

Unit- 1: Industrial Economics and Theory of Firm

(15 Hours)

- 1.1. Meaning and scope of industrial economics.
- 1.2. Industrial organisation: Different forms of Industrial Organization, Proprietorship, partnership, Joint Stock Companies, Holding Companies, and Industrial Co-Operative Organizations - Corporation - Public Sector Companies: departmental, govt. companies, joint-sector, internal organisation: unitary (U)form and multi-divisional (M)form-Choice of Organizational form.
- Size of the firm: Optimum firm, Representative firm, Equilibrium firm, factors 1.3. determining optimum size.
- 1.4. Theories of the growth of the firm: Downie's theory Penrose's theory and Morris's theory of the growth of the firm.

Unit-2: Market Structure & Industrial Location

(20 Hours)

2.1. Market Structure: Meaning of the market structure, Sellers concentration and its

- measurement: the concentration ratio, the Lorenz curve, product differentiations its sources and its implications, entry conditions, economies of scale, market structure & innovation – the process of innovation – concepts & relationships – its measurement.
- 2.2. Concept of Industrial Location, Determinants of Location, Dynamics of industrial Location - Theories of Industrial Location (Weber's Theory, August Losch and Sargent Florence's Theory) – Industrial Location Policy.
- 2.3. Theories of Industrialisation-Hoffman, Chenery and Gershenkron.

Unit-3: Market Conduct

(20 Hours)

- 3.1. The structural conduct performance approach relationships between structure, conduct & performance, neoclassical developments of the SCP approach.
- 3.2 Pricing Decisions: Pricing goals: maximisation of profit, sales, rate of return, sales and market shares—Pricing policies: marginal cost and full-cost pricing-Pricing procedures: Penetrating, skimming, price discriminations and transfer pricing. Pricing in practice – cost plus pricing, incremental cost pricing, the target rate of return pricing, acceptance pricing, the going rate pricing, pricing in public enterprises.
- 3.3. Diversification and Vertical Integration, Merger Definitions, Types & Motives, Implication for Public Policies.

Unit-4: Market Performance & Project Appraisal

(20 Hours)

- 4.1. Industrial productivity its importance, distinction between production and productivity, factors influencing industrial productivity.
- 4.2. Industrial efficiency meaning of the concept, the determinants of economic efficiency, measurement of the efficiency levels- efficiency conditions in the theory of production: constrained output maximisation, constrained cost minimisation, profit and revenue maximisation- efficiency and decision-making process.
 - 4.3.Investment decisions: profile of the project, methods of project evaluation; the payback method, the average of accounting rate of return method, the net present value method, the internal rate of return method, ranking of projects; NPV VS IRR. Risk & uncertainties in project appraisal

Unit- 5: India's Industrial Growth: (Self-study) (15 Hours)

- 5.1. Pattern of industrialization since independence-Changing structure of industries.
- 5.2. Evolution of industrial policy Liberalization of Industrial sector in India- Industrial Policy-1991, Trends in Industrial Growth after NEP - Public sector industries in India- policy on privatization -competition policy.
- 5.3. Industrial sickness- Exit policy- Role of BIFR Role of MNC s in India.
- 5.4. Issues in industrial development in the context of globalization.
- 5.5. Industrial Finance Nature and types of Industrial Finance Sources of Institutional Finance
 - Specialized institutions IDBI, IFCI, SFCs, SIDC etc.- Commercial banks Capital structure in India.

Essential Reading:

- 1) Divine, P.J. and R.M. Jones et. al. (1976), An Introduction to Industrial Economics, George Allen and Unwin Ltd., London
- 2) Hay, D A and Morris D J (1979), Industrial Economics: Theory and Evidence, Oxford University Press, New Delhi.
- 3) Paul R Ferguson & Glenys J Ferguson, Industrial Economics: Issues and Perspectives 2nd Ed, New York University Press, Washington square, New York 1994.

Supplementary Reading:

- 1. Ahluvalia, I.J. 'Industrial Growth in India', Oxford University Press, New Delhi
- 2. Balakrishnan, P and Pushpangadan, K. 'Total Factor Productivity Growth in Indian Manufacturing-A Fresh Out Look', Working Paper No.259, CDS, Thiruvananthapuram, 1994
- 3. Barathwal, R.R. 'Industrial Economics: An Introductory Text Book', Wiley Eastern Ltd. New Delhi, 2016.
- 4. Brahmananda, P.R. and Panchamukhi, V.R. (Eds), 'The Development Process of the Indian Economy', Himalaya Publishing House, Mumbai, 1987
- 5. Cherunilam, Francis, 'Industrial Economics: Indian Perspective', (3rd Edition), Himalaya Publishing House, Mumbai, 1994
- 6. Deepak Nayyar, Industrial Growth and Stagnation. Oxford University Press, 1994
- 7. Deepak Nayyar, Trade and Industrialisation, Oxford University Press, New Delhi, 1977
- 8. Desai, B (1999), Industrial economy of India, Himalaya Publishing House, Mumbai.
- 9. Isher Judge Alhuwalia, Industrial Growth in India, Oxford University Press, New Delhi,1985
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- - 10. Kuchhal, S.C. 'Industrial Economy of India', (5th Edition), Chaitanya Publishing House, Allahabad, 1980
 - 11. Mishra and Puri (latest edition): Indian economy, Himalaya publisher, Mumbai.
 - 12.Renjana Seth, Industrial Economics, Ane Books Pvt. Ltd, New Delhi ,2010
 - 13.Rogor Clarke, 'Industrial Economics', Basil Blackwell, New York
 - 14. Shy, Oz., Industrial Organization: Theory and Applications, MIT Press, 1995
 - 15. Singh, A and A.N. Sandhu (1988), Industrial Economics, Himalaya Publishing House, Mumbai.
 - 16. Smith, D.M. 'Industrial Location-An Economic and Geographic Analysis', John Wiley, New York, 1971
 - 17. Stephen Martin, Advanced Industrial Economics, Basic Blackwell, 1993.
 - 18. Tirole, J., The Theory of Industrial Organization, MIT Press, 1988

Semester	Course Code	Course Title	Type of course	Credit	Teaching Hours		
IV		Labour Economics	Elective- A-3	3	90		
Course Objectives							

Labor economists study the economic forces that determine wages and employment. The major objective of this course is to impart knowledge about the dynamics of labour market. This course emphasizes the power of microeconomic reasoning to answer important economic questions. Topics covered include: approaches to labor supply and family coordination of time allocation and commodity demand, incorporating gender and generational bargaining; human capital, job tenure, union status, and discrimination as wage determinants; wage inequality as affected by skill supplies, minimum wages, unions, immigration, and interpretation of compensating variations in wages as evidence on employer demands, job and location amenities. Issues pertaining to the labour market, wage theories, employment policies, trade unions and collective bargaining in the globalized economy have become vitally important for developing countries. In a country like India where the bulk of the labour force is in the unorganized sector and the organized sector is witnessing jobless" growth, the importance of issues such as employment and unemployment as well as livelihood and social security for the growing millions continues to assume significance. This course exposes students to theoretical as well as empirical issues relating to the labour market.

Unit- 1: Labour Markets: Supply of Labour (20 Hours)

- 1.1. Theory of Individual Labor Supply: The Work–Leisure Decision: Basic Model-Indifference Curves-- Opportunity Cost of Leisure -- Budget Constraint-- Utility Maximization
- 1.2. Wage Rate Changes: Income and Substitution Effects--Rationale for the Backward- Bending Supply Curve—Wage Elasticity of Labour Supply— Labor Supply of Women—
- 1.3. Policy Application: Cash Grants and Labor Supply-The Impact of Welfare on Labor Supply--The Earned Income Tax Credit.
- 1.4. Participation Rates and Hours of Work: Becker's Model: The Allocation of Time---Commodity Characteristics--Household Choices--Becker Income Effect--Becker Substitution Effect--Participation Rates--Cyclic Changes in Participation Rates--Added-Worker Effect-Discouraged-Worker Effect-- Life Cycle Aspects of Labor Supply -The Choice of Retirement Age--Policy Application: Child Care and Labor Supply.

Unit- 2: Labour Markets: Demand for Labour:

(20 Hours)

- 2.1 The Production Function--The Employment Decision in the Short Run-- The Short-Run Labor Demand Curve for a Firm and Industry
- 22 The Employment Decision in the Long Run: Iso-quant and Iso-cost Approach: The Long-Run Demand Curve for Labor--Substitution and Scale Effects.
- 23 Labor Demand Elasticity--Elasticity of Substitution---- The Hicks-Marshall Laws of Derived Demand---The Cross-Wage Elasticity of Demand.
- 2.4 Labor Market Equilibrium: Equilibrium in a Single Competitive Labor Market-- Competitive Equilibrium across Labor Markets. Policy Application: Payroll Taxes and Subsidies--Deadweight Loss--Employment Subsidies-- Effects of Minimum Wage Laws -- The Labor Market Impact of Immigration. The Cobweb Model.

Unit- 3: Wage Determination and the Allocation of Labor

(10 Hours)

- 3.1 Theory of A Perfectly Competitive Labor Market--Wage and Employment Determination: Monopoly in The Product Market---Monopsony-Wage Determination within the Firm.
- 3.2 The Employment Contract--Motivating Workers--Motivating the Individual in a Group-
- Productivity and the Basis of Yearly Pay--Productivity and the Level of Pay -- Productivity and the Sequencing of Pay.
- 3.3 Incentive Pay: Piece Rates and Time Rates—Tournament— Economics of Fringe Benefits--Theory of Optimal Fringe Benefits---Profit Sharing-Equity Compensation---Tournament Pay--Efficiency Wage Payments- Hedonic Wage Theory and Employee Benefits (10 Hours)

Unit- 4: Labour Union and Wage Bargaining

(25 Hours)

- 4.1. Determinants of Union Membership--The Demand for and Supply of Union Jobs-- The Structural Change Hypothesis---Managerial Opposition Hypothesis--The Substitution Hypothesis--Monopoly Union Model--Efficient Contracts Model.
- 42. Strikes and The Bargaining Process--The Activities and Tools of Collective Bargaining-
 - Bargaining and the Threat of Strikes-- Accident Model--Asymmetric Information Models—

- Union Wage Effects--Threat and Spill-over Effects--Unions and Wage Dispersion--Unions and Fringe Benefits--Nonwage Effects of Unions.
- 43 The Economic Impact of Unions: The Union Wage Advantage--Spill over Effect-- Threat Effect-- Other Effects -- The Effects of Unions on Employment, Productivity and Profits
- 44 State and social security of labour Concept of social security and its evolution; Social assistance and social insurance; Labour market reforms - Exit policy, need for safety nets, measures imparting flexibility in labour markets; National Commission on Labour; Globalization and labour markets.

Unit-5 Unemployment

(15 Hours)

- 5.1 Unemployment Types— A Stock-Flow Model of the Labor Market.
- 5.2 The Theory of Job Search--Effects of Unemployment Insurance Benefits
- 5.3 Structural Unemployment--Downward Wage Rigidity and Union, Specific Human Capital, Asymmetric Information, Worker Status and Social Norms-- Implicit Contracts---Insider-Outsider Theories- Efficiency Wages and Unemployment

Reference:

- 1. Campbell R. McConnell, Stanley L. Brue and David A. Macpherson (2017): Contemporary Labor Economics, 11th Edition, McGraw-Hill Education, 2 Penn Plaza, New York, NY 10121.
- 2. George J. Borjas (2016): Labor Economics 7th Edition, McGraw-Hill Education, 2 Penn Plaza, New York, NY 10121.
- 3. J.E. King (2000): Labour Economics. 2nd Ed, Macmillan Education.
- 4. Pierre Cahuc, Stéphane Carcillo, André Zylberberg (2014): Labor Economics, 2nd Ed, MIT Press.
- 5. Ronald G. Ehrenberg and Robert S. Smith (2012): Modern Labor Economics: Theory and Public Policy, 11th Edition, Prentice Hall.
- 6. Stephen Smith (2003): Labour Economics, 2nd Ed, Routledge.

Semester	Course Code	Course Title	Type of course	Credit	Teaching Hours	
IV		Marketing Management	Elective- B-1	3	90	
Course Objectives						

The objective of this course is to make the students understand the concepts of marketing management, to learn about marketing process for different types of products and services, to understand the tools used by marketing managers in decision making, pricing policies, and to understand the global marketing environment and its emerging trends.

Unit-1: Introduction to Marketing

(15 Hours)

- 1.1. Marketing Concepts- Nature and Scope of Marketing-Functions and Role of Marketing in an Organisation.
- 1.2. Marketing Services- Nature and Characteristics of Services- Classification of Services-Importance of Marketing in Service Sector.

Unit-2: Marketing Strategy and Control

(25 Hours)

- 2.1. Different Marketing Strategies- Selecting a Marketing Strategy- The Concept of Market Leaders- Challengers, Followers.
- 2.2. Segmentation Strategy- Target Marketing- Poisoning Strategy- Marketing Strategy of New Products- Designing and Management of Global Marketing Strategies.
- 2.3. Buying Behaviour Buying Motives-Buying Process Determination of Buyer Behaviour-Classification of Goods- Industrial Buyer Behaviour.

Unit-3: Marketing Decisions

(20 Hours)

- 3.1. Product Decisions- The Concept of a Product- Product Line Strategies- Differentiation-Product Life Cycle- Product Mix- Branding- Developing New Products and Services.
- 3.2. Pricing Decisions: Pricing Objectives and Procedures- Different Types of Pricing-Penetrating and Skimming Pricing-Pricing Methods – Cost Oriented Pricing – Competition-Oriented Pricing - Practical Methods of Pricing - Peak Load Pricing - Pricing of a New Product – Multi Product Pricing - Dual Pricing - Administered Pricing – Transfer Pricing

Unit-4: Promotion Strategies and Emerging Trends in Marketing (30 Hours)

- 4.1. Promotion: Promotion Mix-Advertising, Sales Promotion, Personal Selling; and Public Relations: Direct Marketing& Relationship Marketing.
- 4.2. Placement: Channels of Distribution: Levels and Types of Channels- Functions and Management of Channel Members- Current Trends in Whole- sailing and Re-tailing-Marketing Organisation and Control.
- 4.3. Emerging Trends in Marketing Rural Marketing, CRM, Services Marketing, B2B Marketing- Internet Marketing- Marketing Research.

References:

- 1. Brassington, F and Pettitt, S, (2000) 'Principles of Marketing, Second Edition, Prentice Hall, Harlow.
- 2. Kotler, P, Armstrong, G, Saunders, J and Wong, V, (2001), 'Principles of Marketing': Third European Edition, Prentice Hall, Harlow.
- 3. Randall, G. (2001) 'Principles of Marketing', 2nd edition, Thomson Learning.
- 4. Hoyer, W.D. and MacInnis, D.J. (2001) 'Consumer Behaviour', 2nd Edition, USA: Houghton Mifflin Company.
- 5. Booms, B.H. and Bitner, M.J. (1981), 'Marketing strategies and organisation structures for service firms, in Marketing of Services', J. Donnelly and W.R. George (eds), American Marketing Association.
- 6. Davies, M. (1998) 'Understanding Marketing', 1st edition. Prentice Hall.
- 7. Philip Kotler. (1996), 'Marketing Management', Prentice Hall India Pvt. Ltd.
- 8. Stanton, Etzel and Walker (2000) 'Fundamentals of marketing', Mc Graw Hill.
- 9. Cuntill, Still, Govoni. 'Fundamentals of marketing management', Prentice Hall.
- 10. Baker, M. (2000) 'Marketing Management and Strategies', 3rd edition, Macmillan Business.
- 11. Proctor, T. (2000) 'Essentials of Marketing research', UK: Financial Times-Prentice Hall.

Semester	Course Code	Course Title	Type of course	Credit	Teaching Hours	
IV		Human Resource Management	Elective- B-2	3	90	
Course Objectives						

The objective of the course is to make the students understand the importance of human resource management, to know the elements of the HR function, and to be familiar with application of the principles and techniques of human resource management.

Unit-1: Perspectives in Human Resource Management

(20 Hours)

- 1.1. Evolution of Human Resource Management Principles of HRM- The Importance of the Human Factor Challenges Inclusive Growth and Affirmative Action.
- 1.2. Role of Human Resource Manager Human Resource Policies Computer Applications in Human Resource Management Human Resource Accounting and Audit.

Unit-2: The Concept of Best Fit Employee

(25 Hours)

- 21.Importance of Human Resource Planning Forecasting Human Resource Requirement Matching Supply and Demand -Internal and External Sources.
- 22.Recruitment Selection Induction Compensation Method- Pay Structure- Fringe Benefits-Socialization Benefits.
- 2.3 Training and Executive Development: Types of Training Methods –Purpose- Benefits-Resistance. Executive Development Programmes Common Practices Benefits Self-Development Knowledge Management- Stress Management- Methods.

Unit-3: Performance Evaluation and Control Process

(25 Hours)

- 3.1 Method of Performance Evaluation Feedback Industry Practices. Promotion, Demotion, Transfer and Separation Implication of Job Change.
- 3.2. The Control Process Importance Methods Requirement of Effective Control Systems Grievances Causes Implications.
- 3.3. Redressal Methods- HR Related Issues in Mergers and Acquisitions- International HRM- Issues- International Labour Standards.

Unit-4: Industrial Relations

(20 Hours)

- 4.1. Meaning of Employee Relations Industrial Disputes Causes- Forms and Types of Industrial Disputes – Methods of Settling Disputes.
- 4.2. Trade Unions Objectives, Functions Employee Welfare Strategic Human Resources Management – Strategic Tools.
- 4.3. Contemporary Issues in Industrial Relations- Laws of Social Security- Health and Safety.

Books for References:

- 1. V.S.P. Rao- 'Human Resources Management'
- 2. Keith Davis 'HR and Personnel Management'
- 3. Flippo- 'Personnel Management'
- 4. T.V.Rao- 'Human Resource Management'
- 5. Pareek, Udai and Rao T.V 'Designing and Managing Human Resource Systems'
- 6. Satyadian S.Mirza 'Human Resource Management'
- 7. R. S Davar 'Personnel Management and Industrial Relations in India'.
- 8. Edwin B. Flippo- Principles of Human Resource Management.
- 9. K. K Ahuja- Personnel Management, Himalaya Publishing House.
- 10. Gary Deseler 'Human resource management (9th edition)' Prentice Hall.
- 11. George W. Bohlander, Scott. A. Snell- 'Managing Human resources, methods and challenges' South Western college.
- 12. Rothwell & Cazanas.- 'Strategic Human resource planning and Management' Prentice Hall.
- 13. Rao T. V & Pereira. 'Recent Experiences in Human resource management' Prentice Hall.

Semester	Course Code	Course Title	Type of course	Credit	Teaching Hours	
IV		Project Management and Entrepreneurial Development	Elective- B-3	3	90	
Course Objectives						

The main objective of the course is to teach and train the students about the techniques of project management, a major task of business economy. The emphasis of the course is on understanding concepts related with projects and equip the student with the tools of market and demand estimation for the successful conduct of business. In this course, a student will be aware on various aspects of entrepreneurial skill development. The objectives of this course are: (1) to help the students to study about the project development cycle,(2)to learn about institutional support system in project execution (3) to apply entrepreneurial skills in business life with a thorough backing of foundations of entrepreneurial development (4)to acquaint students with the special challenges of starting new ventures and introducing new product and service ideas and(5) to provide the skill in executing various projects, starting from project identification till project termination.

Unit-1: Project Management

(25 Hours)

- 1.1. Project- Concepts, Categories of Project, Project Development Cycle. Project Management-Tools and Techniques. Project Identification, Project Formulation and Preparation.
- 1.2. Market and Demand Estimation, Market Survey, Demand Forecasting Technical Factors-Material Inputs, Technology, Production, Plant Capacity, Location and Site, Civil Works, Charts, Layouts, Work Schedule, Cost of Project, Means of Financing, Estimates of Cost, Financial Projections.
- 1.3. Technical, Economic, Financial, Legal and Social Appraisal of the Industrial Projects.
- 1.4. Social Cost-Benefits, Treatment of Risk and Uncertainty, Sensitivity Analysis and Probability Approach Single as well as Multiple Projects.
- 1.5. Monitoring and Post Implementation- Evaluation of the Project, Project Financing.

Unit-2: Foundations of Entrepreneurship Development

(35 Hours)

2.1. Entrepreneurship: Definition of Entrepreneur, Functions of an Entrepreneur, Entrepreneurial Motivation and Barriers, Classification of Entrepreneurship - Nature, Opportunities and the Importance of International Entrepreneurship.

- 2.2. Entrepreneurial Traits. Factors of Entrepreneurship Development: Socio-Cultural, Political, Economical and Personal. Entrepreneurial Success and Failure: Reasons and Remedies.
- 2.3. Theories of Entrepreneurship Innovation Theory by Schumpeter & Imitating- Theory of High Achievement by McClelland - X-Efficiency Theory by Leibenstein - Theory of Profit by Knight - Theory of Social change by Everett Hagen.

Unit-3: Project Management and Institutional Support

(15 Hours)

- 3.1. Financial Schemes Offered by Various Financial Institutions Commercial Banks, IDBI, ICICI, SIDBI, SFCs, Venture Capital Funding, Angle Capitalist.
- 3.2. Role of Central Government and State Government in Promoting Entrepreneurship with Various Incentives, Subsidies and Grants.
- 3.3. Role of Agencies in the Entrepreneurship Development. DIC SISI EDII NIESBUD -NEDB.

Unit-4: Institutional Support for New Ventures

(15 Hours)

- 4.1. Supporting Organizations; Incentives and Facilities; Financial Institutions and Small-scale Industries, Govt. Policies for SSIs. Family and Non-Family Entrepreneur.
- 4.2. Role of Professionals, Professionalism vs. Family Entrepreneurs.
- 4.3. Role of Woman Entrepreneur- Challenges to Woman Entrepreneurs, Achievements of Woman Entrepreneurs, Role Models of Woman Entrepreneurs Venture Capital- Nature and Overview, Venture Capital Process, Locating Venture Capitalists.

SUGGESTED READINGS:

- 1. Chandra Prasanna Project: Preparation, Appraisal, Budgeting and Implementation. (TMH, 5th Ed.)
- 2. Mohsin M. Project Planning and Control (Vikas)
- 3. Goyal BB Project Management: A Development Perspective (Deep & Deep)
- 4. Chaudhary, S Project Management (Tata McGraw Hill)
- 5. Young TL The Hand Book of Project Management (Kogan Page)
- 6. Couger, C- Creativity and Innovation (IPP, 1999)

- 7. Nina Jacob, Creativity in Organisations (Wheeler, 1998)
- 8. Jonne&Ceserani Innovation & Creativity (Crest) 2001.
- 9. Bridge Setal- Understanding Enterprise: Entrepreneurship and Small Business (Palgrave, 2003)
- 10. Holt Entrepreneurship: New Venture Creation (Prentice-Hall) 1998.
- 11. Hunger J D and Wheelen T L Strategic Management (Addison-Wesley, 1999)
- 12. Dollinger M J Entrepreneurship (Prentice-Hall, 1999
- 13.J. Heagney.: "Fundamentals of project Management" (2011)
- 14. H. Kerzner. Project Management: A Systems Approach to Planning,
- 15. Scheduling and Controlling. John Wiley & Sons, 2006 Complementary references
- 16.M.P. Spinner, Project management: principles and practices, Prentice-Hall International, [1997]
- 17. Entrepreneurial Development: S.S. Khanka
- 18. Entrepreneurial Development: C.B.Gupta & N.P. Srinivasan
- 19. Project Management: S.Choudhury
- 20. Project Management: Denis Lock

Semester	Course Code	Course Title	Type of course	Credit	Teaching Hours		
IV		Financial Economics	Elective- C-1	3	90		
Course Objectives							

Financial economics is a very active field of applied economics research. The purpose of this course is to provide the foundations for the study of modern financial economics. Concentrating on individual's consumption and portfolio decisions under uncertainty, we will explore the implications of these decisions on the valuation of securities. The focus will be on single period models, although some dynamics, discrete-time models will be considered. The course will include Topics: present value and discounting, interest rates and yield to maturity, various financial instruments including financial futures, the efficient market theory, basic asset pricing theory, the capital asset pricing model, and models for pricing options use of derivatives for hedging. The course on Financial Economics is designed with the following objectives in mind. Firstly, to familiarize students with the financial system and its components viz. financial instruments, financial institutions, financial markets, and financial regulations. Secondly, to familiarize them with contemporary theories about the workings of different financial markets. Thirdly, to provide conceptual insights into the valuation of securities. To provide insight about the relationship of the risk and return and how risk should be measured to bring about a return according to the expectations of the investors; and finally, to familiarize the students with the fundamental and technical analysis of the diverse investment avenues.

Unit-1: Time and Resource Allocation

(20 Hours)

- 1.1. Time Value of Money: Why the time value of Money; Simple Interest and Compounded Interest; Nominal and Real Rates of Interest; Future Value.
- 1.2. Compounding—present value and discounting—discounted cash flow decision rules— Annuities—Loan Amortization—exchange rate and time value of money—inflation and DCF analysis— Perpetuity and Growing Perpetuity -taxes and investment decision.
- 1.3. Household saving and investment decisions--- A life cycle model of saving—social security—deferring taxes through voluntary retirement plans.
- 1.4. Analysis of investment project—Project analysis- NPV cost of capital—project with different lives—ranking mutually exclusive project and inflation and capital budgeting

Unit-2: Valuation Models: Valuation of Securities

(10 Hours)

- 2.1. Asset's value and its price---- law of one price and arbitrage---arbitrage and prices of financial assets—interest rates and law of one price
- 2.2. Valuation models: valuing real estate and shares of stock

- 2.3. Valuation of Bonds and stocks, Pure Discount Bonds, Coupon Paying Bonds, Bond Yield, Yield to Maturity
- 2.4. Valuation of Preference and Common stocks: Discounted-Dividend Model

Unit-3: Security analysis

(15 Hours)

- 3.1. Economic/Market Analysis
- 3.2. Industry Analysis
- 3.3. Company Analysis
- 3.4. Technical Analysis.

Unit-4: Risk Management and Portfolio Theory

(20 Hours)

- 4.1. Risk and Return Concepts: Concept of Risk, Types of Risk- Systematic risk, Unsystematic risk, Risk and Return: Concepts; Relationship Between Risk and Return; Calculation of Risk and returns: Variance and Standard Deviation- Trade-off between risk and return (the Markowitz model) -Risk Diversification
- 42 Portfolio Risk and Return: Expected returns of a portfolio, Calculation of Portfolio Risk and Return, Portfolio with 2 assets, Portfolio with more than 2 assets.
- 43. Risk management process—risk transfer: hedging, insuring and diversifying
- 4.4. Portfolio theory—process of personal portfolio selection—trade-off between expected return and risk—efficient diversification with many risk assets
- 45. Modern Portfolio Theory: Markowitz Model -Portfolio Selection, Opportunity set, Efficient Frontier. Beta Measurement and Sharpe Single Index Model
- 4.6 Capital Asset pricing model: Basic Assumptions, CAPM Equation, Security Market line, Extension of Capital Asset pricing Model - Capital market line, SML VS CML
- 47. Arbitrage Pricing Theory: Arbitrage, Equation, Assumption, Equilibrium. of Treynor, Sharpe and Lintner

48. Efficiency Management Hypothesis (EMH) – The weak, semi-strong and the strong form of EMH.

Unit-5: Derivative Markets

(25 Hours)

- 5.1. Markets for derivatives, Types, uses and pricing of derivatives; Future Contracts and Forward Contracts; Future and forward Markets, Origin of Future Trading; Future Prices Relation between Spot and Future Prices, Commodity Future; Financial Future; Hedging in Futures.
- 52 Options. The Put Option and Call Option; Option Pricing, the Pay-Offs. From Buying and Selling Options. Option Pricing Models: The Black-Scholes formula -The Binomial Model.
- 53. Swaps Currency and Interest Rate Swaps; Equity and Commodity Swaps.

Reference:

- 1. Zvi Bodie, Alex Kane and Alan J. Marcus: Financial Economics, 2nd Ed. McGraw-Hill
- 2. Chris Jones (2008): Financial Economics, Routledge.
- 3. Stephen F. LeRoy and Jan Werner (2003): Principles of Financial Economics
- 4. Chandra, Prasanna (2016), Investment Analysis and Portfolio Management, Tata McGraw Hills.
- 5. Charles P. Jones (2013): Investments: Analysis and Management, 12th Ed, Wilev.
- 6. David G. Luenberger (1997): Investment Science, Oxford University Press, USA.
- 7. Elton, E.J and et.al, (2014): Modern Portfolio Theory & Investment Analysis, 9th EdJohn Wiley & Sons.
- 8. Frank K. Reilly and Keith C. Brown (2012): Investment Analysis and Portfolio Management, 10th Ed, South-Wester, Cengage Learning.
- 9. John C. Hull, (2005), Options Futures and other Derivatives, Prentice Hall, New Delhi
- 10. Zvi Bodie, Alex Kane and Alan J. Marcus (2011), Investments, 9th Ed, ISBN: 0-07-338237-X. McGraw-Hill
- 11. Bradford D. Jordan, Thomas W. Miller Jr. and Steven D. Dolvin (2012): Fundamentals of Investments: Valuation and Management, 7th Ed, McGraw Hill publication.
- 12. David G.Luenberg (2000): Investment Science, OUP.
- 13. Haugen Robert (2017): Modern Investment Theory, Pearson Education
- 14. Jack Clark Francis and Dongcheol Kim (2013): Modern Portfolio Theory: Foundations, Analysis, and New Developments, John Wiley & Sons, Inc

Semester	Course Code	Course Title	Type of course	Credit	Teaching	
					Hours	
IV		Game Theory and Its	Elective- C-2	3	90	
		Economic Applications				
Course Objectives						

The study of economics is an attempt to understand the ways in which people behave and make decisions, as individuals and in group settings. The goal is to apply our understanding to the analysis of questions pertinent to the functioning of societies and their institutions. Social scientists have developed frameworks and rigorous models that abstract from reality with the intent of focusing attention on the crux of the issues at hand. We use these models not only to shed light on what we observe but also to help us predict what we cannot yet see. This programme covers the main ideas of the field and shows how they have been applied to many situations drawn from economics. Game theory provides a framework based on the construction of rigorous models that describe situations of conflict and cooperation between rational decision makers. Following the tradition of mainstream decision theory and economics, rational behaviour is defined as choosing actions that maximize one's payoff subject to the constraints that one faces. This is clearly a caricature of reality, but it is a useful benchmark that in many cases works surprisingly well. Topics include strategic games, extensive games, repeated games, Non-cooperative static games, dynamic games with perfect and imperfect information. Game theory has been successfully applied to many relevant situations, such as business competition, the functioning of markets, political campaigning, jury voting, auctions and procurement contracts, and union negotiations, to name just a few. This module is designed to equip students with a solid understanding of modern game theory. The aim of the module is to help students to conduct research in game theory and/or apply game theory in economic models.

Unit- 1: Introduction to Game Theory

(10 Hours)

- 1.1. Strategic behaviour
- 1.2. Belief, strategy and expected payoff
- 1.3. Normal and extensive forms
- 1.4. Prisoner's dilemma
- 1.5. Nash equilibrium

Unit- 2: Non-cooperative Static Games: Complete information

(25 Hours)

- 2.1. One-time games- Dominant strategies and equilibrium
- 2.2. Three player games—Non-dominant strategies—Multiple Nash equilibrium—Focal point equilibrium

- 2.3. Evolutionary game theory-Infinitely and Finitely repeated games—Collusion— Trigger strategies—Cheating and threats—End of game problem—Folk theorem— Certain and uncertain end—Common enforcement mechanisms—N-person games— Simplifying assumptions—Proportional games
- 2.4 Mixing pure strategies—Zero sum games—Minimax theorem—Mixed strategies— Optimal mixing rules—Randomising pure strategies—Bluffing
- 2.5 Static games with continuous strategies—Reaction functions—Shifting reaction functions

Unit- 3: Dynamic Games with Perfect Information

(20 Hours)

- 3.1. Game trees—Sub game perfect equilibrium—Backward induction—First mover advantage—Credible threats—Dynamic games with continuous strategies
- 3.2. Pure strategies with uncertain payoffs—Static and dynamic games with uncertain payoffs—Harsanyi transformation
- 3.3. Static Bayesian game—Bayesian Nash equilibrium
- 3.4. Risk and uncertainty—Attitudes towards risk—Risk averse behaviour of consumer and firm

Unit- 4: Dynamic Games with Imperfect Information

(10 Hours)

- 4.1. Dynamic games with imperfect information—Information sets—Bayesian updating
- 4.2. Separating strategy—Pooling—Strategy screening

Unit-5: Application of Games

(25 Hours)

- 5.1. Mechanism design—Game design and revelation principle
- 5.2. Social mechanism design—Liability—Paradox of benevolent authority
- 5.3. Voting games—Strategic voting—Voting problems and criteria—Alternative voting schemes
- 5.4. Auctions—Auction types—Auctions with complete and perfect information, independent private values—Common value auctions and winner's curse—Efficiency of auctions— Design of Optimal Auctions—Revenue equivalence theorem

Essential Reading:

- 1) Martin J. Osborne (2012): An Introduction to Game Theory, Oxford University Press
- 2) Thomas J Webster (2009): Introduction to Game Theory in Business and Economics, Segment Books
- 3) H. Scott Bierman, Luis Fernandez (2011): Game Theory with Economic Applications, Addison Wesley.
- 4) Robert Gibbons (2005): Game Theory for Applied Economists, Princeton University Press.

Supplementary Reading:

- 1. Å. N. Barron (2008): Game Theory: An Introduction, John Wiley & Sons, Inc., **Publication**
- 2. Akio Matsumoto . Ferenc Szidarovszky (2016) : Game Theory and Its Applications, Springer.
- 3. Andrew M. Colman (2003): Game Theory and its Applications in the Social and Biological Science, 2nd Ed, Routledge.
- 4. Aviad Heifetz (2012): Game Theory: Interactive Strategies in Economics and Management, Cambridge University Press.
- 5. Avinash Dixit and Susan Skeath (2004): Games of Strategy, W. W. Norton & Company.
- 6. Benoit Chevalier-Roignant and Lenos Trigeorgis (2016): Competitive Strategy: Options and Games, The MIT Press.
- 7. Charles A Holt (2007): Markets, Games and Strategic Behaviour, Pearson.
- 8. Drew Fudenberg and Jean Tirole: Game Theory, The MIT Press.
- 9. Eric Rasmussen (2010): Games and Information: An Introduction to Game Theory,4th Ed. Wiley-Blackwell
- 10. Fiona Carmichael (2005): A Guide to Game Theory, PHI.
- 11. Game Theory and Economics by Dr. Debarshi Das, Department of Humanities and Social Sciences, IIT Guwahati. For more details on NPTEL visit http://nptel.iitm.ac.in.
- 12. Graham Romp (1997): Game Theory: Introduction and Applications, OUP.

- 13. Joel Watson (2013): Strategy: An Introduction to Game Theory, 3rd Ed. WW Norton & Company.
- 14. Robert Gibbons (2000): A Primer in Game Theory, PHI.
- 15. Roger A. McCain (2010): Game Theory: A Non-Technical Introduction to the Analysis of Strategy, World Scientific Publishing Co Pte Ltd.
- 16. Saul Stahl (2016): A Gentle Introduction to Game Theory, AMS.
- 17. Steven Tadelis (2013): Game Theory: An Introduction, Princeton University Press.

Semester	Course Code	Course Title	Type of course	Credit	Teaching Hours
IV		Economics of Business Strategy	Elective- C-3	3	90
Course Objectives					

This course in applied microeconomics is concerned with the behavior and performance of firms in markets, with a focus on strategic interactions. It goes beyond the perfectly competitive model by considering the nature of firms, market power and how it affects their behavior and subsequently consumers? The broad goal of Business Strategy is to cut across the whole spectrum of business and management. The purpose of the course is to help support the creation of a holistic understanding of the firm - about the industry and the competitive environment in which i operates. Furthermore, the purpose is also to enable an understanding of the long-term direction and strategy of a firm, its resources and competitive capabilities as well as its prospects for success. The learning objectives of the Business Strategy course are:

*To develop your capacity to think strategically about a firm as a whole; about its present business position, its long-term direction, its resources and competitive capabilities, the nature of its strategy and its opportunities for gaining sustainable competitive advantage.

*To develop your skills in conducting strategic analysis in a variety of industries and competitive situations and, especially, to provide you with a strong understanding of the competitive challenges of a global market.

*To get you acquainted with managerial tasks associated with implementing and executing firm strategies, to drill you in the range of actions managers can take to promote competent strategy execution

Unit-1: Approach to Competitive Market Analysis

(10 Hours)

- 1.1. The Structure Conduct Performance Paradigm of Joe S. Bain
- 1.2. Alternative Approaches to Competitive Analysis--Austrian and Schumpeterian views—Baumol's Contestable markets
- 1.3. Managerial approach
- 1.4Transaction cost analysis
- 1.5. Porter's "Five Forces" model of competition.
- 1.6. Organization Ecology

Unit- 2: Analysis of Firm Strategy-I

(25 Hours)

- 2.1. Product Differentiation: Forms of product differentiation--Horizontal and vertical product differentiation- Theoretical analysis of product differentiations—The Bertrand model with product differentiation—product differentiation with asymmetric information-- The Lemons Model ---Adverse Selection- Lancaster's product characteristics model --- Location Models: Hotelling's location model --- Salop's location model
- 2.2.Pricing strategy: Cost-oriented methods: Mark-up, cost-plus, Break-even, target return pricing. --Market-oriented Methods: Going-rate pricing, Premium pricing, Discount pricing, Sealed-bid Pricing-Peak-Load Pricing-Multi-Product Pricing-Predatory pricing --Pricing of a new product: Skimming and Penetration pricings---Non-Linear Pricing Practices: Price Discrimination -Conditions and Types of Price Discrimination -Perfect, Individual and Group (Second Degree) and multimarket (Third-Degree) Price Discrimination- Block-Declining Tariff- Two-Part Tariff-Bundling- Tying- Quantity discounts- Ramsey pricing- Quality differentiation-Priority pricing and efficient rationing
- 2.3. The Advertising Decision of the Firm: Marginalistic, Profit-Maximising Models of The Advertising Decision--Buchanan's Advertising-Price Model--Schmalensee's Model of Oligopoly Advertising--A Managerialist Model of Advertising: The Baumol-Hawkins-- Bushnell-Kafoglis Static Model-- A Model of Advertising Barriers: Williamson's--Model of Advertising as an Entry -Prevention Strategy-Effects of Advertising.

Unit- 3: Analysis of Firm Strategy-II

(20 Hours)

- 3.1. Entry and Exist: Barriers to entry --- Structural, Legal barriers and Geographic barriers
 - Taxonomy of entry-related strategies---Entry-deterring strategies --Entry accommodation --- Product Proliferation-- Natural monopoly and contestability-sunk costs and barriers to entry- the Stackelberg Spence_Dixit model-The

Milgrom-Roberts Model of Limit Pricing - The theory of contestable markets.

3.2. Cartels and collusion: Cartels Form -- Creating and Enforcing the Cartel - Factors That Facilitate the Formation of Cartels: Simultaneous and Sequential cartel formation- Network of market-sharing -- tacit collusion-- multimarket contactcyclical demand---detecting and fighting collusion-The difficulty in detecting collusion -Leniency and whistleblowing programmes.

Unit- 4: Corporate Strategy: Integration-Diversification-Merger and Acquisitions

(20 Hours)

- 4.1. Diversification --- Corporate focus and De-conglomeration-- The multinational enterprise
- --Concentric-horizontal and conglomerate diversification.
- 4.2. Mergers and Acquisitions (Takeover): Difference between Merger and Takeover-Mergers and the Profit-maximisation Hypothesis- Mergers and the Valuation-Discrepancies Hypothesis- Mueller's Model of Conglomerate Mergers
- 4.3. Vertical Integration and Vertical Restraints-motives and forms of vertical restraints, Measures and determinants—Franchising.
- 4.4. Foreign Direct Investment (FDI): Types and Causes of Horizontal and Vertical FDI-Economic Effects of Foreign Direct Investment

Unit- 5: Government and Business: Regulation and Deregulation

(15 Hours)

- 5.1. Market Failure and Government Policy: Market Failure and The Case for Government Intervention - Regulating to Correct A Market Failure-Applying the Cost-Benefit Principle to Regulation
- 5.2. Antitrust Law and Competition -The Inefficiency of Competition with Externalities - Reducing Externalities
- 5.3. Governmental Protection of Business -- Protection of Intellectual Property --Licensing and Permitting -Patents -Copyright Protection -Competition Policy.

Essential Reading:

- 1. John Lipczynski and John Wilson (2010): The Economics of Business Strategy, Prentice Hall.
- 2. A. Koutsoyiannis (1982): Non-Price Decisions: The Firm in a Modern Context, The Macmillan Press Ltd.
- 3. Dennis W. Carlton and Jeffrey M. Perloff (2015): Modern Industrial Organization 4th Ed, Pearson.
- 4. Besanko, Dranove, Shaley and Schaefer (2013): Economics of Strategy,6th Ed, Wiley.
- 5. Don E. Waldman Colgate and Elizabeth J. Jenson (2013): Industrial Organization Theory and practice 4th Ed, Pearson.
- 6. Jay B.Barney (2014): Gaining and Sustaining Corporate Strategy, 6th Ed, Pearson.
- 7. Paul Belleflamme and Martin Peitz(2010): Industrial Organization: Markets and Strategies, Cambridge University Press.
- 8. Luis M.B.Cabral(2002): Introduction to Industrial Organization, The MIT Press.
- 9. John Lipczynski, Johan O.S. Wilson and John Goddard(2017): Industrial Organisation: Competition, Strategy and Policy, 5th Ed, Pearson.

Additional Reference:

- 10. Jean Tirole (2007): Theory of Industrial Organisation, PHI.
- 11. Maria Moschandreas (2002): Business Economics, 2nd Ed, Thomson.
- 12. Jeffrey Church and Roger Ware (2001): Industrial Organisation: A Strategic Approach, Irwin Mc Graw-Hill.
- 13. Kenneth D. George, Caroline Joll and E.L.Lynk(2001): Industrial organisation Competition, Growth and Structural Change, 5th Ed, Routledge.
- 14. Lynne Pepall, Dan Richards and George Norman (2014): Industrial Organisation; Contemporary Theory and Empirical Application, 5th Ed, Wiley.
- 15. Malcolm C. Sawyer (1991): The Economics of Industries and Firms: Theories, Evidence and Policy, 2nd Ed, Routledge.
- 16. Martin Ricketts (2002): The Economics of Business Enterprise: An Introduction to Economic Organisation and the Theory of Firm, 3rd Ed, EdwardElgar.
- 17. Oz Shy (1995): Industrial Organisation: Theory and Applications, The MIT Press.
- 18. Stephen Martin (2010): Industrial Organisation in Context, OUP.
- 19. Stephen Martin, Advanced Industrial Economics; Blackwell, 2003.
- 20. Handbook of Industrial Organization, Vol. I, II, and III.

- 21. Ian M. Dobbs (2010): Managerial Economics: Firms, Markets and Business Decisions, OUP.
- 22. Paul G. Kear, Philip K.Y. Young and Stephen E. Erfle (2011): Managerial Economics: Economic Tools for Today's Decision Makers, Pearson. William F. Samuelson and Stephen G. Marks (2012): Managerial Economics,7th Ed, John Wiley & Sons, Inc.
- 23. Michael R.Baye (2012): Managerial Economics and Business Strategy, 7th Ed, McGraw-Hill.
- 24. Luke M.Froeb and Brian McCann(2008): Managerial Economics: A Problem Solving Approach, Thomson.
- 25. Christopher R Thomas and Charles Maurice (2013): Managerial Economics: Foundations of Business Analysis and Strategy, Mc Graw Hill.
- 26. Thomas J. Webster (2010): Managerial Economics: Theory and Practice, Academic Press.
- 27. Majes R. McGuigan, Charles Moyer and Frederick M deB. Harris (2012): Managerial Economics: Application, Strategy and Tactics, South-Western.
- 28. Jeffrey M. Perloff and James A. Brander (2018): Managerial Economics and Strategy, Pearson

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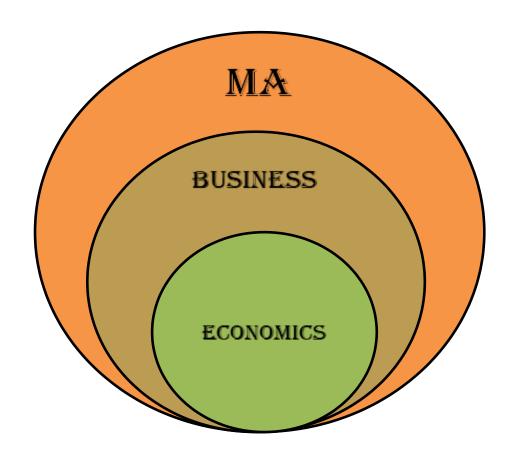
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Convener

Expert Committee for M.A. Business Economics







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