

# Chaudhary Bansi Lal University, Bhiwani



## **Examination Scheme & Syllabus**

**For**

**M.A. - ECONOMICS  
(SEMESTER- I to IV)**

**(2019-21)**



# Chaudhary Bansi Lal University, Bhiwani

(A State University established by Govt. of Haryana Act No. 25 of 2014)

## Study & Evaluation Scheme of M.A. ECONOMICS

### Summary

<b>Program</b>	:	M.A ECONOMICS
<b>Duration</b>	:	Two year full time (Four Semesters)
<b>Medium</b>	:	English
<b>Attendance</b>	:	75 percent
<b>Total Credits</b>	:	<b>104</b>

### Assessment/Evaluation

Theory			Practical	
Internal	External	Total	External	Total
20	80	100	50	50

### Internal Evaluation

Minor	Attendance	Assignment	Total
10	5	5	20

### Duration of Examination

External	Minor Test
3 hrs	1 hr

To qualify the course, a student is required to secure a minimum of 40% marks in aggregate including the end semester examination and internal evaluation (i.e. both internal and external). A candidate who secures less than 40% of marks in a course shall be deemed to have failed in that course. The student should have at least 40% marks in aggregate to clear the semester.

### Question Paper Structure

1. The question paper shall consist of 9 questions. Out of which, first question shall be of short answer type and will be compulsory. Question no. 1 shall contain 10 parts representing all units of the syllabus and students shall have to answer any 8 parts.
2. There shall be 2 questions from each unit having internal choice. The students are required to attempt any one question from each unit. The weightage for each question shall be 16 marks.

**Scheme of Examination for M.A. ECONOMICS**

**Semester-I**

**Credits=26**

**Marks=700**

Sr. No.	Paper Code	Subjects	Type of Course	Contact Hours Per Week			Credit			Examination Scheme			Total
				Theory	Practical /Seminar	Total	Theory	Practical /Seminar	Total	Theory	Internal Assessment	Practical /Seminar	
1	19ECO101	Microeconomics-I	C. C	4	--	4	4	--	4	80	20	--	100
2	19ECO102	Macroeconomics-I	C. C	4	--	4	4	--	4	80	20	--	100
3	19ECO103	Economics of Growth & Development	C. C	4	--	4	4	--	4	80	20	--	100
4	19ECO104	Mathematics for Economists	I.D.C.	4	--	4	4	--	4	80	20	--	100
5	19ECO105	IT Fundamentals	I.D.C	4	4	8	4	2	6	80	20	50	150
6	19ECO106	Issues of Contemporary Relevance	C.M.C.	--	4	4	--	2	2	--	10	40	50
7	OEC (As per University Policy)		CBCS	2	--	2	2	--	2	80	20	--	100
8	Hobby Club		G.E. Non-CGPA	At least one hour will be conducted per week or 16 hours per semester.						As per University Policy framed for Hobby Club			
<b>Total</b>				<b>22</b>	<b>9</b>	<b>31</b>	<b>22</b>	<b>4</b>	<b>26</b>	<b>480</b>	<b>130</b>	<b>90</b>	<b>700</b>

- Each student will opt one course from the pool of OEC provided by the University, excluding the OEC prepared their respective department.

**C.C. = Core Course**

**I.D.C. = Inter Disciplinary Course**

**C.M.C. = Complementary Course**

**Scheme of Examination for M.A. ECONOMICS**

**Semester-II**

**Credits= 28**

**Marks=750**

Sr. No.	Paper Code	Subjects	Type of Course	Contact Hours Per Week			Credit			Examination Scheme			Total
				Theory	Practical /Seminar	Total	Theory	Practical /Seminar	Total	Theory	Internal Assessment	Practical /Seminar	
1	19ECO201	Microeconomics-II	C.C.	4	--	4	4	--	4	80	20	--	100
2	19ECO202	Macroeconomics-II	C.C.	4	--	4	4	--	4	80	20	--	100
3	19ECO203	Statistics for Economists	I.D.C.	4	4	8	4	2	6	80	20	50	150
4	19ECO204	Money, Banking & Finance	C.C.	4	--	4	4	--	4	80	20	--	100
5	19ECO205	Communication Skills	C.M.C.	4	4	8	4	2	6	80	20	50	150
6	19ECO206	Issues of Contemporary Relevance	C.M.C.		4	4		2	2		10	40	50
7	OEC (As per University Policy)		CBCS	2	--	2	2	--	2	80	20	--	100
8	Hobby Club		G.E. Non-CGPA	At least one hour will be conducted per week or 16 hours per semester.						As per University Policy framed for Hobby Club			
<b>Total</b>				<b>22</b>	<b>13</b>	<b>35</b>	<b>22</b>	<b>06</b>	<b>28</b>	<b>480</b>	<b>130</b>	<b>140</b>	<b>750</b>

**C.C. = Core Course**

**I.D.C. = Inter Disciplinary Course**

**C.M.C. = Complementary Course**

**Scheme of Examination for M.A.-ECONOMICS**

**Credits= 25**

**Marks=625**

<b>Semester-III</b>		<b>Type of Course</b>	<b>Contact Hours per week</b>			<b>Credits</b>			<b>Examination Scheme</b>			<b>Total</b>	
<b>Paper Code</b>	<b>Subjects</b>		<b>Theory</b>	<b>Practical/ Seminar</b>	<b>Total</b>	<b>Theory</b>	<b>Practical /Seminar</b>	<b>Total</b>	<b>Theory</b>	<b>Internal Assessment</b>	<b>Practical/Seminar</b>		
19ECO301	Public Economics I	C.C.	4	--	4	4	--	4	80	20	--	100	
19ECO302	International Economics	C.C.	4	--	4	4	--	4	80	20	--	100	
19ECO303	Indian Economy I	C.C.	4	--	4	4	--	4	80	20	--	100	
19ECO304	Basic Econometrics	C.C.	4	--	4	4	--	4	80	20	--	100	
<b>Students will be allowed to opt any One Group</b>	<b>Group –I</b>												
	19ECO305	Agricultural Economics	E.C.	4	--	4	4	--	4	80	20	--	100
	19ECO306	Rural Development	E.C.	4	--	4	4	--	4	80	20	--	100
	<b>Group-II</b>												
	19ECO307	Industrial Economics	E.C.	4	--	4	4	--	4	80	20	--	100
	19ECO308	Labour Economics	E.C.	4	--	4	4	--	4	80	20	--	100
	<b>Group –III</b>												
	19ECO309	Advance Technologies	E.C.	4	--	4	4	--	4	80	20	--	100
	19ECO310	Mathematical Economics	E.C.	4	--	4	4	--	4	80	20	--	100
	<b>Group- IV</b>												
19ECO311	Fundamental of Environmental Economics	E.C.	4	--	4	4	--	4	80	20	--	100	
19ECO312	Natural resource in Economics	E.C.	4	--	4	4	--	4	80	20	--	100	
19ECO313	Seminar/ Journal Club		--	2	2	--	1	1	--	--	25	25	
Hobby Club		G.E. Non-CGPA	At least one hour will be conducted per week or 16 hours per semester.						As per University Policy framed for Hobby Club				
<b>Total</b>			<b>24</b>	<b>3</b>	<b>27</b>	<b>24</b>	<b>1</b>	<b>25</b>	<b>480</b>	<b>120</b>	<b>25</b>	<b>625</b>	

**C.C. = Core Course**

**I.D.C. = Inter Disciplinary Course**

**C.M.C. = Complementary Course**

**E.C. = Elective**

**Scheme of Examination for M.A.-ECONOMICS**

**Semester-IV**

**Credits= 25**

**Marks=600**

Paper Code	Subjects	Type of Course	Contact Hours per week			Credits			Examination Scheme			Total	
			Theory	Practical/ Seminar	Total	Theory	Practical /Seminar	Total	Theory	Internal Assessment	Practical/S eminar		
19ECO401	Public Economics II	C.C.	4	--	4	4	--	4	80	20	--	100	
19ECO402	Economy of Haryana	C.C.	4	--	4	4	--	4	80	20	--	100	
19ECO403	Indian Economy II	C.C.	4	--	4	4	--	4	80	20	--	100	
19ECO404	Project Dissertation	C.C.	4	--	4	4	--	4		50	50	100	
<b>Students will be allowed to opt any One Group</b>	<b>Group –I</b>												
	19ECO405	Agribusiness Management	E.C.	4	--	4	4	--	4	80	20	--	100
	19ECO406	Agricultural Food & Processing Management	E.C.	4	--	4	4	--	4	80	20	--	100
	<b>Group-II</b>												
	19ECO407	Population Economics	E.C.	4	--	4	4	--	4	80	20	--	100
	19ECO408	Economic Environment of Business	E.C.	4	--	4	4	--	4	80	20	--	100
	<b>Group –III</b>												
	19ECO409	Advanced Econometrics	E.C.	4	--	4	4	--	4	80	20	--	100
	19ECO410	Economic Data Analytics	E.C.	2	4	6	2	2	4	40	10	50	100
	<b>Group- IV</b>												
19ECO411	Environmental Problem & Policies	E.C.	4	--	4	4	--	4	80	20	--	100	
19ECO412	Energy Economics	E.C.	4	--	4	4	--	4	80	20	--	100	
19ECO413	Seminar/ Journal Club		--	2	2	--	1	1	--	--	25	25	
Hobby Club		G.E. Non-CGPA	At least one hour will be conducted per week or 16 hours per semester.						As per University Policy framed for Hobby Club				
<b>Total</b>			<b>24</b>	<b>3</b>	<b>27</b>	<b>24</b>	<b>1</b>	<b>25</b>	<b>480</b>	<b>120</b>	<b>25</b>	<b>625</b>	

C.C. = Core Course

I.D.C. = Inter Disciplinary Course

C.M.C. = Complementary Course

E.C. = Elective Course

**Duration - 2 Years (4 Semesters)**

**Total Credits - 104**

## POLICY ON HOBBYCLUB

### **1. List of Clubs (Both for UG and PG Programs)**

1. IT Innovators Club (IT Club)
2. Performing Arts (Dance, Drama, Singing)
3. Sports and Fitness Club (Including the Indoor and Outdoor games, Yoga and Meditation)
4. Outreach (Extension and Rural Activities Club like social awareness programs and sensitization)
5. Literary (Debate, Declamation, and Writing skills)
6. Fine Arts (Painting, Drawing, Sculpture, and Graphics)
7. Photography and Videography
8. Gardening & Landscaping
9. Entrepreneurship
10. Media Club
11. Culinary Skills (Cooking)

### **2. Criteria for Evaluation (Both for UG and PG Program)**

The criteria for the evaluation of the same may be framed as:

(a) Minimum Attendance (50%)

Less than 60%:	No Marks
60%-75%:	30 Marks
76%-90%:	40 Marks
91%-100%:	50 Marks

(b) Participation in the Events organized by the club (15%)

(c) Organizing the In-House Club Events (15%)

(d) Participation/ organizing a National or State level event (10%)

(e) Positions in the National / State Level event (10%)

### **3. Mode of Conduct**

List of clubs and their faculty coordinators will be floated at the beginning of each session and every student will mandatory choose one club as per his / her choice. This hobby club will be evaluated for 1 credits each in each semester for the first four semesters (Semester 1-4) in both UG as well as in PG Courses) as per the evaluation policy. However, these credits will not be added to the SGPA / CGPA. They will be counted together and the final letter grade will be reflected in the final DMC of the students with the name as **“Hobby club”**.

These hobby clubs will primarily run in the workshop mode, where one teacher will be assigned as coordinator to look after the over-all responsibility of the clubs. It is suggested that one workshop / meeting of atleast 1 hr will be conducted per week or 16 hours per semester (if in the long workshop mode). At least one event will be organized by the club during each semester. Students will be encouraged to organize and participate in the events. They will also be encouraged to participate in the national and state level programs.

### **4. Review**

The structure and implementation of the clubs will be reviewed after every three years.

## DETAILS ON THE CLUBS

### **1. IT Innovators (Information and Technology)**

This group will focus on encouraging students with interest in Information and Technology to come up with new ideas. It will be a platform for young budding talent to share their thoughts. It will also focus on increasing awareness about latest trends in technology by way of seminars, competitions etc. Students will also get an exposure for showcasing any new inventions they make. The group will expose the students to professionals of the industry and help them get correct guidance from industry experts.

### **2. Performing Arts (Theatre, Drama, Music- Vocal and Instrumental)**

This group will focus on activities related to various arts like singing, dancing, drawing, theatre etc. The group will organize cultural programs on different occasions as feasible. They will take charge of all the cultural activities that take place in the university. The students will get an opportunity to showcase their creativity. They will be guided regularly by expert artists by way of seminars, movies, activities etc. It will help in overall development of the students and harness their creative energies.

### **3. Sports and fitness (Yoga, Meditation, Indoor Games and Outdoor Games)**

In today's world people are living a very stressful life. They are losing on their health for earning money. People are not able to perform to their most optimum capacity because of health; stress etc. This group will try to bring the much needed work life balance. This group will focus on mental and physical fitness. They will start yoga, meditation, aerobics etc. They will also encourage increased participation in university sports teams. The group will organize regular camps of yoga, meditation, to increase the concentration and stamina of students.

### **4. Outreach (Activities having social Impact)**

Youth is the future of society and has the power to change it. This group will strive for making a social impact, bringing about the positive changes in the society we live in. The students will regularly engage in activities that will create a better society. This group will organize events for improving our society. It will provide hands on experience, of dealing with people, to the participants and raise a socially sensitive youth.

### **5. Literary (Debates, Declamations and Writing skills)**

The Literary club will endeavor to promote languages and literature. From time to time, the club will organize a rich and diverse array of literary activities such as debates, declamations, group discussions, poetry writing and recitation, short story writing, interactive/lecture sessions, etc. Through these activities, literary coordinators (student and teacher) reach out to language and literature lovers and try to create a space for sharing emotions and thoughts.

### **6. Fine Arts (Painting, Drawing, sculpture and Graphics)**

The fine art club aims to encourage students to express their thoughts, feelings and creativity through the various multidimensional art forms like sketching, painting, Sculpturing etc. It attempts to tap the inherent talents and potentials of the student community at all levels of life. It provides an opportunity to the students to let their imagination run wild and provides



them with the sight to see things in a different way. Students learn from one another and share their prowess in different aspects of art.

### **7. Photography and Videography**

This club aims at providing a supportive environment for students interested in photography and videography to share their creativity, knowledge and hobby. The club will hold regular meetings and discussions and organize events such as; photo-walks, field trips, museum and gallery visits, and lectures and workshops by visiting artists. Members will also explore the possible opportunities for photography projects in collaboration with other campus departments, organize peer to peer portfolio reviews and explore the possibilities of exhibitions on and off campus.

### **8. Gardening and Landscaping**

This is a group for people with shared interests in gardens, gardening, plants and nature around us. In the current scenario it has become imperative that we take care of the environment we live in. this club is for people who are sensitive towards the natural environment we live in and find joy in getting close with the nature. This group will organize activities like tree plantation, lectures for enhancing knowledge about different plants, participating in social events pertaining to creating awareness about plants.

### **9. Entrepreneurship**

Entrepreneurs are the present and future of our country. We need people who can generate employment for themselves and others as well. The Entrepreneurship Club aims to provide a conduit by which students can access entrepreneurial resources, network with community entrepreneurs, and share ideas. The club is dedicated to furthering understanding about new and small businesses.

### **10. Media**

The Media Club is an exclusive platform for the college students which give students hands on experience of the real world, behind the scenes with many diverse types of activities planned and designed to understand the importance of journalism and media. The club brings together like minded people who have a keen interest in the media industry. The club will regularly organize workshops, information sessions and field trips to gain better and deeper understanding of the field.

### **11. Culinary skills (Cooking)**

Learning how to cook healthy and enjoyable meals is an important and valuable skill. Food brings people together and this club would do so in a way that integrates learning as well. The goals of this club are not only to cook these meals as a community but also to teach culinary skills, bring awareness, and dedicate our time to food justice and sustainability; advocating for the right to healthy, nutritious, fresh food.

## **I. SEMINAR/JOURNAL CLUB**

Maximum Marks-25

Every candidate will have to deliver a seminar of 30 minutes duration on a topic (not from the syllabus) which will be chosen by him / her in consultation with the teacher of the department. The seminar will be delivered before the students and teachers of the department. A three member committee (one coordinator and two teachers of the different department) duly approved by the departmental council will be constituted to evaluate the seminar. The following factors will be taken into consideration while evaluating the candidate. Distribution of marks will be as follows:

- |                                |          |
|--------------------------------|----------|
| 1. Presentation                | 10 marks |
| 2. Depth of the subject matter | 10 marks |
| 3. Answers to the questions    | 05 marks |

## **II. PROJECT DISSERTATION AND VIVA-VOCE**

Maximum Marks-

100

The purpose of including Project in M.A Economics Program is to provide an opportunity to investigate a real life problem in a scientific manner. It enables students to apply the conceptual knowledge in a practical situation and to learn the art and science of conducting a study in a systematic way and presenting its findings in the form of report. Students are encouraged to involve themselves completely in the project work starting from topic and supervisor allotment in the 3<sup>rd</sup> semester and the project report in the 4th (Final) semester. The topic selected for the project should be appropriate to the subject. The project should be genuine and having original work, and should not be copied from anywhere else. A Viva-Voce Examination will be conducted by the External examiner appointed by the University on the problems undertaken in the Project.

### **Instructions for Students**

1. Submit Report in two typed copies of A4 size 10-12 pages (both sides in 1.5 line spaces in Times New Roman Font size 12).
2. Organize your Report in three broad steps:
  - (a) Introductions
  - (b) Main Body
  - (c) Conclusions
3. Use headings and sub-headings
4. Use graphics wherever necessary
5. Give a list of books/references cited
6. The external examiner will evaluate the Report in two ways i.e. Evaluation 25 Marks and Viva-Voce 25 marks.

## **III. Issues of Contemporary Relevance**

Maximum Marks-

50

This course aims to acquaint students with the current economic scenario. Students need to read newspaper like Mint/ The Economic Times (any one of them). Concerned faculty will choose any two latest news per lecture and discuss it with students in the class. They have to share the picture of news with the students through WhatsApp group. Student will maintain a record of all

the news in a file. A Viva-Voce Examination will be conducted by the External examiner appointed by the University.

## SEMESTER I

<b>Department of Economics</b>		<b>Batch : 2019-21</b>	
<b>Program: MA</b>		<b>Academic Year: 2019-20</b>	
		<b>Semester: I</b>	
1	Course Code	19ECO101	
2	Course Title	Microeconomics I	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Compulsory	
5	Course Objective	An introductory course in Micro Economics equip with the students with theoretical concepts, methodology and process of reasoning involved in analyzing economic behavior of Individuals, firms and market using general, static and partial equilibrium framework.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Demonstrate understanding of basic concepts of Micro Economics.</p> <p><b>CO2:</b> Analyze the Consumer behavior through different approaches.</p> <p><b>CO3:</b> Carry Out the consumer behavior under different types of goods.</p> <p><b>CO4:</b> Analyze the Consumer Behavior under Certainty and Uncertainty.</p> <p><b>CO5:</b> Demonstrate the Concept of Production function i.e.to analyzes the economic behavior of producer and Concept related to it.</p> <p><b>CO6:</b> Explain the economic behavior of Market in different types of market structure.</p> <p><b>CO7:</b> Critically assess the theories and model related to market.</p> <p><b>CO8:</b> Explain the concept of cost and and how it affects firms decision</p>	
7	Course Description	The course provide with the basic concepts and methods of analyzing Economic behavior of Individuals, Firms and market.	
8	Outline syllabus		CO Mapping
	<b>Unit 1</b>	<b>Central Ideas Of Economics &amp; Consumer Behavior</b>	
	A	Definition, Nature, Importance, Role, Limitations of Micro Economics	CO1
	B	Cardinal Analysis	CO1
	C	Ordinal Analysis	CO1
	D	Income and Substitution Effects (Hicks and Slutsky approach), Normal vs. Inferior goods, Derivation of Marshallian and compensated demand curve	CO2
	E	Revealed Preference Theory	CO2
	<b>Unit 2</b>	<b>Analysis of Consumer choice under Certainty and Uncertainty</b>	
	A	Elasticity of Demand	CO3
	B	Market Demand: The role of Network Externalities, Bandwagon effect, Veblen and Snob Effects.	CO2
	C	Consumer Surplus: Hicks and Marshall approach	CO2
	D	Measurement of risk, Expected Utility and Preferences towards Risk, Risk Return Trade off	CO4
	E	Asymmetric Information: Moral Hazard, Adverse selection	CO4

		problem	
	<b>Unit 3</b>	<b>Theory of Production and Cost</b>	
	A	Input Choice and Cost with one Variable Input, Law of Returns to Variable Proportions	CO5
	B	Expansion Path, and Returns to Scale, Rate of Technical Substitution	CO5
	C	Cost Curves, Derivation of Short Run & Long Run Cost Curves	CO5,CO8
	D	Economies of Scale, Economies of Scope, The learning Curve Analysis	CO5
	E	Technical Progress, Simple Case of Multiproduct Firm	CO5
	<b>Unit 4</b>	<b>Market Structure and Theory of Firm</b>	
	A	Profit Maximization and Equilibrium of a Firm and Industry in the Short Run and Long Run under Perfect Competition including the Supply Curve	CO6
	B	Monopoly : Source, Measurement, Monopoly Power, Monopoly Price Determination and Discrimination , Inter-temporal Price Discrimination and Peak- Load Pricing, Two part tariffs and Tie-in-Sales	CO6
	C	Monopolistic Competition: Characteristics, A firm's Short and Long Run Equilibrium with Differentiated Products and Selling Costs, Group Equilibrium, issue of Excess Capacity	CO6
	D	Oligopoly – Non-Collusive Models: Cournot , Bertrand Models	CO7
	E	Stackelberg and Chamberlin solutions, Kinked Demand Curve	CO7
	Mode of examination	Theory	
	Weightage Distribution	CA	MTE
		10%	10%
		ETE	80%
	Text book/s*	Pindyck, Robert S. Rubinfeld: Micro- Economics, Prentice Hall of India, New Delhi.	
	Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>1. Koutsoyiannis, A: Modern Micro Economics, McMillan Press, London.</li> <li>2. Salvatore, Dominick: Microeconomics: Theory and Applications, Oxford Univ. Press.</li> <li>3. Mankiw Gregory N: Principles of Economics, Thomson</li> <li>4. Maddala, G.S. and Miler Ellen: Micro - Economics Theory and Applications, Tata McGraw Hill.</li> <li>5. Ryan, W.J.L. and Pearce, D.W: Price Theory, McMillan India, New Delhi.</li> <li>6. Ferguson, C.E. and Gould, J.P: Micro Economic Theory, All India Book seller.</li> </ol>	

### Question Paper Structure

1. The question paper shall consist of 9 questions. Out of which, first question shall be of short answer type and will be compulsory. Question no. 1 shall contain 10 parts representing all units of the syllabus and students shall have to answer any 8 parts.
2. There shall be 2 questions from each unit having internal choice. The students are required to attempt any one question from each unit. The weightage for each question shall be 16 marks.

<b>Department: Department of Economics</b>		<b>Batch : 2019-21</b>	
<b>Program: M.A</b>		<b>Academic Year: 2019-20</b>	
		<b>Semester: I</b>	
1	Course Code	19ECO102	
2	Course Title	Macroeconomics I	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Compulsory	
5	Course Objective	Macroeconomics or aggregative economies analysis establishes the functional relationship between the large aggregates. The aggregate analysis has assumed such a great significance in recent times that a prior understanding of macroeconomic theoretical structure is considered essential for the proper comprehension of the different issues and policies. Macroeconomics now is not only a scientific method of analysis; but also a body of empirical economic knowledge.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Demonstrate the basic concepts of macroeconomics and its various variables</p> <p><b>CO2:</b> Carry out the accounting of national income using various methods</p> <p><b>CO3:</b> Understand about various school of thoughts related to macroeconomics</p> <p><b>CO4:</b> Explain Conceptual knowledge about Investment and its various theories.</p> <p><b>CO5:</b> Demonstrate the basic understanding about Money Demand and its related concepts</p> <p><b>CO6:</b> Explain about Money Supply and role of Central bank</p> <p><b>CO7:</b> Carry out the analysis of Monetary and Fiscal Policy of India</p> <p><b>CO8:</b> Explain the concept of Inflation and how it affects economy</p>	
7	Course Description	The paper entitled "Macro-Economic Theory" equips the students at the postgraduate level to understand systematic facts and latest theoretical developments in Macro- Economics for empirical analysis.	
8	Outline syllabus		CO Mapping
	<b>Unit 1</b>	<b>Introduction to Macroeconomics &amp; National Income Accounting</b>	
	A	Nature and Scope of Macroeconomics	CO1
	B	Circular flow of National Income- Two, Three and Four Sector Model	CO1
	C	National Income Accounting using Income, Expenditure and Value added Method	CO2
	D	Significance of National Income Estimates	CO2
	E	Limitation of National Income Estimation	CO1
	<b>Unit 2</b>	<b>Classical &amp; Keynesian system of Macroeconomics</b>	
	A	Classical Macroeconomics: Equilibrium output and Employment , Money, Price and Interest, Wage Price Flexibility and full Employment Equilibrium	CO3

	B	Keynesian System: The role of Aggregate Demand, Money , Interest and Income			CO3
	C	Investment: Investment function, types of investment and Marginal Efficiency of Capital			CO4
	D	Investment theories: The accelerator Theory, Flexible Accelerator Theory			CO4
	E	Financial Theory, Profits Theory			CO4
	<b>Unit 3</b>	<b>Demand for Money and Inflation</b>			
	A	Concept and Functions of Money			CO5
	B	Quantity theory of Money			CO5
	C	Post Keynesian Approach: Tobin (Portfolio balance approach) & Baumol (Inventory theoretic approach)			CO5
	D	Friedman (Restatement of quantity theory of money) & Patinkin's Real Balance Effect			CO5
	E	Basics of Inflation, types of inflation & Phillips Curve			CO8
	<b>Unit 4</b>	<b>Determinants of Money Supply &amp; Real Economy</b>			
	A	Measures of Money Supply and determinants of Money Supply			CO6
	B	Central Bank approach to Money Supply			CO6
	C	Monetary policy: Tools & its contraction and expansion			CO7
	D	Fiscal Policy: Tools & its contraction and expansion			CO7
	E	Monetarism v/s Keynesian views on Money Demand and Money Supply			CO6, CO1
	Mode of examination	Theory			
	Weightage Distribution	CA+ ASSIGNMENT	MTE	ETE	
		10%	10%	80%	
	Text book/s*	Macroeconomics Theory and Policy- Dr. H. L. Ahuja			
	Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>1. Blanchard, O. J. and Fisher, S: Lectures in Macroeconomics, MIT Press, Cambridge.</li> <li>2. Branson, W. H: Macroeconomic Theory and Policy, Harper and Row, New York.</li> <li>3. Dornbusch, R: Open Economy, Macro Economics, Basic Books, New York.</li> <li>4. Heijdra, B. J. &amp; V. P. Frederick: Foundations of Modern Macroeconomics, Oxford University Press, New Delhi.</li> <li>5. Jhingan, M.L: Macro Economic Theory.</li> <li>6. Mankiw, N. G. and D. Romer: New Keynesian Economics (2 Vols.), MIT Press, Cambridge.</li> <li>7. Shapiro, E: Macro-economic Analysis, Galgotia Publications, New Delhi.</li> </ol>			

### Question Paper Structure

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<b>Department: Department of Economics</b>		<b>Batch : 2019-21</b>	
<b>Program: M.A</b>		<b>Academic Year: 2019-20</b>	
		<b>Semester: I</b>	
1	Course Code	19ECO103	
2	Course Title	Economic of Growth & Development	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Compulsory	
5	Course Objective	The study of economic development has gained importance. In recent times, besides hardcore economic prescriptions to development, concerns hitherto relegated to background like education, health, sanitation and infrastructural development, have found a place of pride in explaining the preference of various economies. The other important issues in the context of development such as infrastructure-linkages, role of international trade, importance of domestic macroeconomic policies, investment criteria, and relevance of planning have been included in the modules of this paper.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Understand the concept of economic, economic growth and sustainable development.</p> <p><b>CO2:</b> Explain the methods of measuring economic inequality and poverty.</p> <p><b>CO3:</b> Analyze the economic contribution of some classical economists in growth theories.</p> <p><b>CO4:</b> Understand the implacability of some very critical growth models in economic development so far.</p> <p><b>CO5:</b> Understand and compare some growth models with each other for some betterment of economic growth models.</p> <p><b>CO6:</b>Analyze the role of education, learning and skill in human capital formation.</p> <p><b>CO7:</b> Explain the role of technological progress in a country.</p> <p><b>CO8:</b> Explain balanced and unbalanced model of development</p>	
7	Course Description	The course provide with the basic concepts and methods of measuring development so as to enhance thinking for decision making	
8	Outline syllabus		CO Mapping
	<b>Unit 1</b>	<b>Concepts &amp; Measurement of Economic Development &amp; Growth</b>	
	A	Measuring Development: Income Measures, Basic Needs Approach, PQLI	CO1
	B	HDI and Capabilities Approach	CO1
	C	Poverty, Inequality and Development: Measurement and Impact	CO2
	D	Millennium Development Goals & Sustainable Development Goals	CO2



	E	Goulet's core values of development, Sustainable Development			CO2
	<b>Unit 2</b>	<b>Classical Theories of Growth and Development</b>			
	A	Contributions of Adam Smith			CO3
	B	Karl Marx's contribution			CO3
	C	Rostow's Theory of Stages of Economic Growth			CO3
	D	Ricardo's contribution			CO4
	E	Schumpeter's contribution			CO4
	<b>Unit 3</b>	<b>Growth Models</b>			
	A	Harrod and Domar: Instability of Equilibrium			CO5
	B	Neo Classical Growth Models: Solow and Meade			CO5
	C	Growth Models of Joan Robinson			CO5
	D	Kaldor's contribution			CO6
	E	Romers Model of Endogenous Growth			CO6
	<b>Unit 4</b>	<b>Technological Progress</b>			
	A	Human Capital Formation in India , Accumulation of Human Capital			CO7
	B	Endogenous Growth Theory: Role of learning, education and Research			CO7
	C	Development of Models: Balanced and Unbalanced growth			CO8
	D	Low Income Equilibrium Trap			CO7
	E	Dual Economy: Models of Lewis, Fei-Ranis			CO7
	Mode of examination	Theory			
	Weightage Distribution	CA	MTE	ETE	
		10%	10%	80%	
	Text book/s*	M.L. Taneja & R.M. Mayer, Economic Development and Planning, Vishal Publication Co.			
	Others References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>Adelman, I, Theories of Economic Growth and Development, Stanford University Press, Stanford.</li> <li>Barro, R. and X. Salai- Martin, Economic Growth, McGraw Hill, New York.</li> <li>Behrman, S. and T.N. Srinivasan, Handbook of Development Economics, Vol. 3, Elsevier, Amsterdam.</li> <li>Chakravarti, S, Alternative Approaches to the Theory of Economic Growth, Oxford University Press, New Delhi.</li> <li>Meier, G.M. and J.E.Rauch, Leading Issues in Economic Development, Oxford University Press, New Delhi.</li> <li>Sen, A.K. Growth Economics, Penguin, Harmondsworth.</li> </ol>			

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<b>Department: Department of Economics</b>		<b>Batch : 2019-21</b>	
<b>Program: M.A</b>		<b>Academic Year: 2019-20</b>	
		<b>Semester: I</b>	
1	Course Code	19ECO104	
2	Course Title	Mathematics for Economists	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Compulsory	
5	Course Objective	The objective of this paper is to train the students in the use of mathematical tools in analyzing economic problems. This course is designed to equip students to understand the economic concepts and theories by using mathematical tools and techniques to refine the verbal logic. The use of calculus has permitted formulation of economic problems in multivariable mode and yield valuable insight about optimizing human behavior. Modern algebraic tools allow convenient handling of simultaneous equations in the context of linear programming.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Use the techniques of mathematical analysis, which are commonly applied to understand and analyse economic problems.</p> <p><b>CO2:</b> Carry out the measure of matrix and determinants in business and economics problems.</p> <p><b>CO3:</b> Determine rate of growth using differential calculus.</p> <p><b>CO4:</b> Carry out the technique to measure revenue maximization and cost minimization using maxima and minima approach.</p> <p><b>CO5:</b> Demonstrate the understanding of linear programming in Business and Economics.</p> <p><b>CO6:</b> Carry out the technique to measure Equilibrium Price &amp; Quantity using linear &amp; Quadratic Equation.</p> <p><b>CO7:</b> Understands the basic concept of Set Theory</p> <p><b>CO8:</b> Carry out the technique to measure profit maximization using maxima and minima approach.</p>	
7	Course Description	Course has been accordingly designed to include various mathematical techniques/methods/models related to the different parts of economic theory like consumer theory, theory of production and pricing.	
8	Outline syllabus		CO Mapping
	<b>Unit 1</b>	<b>Linear Algebra</b>	
	A	Solution of Linear Equations	CO1
	B	Solution of Quadratic Equations	CO6
	C	Matrices: Types of Matrices, Matrix Operation	CO1, CO2
	D	Matrices: Inverse, Crammer's Rule	CO2
	E	Economics Applications based on Matrices	CO2

	<b>Unit 2</b>	<b>Differential Calculus</b>			
	A	Simple Derivative			CO1, CO3
	B	Economics Application based on Simple Derivative			CO3
	C	Derivatives- Partial & Total			CO3
	D	Economic Application based on Partial & Total Derivative			CO3
	E	Higher Order Derivatives & Homogenous Function and its Property			CO3
	<b>Unit 3</b>	<b>Classical Optimization and Applications</b>			
	A	Introduction of Quadratic Form			CO4
	B	Unconstrained Optimization			CO4
	C	Constrained Optimization with equality constraints			CO4
	D	Applications- Utility Maximizations & Cost Minimizations			CO4
	E	Applications- Profit- Output Maximization			CO8, CO1
	<b>Unit 4</b>	<b>Linear Programming &amp; Set Theory</b>			
	A	Set Theory			CO7
	B	Relations & Functions			CO1
	C	Linear Programming- formulation, primal & dual			CO1, CO5
	D	Solution of linear programming using graphical & simplex method			CO1, CO5
	E	Application from Economics based on linear programming			CO1, CO5
	Mode of examination	Theory			
	Weightage Distribution	CA	MTE	ETE	
		10%	10%	80%	
	Text book/s*	Aggarwal, S. C. and Rana, R. K: Basic Mathematics for Economists, V.K. (India), Enterprises, New Delhi.			
	Other References (Latest Edition to be followed)	1. Chiang, Alpha C: Fundamental Methods of Mathematical Economics, McGraw-Hill Book Company, New Delhi. 2. Kandoi, Balwant R: Mathematics for Economics and Business with Applications, Oxford Uni. Press, New Delhi. 3. Weber Jean E: Mathematical Analysis (Business and Economic Applications), Harper & Row, New York. 4. Yamane, Taro: Mathematics for Economists, Prentice-Hall of India, New Delhi.			

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<b>Department:</b> <b>Department of</b> <b>Economics</b>		<b>Batch : 2019-21</b>	
<b>Program: M.A</b>		<b>Academic Year: 2019-20</b>	
		<b>Semester: I</b>	
1	Course Code	19ECO105	
2	Course Title	IT Fundamentals	
3	Credits	6	
4	Contact Hours (L-T-P)	4-0-4	
	Course Status	Compulsory	
5	Course Objective	The objective of this paper is create a basic understanding of the computer in general purpose office use. Students will get acquainted with the basic IT tools and packages, necessary for day to day office operations.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Understanding the basic concepts &amp; fundamentals of computer.  <b>CO2:</b> Identifying the significance of system software &amp; learning the principles of Operating system.  <b>CO3:</b> Understanding the communication principles.  <b>CO4:</b> Understanding internet and social media principles.  <b>CO5:</b> Understanding the revolution of databases.  <b>CO6:</b> Understanding the role of database.  <b>CO7:</b> Acquaintance with word processing &amp; presentation skills.  <b>CO8:</b> Acquaintance with spreadsheet &amp; databases.</p>	
7	Course Description	This paper will let student understand the basics of IT and Computer.	
8	<b>Outline syllabus</b>		<b>CO Mapping</b>
	<b>Unit 1</b>	<b>Fundamentals of Computer</b>	
	A	Introduction to computer, Classification & Generations of Computer	CO1
	B	Block diagram and Anatomy of Computer, Input and Output devices	CO1
	C	Basic concept of Data & Information, Various Characteristics of Information, Terminology for IT	CO1
	D	Software: Types of Software (Propriety & Open Sourced )	CO2
	E	Operating System, Functions of OS, Types of OS, Features of OS (Based on Windows)	CO2
	<b>Unit 2</b>	<b>Introduction to Internet &amp; Networking</b>	
	A	Data Communication: Types of Communication, Digital Data Communication Techniques, Various applications of Data Communications	CO3
	B	Concept of Network, Types of Network, LAN Topologies, Computer Protocols	CO3
	C	History of Internet, Intranet, Web Browsers, Search Engine, Working with Internet, Applications of Internet	CO4
	D	Mobile Communication: Fundamentals of Mobile Communication, 2G, 3G, 4G Technologies (GPRS, 3GPP, LTE)	CO4

E	Social Media Tools & Marketing Strategies, E-Commerce: Types, Tools, Electronic Payment System	CO4	
<b>Unit 3</b>	<b>Business Data Processing</b>		
A	Concept of Database, Architecture of Database, Types of Database	CO5	
B	Introduction to Data Processing, Data Storage, Data Hierarchy, Methods of Organizing Data	CO5	
C	Various Data Processing Files, File Organizing, Various Utilities of Files	CO6	
D	Various Applications of Commerce, Accounting, Purchase, Healthcare, Mathematics, Humanities	CO6	
E	Videoconferencing: Tools of Videoconferencing, Types of videoconferencing	CO6	
<b>Unit 4</b>	<b>Applications &amp; Packages</b>		
A	File Management: Desktop Components, Start Menu and Taskbar, Types of Icons, Viewing, Arranging, and Working with Files and Folders	CO7	
B	MS Word: Toolbars, Menu, Editing a Document, Previewing Document, Printing Documents, Mail Merge	CO7	
C	MS PowerPoint: PowerPoint Basics, Insert, Tools, Format, Slide Show, Formatting Slides, Create Presentations, Insert and Modify Text, Work with Graphics and Media	CO7	
D	MS Excel: Entering and Editing Worksheet Data, Worksheet Operations, Introducing Tables, Pivot Table, Charts and Graphics, Graphing and Summarizing Data	CO8	
E	MS Access: Toolbars, Entering & Editing the Data, Data Operations, Introduction Tables, Data Analysis	CO8	
Mode of examination	Theory & Practical		
Weightage Distribution	CA	MTE	ETE
	10	10%	80%
Text book/s*	P K Sinha and Priti Sinha, "Computer Fundamentals", BPB Publishers		
Other References (Latest Edition to be followed)	1. E Balaguruswamy, "Fundamentals of Computers", McgrwaHill 2. Anita Goel, "Computer Fundaments", Pearson Education		
Practicals	1. Working on the File System on Windows Operating System and assigning attributes to the files and folders. 2. Use of Blogs and Youtube platforms for leaning (creating Blogs, uploading videos etc.) 3. Creating the Social Media Professional Groups and assigning different rights and attributes (Linked in, Facebook, Twitter) 4. Email client Outlook configuration and usage. 5. e- Commerce portals, Comparison of different payment gateways and systems. 6. MS Word Template Usage (Flyers, Letters and Resume)		

		<p>7. Creating letters using Mail Merge.</p> <p>8. Document Review Proofing in MSWord.</p> <p>9. Creating Slides in MS Power Point (SmartArt and Charts, Presentation Designs and Formatting, Printing PowerPoint Presentations, Simple Animations, Running Slide Shows)</p> <p>10. Use of Master Slide and Custom Animation in Power Point.</p> <p>11. Using Excel Worksheet (Entering and Amending Data, Selecting Ranges, Inserting/Deleting Rows and Columns , Arithmetic Formulas)</p> <p>12. Formatting Worksheets in MS Excel, Using Functions, Copying, Moving and AutoFill, Relative vs. Absolute References</p> <p>13. Charts in MS Excel (Pie, Bar, Histogram, Line and Scatter)</p> <p>14. Sorting, Filtering and Conditional Formatting.</p> <p>15. Importing and Exporting Dataset from Excel and Notepad to Access.</p> <p>16. Creating an Employee database in MS Access and assigning the relationships.</p>	
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## SEMESTER II

<b>Department: Department of Economics</b>		<b>Batch : 2019-21</b>	
<b>Program: MA</b>		<b>Academic Year: 2020-21</b>	
		<b>Semester: II</b>	
1	Course Code	19ECO201	
2	Course Title	Microeconomics II	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Compulsory	
5	Course Objective	This is the second part of the core Microeconomics Sequence. This course introduces advance concepts and topics developed in microeconomic theory. It will cover topics like Theory of General Equilibrium, Welfare Economics, and Pareto Optimality. The theoretical tools developed in these topics are essential in many different fields in economics.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Demonstrate the Objectives of Firm</p> <p><b>CO2:</b> Analyze the distributional aspects of factors of production</p> <p><b>CO3:</b> Demonstrate the basic concept of distribution and macro distributional theories</p> <p><b>CO4:</b> Analyze the general equilibrium concept and its approach</p> <p><b>CO5:</b> Carry out the Pareto optimality</p> <p><b>CO6:</b> Demonstrate the concept of Welfare Economics and principles to achieve social welfare maximization</p> <p><b>CO7:</b> Analyze the equity-efficiency trade-off</p> <p><b>CO8:</b> Explain various theories related to firms</p>	
7	Course Description	The course provide with the basic concepts and methods of analyzing Economic behavior of Individuals, Firms and market.	
8	Outline syllabus		CO Mapping
	<b>Unit 1</b>	<b>Theories of the Firm</b>	
	A	Baumol's Sales Revenue Maximization model	CO1, CO8
	B	Williamson's model of Managerial Discretion	CO1,CO8
	C	Marris model of Managerial Enterprise	CO1,CO8
	D	Bain's Limit Pricing Theory	CO1
	E	Behavioral model of the Firm (Cyert and March)	CO1
	<b>Unit 2</b>	<b>Distribution</b>	
	A	Pricing of Factor of Production (Perfect & Imperfect markets)	CO2
	B	Elasticity of Technical Substitution, Technical Progress and Factor Shares	CO3

	C	Product Exhaustion theorem			CO3
	D	Macro Theories of Distribution: Ricardo, Marx			CO3
	E	Kalecki, Kaldor theories of Distribution			CO3
	<b>Unit 3</b>	<b>General equilibrium</b>			
	A	Concept, Stability, Existence and Uniqueness of Equilibrium, static and Dynamic Equilibrium			CO4
	B	Partial and General equilibrium			CO4
	C	Walrasian approach to General Equilibrium			CO4
	D	Pareto Efficiency and Optimality			CO5
	E	Money in General Equilibrium			CO4
	<b>Unit 4</b>	<b>Welfare Economics</b>			
	A	Arrow- Debrew Economy- welfare criteria			CO6
	B	Perfect Competition and Economic Efficiency, First and Second Theorem of welfare Economics			CO6
	C	Compensation Criteria and Arrow's Impossibility Theorem			CO6
	D	Bergson- Samuelson Maximization of Social Welfare Function			CO6
	E	Rawl's theory of justice; Equity-Efficiency Trade off			CO7
	Mode of examination	Theory			
	Weightage Distribution	CA	MTE	ETE	
		10%	10%	80%	
	Text book/s*	Pindyck, Robert S. Rubinfeld: Micro- Economics, Prentice Hall of India, New Delhi.			
	Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>1. Koutsoyiannis, A: Modern Micro Economics, McMillan Press, London.</li> <li>2. Salvatore Dominick: Microeconomics: Theory and Applications, Oxford Univ. Press.</li> <li>3. Mankiw Gregory N: Principles of Economics, Thomson</li> <li>4. Maddala, G.S. and Miler Ellen: Micro - Economics Theory and Applications, Tata McGraw Hill.</li> <li>5. Ryan, W.J.L. and Pearce, D.W: Price Theory, McMillan India, New Delhi.</li> </ol>			

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<b>Program: M.A</b>		<b>Academic Year: 2020-21</b>	
		<b>Semester: II</b>	
1	Course Code	19ECO202	
2	Course Title	Macroeconomics II	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Compulsory	
5	Course Objective	The objective of the paper is to familiarize the students about the contribution of various schools of thoughts in Macroeconomics. The course structure covers the debates and intends to provide wider vision of the present discourse in Macroeconomics. The Course will help to develop aptitude to relate concepts with Research and Policy.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Explain about working of Foreign Exchange Market</p> <p><b>CO2:</b> Demonstrate the conceptual knowledge about Balance of Payment and IS-LM theory</p> <p><b>CO3:</b> Carry out the analysis about People Behavior on Consumption level and how it is affected by various factors.</p> <p><b>CO4:</b> Develop aptitude to relate concepts of Business Cycle with practical scenario.</p> <p><b>CO5:</b> Demonstrate understanding about recent developments in school of thoughts.</p> <p><b>CO6:</b> Explain the concept of Mundell Fleming Model and its practical relevance.</p> <p><b>CO7:</b> Explain various theories related to consumption</p> <p><b>CO8:</b> Demonstrate the efficacy of monetary &amp; fiscal policy</p>	
7	Course Description	The paper entitled "Macro-Economic Theory" equips the students at the postgraduate level to understand systematic facts and latest theoretical developments in Macro- Economics for empirical analysis.	
8	Outline syllabus		CO Mapping
	<b>Unit 1</b>	<b>Open Economy Macroeconomics</b>	
	A	International flow of Capital & Goods, Savings and Investment in small open Economy, Exchange Rate: Real & Nominal, Markets in Foreign Exchange	CO1
	B	Balance of Payment: Meaning, Current and Capital Account, Balance of Payment: Reasons of Disequilibrium and how to correct it	CO2
	C	Basic IS-LM Model, Extension of IS-LM with Government sector, labor market and variable price level.	CO2
	D	Mundell Fleming model under Fixed Exchange Rate	CO6
	E	Mundell Fleming model under Flexible Exchange Rate	CO6

	<b>Unit 2</b>	<b>Consumption Function</b>			
	A	Absolute Income Hypothesis			CO3, CO7
	B	Relative Income Hypothesis			CO3,CO7
	C	Permanent Income Hypothesis			CO3,CO7
	D	Life Cycle Hypothesis			CO3,CO7
	E	Consumption under Uncertainty- Modern Approach			CO3,CO7
	<b>Unit 3</b>	<b>Theory of Business Cycle</b>			
	A	Schumpeter Business Cycle Theory			CO4
	B	Kaldor Business Cycle Theory			CO4
	C	Business cycle theory of Samuelson			CO4
	D	Hicks Business Cycle Theory			CO4
	E	Relative Efficacy of Monetary and fiscal Policies			CO8
	<b>Unit 4</b>	<b>Recent Developments</b>			
	A	Monetarism : Friedman's Theory			CO5
	B	New Classical Macro Economics theory: Rational Expectation (Lucas Theory)			CO5
	C	Real Business Cycle Theory			CO4
	D	New Keynesian Economics: Mankiw Model (Sticky Nominal Prices)			CO5
	E	Inter- Temporal Substitution in Labour Supply			CO5
	Mode of examination	Theory			
	Weightage Distribution	CA	MTE	ETE	
		10%	10%	80%	
	Text book/s*	Ahuja . H. L. , Macroeconomics Theory and Policy			
	Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>1. Blanchard, O. J. and Fisher, S: Lectures in Macroeconomics, MIT Press, Cambridge.</li> <li>2. Branson, W. H: Macroeconomic Theory and Policy, Harper and Row, New York.</li> <li>3. Dornbusch, R: Open Economy, Macro Economics, Basic Books, New York.</li> <li>4. Heijdra, B. J. &amp; V. P. Frederick: Foundations of Modern Macroeconomics, Oxford University Press, New Delhi.</li> <li>5. Jhingan, M.L: Macro Economic Theory.</li> <li>6. Mankiw, N. G. and D. Romer: New Keynesian Economics (2 Vols.), MIT Press, Cambridge.</li> <li>7. Shapiro, E: Macro-economic Analysis, Galgotia Publications, New Delhi.</li> <li>8. Snowdon Brian and Vane Howard R, Modern Macroeconomics: Its Origin, Development and Current State, Edward Elgar Publishing Ltd.</li> </ol>			

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<b>Program: M.A</b>		<b>Academic Year: 2020-21</b>	
		<b>Semester: II</b>	
1	Course Code	19ECO203	
2	Course Title	Statistics for Economists	
3	Credits	6	
4	Contact Hours (L-T-P)	4-0-4	
	Course Status	Compulsory	
5	Course Objective	An introductory course in statistics, designed to provide with the basic concepts and methods of statistical analysis for processes and products. The cardinal objective of the course is to increase the extent to which statistical thinking is embedded in economics for decision making. The course includes tools such as MS-Excel and SPSS so as to make teaching pragmatically oriented rather being confide to books, thereby contributing towards enhancing the employability in Industry.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Use the basic concepts of probability and statistics embedded in various management problems</p> <p><b>CO2:</b> Apply the measures of central tendency and Measure of dispersion to analyze the data under consideration.</p> <p><b>CO3:</b> Carry out the analysis to measure Index number in calculating consumer Price Index.</p> <p><b>CO4:</b> Carry out the Correlation analysis and measures the Karl Pearson's coefficient of correlation and Spearman's rank correlation.</p> <p><b>CO5:</b> Carry out regression analysis on the data sets and use it for the managerial problems like demand forecasting.</p> <p><b>CO6:</b> Demonstrate understanding of basic concepts of time series to analyze the data under consideration.</p> <p><b>CO7:</b> Carry out the hypothesis testing using various test like t-test, F-test and ANOVA during their Research.</p> <p><b>CO8:</b> Explain various Sampling Methods and how they are different from Census</p>	
7	Course Description	The course provide with the basic concepts and methods of statistical analysis so as to enhance statistical thinking for decision making.	
8	Outline syllabus		CO Mapping
	<b>Unit 1</b>	<b>Introduction to Statistics and Data Collection &amp; Presentation &amp; Measures of Central tendency</b>	
	A	Definition of Statistics, Importance of Statistics, Role of Statistics in Decision making, Limitations of Statistics	CO2
	B	Frequency Distribution, Presentation of Data	CO2
	C	Mean, Median & Mode: Merits, Demerits, Properties	CO2

		and Numerical problems		
	D	Census versus Sample Enumeration, Probability and Non-Probability Sampling	CO8	
	E	Sampling Methods: Simple Random, Stratified Random, Sampling error	CO8	
	<b>Unit 2</b>	<b>Measures of Dispersion &amp; Probability &amp; Probability Distributions</b>		
	A	Range, Quartile Deviation, Mean Deviation	CO2	
	B	Standard Deviation, Variance and Coefficient of Variation	CO2	
	C	Measures of Skewness, Measures of Kurtosis	CO2	
	D	Probability: concepts and definition, Laws of Addition and Multiplication	CO1	
	E	Probability Distribution: Binomial, Poisson and Normal Distributions (Properties & Numerical Problems)	CO1	
	<b>Unit 3</b>	<b>Index Number and Time Series</b>		
	A	Uses, Laspeyer's, Paasche's and Fisher Index Numbers	CO3	
	B	Base shifting, splicing and deflating of index numbers, cost of living index numbers and consumer price index numbers	CO3	
	C	Components of time series and their decomposition	CO6	
	D	Methods of measuring trend	CO6	
	E	Methods of measuring Seasonal Variations	CO6	
	<b>Unit 4</b>	<b>Correlation &amp; Regression and Hypothesis Testing</b>		
	A	Correlation analysis-meaning and types of correlation, Karl Pearson's coefficient of correlation, Spearman's rank correlation	CO4	
	B	Regression analysis-meaning and two lines of regression, Method of least square, Properties of regression coefficients	CO5	
	C	Hypothesis Testing: Statistical Hypothesis- Simple V/S Composite, Critical Reason, Type I and Type II Errors, Power of a Test	CO	
	D	Student t, Chi-Square and F-tests	CO7	
	E	One Way and Two Way ANOVA	CO7	
	Mode of examination	Theory +Practical		
	Weightage Distribution	CA	MTE	ETE
		10%	10%	80%
	Text book/s*	Gupta, S.P. , Statistical Methods, Sultan Chand & Sons, New Delhi.		
	Other References (Latest Edition to be followed)	1. Vohra, N.D. Quantitative Techniques in Management, Tata McGraw Hill, New Delhi. 2. Speigal, M.R. Theory and Problems of Statistics, McGraw hill Book, London. 3. Allen, R.G.D. Mathematics Analysis for Economists, Macmillan. 4. Gupta S.C. and V.K. Kapoor, Fundamentals of		

		<p>Applied Statistics, S. Chand and Sons New Delhi.</p> <p>5. Croxton, F.E.D. Cowden and S. Klein, Applied General Statistics, Prentice Hall, New Delhi.</p> <p>6. Yates, Frank, Sampling Methods for Census and Surveys, Charles, Griffin Co., London.</p> <p>7. Gupta S.C. Fundamentals of Statistics, Himalaya Publishing House, New Delhi.</p>	
	Practicals	<p>1. Tabulation &amp; Presentation of Data using Graphs and Charts</p> <p>2. Measures of central tendencies: Mean, Median &amp; Mode</p> <p>3. Measures of dispersions: Mean Deviation, Standard Deviation, Variance</p> <p>4. Statistical distributions: Fitting binomial, Poisson and Normal Probability distributions to given data.</p> <p>5. Testing of hypotheses: Tests of significance (mean, standard deviation), Chi-squared test for goodness of fit, ANOVA (one way and two-way)</p> <p>6. Correlations (Pearson's, Spearman's rank coefficient) using calculators and Statistical Package.</p>	

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2. There shall be 2 questions from each unit having internal choice. The students are required to attempt any one question from each unit. The weightage for each question shall be 16 marks

<b>Department: Department of Economics</b>		<b>Batch : 2019-21</b>	
<b>Program: MA</b>		<b>Academic Year: 2020-21</b>	
		<b>Semester: II</b>	
1	Course Code	19ECO204	
2	Course Title	Money, Banking and Finance	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Compulsory	
5	Course Objective	The Paper on “Money, Banking and Finance” is an optimal integration of monetary theory, banking and non –banking institutions, which combines with itself a systematic discussions of the theory, institutions with special reference to India. Money and banking constitute important components towards understanding of economics. A clear understanding of the operations of money and banking and their interaction with the rest of economy is essential to realize how monetary forces operate through a multitude of channels – market, non –market , institutions and among others the state. The present course is designed to acquaint the students fully with the changing role of financial institutions in the process of growth and development.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Demonstrate understanding of basic concepts of Money its origin and functions.</p> <p><b>CO2:</b> Understanding the Concept of demand for money and theories related to demand for money.</p> <p><b>CO3:</b> To understand the concept of money Supply and process to create money supply.</p> <p><b>CO4:</b> Explain the term structure of Interest rate and and Concept of Monetary policy.</p> <p><b>CO5:</b> Demonstrate understanding the concept of central Bank and Commercial bank and developments and reforms in banking industry.</p> <p><b>CO6:</b> Evaluate RBI Monetary Policy.</p> <p><b>CO7:</b> Familiarize with the Structure of financial system of India.</p> <p><b>CO8:</b> Explain the process of Transmission Mechanism in classical &amp; Keynesian model</p>	
7	Course Description	The course provide with the basic concepts and policies of money, Banking and Finance.	
8	Outline syllabus		CO Mapping
	<b>Unit 1</b>	<b>Introduction to concept of Demand for Money and Supply of Money</b>	
	A	Concept of Money, Functions of Money and types of Money	CO1
	B	The Classical Quantity Theory of Money	CO2
	C	Keynesian Approach and Friedman’s Theory	CO2
	D	Money Creation by Banking System, High Powered Money	CO3

	E.	Credit Multiplier, Measures of Money Supply in India			CO3
	<b>Unit 2</b>	<b>Structure of Interest Rates and Monetary Policy</b>			
	A	The Expectations Theory, Liquidity Premium Theory			CO4
	B	Market Segment Theory, Preferred Habitant Theory			CO4
	C	Monetary Policy: Targets, Goals and Trade off among Alternative Goals			CO4
	D	Transmission Mechanism – Classical Model, Keynesian Model and Monetarist Model			CO8
	E	Rule vs. Discretion			CO4
	<b>Unit 3</b>	<b>Central and Commercial Banking</b>			
	A	Origin and Evolution, Functions and policy tools of Central Bank			CO5
	B	Commercial Banking: Functions			CO5
	C	Major Developments in commercial Banking in India since Nationalization			CO5
	D	Banking Sector Reforms			
	E	RBI –Monetary Policy			CO6
	<b>Unit 4</b>	<b>Financial System and NBFCs</b>			
	A	Structure of Financial System of India			CO7
	B	Growth and Components of Capital Market in India			CO7
	C	Capital Market reforms in India			CO7
	D	Role of SEBI in India			CO7
	E	Development of Non-Banking Financial Intermediaries			CO7
	Mode of examination	Theory			
	Weightage Distribution	CA	MTE	ETE	
		10%	10%	80%	
	Text book/s*	R.R. Paul, Monetary Economics, Kalyani Publisher.			
	Other References (Latest Edition to be followed)	1. Kulkarni, G: Modern Monetary Theory , Macmillan, New Delhi 2. Dennis Geogfrey, E.J: Monetary Economics, Longman. 3. Bofinger Peter: Monetary Policy: Goals, Institutions Strategy and instruments, Oxford University Press. 4. Mankiw, N.G: Macro-Economics, Macmillan worth Publishers, New York 5. Reserve Bank of India: Various Reports			

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<b>Department: Department of Economics</b>		<b>Batch : 2019-21</b>	
<b>Program: M.A</b>		<b>Academic Year: 2020-21</b>	
		<b>Semester: II</b>	
1	Course Code	19ECO205	
2	Course Title	Communication Skills	
3	Credits	6	
4	Contact Hours (L-T-P)	4-0-4	
	Course Status	Compulsory	
5	Course Objective	To enable the students to achieve professional expertise with the help of developed communication skills including better listening, writing, speaking, presenting and grooming.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Improve their speaking ability in English both in terms of fluency and comprehensibility</p> <p><b>CO2:</b> Give oral presentations and receive feedback on their performance</p> <p><b>CO3:</b> Develop abilities as a critical reader and writer</p> <p><b>CO4:</b> Communicate appropriately, accurately and effectively what has been read</p> <p><b>CO5:</b> Improve their speaking ability in English both in terms of fluency and comprehensibility</p> <p><b>CO6:</b> Make their personality appealing and improve their business skills</p> <p><b>CO7:</b> Improve their listening abilities and identify common barriers in listening</p> <p><b>CO8:</b> Strengthen their ability to write academic papers, essays and summaries using the process approach.</p>	
7	Course Description	This paper will let student understand the advanced English	
8	Outline syllabus		<b>CO Mapping</b>
	<b>Unit 1</b>		
	A	Meaning, Nature, Importance and Purpose of Communication	CO1, CO2
	B	Types of Communication, Verbal and Non-Verbal Communication	CO4
	C	Barriers to Communication, Essentials of Good Communication	CO4
	D	Process of Communication, Communication Network in an Organization	CO2
	E	7 Cs of Communication	CO1
	<b>Unit 2</b>	<b>Writing Skills</b>	
	A	Importance of Writing, Writing Letters, Reports	CO3, CO8
	B	Memos and Notices	CO3, CO8
	C	Structure and Format of Business Letters	CO3, CO8
	D	E-mail etiquette	CO3, CO8
	E	Resume Writing	CO3, CO8
	<b>Unit 3</b>	<b>Public Speaking and Presentation Skills</b>	
	A	Public speaking skills (Preparation, Body Language & Voice Modulation, Time Management & Handling Questions)	CO1



	B	Oral Presentation, Debates	CO2
	C	Elocution and Extempore	CO2
	D	Demonstration, Conversation	CO2
	E	Steps in Making a PowerPoint Presentation; Delivering a Presentation	CO2
	<b>Unit 4</b>	<b>Personality Development Skills</b>	
	A	Personal Grooming, Motivating Self	CO6
	B	SWOT/SWOC Analysis, Stress Management, Anger Management, Time Management	CO6
	C	Professional Skills: Negotiations; Business Etiquette	CO6
	D	Ethics and Morals	CO6
	E	Cross Cultural Communication.	CO6
	Mode of examination	Theory & Practical	
	Weightage Distribution	CA 10	MTE 10% ETE 80%
	Text book/s*	The Art and Science of Business Communication, Chaturvedi P.D., Chaturvedi Mukesh, Pearson Education India.	
	Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>1. Academic Writing- A Practical guide for students by Stephen Bailey, Rontledge Falmer, London &amp; New York.</li> <li>2. Collins, Patrick. Speak with Power and Confidence. New York: Sterling.</li> <li>3. Hasson, Gill. Brilliant Communication Skills. Great Britain: Pearson Education.</li> <li>4. Kroehnert, Gary. Basic Presentation Skills. Sidney: McGraw Hill.</li> <li>5. Prasad, H. M. How to Prepare for Group Discussion and Interview. New Delhi: Tata McGraw-Hill Publishing Company Limited.</li> <li>6. Thill, John V. &amp; Courtland L. Bovée, Excellence in Business Communication, Boston Pearson.</li> </ol>	

	Practical	<ol style="list-style-type: none"> <li>1. Group Discussion: Dynamics of Group Discussion, Intervention, summarizing, modulation of voice, Body Language, relevance, Fluency and coherence</li> <li>2. Personal Interview (Mock Interview Sessions): concept and process, pre-interview planning, opening strategies, answering strategies, interview through tele and video-conferencing</li> <li>3. World famous videos, speeches, etc.</li> <li>4. Oral presentations</li> <li>5. Declamation</li> <li>6. Business Letters</li> <li>7. Body Language</li> <li>8. Webinar</li> <li>9. Time Management</li> <li>10. Anger Management &amp; Stress Management</li> <li>11. Dining Etiquette</li> <li>12. Email Writing</li> <li>13. Role Plays (for cross cultural communication)</li> <li>14. Speed Reading &amp; Reading Skills: Scanning and Skimming</li> <li>15. Workbook Recommended</li> </ol>	
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## SEMESTER III

<b>Department: Department of Economics</b>		<b>Batch : 2019-2021</b>	
<b>Program: M.A</b>		<b>Academic Year: 2020-21</b>	
		<b>Semester: II</b>	
1	Course Code	19ECO301	
2	Course Title	Public Economics I	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Compulsory	
5	Course Objective	This paper provides the core theories of public economics drawing its roots from welfare economics. Role and functions of the Government in an economy have been changing with the passage of time. The existence of externalities, concern for adjustment in the distribution of income and wealth, etc. require political processes for their solution in a manner which combines individual freedom and justice. This paper combines a thorough understanding of fiscal institutions with a careful analysis of the issues which underline market efficiency, public choice and taxation.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Explain the Institutional mechanisms for resource allocation: markets, government, firms and households.</p> <p><b>CO2:</b> Critically assess issues related to market failure and the government intervention</p> <p><b>CO3:</b> Explain the Optimal provision of public goods – voting and public choice – preference revelation mechanisms – lindahl and successors, free riding, mobility.</p> <p><b>CO4:</b> Critically analyze the theory of clubs and local public goods.</p> <p><b>CO5:</b> Explain the conflict between efficiency and equity - horizontal and vertical equity- welfare analysis with uncertainty.</p> <p><b>CO6:</b> Demonstrate Shifting and Incidence of Tax: The Partial and General Equilibrium Analysis.</p> <p><b>CO7:</b> Explain Pure theory of public expenditure and Canons of public expenditure</p> <p><b>CO8:</b> Explain the concept of budget and its various components</p>	
7	Course Description	The course provide with the basic concepts and methods of measuring development so as to enhance thinking for decision making	
8	Outline syllabus		CO Mapping
	<b>Unit 1</b>	<b>Efficient Markets, Market Failure &amp; Externalities</b>	
	A	Natural Monopolies and Market Failure	CO1
	B	Non-Existence of Futures Markets and Market Failure	CO2
	C	Asymmetric Information and market Failure	CO2
	D	The Problem of Externalities and their Internalisation	CO2

	E	The Coase Theorem			CO1
	<b>Unit 2</b>	<b>Theory of Public Goods &amp; Public Choice</b>			
	A	Public Goods-Characteristics, Types and Efficient Provision of Public Goods			CO3
	B	Private Provision of Pure Public Goods			CO3
	C	Bowen Model, Samuelson Theory			CO4
	D	Lindahl- Wicksell Mechanism			CO4
	E	Theory of Club Goods			CO4
	<b>Unit 3</b>	<b>Taxation</b>			
	A	Major defects in the structure of indirect taxes prior to GST			CO5
	B	Rationale for GST, Structure of GST (SGST, CGST, UTGST & IGST)			CO5
	C	GST Council			CO5
	D	GST Network			CO6
	E	State Compensation Mechanism			CO6
	<b>Unit 4</b>	<b>Public Expenditure &amp; Public Debt</b>			
	A	Public Expenditure: Wiseman Peacock Hypothesis			CO7
	B	Public Debt : Objectives and Sources, Classification and Effects of Public Debt			CO7
	C	Finance Commission of India			CO7
	D	Budget: Definitions and Types			CO8
	E	Theories of Budget			CO8
	Mode of examination	Theory			
	Weightage Distribution	CA	MTE	ETE	
		10%	10%	80%	
	Text book/s*	Public Finance by H.L. Bhatia, Vikas Publication limited.			
	Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>1. Bruce, Neil, "Public Finance", Addison- Wesley Educational Publishers, Inc.</li> <li>2. Jones. Philip and Cullis, Jones, "Public Finance and Public Choice- Analytical Perspectives", Oxford University Press.</li> <li>3. Stiglitz, Joseph, "Economics of the Public Sector", W.W. Norton and Company, New York/London.</li> <li>4. Rosen, H.S., "Public finance", Tata McGraw Hill.</li> <li>5. McNutt, P.A., "The economics of Public Choice", Edward Elgar Publishing Inc.</li> <li>6. Musgrave R.A and Peacock A.T., "Classics in the Theory of Public Finance", Mcmillan.</li> </ol>			

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<b>Department: Department of Economics</b>		<b>Batch : 2019-21</b>	
<b>Program: M.A</b>		<b>Academic Year: 2020-21</b>	
		<b>Semester: III</b>	
1	Course Code	19ECO302	
2	Course Title	International Economics	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Compulsory	
5	Course Objective	The course intends to provide a deep understanding about the broad principles and theories, which tend to govern the free flow of trade in goods, services and capital – both short-term and long-term – at the global level. The contents of the paper spread over different modules, lay stress on the theory and nature of the subject which, in turn, will greatly help them to examine the impact of the trade policies followed both at the national and international levels as also their welfare implications at macro level and the distribution of gains from trade with particular reference to India.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Establishes the relationship between foreign trade theory and economic development.</p> <p><b>CO2:</b> Explain how international trade can result from Economies of scale.</p> <p><b>CO3:</b> Explain how product differentiation leads to Intra- Industry trade.</p> <p><b>CO4:</b> Identify the costs and benefit of a tariff on a small and a large nation.</p> <p><b>CO5:</b> Demonstrate the basic understanding of terms of trade.</p> <p><b>CO6:</b> Understand the effect of a change in the exchange rate on nation's current account.</p> <p><b>CO7:</b> Explain Adjustment Mechanism of Balance of Payments and policies.</p> <p><b>CO8:</b> Explain the relation of various international institutions with India.</p>	
7	Course Description	The study of the paper under the present era of globalization will train the students about the likely consequences on income, employment and social standards and policy solutions as the world will move into the 21st century.	
8	Outline syllabus		CO Mapping
	<b>Unit 1</b>	<b>Theories of International Trade</b>	
	A	Theory of Absolute Advantage, Comparative advantage and Opportunity Costs	CO1
	B	Heckscher Ohlin Theory of trade and its empirical testing (Leontiff Paradox)	CO1,CO2
	C	Factor Price Equalization Theorem	CO1, CO2
	D	Intra- Industry Trade- Concept, Reasons & Measurement	CO3
	E	Product Cycle Theory & Technology Gap	CO3
	<b>Unit 2</b>	<b>Gains from International Trade</b>	

	A	Measurement of gains from trade and their distribution		CO5
	B	Concept of terms of trade, their uses and limitations		CO5
	C	Hypothesis of secular deterioration of terms of trade		CO5
	D	Theory of interventions (Tariffs, quotas and Non- Tariff) & Economic effects of tariffs (Partial and general equilibrium analysis)		CO4
	E	Stolper Samuelson theorem, Optimum Rates of tariffs- their measurement and effective rate of protection		CO4
	<b>Unit 3</b>	<b>The Balance of Payment and Adjustment Process</b>		
	A	BOP- Concepts, Components and causes of disequilibrium		CO6, CO7
	B	Process of adjustment- Gold standard (Species Flow Mechanism), Automatic Price Adjustment under flexible exchange rate		CO6
	C	Devaluation, Marshall Learner's Condition		CO6
	D	Keynesian Absorption Approach, J- Curve Effect		CO6
	E	Foreign Trade Multiplier		CO6
	<b>Unit 4</b>	<b>The International Monetary System &amp; Regionalism</b>		
	A	International Monetary System: Past, Present, Future		CO8
	B	Functions and achievements of WTO		CO8
	C	Relation of World Bank and India		CO8
	D	Various forms of Economic Integration, Theory of Custom Union and its static and Dynamic Effects		CO8
	E	SAARC, EU- Features, Objectives, Organizational Structures		CO8
	Mode of examination	Theory		
	Weightage Distribution	CA	MTE	ETE
		10%	10%	80%
	Text book/s*	Salvatore, D: International Economics, Prentice Hall, New York.		
	Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>1. Kenen, P. B: The International Economy.</li> <li>2. Kindleberger, C.P: International Economics, India Traveller Books. Sellers, New Delhi.</li> <li>3. Paul, R. Krugman &amp; Maurice Obstfeld: International Economics Theory and Policy, Addison-Wesley Series in Economics.</li> <li>4. Sodersten, B. O: International Economics, The Macmillan Press Ltd., London.</li> <li>5. The World Bank: Globalization, Growth and Poverty: Building an Inclusive World Economy, World Bank Policy Research Paper, Oxford University Press, New York.</li> </ol>		

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<b>Program: MA</b>		<b>Academic Year: 2020-21</b>	
		<b>Semester: III</b>	
1	Course Code	19ECO303	
2	Course Title	Indian Economy I	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Compulsory	
5	Course Objective	The Objective of this paper is to acquaint the students with the performance of different sectors of the Indian Economy and the policy framework governing them. This will provide them an insight into the past, present and future functioning of the Indian Economy and strengthen their analytical capability.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Demonstrate the understanding of basic concepts of Structural Changes In Indian Economy.</p> <p><b>CO2:</b> Analyze the challenges of Indian Economy.</p> <p><b>CO3:</b> Demonstrate the issues in Indian Economy.</p> <p><b>CO4:</b> Analyze the performance of Agriculture Sector.</p> <p><b>CO5:</b> Demonstrate the policies related to Agricultural Prices.</p> <p><b>CO6:</b> Analyze The Food Security – Problems.</p> <p><b>CO7:</b> Analyze the performance of Industry sector.</p> <p><b>CO8:</b> Demonstrate the policies related to Industrial development.</p>	
7	Course Description	The course provide with the basic idea of performance of different sectors of Indian Economy.	
8	Outline syllabus		CO Mapping
	<b>Unit 1</b>	<b>Growth and Structural Changes in the Indian Economy</b>	
	A	State of Indian Economy Since independence: National Income	CO1
	B	Sectoral contribution and occupational distribution	CO1
	C	Need, Features and impact of Economic Reforms in India	CO1
	D	Second Generation Reforms	CO1
	E	Present Challenges of Indian Economy	CO2
	<b>Unit 2</b>	<b>Issues in Indian Economy</b>	
	A	Poverty: nature, Extent, Estimates and Policy Initiatives.	CO3
	B	Unemployment: nature, Extent, Estimates and Policy Initiatives.	CO3
	C	Inter –State Disparities In the pattern of Development	CO3
	D	Price Trends and inflation	CO3
	E	Parallel Economy	CO3
	<b>Unit 3</b>	<b>Sectoral Growth : Agriculture Sector</b>	
	A	Pattern of Growth of Indian Agriculture since 1950s	CO4

	B	Green Revolution: Need, Features, Merits & Demerits			CO4
	C	Deceleration in the 1990s – Extent and causes			CO4
	D	Agricultural Price Policy			CO5
	E	Food Security – Problems and Policy options			CO6
	<b>Unit 4</b>	<b>Industrial Sector</b>			
	A	Industrial growth since Independence			CO7
	B	Industrial Policy in Pre and post reforms period			CO8
	C	Impact of New Economic Policy on Indian industry			CO8
	D	Industrial Finance In India			CO7
	E	National Manufacturing Policy,2011			CO8
	Mode of examination	Theory			
	Weightage Distribution	CA	MTE	ETE	
		10%	10%	80%	
	Text book/s*	Misra , Puri, Indian Economy, Himalaya Publishing House, Bombay			
	Other References (Latest Edition to be followed)	1 Brahmananda, P R and Panchmukhi, V R: The Development Process of Indian Economy, Himalaya Publishing House, Bombay 2 Byers, T J: The Indian Economy: Major Debates since Independence; Oxford University Press, New Delhi. 3 Jalan, B: The Indian Economy – Problems and Prospects, Viking, New Delhi. 4 Kapila, Uma: Indian Economy since Independence, Academic Foundation, New Delhi. 5 Kureger, A.O: Economic Policy Reforms and the Indian Economy, Oxford University Press, New Delhi. 6 Economic and Political Weekly: Various issues. 7 Government of India: Economic Survey (Latest), Ministry of Finance.			

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<b>Department: Department of Economics</b>		<b>Batch : 2019-21</b>	
<b>Program: M.A</b>		<b>Academic Year: 2020-21</b>	
<b>Semester: III</b>			
1	Course Code	19ECO304	
2	Course Title	Basic Econometrics	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Compulsory	
5	Course Objective	Application of economic theory need a reasonable understanding of economic relationships and relevant statistical methods. The econometric theory thus becomes a very powerful tool for understanding of applied economic relationships and for meaningful research in economics. This paper accordingly is devoted to equip the students with basic theory of econometrics and relevant applications of the methods. The topics covered in the course include various problems faced in estimation of both single equations and simultaneous equations models.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Equip with a broad knowledge of regression analysis relevant for analyzing economic data</p> <p><b>CO2:</b> Postulate and testing of hypotheses pertaining to economic issues or problems</p> <p><b>CO3:</b> Understand what all assumptions are need before applying OLS on data set.</p> <p><b>CO4:</b> Explain what all consequences can take place in case of violation of OLS assumptions</p> <p><b>CO5:</b> Carry out the Regression analysis on Quantitative as well as on Qualitative variable.</p> <p><b>CO6:</b> Solve the practical problems based on both single equations and simultaneous equations models.</p> <p><b>CO7:</b> Carry out the analysis having single variable data.</p> <p><b>CO8:</b> Carry out the analysis containing more than one variable.</p>	
7	Course Description	The course covers various econometric methods applicable to different topics in economics and those needed for applied economic research.	
8	Outline syllabus		CO Mapping
	<b>Unit 1</b>	<b>Introduction to Econometrics and OLS Method</b>	
	A	Definition, Scope and Methodology of Econometrics, Simple Linear Regression Model	CO1
	B	OLS- Methods, Assumptions & Properties (Gauss Markov Theorem)	CO3
	C	Derivation and Interpretation of OLS Estimators of Slope & Coefficients ( $\beta_1$ & $\beta_2$ )	CO1
	D	Standard Deviation & Standard Error of Regression Coefficients (Derivation and Interpretation)	CO1

E	Coefficient of Determination ( $R^2$ ) and Correlation coefficient (r)			CO1
<b>Unit 2</b>	<b>Multiple Linear Regression Model</b>			
A	Multiple Linear Regression Model, Properties of OLS estimators with two explanatory variables			CO8
B	Determination Coefficients $R^2$ & Adjusted $R^2$			CO8
C	Hypothesis Testing using t and F statistics			CO2
D	Derivation and Interpretation of Confidence Interval			CO2
E	Functional Form of Regression Model			CO1
<b>Unit 3</b>	<b>Violation of OLS Assumptions</b>			
A	Heteroscedasticity- Meaning, Sources, Estimation, Consequences, Detection & Remedial Measures			CO3,CO4
B	Multicollinearity- Meaning, Sources, Estimation, Consequences, Detection & Remedial Measures			CO3,CO4
C	Autocorrelation- Meaning, Sources, Estimation, Consequences, Detection & Remedial Measures			CO3,CO4
D	Generalized Least Square (GLS)			CO3
<b>Unit 4</b>	<b>Dummy Variables and Simultaneous Equation Model</b>			
A	Specification of Regression Variables, Error of Measurements			CO1
B	Dummy Variables: Use of Dummy Variables, Slope Dummy Variable, The Chow Test			CO5
C	Simultaneous Equation Model: Simultaneous Dependence of Variables & Consequences, Simultaneous Bias			CO6
D	Problem of Identification, Rules of identification: Order and Rank Conditions			CO6
E	Implications of the Identification State of Model			CO6
Mode of examination	Theory			
Weightage Distribution	CA	MTE	ETE	
	10%	10%	80%	
Text book/s*	Gujarati, Damodar: Basic Econometrics, McGraw Hill.			
Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>1. Koutsoyiannis, A: Theory of Econometrics, Macmillan Publishers.</li> <li>2. Maddala, G. S: Econometrics, McGraw Hill, New York.</li> <li>3. Mills, T: Time Series Techniques for Economists, New York: Cambridge University Press.</li> <li>4. Pesaran, M. H. &amp; Peter Schmidt: Handbook of Applied Econometrics, Vols. I &amp; II, Oxford University Press.</li> <li>5. Pindyck, R. S. and Rubinfeld, D. L: Econometric Models and Economic Forecasts, McGraw Hill.</li> <li>6. William, Green: Econometric Analysis, Prentice Hall.</li> </ol>			

### Question Paper Structure

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## SEMESTER IV

<b>Department: Department of Economics</b>		<b>Batch : 2019-2021</b>	
<b>Program: M.A</b>		<b>Academic Year: 2021-22</b>	
<b>Branch:</b>		<b>Semester: IV</b>	
1	Course Code	19ECO401	
2	Course Title	Public Economics II	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Compulsory	
5	Course Objective	Role and functions of the Government in an economy have been changing with the passage of time. The term 'Public Finance' has traditionally been applied to the package of those policies and operations which involve the use of tax and expenditure measures while budgetary policy is an important part to understand the basic problems of use of resources, distribution of income, etc.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Understand the roles of government from different perspective</p> <p><b>CO2:</b> Analyze Issues related to market failure and externalities</p> <p><b>CO3:</b> Learning the mechanism of resource allocation.</p> <p><b>CO4:</b> Understating The theory of voting system.</p> <p><b>CO5:</b> Interpret causes and consequences of public expenditure.</p> <p><b>CO6:</b> Analysis of policies regarding poverty alleviations.</p> <p><b>CO7:</b> Understand the structure of fiscal federalism in India.</p> <p><b>CO8:</b> Understand the role of regulation in taxation system.</p>	
7	Course Description	The course provide the knowledge of problem of externality and their internalization and trend in land market and regulations.	
8	Outline syllabus		CO Mapping
	<b>Unit 1</b>	<b>Changing perspective about the Role of the Government</b>	
	A	Government in a mixed economy	CO1
	B	Public and private sector	CO2
	C	Co-operation or competition	CO2
	D	Market failure and imperfections	CO2
	E	Externalities of public goods	CO1
	<b>Unit 2</b>	<b>Public Choice &amp; Rationale of Public Policy</b>	
	A	Private and public mechanism for allocating resources	CO3
	B	Problems of preference revelation and aggregation of preferences	CO3
	C	Voting systems	CO4
	D	Arrow impossibility theorem	CO4

	E	Market Voluntary exchange models			CO4
	<b>Unit 3</b>	<b>Public Expenditure</b>			
	A	Second best theory of Public Expenditure			CO5
	B	Causes of growth in Public Expenditure			CO5
	C	Planning and Programme budgeting and zero base budgeting			CO5
	D	Incidence and Effects of Public Expenditure			CO6
	E	Poverty alleviation, provision of infrastructural facilities			CO6
	<b>Unit 4</b>	<b>Indian Public Finances</b>			
	A	Fiscal federalism in India			CO7
	B	Fiscal functions: an overview			CO7
	C	Externalities: the problem and its solutions			CO7
	D	Taxes versus regulation			CO8
	E	Property rights			CO8
	Mode of examination	Theory			
	Weightage Distribution	CA	MTE	ETE	
		10%	10%	80%	
	Text book/s*	Public Finance by H.L. Bhatia, Vikas Publication limited.			
	Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>1. Stiglitz, J. and Rosengard, J: Economics of the Public Sector, W. W.Norton and Company.</li> <li>2. Atkinson, A. and Stiglitz, J: Lectures on Public Economics, McGraw-Hill; reprinted by Princeton University Press.</li> <li>3. Mirrlees, James et al. Tax by Design, Oxford University Press.</li> <li>4. Miceli, Thomas J. The Economic Theory of Eminent Domain: Private Property, Public Use, Cambridge University Press.</li> <li>5. Feldman, Allan M. and Serrano, Roberto. Welfare Economics and Social Choice Theory, Springer, New York, USA.</li> </ol>			

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<b>Department: Department of Economics</b>		<b>Batch : 2019-2021</b>	
<b>Program: M.A</b>		<b>Academic Year: 2021-22</b>	
		<b>Semester: IV</b>	
1	Course Code	19ECO402	
2	Course Title	Economy of Haryana	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Compulsory	
5	Course Objective	Haryana is one of the fastest growing economies of the Indian state. The state is focusing mainly on the industrial infrastructure since the time of its formation and various governments have succeeded in providing industrial development friendly and conducive environment. Key sectors in the state include automobile and auto components, textiles and readymade garments, information technology and information technology enabled services. The state produces half of the cars and two-wheelers produced in India. The main objective of the course is to analyze the economic, social, demographic, cultural and geographical status of Haryana. Special attention also has been paid to discuss the latest developments, policies, and problems related to the economy of Haryana.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Learning the methods of measuring economic development by various measures.</p> <p><b>CO2:</b> Learning the methods of measuring economic inequality and poverty.</p> <p><b>CO3:</b> Analyze the sectoral aspect of economic development i.e. Agriculture sector, Industrial Sector and Service sector</p> <p><b>CO4:</b> Try to understand the sustainability and employability in all the three sectors.</p> <p><b>CO5:</b> Understanding the critical role of Trade in Economic development and some important economic theory.</p> <p><b>CO6:</b> Analyze the role of Foreign Aid and Fiscal policy for development</p> <p><b>CO7:</b> Understanding the role of Good Economic Governance and Development Planning.</p> <p><b>CO8:</b> Interpret the concept of Inclusive Growth</p>	
7	Course Description	The course provide with the basic concepts and methods of measuring development so as to enhance thinking for decision making	
8	Outline syllabus		CO Mapping
	<b>Unit 1</b>	<b>Economic and Social features of Haryana</b>	
	A	Economic Structure of Haryana , Agriculture in Haryana	CO1
	B	Irrigation strategy & levels, Agricultural Diversification	CO2
	C	Agricultural Marketing	CO2
	D	Rural Credit and Rural Indebtedness	CO2
	E	W.T.O. and Haryana Agriculture	CO1

	<b>Unit 2</b>	<b>Industrial Development in Haryana</b>			
	A	Industry in Haryana: Pattern, Performance, Constraints and Challenges			CO3
	B	Small Scale Industries: Role, Problems and future prospects			CO3
	C	State and Industrial Development			CO3
	D	Economies of Scale			CO4
	E	Industrial Finance in Haryana			CO4
	<b>Unit 3</b>	<b>Infrastructure in Haryana</b>			
	A	Infrastructure: Power Sector: Organizational Structure, Performance			CO5
	B	Haryana Electricity Regulatory Commission, Pricing Policies & Finances			CO5
	C	Urban Infrastructure and Haryana Urban Development Authority			CO6
	D	Rural Electrification			CO6
	E	Transport Sector			CO6
	<b>Unit 4</b>	<b>State Finances</b>			
	A	Sources of Revenue & Pattern of Expenditure			CO7
	B	Haryana's Development Experience: Regional, Social and Gender Disparities			CO8
	C	Critical assessment of State Development Policies			CO7
	D	Fiscal Management in Haryana- a critical Appraisal			CO8
	E	Challenges and Perspectives on Inclusive Development of states			CO8
	Mode of examination	Theory			
	Weightage Distribution	CA	MTE	ETE	
		10%	10%	80%	
	Text book/s*	S.P. Gupta, Three Decades of Haryana Economy, S P Publications, 144, Shivalik Enclave (NAC) Manimajra – 160101			
	Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>1. Ministry of Finance; Government of Haryana: Haryana Statistical Abstract (various issues)</li> <li>2. Ministry of Finance; Government of Haryana: Economic Survey (various Issues)</li> <li>3. Planning Commission, Govt. of India: Haryana Development Report, Govt. of India, New Delhi.</li> <li>4. Edger M. Hoover: An Introduction to Regional Economics, Alfred A. Knopf, New York</li> <li>5. D.R. Choudhary, Haryana At Cross Roads: Problems and Prospects National Book Trust, India, New Delhi.</li> <li>6. Various research papers and research studies.</li> </ol>			

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<b>Department: Department of Economics</b>		<b>Batch : 2019-21</b>	
<b>Program: MA</b>		<b>Academic Year: 2021-22</b>	
		<b>Semester: IV</b>	
1	Course Code	19ECO403	
2	Course Title	Indian Economy II	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Compulsory	
5	Course Objective	The Objective of this paper is to acquaint the students with the performance of different sectors of the Indian Economy and the policy framework governing them. This will provide them an insight into the past, present and future functioning of the Indian Economy and strengthen their analytical capability.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Carry out the analysis the performance of Service Sector.</p> <p><b>CO2:</b> Demonstrate the understanding concepts of Sustainability of Services Led Growth.</p> <p><b>CO3:</b> Analyze the performance of Infrastructure Development.</p> <p><b>CO4:</b> Demonstrate the Public Policy with the special reference to Competition Policy and Consumer Protection Act.</p> <p><b>CO5:</b> Analyze the Financial Sector of Indian Economy and issues related to it.</p> <p><b>CO6:</b> Demonstrate the concept of Fiscal Federalism.</p> <p><b>CO7:</b> Demonstrate the concept of Fiscal Responsibility and Budget Management Act, 2003.</p> <p><b>CO8:</b> Carry out the analysis the performance of External sector.</p>	
7	Course Description	The course provide with the basic idea of performance of different sectors of Indian Economy.	
8	Outline syllabus		CO Mapping
	<b>Unit 1</b>	<b>Sectoral Growth : Service Sector</b>	
	A	Growth and Components of Service Sector in India	CO1
	B	Foreign Trade in Services	CO1
	C	Sustainability of Services Led Growth	CO2
	D	Infrastructure Development – Need ,Performance and Government Strategy on Infrastructure Development	CO3
	E	Changes in Public Policy with the special reference to Competition Policy and Consumer Protection Act	CO4
	<b>Unit 2</b>	<b>Financial sector</b>	
	A	Structure of financial System in India	CO5
	B	Financial Sector Reforms	CO5
	C	Capital Market: Growth, Problems and Reforms	CO5
	D	Trends in NPAs	CO5
	E	Fiscal Responsibility and Budget Management Act,2003	CO5

	<b>Unit 3</b>	<b>Fiscal Sector</b>			
	A	Centre- state Financial Relations			CO6
	B	Fiscal Reforms			CO6
	C	Finance Commission of India			CO6
	D	India's Fiscal Policy			CO6
	E	Fiscal Responsibility and Budget Management Act,2003			CO7
	<b>Unit 4</b>	<b>External Sector</b>			
	A	Foreign Trade : Volume, Composition and direction			CO8
	B	Trade Policy during Post Reform Period			CO8
	C	Problems of Balance of payments			CO8
	D	Growth of FDI, SEZs			CO8
	E	India and WTO			CO8
	Mode of examination	Theory			
	Weightage Distribution	CA	MTE	ETE	
		10%	10%	80%	
	Text book/s*	Misra , Puri, Indian Economy, Himalaya Publishing House, Bombay			
	Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>1 Brahmananda, P R and Panchmukhi, V R: The Development Process of Indian Economy, Himalaya Publishing House, Bombay</li> <li>2 Byers, T J: The Indian Economy: Major Debates since Independence; Oxford University Press, New Delhi.</li> <li>3 Jalan, B: The Indian Economy – Problems and Prospects, Viking, New Delhi.</li> <li>4 Kapila, Uma: Indian Economy since Independence, Academic Foundation, New Delhi.</li> <li>5 Kureger, A.O: Economic Policy Reforms and the Indian Economy, Oxford University Press, New Delhi.</li> <li>6 Economic and Political Weekly: Various issues.</li> <li>7 Government of India: Economic Survey (Latest), Ministry of Finance.</li> </ol>			

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## Electives Group 1

<b>Department: Department of Economics</b>		<b>Batch : 2019-21</b>	
<b>Program: MA</b>		<b>Academic Year: 2020-21</b>	
		<b>Semester: III</b>	
1	Course Code	19ECO305	
2	Course Title	Agricultural Economics	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Elective	
5	Course Objective	The focus of this course is to introduce students to the importance of agricultural sector and to the issues associated with agricultural transformation, agricultural production and demand of and supply for agricultural commodities. The objective is to equip students to analyze and critically assess issues, policies and programmers in these areas with emphasis on Indian Agriculture.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Demonstrate understanding the concept of Agricultural Economics and farm organization.</p> <p><b>CO2:</b> Explain Contribution of agriculture to other sectors and problems related to it.</p> <p><b>CO3:</b> Apply the measures of Micro Economic tools to analyze the productivity of Agriculture.</p> <p><b>CO4:</b> Understand the risk and uncertainties related to agriculture.</p> <p><b>CO5:</b> Analyze the theories related to agricultural transformation.</p> <p><b>CO6:</b> Analyze the Agricultural Transformation over a period of time Indian aspect.</p> <p><b>CO7:</b> Critically assess issues, policies and programmers in areas with emphasis on Indian Agriculture.</p> <p><b>CO8:</b> Explain the issues in Agriculture in WTO.</p>	
7	Course Description	The course provides with the basic concepts of Agriculture and analyzes the issues in agriculture.	
	<b>Unit 1</b>	<b>Introduction to Agricultural Economics</b>	
	A	Nature and scope of Economics of Agriculture	CO1
	B	Specificities of Farm Organization and Agricultural Production and Markets	CO1
	C	Inter-sector Linkages of Agriculture	CO2
	D	Place of Agriculture in Indian Economy	CO2
	E	Barriers to Agriculture	CO2
	<b>Unit 2</b>	<b>Agricultural Production and Risk</b>	

	A	Various types of Factor-Product , Factor- Factor and Product –Product Relations		CO3
	B	Farm Budgeting and Cost Concepts		CO3
	C	Role of Farm –Size and Structure in Equilibrium		CO3
	D	Nature and Types of risks and uncertainties in Agriculture		CO4
	<b>Unit 3</b>	<b>Agricultural Transformation</b>		
	A	Schultz Theory of Traditional Agriculture		CO5
	B	Mellor’s Model of Agricultural Development		CO5
	C	Hayami-Ruttan Induced Innovation Model of Agricultural Development		CO5
	D	Agricultural Transformation : Indian perspective		CO6
	<b>Unit 4</b>	<b>Agriculture and Globalization</b>		
	A	The New Economic Policy and Indian Agriculture		CO7
	B	Main Features of International Trade in Agricultural commodities		CO7
	C	Agriculture in GATT Negotiations		CO8
	D	WTO and Agriculture		CO8
	E	Recent Developments in Indian Agricultural Policy		CO7
	Mode of examination	Theory		
	Weightage Distribution	CA	MTE	ETE
		10%	10%	80%
	Text book/s*	Soni, R.N Leading Issues in Agricultural Economics (Sohan Lal Nagin Chand Co. Jalandhar,2006)		
	Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>1. Dantawala, M.L. Indian Agricultural Development since Independence.</li> <li>2. Lekhi R.K. &amp; Singh Joginder, Agricultural Economics, Kalyani Publishers, New Delhi.</li> <li>3. Government of India: National Agricultural Policy, Ministry of Agriculture, Government of India, New Delhi.</li> <li>4. Hyami, Y and Rattan, V.M. Agricultural Development : An Inter- national Perspective</li> <li>5. Government of India: Five year Plan (latest), Planning Commission, Government of India, New Delhi.</li> </ol>		

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<b>Department: Department of Economics</b>		<b>Batch : 2019-21</b>	
<b>Program: MA</b>		<b>Academic Year: 2020-21</b>	
		<b>Semester: III</b>	
1	Course Code	19ECO306	
2	Course Title	Rural Development	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Elective	
5	Course Objective	The objective of this course is to provide a detailed treatment of issues pertaining to rural development to those intending to specialize in this area. Its objective is to familiarize students with the theory of rural development issues that are relevant to Indian countryside and enable them to understand and analyze the problems of rural development.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Gain insight into the socio-economic structure of rural India</p> <p><b>CO2:</b> Understand the prospects and problems of rural development in India</p> <p><b>CO3:</b> Explain and critically review current debates in rural development regarding rural livelihoods and the respective roles of markets, the state, institutions, property rights, agriculture and the rural non-farm economy.</p> <p><b>CO4:</b> Critically evaluate past and existing attempts to supply rural services, such as infrastructure, finance, research and extension, health and education.</p> <p><b>CO5:</b> Analyse critically alternative rural development policies in terms of their potential impact on rural poverty, equity and economic growth, taking account of different regional and geographical circumstances.</p> <p><b>CO6:</b> Outline and evaluate different approaches to rural development and their potential impact on rural development goals.</p> <p><b>CO7:</b> Critically evaluate the plans and strategies for rural development</p> <p><b>CO8:</b> Explain various alternatives of livelihood for rural development</p>	
7	Course Description	The course provides with the basic concepts of Rural Development and analyzes the issues in it.	
	<b>Unit 1</b>	<b>Rural Institutions and Infrastructure</b>	
	A	Concept, nature, indicators of Rural Development	CO2
	B	Importance of Rural Development	CO2
	C	Panchayati Raj Institutions & Village Co-operatives	CO3
	D	Gender Issues and Rural Development in India	CO1
	E	Rural Infrastructure in India	CO4
	<b>Unit 2</b>	<b>Rural Poverty &amp; Disparities in Rural Development</b>	
	A	Rural Poverty	CO5
	B	Nature & Causes of Inter-state disparities in Rural Development	CO5
	C	Consequences & Remedial Measures of Inter-state disparities in Rural Development	CO5

	D	Nature & Causes of Rural-Urban Disparities in Living Standards			CO5
	E	Consequences & Remedial Measures of Rural-Urban Disparities in Living Standards			CO5
	<b>Unit 3</b>	<b>Emerging Issues &amp; Approaches to Rural Development</b>			
	A	Food Security and PDS: Problem and Objectives			CO2
	B	Remedial Measures of Food Security			CO2
	C	Nurksian Approach			CO6
	D	Cluster Approach to Rural Development			CO6
	E	Gandhian Approach on Rural Development			CO6
	<b>Unit 4</b>	<b>Strategies &amp; Planning for Rural Development</b>			
	A	Alternatives in Rural Development: Dairying and Poultry Farming			CO8
	B	The Role, Scope and Prospects of Rural Non-Farm Enterprises			CO8
	C	Policy and Allocation under plans for rural Development			CO7
	D	The Role of Non-Government Organizations in India			
	E	Appraisal of Rural Development in India since Independence			
	Mode of examination	Theory			
	Weightage Distribution	CA	MTE	ETE	
		10%	10%	80%	
	Text book/s*	Jain, L C, Krishnamurthy B V and : Grass Without Roots: Rural Development under Tripathy, I M Government Auspices, Sage Publications India Pvt. Ltd., New Delhi			
	Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>1. Chambers, Robert: Revolution in Development Inquiry, Earthscan Publication Ltd.</li> <li>2. Dixon, Chris J Dixon: Rural Development in the Third World, Routledge Gallant, Nick, Sui Monk Kidd, Dave Shaw, Merri Juntti, "Introduction to Rural Planning" Routledge.</li> <li>3. Jytte Agergaard, Niels Fold, : Rural-Urban Dynamics: Livelihoods, mobility Katherine Gough: and markets in African and Asian frontiers, Routledges</li> <li>4. McAreavey, Ruth: Rural Development Theory and Practice, Routledge</li> <li>5. Mosley, Malcolm J: Rural Development: Principles and Practices, Sage Publications India Pvt. Ltd., New Delhi</li> <li>6. Murat Arsel, Max Spoor: Water, Environmental Security and Sustainable Rural Development, Routledge</li> <li>7. Saturnino M Borrás Jr: Critical Perspectives in Rural Development Studies, Routledge.</li> </ol>			

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<b>Program: MA</b>		<b>Academic Year: 2021-22</b>	
		<b>Semester: IV</b>	
1	Course Code	19ECO405	
2	Course Title	Agribusiness Management	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Elective	
5	Course Objective	To acquaint the Students with the basic principles of Agribusiness management dealing with the analysis of farm resources having alternatives within the framework of resource restrictions.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Demonstrate understanding the concept of Farm Business Management.  <b>CO2:</b> Demonstrate understanding the principles of Farm Business Management.  <b>CO3:</b> Apply the measures of tools of Agribusiness Management.  <b>CO4:</b> Demonstrate Understanding the management strategy to risk and uncertainties related to agribusiness.  <b>CO5:</b> Analyze the Farm efficiency measures.  <b>CO6:</b> Demonstrate understanding the concept of Supply Chain Management.  <b>CO7:</b> Analyze the Agribusiness Financing in India.  <b>CO8:</b> Critically assess policies in areas with emphasis on Agribusiness.</p>	
7	Course Description	The course provides with the basic concepts of Agribusiness Management and analyzes the issues in Agribusiness management.	
8	Outline Syllabus		CO Mapping
	<b>Unit 1</b>	<b>Introduction to Farm Business Management</b>	
	A	Nature, scope, characteristics and role of farm business management	CO1
	B	Farm management decisions	CO1
	C	Farm management Problems	CO1
	D	Principles of farm management decisions - principle of variable proportion, cost principle, principle of factor substitution	CO2
	E	Law of equi-marginal returns, opportunity cost principle, etc	CO2
	<b>Unit 2</b>	<b>Tools of farm management and farm business analysis Under Risk and Uncertainty</b>	
	A	Farm planning and Budgeting	CO3
	B	Management of farm resources - Land, Labour, Farm machinery, Farm building.	CO3
	C	Risk and uncertainty in farming -sources of uncertainty	CO3
	D	management strategy to risks and uncertainty	CO4
	E	Farm efficiency measures	CO5

	<b>Unit 3</b>	<b>Supply Chain Management</b>			
	A	Present Need Conceptual Model of Supply Chain Management			CO6
	B	Evolution of SCM			CO6
	C	Traditional Agri. Supply Chain Management			CO6
	D	Modern Supply Chain Management Approach			CO6
	E	Elements in SCM			CO6
	<b>Unit 4</b>	<b>Agribusiness Financing and Policies</b>			
	A	Credit Cooperatives			CO7
	B	Banks, Regional, Rural banks, NABARD			CO7
	C	Agro- industries Corporation in agribusiness financing			CO8
	D	Agricultural price and marketing policies			CO8
	E	Public Distribution System and other policies			CO8
	Mode of examination	Theory			
	Weightage Distribution	CA	MTE	ETE	
		10%	10%	80%	
	Text book/s*	Kahlon AS & Singh K. Economics of Farm Management in India, Allied Publication.			
	Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>1. Heady Eo &amp; Jensen H: Farm Management Economics. Prentice Hall.</li> <li>2. Johl SS &amp; Kapoor TR: Fundamentals of Farm Business Management, Kalyani Publication.</li> <li>3. Kahlon AS &amp; Singh K: Economics of Farm Management in India, Allied Publication.</li> <li>4. Altekar RV: Supply Chain Management: Concepts and Cases; Prentice Hall of India.</li> <li>5. Fronczka R, Trent R &amp; Handfield R: Purchasing and Supply Chain Management; Thomson Asia.</li> <li>6. Van Weele AJ: Purchasing and Supply Chain Management Analysis, Planning and Practice, Vikas Publishing House.</li> <li>7. Pandey F M: Financial Management, Vikas Publ. House.</li> <li>8. Nelson AG &amp; Murrey WG: Agricultural Finance, Kalyani Publication House.</li> </ol>			

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2. There shall be 2 questions from each unit having internal choice. The students are required to attempt any one question from each unit. The weightage for each question shall be 16 marks.

<b>Department: Department of Economics</b>		<b>Batch : 2019-21</b>	
<b>Program: MA</b>		<b>Academic Year: 2021-22</b>	
		<b>Semester: IV</b>	
1	Course Code	19ECO406	
2	Course Title	Agriculture Food and Processing Management	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Elective	
5	Course Objective	The objective of this course is to acquaint the students with different food processing techniques and their management.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Understand about the present status of food industry in India  <b>CO2:</b> Explain various factors affecting operations of food industry  <b>CO3:</b> Critically assess various principles of food processing  <b>CO4:</b> Explain how food packaging and labelling is to be done  <b>CO5:</b> Demonstrate how economists tackle a range of policy-related issues that are relevant to food and agricultural businesses like quality management  <b>CO6:</b> Explain various issues like risk management and cost in food industry  <b>CO7:</b> Solve case studies based on various food related industries  <b>CO8:</b> Explain the processing mechanism of various food industries in India</p>	
7	Course Description	This paper will let students to know about various Food industries in India and their Processing Management	
	<b>Unit 1</b>	<b>Introduction of Food Industry</b>	
	A	Present status of food industry in India	CO1
	B	Organization in food industry	CO1, CO2
	C	Introduction-to operations of food industry	CO2
	D	Deteriorative factors and hazards during processing, storage	CO2
	E	Deteriorative factors and hazards during handling and distribution	CO2
	<b>Unit 2</b>	<b>Basic Principles of Food Processing</b>	
	A	Basic principles and methods of food processing and food preservation by manipulation of parameters and factors and application of energy, radiations	CO3
	B	Chemicals & Biotechnological agents	CO3
	C	Food packaging materials and methods	CO4
	D	Labelling of food products	CO4
	<b>Unit 3</b>	<b>Management of Quality</b>	
	A	Control of Raw Materials, Process and Finished Products	CO5
	B	Analysis of costs in food organization	CO6
	C	Risk management	CO6

	D	Laws and regulations related of food industry and food production and marketing			CO5
	E	Quality management standards			CO5
	<b>Unit 4</b>	<b>Various Food Processing Industry</b>			
	A	Dairy and milk Industry in India			CO1, CO8
	B	Cereal milling, oil-seed and pulse milling Industry			CO1,CO8
	C	Fruits and vegetable storage and handling, processing of fruits and vegetables			CO1,CO8
	D	Egg, poultry, fish and meat handling and processing			CO1,CO8
	E	Case Studies based on above industries			CO7
	Mode of examination	Theory			
	Weightage Distribution	CA	MTE	ETE	
		10%	10%	80%	
	Text book/s*	Acharya SS & Aggarwal NL, Agricultural Marketing in India, Oxford & IBH.			
	Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>1. Early R: Guide to Quality Management Systems for Food Industries</li> <li>2. Blackie. Jelen P: Introduction to food processing. Reston publishing.</li> <li>3. Potly VH &amp; Mulky MJ, Food Processing , Oxford &amp; IBH</li> </ol>			

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## Group II

<b>Department: Department of Economics</b>		<b>Batch : 2019-21</b>	
<b>Program: MA</b>		<b>Academic Year: 2020-21</b>	
		<b>Semester: III</b>	
1	Course Code	19ECO307	
2	Course Title	Industrial Economics	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Elective	
5	Course Objective	In the Contemporary world With globalization and Liberalization, more and more attention is being given to industry. Since Industry performance critically depends on firm's behavior allowing equilibrium outcome, the course intends to provide a rigorous knowledge of different long-run equilibrium outcome of firm under different conditions from point of view of public policy. The Students are also equipped to deal with debate involved in the Industrial in analytical manner, particularly in the Indian context.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Demonstrate understanding of basic concepts of Industrial Economics</p> <p><b>CO2:</b> To analyze the factors that helps in Industrial growth and theories that helps us in finding industrial location</p> <p><b>CO3:</b> Analyze the Determinants of Growth of Industrial Sector</p> <p><b>CO4:</b> Understand the product pricing under public and private sector</p> <p><b>CO5:</b> Analyze the various methods of project evaluation</p> <p><b>CO6:</b> Carry out the process to collaboration done by industrial sector</p> <p><b>CO7:</b> Analyze the performance, policies and provision of Finance to industrial sector in context to India</p> <p><b>CO8:</b> Explain the concept of Market Structure and its relationship with profitability &amp; innovation</p>	
7	Course Description	The course provide with the basic concepts and analytical study of Industry to analyze the performance of industrial growth in India.	
8	Outline syllabus		CO Mapping
	<b>Unit 1</b>	<b>Framework of Industrial Economics</b>	
	A	Concept, History and Scope of Industrial Economics	CO1
	B	Organization of a firm : ownership and Objectives	CO1
	C	Factors Affecting Industrial Location	CO2
	D	Weber Theory of Industrial Location	CO2
	E	Sargent Florence Theory of Industrial Location	CO2
	<b>Unit 2</b>	<b>Market Structure</b>	
	A	Determinants of Growth of the firm	CO3
	B	Market Structure : Seller's Concentration	CO3

	C	Product Differentiation			CO3
	D	Market Structure and Profitability			CO8
	E	Market Structure and Innovation			CO8
	<b>Unit3</b>	<b>Product Pricing</b>			
	A	Product Pricing –Public and Private Sector			CO4
	B	Methods of Project Evaluation			CO5
	C	Mergers and Acquisitions (M&A)			CO6
	D	Diversification			CO6
	E	Entry Conditions and Economies of Scale			CO6
	<b>Unit 4</b>	<b>Public Policy and Industrial Finance</b>			
	A	Public Policy for Industrial Development in India Since Independence – A critique			CO7
	B	Pattern of Industrial Growth and Changes in Industrial Structure			CO7
	C	Industrial Finance in India: Role, nature ,Volume			CO7
	D	Types of Institutional Finance – IDBI			CO7
	E	IFCI, SFCs, Commercial Banking			CO7
	Mode of examination	Theory			
	Weightage Distribution	CA+	MTE	ETE	
		ASSIGNMENT			
		10%	10%	80%	
	Text book/s*	Bharthwal, R.R, Industrial Economics, Wiley Eastern Ltd. New Delhi			
	Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>1. Martin Stephen: Industrial Economics (Economic Analysis and public Policy)</li> <li>2. Ahluwalia I.J: Industrial Growth in India, Oxford University Press, New Delhi.</li> <li>3. Cherunilam F: Industrial Economics: Indian Perspective, Himalya Publishing House, Mumbai.</li> <li>4. Reserve Bank of India Report on Currency and Finance (Annual)</li> <li>5. Hay, D and D.J Moris: Industrial Economics: Theory and Evidence, Oxford University Press, New Delhi.</li> </ol>			

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2. There shall be 2 questions from each unit having internal choice. The students are required to attempt any one question from each unit. The weightage for each question shall be 16 marks.

<b>Department: Department of Economics</b>		<b>Batch : 2019-2021</b>	
<b>Program: M.A</b>		<b>Academic Year: 2020-21</b>	
		<b>Semester: III</b>	
1	Course Code	19ECO308	
2	Course Title	Labor Economics	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Elective	
5	Course Objective	Issues pertaining to the labor 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 labor 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 Paper exposes students to theoretical as well as empirical issues relating to the labor market with special reference to India.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Understand the nature and scope of labor market.</p> <p><b>CO2:</b> Have a deep analysis of great extent of discrimination in labor market.</p> <p><b>CO3:</b> Understand the problems and types of unemployment in India.</p> <p><b>CO4:</b> Learn the concept of modernization employment in India.</p> <p><b>CO5:</b> Analyze the role of Wage Boards in India.</p> <p><b>CO6:</b> Understand the concept of Bonus System and Profit Sharing.</p> <p><b>CO7:</b> Have a deep analysis of some important acts like Industrial Dispute Act, 1947 Factory Act, 1948</p> <p><b>CO8:</b> Understand Safety Net and EXIT Policy.</p>	
7	Course Description	The course provide with the basic concepts ad nature of Labor Markets and its operations under different market condition. Moreover it will help students to understand the problem of unemployment.	
8	Outline Syllabus		CO Mapping
	<b>Unit 1</b>	<b>Labor Markets</b>	
	A	Nature and characteristics of labor markets	CO1
	B	Discrimination in the Labor Market	CO2
	C	Mobility and productivity of labor	CO1
	D	The Theory of Human Capital	CO2
	E	Operation of the labor market under different market Structures	CO2
	<b>Unit 2</b>	<b>Employment</b>	
	A	Unemployment- Concept, Types and Measurement	CO3

	B	Poverty and unemployment in developing countries	CO3
	C	Technological Change and Modernization of Employment in Organized private Industry	CO4
	D	Analysis of educated Unemployment	CO4
	E	Unemployment based on demographic attributes	CO4
	<b>Unit 3</b>	<b>Wage Determination</b>	
	A	Productivity and wage relationship	CO5
	B	Concepts of Minimum Wage and Fair Wage and living wage	CO5
	C	National wage policy	CO5
	D	Wage Boards in India	CO5
	E	Bonus System and Profit Sharing	CO6
	<b>Unit 4</b>	<b>Labour &amp; Globalisation</b>	
	A	Globalization and Labour	CO7
	B	Industrial relations- Trade Union & Workers	CO7
	C	Industrial Disputes Act, 1947 and Factories Act, 1948.	CO7
	D	Exit Policy and Safety Nets	CO8
	E	National Commission on Labour	CO8
	Mode of examination	Theory	
	Weightage Distribution	CA	MTE
		10%	10%
		ETE	80%
	Text book/s*	Deshpande L.K. and J.C. Sandesara, Wage Policy and Wages Determination in India, Bombay University Press, Bombay.	
	Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>Hajela, P.D, Labor Restructuring in India: A Critique of the New Economic Policies, Commonwealth Publisher, New Delhi.</li> <li>Harmonds worth Das, N: Unemployment, Full Employment and India, Asia Publishing House, Bombay.</li> <li>Hicks J.R: The Theory of Wages, Clarendon Press, Oxford.</li> <li>Mazumdar, D: Micro-economic Issues of Labour Markets in Developing Countries, EDI Services Paper No. 40, World Bank, Washington D.C.</li> <li>McConnell, C.R. and S.L. Brue: Contemporary Labour Economics, McGraw-Hill, New York.</li> <li>Memoria, C.B: Labor Problems and Social Welfare in India, Kitab Mahal, Allahbad.</li> <li>Misra, L: Child Labor in India, Oxford University Press, New Delhi.</li> </ol>	

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<b>Department: Department of Economics</b>		<b>Batch : 2019-2021</b>	
<b>Program: M.A</b>		<b>Academic Year: 2021-22</b>	
		<b>Semester: IV</b>	
1	Course Code	19ECO407	
2	Course Title	Population Economics	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Elective	
5	Course Objective	The main objective of this paper is to make the students aware of the importance of population in economic development and the various theories that explain the growth of population in a country. The study of Quantitative and Qualitative composition of population is also required to understand the dynamics of population growth. Migration and urbanization are the characteristics of structural changes taking place in the economy.	
6	Course Outcomes	At the end of the course students will be able to: <b>CO1:</b> Explain demographic changes in India and their major determinants <b>CO2:</b> Apply demographic concepts and population theories to explain past and present population characteristics <b>CO3:</b> Evaluate the use of demographic concepts and population theories to understand contemporary socio-economic issues and current affairs <b>CO4:</b> Assess the relationship between demographic change and policy <b>CO5:</b> Explain the structure of Population and how ageing affects economy <b>CO6:</b> Explain mortality & fertility differentials in India <b>CO7:</b> Explain how Population affects Economic Development <b>CO8:</b> Evaluate the relationship between mortality & its impact on economic development	
7	Course Description	The course provide with the basic concepts and methods of Population Economics so as to know about various aspects of growth of population in a country.	
8	Outline Syllabus		CO Mapping
	<b>Unit 1</b>	<b>Population Structure</b>	
	A	Population Structure and Characteristics : Impact of Population Growth on Age and Gender Structure	CO5
	B	Ageing of Population	CO5
	C	Concept of Fertility Transition, Measurement of Fertility and Fertility Differentials in India	CO6
	D	Mortality : Components and Measurement	CO6
	E	Mortality Differentials in India: Rural-Urban, Age and Gender	CO6
	<b>Unit 2</b>	<b>Theories of Population</b>	
	A	Malthus, Marxian, Liebenstein, Becker	CO2, CO3
	B	Demographic Transition Theory	CO2, CO3
	C	Optimum Population Theory	CO2, CO3

	D	Population and Economic Development			CO7
	E	Population as “Limits to Growth and as Ultimate Source”			CO7
	<b>Unit 3</b>	<b>Migration</b>			
	A	Migration: Concepts, Measurement, Migration Selectivity			CO8
	B	Causes and Consequences of Migration			CO8
	C	Migration in India : Causes and Trends			CO8
	D	Migration Differentials in India : Rural-Urban, Male-Female			CO8
	E	Theories of migration related to internal migration			CO8
	<b>Unit 4</b>	<b>Evolution of Population Policy in India</b>			
	A	Estimation of Population in India : Census, Sampling Vita Registration Methods			CO1
	B	Growth and Structure on Indian Population since Independence			CO1
	C	Population Policy in India since Independence			CO1,CO4
	D	The shift in policy from population control to family welfare, to women empowerment			CO4
	E	Tasks before the National Population Commission			CO4
	Mode of examination	Theory			
	Weightage Distribution	CA	MTE	ETE	
		10%	10%	80%	
	Text book/s*	Srinivasan, K: Basic Demographic Techniques and Applications, Sage Publications, New Delhi.			
	Other book	<ol style="list-style-type: none"> <li>1. Becker, G: An Economic Analysis of Fertility in Demographic Change and Economic Change in Developed Countries (edited by National Bureau of Economic Research), Princeton University Press, Princeton.</li> <li>2. Bouge, D. J: Principles of Demography, John Wiley, New York.</li> <li>3. Coale, A. and E. Hoover: Population Growth and Economic Development in Low Income Countries: A Case Study of India’s Prospects, Princeton University Press, Princeton.</li> <li>4. Cox, Peter R: Demography, Vikas Publishing House, New Delhi.</li> <li>5. John R. Weeks: Population: An Introduction to Concepts and Issues, Wadsworth Publishing Company, New York.</li> <li>6. Shryock, H. S. et. al: The Methods and Materials of Demography, Academic Press, New York.</li> <li>7. Thompson, W. S. and Lewis, D. T: Population Problems, Tata McGraw Hills Publishing Co., New Delhi.</li> </ol>			

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<b>Department: Department of Economics</b>		<b>Batch : 2019-21</b>	
<b>Program: MA</b>		<b>Academic Year: 2021-22</b>	
		<b>Semester: IV</b>	
1	Course Code	19ECO408	
2	Course Title	Economic Environment of Business	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Elective	
5	Course Objective	An introductory course in Economic Environment of Business, designed to provide with the basic concepts and methods to analysis for Business Environment on Economically .The cardinal objective of the course is to increase the extent to which Economic Environment thinking is embedded in management of Business. The course includes the study of Policies Which can Impact the Business Environment although this course studies the business environment at Global Level.	
6	Course Outcomes	At the end of the course students will be able to: <b>CO1:</b> Demonstrate understanding of basic concepts of Business Environment. <b>CO2:</b> Understanding the Environment Forecasting technique. <b>CO3:</b> Analyze the impact of Economic reforms. <b>CO4:</b> Carry out the brief review of industrial policies pre and post-independence phase. <b>CO5:</b> Demonstrate the concept of monetary and fiscal Policy. <b>CO6:</b> Demonstrate the concept of Finance Commission <b>CO7:</b> Carry out the study of Business Environment at International Level. <b>CO8:</b> Explain the role of MNCs in development of India	
7	Course Description	The course provide with the basic concepts and methods of Economic Business Environment so as to enhance thinking for decision making in Business set up.	
8	Outline syllabus		CO Mapping
	<b>Unit 1</b>	<b>Business Environment</b>	
	A	Concept , Types: Cultural, Social, Political Environment	CO1
	B	Technological , Economic and Legal Environment	CO2
	C	Scanning –Techniques of Environment Forecasting	CO2
	D	SWOT Analysis	CO2
	E	Internal Environment and their impact on policy formulation	CO1
	<b>Unit 2</b>	<b>Economic Reforms in India</b>	
	A	Liberalization, Privatization and Globalization	CO3
	B	Impact of Liberalization policy on different sectors	CO3
	C	Foreign Investment Policy in India	CO3
	D	Multinational Corporations- their participation in India	CO8
	E	MNCs: strategies, competitive strength, policies and performance.	CO8

	<b>Unit 3</b>	<b>Industrial Policies</b>			
	A	Review of Industrial Policies since Independence			CO4
	B	Industrial policy of 1991			CO4
	C	Fiscal Policy : Objectives, tools and evaluation in Indian context			CO5
	D	Monetary Policy: Objectives, tools and recent trends.			CO5
	E	Role of Finance Commission			CO6
	<b>Unit 4</b>	<b>International Environment</b>			
	A	World Bank and its impact on Indian Economy			CO7
	B	IMF and India			CO7
	C	WTO & its impact on Indian Economy			CO7
	D	Development Banks and their role in Indian industries			CO7
	E	Consumer Protection Act			CO7
	Mode of examination	Theory			
	Weightage Distribution	CA	MTE	ETE	
		10%	10%	80%	
	Text book/s*	M. Adhikari: Economic Environment of Business, Sultan Chand & Sons, New Delhi.			
	Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>1. Francis Cherunilam: Business Environment –Text &amp; Cases, Himalayan Publishing House, Mumbai.</li> <li>2. Gupta, Liberalization –Its impact on Indian Economy, Macmillan.</li> <li>3. Prof. Laxmi Nrain: Globalization, Liberalization and Privatization of Public Enterprises, Sultan Chand &amp; Co., New Delhi.</li> <li>4. Suresh Bedi: Business Environment, Excel, New Delhi.</li> </ol>			

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## Group III

<b>Department: Department of Economics</b>		<b>Batch : 2019-21</b>	
<b>Program: M.A</b>		<b>Academic Year:2020-21</b>	
		<b>Semester: III</b>	
1	Course Code	19ECO309	
2	Course Title	Advance Technologies	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Elective	
5	Course Objective	The objective of this paper is to make aware student the changes in Information technologies, applications and Systems around us.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Understanding the Digital Initiatives in India.  <b>CO2:</b> Explain the role of Mobile Operating System.  <b>CO3:</b> Basic understanding of Cloud Computing Services.  <b>CO4:</b> Explain the role of Data in Analytics.  <b>CO5:</b> Explain the implementation of IOT in various domains.  <b>CO6:</b> Analyze the significance and use of Blockchain.  <b>CO7:</b> Assess the role of Cyber Security.  <b>CO8:</b> Explain Role of Industry 4.0 in make in India.</p>	
7	Course Description	This paper will let student understand the advance of IT and Computer.	
8	Outline syllabus		CO Mapping
	<b>Unit 1</b>	<b>Basic on Digital Technologies</b>	
	A	History of Digital India, Pillars of Digital India	CO1
	B	Major Services of Digital India, New Initiative In Digital India	CO1
	C	Integration of Digital India For Masses, Make in India	CO1
	D	Mobile Computing: Introduction, M-Commerce, Mobile Payment	CO2
	E	Major operating system in mobile phone, hardware parameter in mobile phones	CO2
	<b>Unit 2</b>	<b>Big Data and Analytics</b>	
	A	Cloud Computing: Benefits, Cloud Services, Major Service Providers	CO3
	B	Services Models, Pricing Model In Cloud, Method of Selecting The Cloud Model	CO3
	C	Big Data: Need For Big Data Analytics, Big Data Analytics Cases	CO4
	D	Data analytics: Need, Summarizing Data, visualization in data analytics	CO4
	E	Introduction to Artificial Intelligence & its applications	CO4
	<b>Unit 3</b>	<b>Technologies</b>	
	A	IOT: Concept, Hardware and Software Requirement	CO5

	B	Domains of Implementation In IOT			CO5
	C	Working of IOT, Deriving benefit with IOT			CO5
	D	Blockchain: Concepts and its Types			CO6
	E	Key of Blockchain, Introduction to Ethereum			CO6
	<b>Unit 4</b>	<b>Security</b>			
	A	Cyber Security: Concept, types of attack, Factors causing attack, method to prevent cyber-attacks			CO7
	B	Cyber laws: IT act 2010			CO7
	C	Industry 4.0: Understanding the enablers of Industry 4.0			CO8
	D	Smart Factories, Smart cities, smart products and smart services,			CO8
	E	Industry 4.0 & its applications			CO8
	Mode of examination	Theory			
	Weightage Distribution	CA	MTE	ETE	
		10%	10%	80%	
	Text book/s*	Singh & Kumar, "Emerging IT Trends", Pearson Education Foster Provost, "Big Data", SPD Books			
	Other References (Latest Edition to be followed)	1. Mayank Bhushan, "Cyber Security: Hands On approach", BPB Publications 2. Arshdeep Bahga and Vijay K. Madiseti, "Cloud Computing: A Hands-on Approach", (Available Online)			

#### Question Paper Structure

1. The question paper shall consist of 9 questions. Out of which, first question shall be of short answer type and will be compulsory. Question no. 1 shall contain 10 parts representing all units of the syllabus and students shall have to answer any 8 parts.
2. There shall be 2 questions from each unit having internal choice. The students are required to attempt any one question from each unit. The weightage for each question shall be 16 marks.

<b>Department: Department of Economics</b>		<b>Batch : 2019-21</b>	
<b>Program: M.A</b>		<b>Academic Year: 2020-21</b>	
		<b>Semester: III</b>	
1	Course Code	19ECO310	
2	Course Title	Mathematical Economics	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Elective	
5	Course Objective	This course is designed to equip students to understand the economic concepts and theories which use mathematical tools and techniques to refine the verbal logic. The use of calculus has permitted formulation of economic problems in multivariable mode and yield valuable insight about optimizing human behavior. Mathematical economics deals with various applications of mathematical tools and techniques in defining and developing economic relationships. The paper covers important aspects of microeconomics, macroeconomics and development theory and the various modules have been accordingly designed.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Possess a solid grasp of essential mathematical tools required for the further studies in economic theory like Utility Functions</p> <p><b>CO2:</b> Solve economic problems based on Consumer Surplus and Production function using the mathematical methods described in the course</p> <p><b>CO3:</b> Apply mathematical tools in areas like factor and product equilibrium , if necessary, with suitable modifications</p> <p><b>CO4:</b> Develop an understanding of optimization techniques used in economic theory.</p> <p><b>CO5:</b> Solve economic problems based on Market Structure using the mathematical methods described in the course</p> <p><b>CO6:</b> Possess a solid grasp of essential mathematical tools required for the further studies in economic theory like Sales model of firms</p> <p><b>CO7:</b> Apply mathematical tools to calculate productivity &amp; efficiency</p> <p><b>CO8:</b> Solve economic problems based on static &amp; dynamic equilibrium</p>	
7	Course Description	This course has been accordingly designed to include various mathematical techniques/methods/models related to the different parts of economic theory.	
8	Outline syllabus		CO Mapping
	<b>Unit 1</b>	<b>Utility Functions</b>	
	A	Types of utility functions, Ordinal utility maximization	CO1
	B	Demand functions- ordinary and compensated	CO1
	C	Slutsky equation- income, substitution and price effects	CO1
	D	Consumer surplus, Elasticity of demand	CO2
	E	Linear expenditure systems, Indirect utility function	CO1
	<b>Unit 2</b>	<b>Production Function</b>	

	A	Production functions and their properties (CD, CES, Translog)			CO2
	B	Elasticity of factor substitution and curvature of iso-quants & Producers equilibrium			CO2
	C	Duality in cost and production functions			CO2
	D	Growth Accounting Equation			CO2
	E	Methods for measuring productivity and efficiency			CO7
	<b>Unit 3</b>	<b>Market Equilibrium</b>			
	A	Product and factor market equilibrium			CO3
	B	Existence, uniqueness and stability of equilibrium			CO3
	C	Static stability, dynamic stability-lagged adjustment, dynamic stability continuous adjustment			CO8
	D	Dynamic equilibrium with lagged adjustment			CO8
	E	Monopoly, Monopsony and Monopolistic Competition			CO5
	<b>Unit 4</b>	<b>Market Structure</b>			
	A	Duopoly, oligopoly and bi-lateral monopoly			CO5
	B	Cournot, Stackleberg's models			CO5
	C	Joint profit maximization			CO6
	D	Price leadership model			CO6
	E	Baumol, Willamsons, Marris models of firm			CO6
	Mode of examination	Theory			
	Weightage Distribution	CA	MTE	ETE	
		10%	10%	80%	
	Text book/s*	Chiang, A.C: Fundamental Methods of Mathematical Economics, McGraw Hill, New York.			
	Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>Henderson, J. M. and R.E. Quandt: Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi.</li> <li>Koutsoyiannis, A: Modern Microeconomics, Macmillan Press, London.</li> <li>Allen, R.G.D: Mathematical Economics, Macmillan, London.</li> <li>Arrow, K. J. and M. Intrilligator: Handbook of Mathematical Economics, Volumes I, II and III, North Holland, Amsterdam.</li> <li>Chung, J.W, Utility and Production: Theory and Applications, Basil Blackwell, London.</li> <li>Allen R.G.D, Mathematical Analysis for Economists, Macmillan Press and ELBS, London.</li> <li>Jha, R, Contemporary Macroeconomic Theory and Policy, Wiley Eastern Ltd., New Delhi.</li> </ol>			

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- There shall be 2 questions from each unit having internal choice. The students are required to attempt any one question from each unit. The weightage for each question shall be 16 marks.

<b>Department: Department of Economics</b>		<b>Batch : 2019-21</b>	
<b>Program: M.A</b>		<b>Academic Year: 2021-22</b>	
		<b>Semester: IV</b>	
1	Course Code	19ECO409	
2	Course Title	Applied Econometrics	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Elective	
5	Course Objective	The objective of this paper is to introduce econometric techniques based on time series and Panel Data that are widely used in empirical work in economics and other related disciplines. The focus is on conceptual understanding and 'hands on' applications using economic data drawn from real-world examples, rather than on formal theoretical proofs alone. By the end of the course, students should be able to develop econometric models and interpret the econometric and statistical results reported in other studies.	
6	Course Outcomes	At the end of the course students will be able to: <b>CO1:</b> Carry out the analysis on the data set based on Time Series Data <b>CO2:</b> Demonstrate the understanding of Regression on Panel Data for analysis & Research Purpose <b>CO3:</b> Solve the practical problems based on simultaneous equations models <b>CO4:</b> Carry out the regression analysis on data set involving time lag <b>CO5:</b> Understands the concept of Indirect Least Square <b>CO6:</b> Carry out analysis using Polynomial Distributed Lag Model <b>CO7:</b> Understand the basic concept of Pooled Data <b>CO8:</b> Carry out the Analysis using Qualitative Model	
7	Course Description	The focus of the course is on using time series data and accordingly various models have been selected. A module on simultaneous equation methods has been included in the course which constitutes an important tool for analysis in multivariable and even panel data in development-related studies.	
8	Outline syllabus		CO Mapping
	<b>Unit 1</b>	<b>Simultaneous Equation Methods</b>	
	A	Recursive Model and Ordinary Least Square	CO3
	B	Method of Indirect Least Square (ILS)	CO5
	C	Method of Two Stage Least Square (2SLS)	CO3
	D	Instrumental Variable Method	CO3
	E	Three Stage Least Square (3SLS)	CO3
	<b>Unit 2</b>	<b>Dynamic Econometric Model</b>	
	A	Role of Time or Lags in Economics	CO4

	B	Reasons For Lags			CO4
	C	Estimation of Distributed Lag Models			CO4
	D	The Kyock Approach to Distributed lag Model			CO4
	E	The Almon or Polynomial Distributed Lag Models			CO6
	<b>Unit 3</b>	<b>Time Series Model</b>			
	A	Key Concepts: Stochastic Process, Stationary & Non- Stationary process			CO1
	B	Purely Random Process, Random walk Model			CO1
	C	Spurious Regression , Unit Roots			CO1
	D	ARIMA, GARCH, VAR, Dickey Fuller Test			CO1
	E	Co-Integration, Granger Causality Model, Error Correction Model			CO1
	<b>Unit 4</b>	<b>Panel Data Model</b>			
	A	Panel Data: Concept & Importance			CO2
	B	Pooled Regression, Fixed Effect Regression			CO7
	C	Within- Groups Regression Model, Least Square Dummy Variable (LSDV) Regression Model			CO2
	D	Random effect Regression			CO2
	E	Qualitative Model: Linear Probability Model, Logit Model			CO8
	Mode of examination	Theory			
	Weightage Distribution	CA	MTE	ETE	
		10%	10%	80%	
	Text book/s*	Gujarati, Damodar: Basic Econometrics, McGraw Hill.			
	Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>1. Koutsoyiannis, A: Theory of Econometrics, Macmillan Publishers.</li> <li>2. Maddala, G. S: Econometrics, McGraw Hill, New York.</li> <li>3. Mills, T: Time Series Techniques for Economists, New York: Cambridge University Press.</li> <li>4. Pesaran, M. H. &amp; Peter Schmidt: Handbook of Applied Econometrics, Vols. I &amp; II, Oxford University Press.</li> <li>5. Pindyck, R. S. and Rubinfeld, D. L: Econometric Models and Economic Forecasts, McGraw Hill.</li> <li>6. William, Green: Econometric Analysis, Prentice Hall.</li> </ol>			

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<b>Department: Department of Economics</b>		<b>Batch : 2019-21</b>	
<b>Program: M.A</b>		<b>Academic Year: 2021-22</b>	
		<b>Semester: IV</b>	
1	Course Code	19ECO410	
2	Course Title	Economic Data Analytics	
3	Credits	4	
4	Contact Hours (L-T-P)	2-0-4	
	Course Status	Elective	
5	Course Objective	It aims to familiarize students of economics and business as well as practitioners in firms with the basic principles, techniques, and applications of descriptive statistics and data analysis. Drawing on practical examples from business settings, it demonstrates the basic descriptive methods of univariate and bivariate analyses.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Understand about basics of Data Analytics</p> <p><b>CO2:</b> Apply the measures of central tendency and Measure of dispersion to analyze the data under consideration.</p> <p><b>CO3:</b> Carry out the Correlation analysis and measures the Karl Pearson's coefficient of correlation and Spearman's rank correlation.</p> <p><b>CO4:</b> Carry out regression analysis on the data sets and use it for the managerial problems like demand forecasting.</p> <p><b>CO5:</b> Carry out the hypothesis testing using various test like Chi-Square and ANOVA during their Research.</p> <p><b>CO6:</b> Analysis of data set using software like SPSS and STATA</p> <p><b>CO7:</b> Explain about relationship of data analytics with Business &amp; Economics</p> <p><b>CO8:</b> Apply the measures of skewness and kurtosis with real data set and explain about robustness of parameters</p>	
7	Course Description	The focus of the course is on using time series data and accordingly various models have been selected. A module on simultaneous equation methods has been included in the course which constitutes an important tool for analysis in multivariable and even panel data in development-related studies.	
8	Outline syllabus		CO Mapping
	<b>Unit 1</b>	<b>Data Analytics</b>	
	A	Introduction, types of analytics, characteristics of analytics	CO1
	B	Business analytics and Business Intelligence	CO1, CO7
	C	Business analytics process and its relationship with decision making process	CO1, CO7
	D	Advantage of business analytics: informed decisions, developing distinct capability, creating competitive advantage	CO1,CO7

	E	Key attributes of analytical competitors			CO1
	<b>Unit 2</b>	<b>Univariate Data Analysis</b>			
	A	Measures of Central Tendency			CO2
	B	Dispersion Parameters			CO2
	C	Skewness and Kurtosis			CO8
	D	Robustness of Parameters			CO2, CO8
	E	Measures of Concentration			CO2
	<b>Unit 3</b>	<b>Bivariate Association</b>			
	A	Association Between Two Nominal Variables			CO5
	B	Association Between Two Metric Variables			CO5
	C	Relationships Between Ordinal Variables			CO5
	D	Measuring the Association Between Two Variables with Different Scales			CO5
	E	Spurious Correlations			CO3
	<b>Unit 4</b>	<b>Regression Analysis</b>			
	A	Coefficients of Bivariate Regression			CO4
	B	Multivariate Regression Coefficients			CO4
	C	Goodness of Fit of Multivariate Regressions			CO4
	D	Nonlinear Regressions			CO4
	E	Approaches to Regression Diagnostics			CO4
	Mode of examination	Theory+ Practical			
	Weightage Distribution	CA	MTE	ETE	
		10%	40%	50%	
	Text book/s*	Thomas cleff: Exploratory Data Analysis in Business & Economics, Springer Publication			
	Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>1. Davenport H., Harris J.G. and Morison R. "Analytics at Work: Smarter Decisions, Better Results", Harvard Business Review Press.</li> <li>2. Schniederjans M.J., Schniederjans D.G. and Starkey C.M. "Business Analytics Principles, Concepts, and Applications with SAS: What, Why, and How", FT Press Analytics.</li> <li>3. Myatt G.J. &amp; Johnson W.P. "Making Sense of Data II: A Practical Guide to Data Visualization, Advanced Data Mining Methods, and Applications", Wiley Publication</li> <li>4. Maisel L. and Cokins G. "Predictive Business Analytics: Forward Looking Capabilities to Improve Business Performance" Wiley.</li> </ol>			
	Practical	Practicals to be done on the basis of Course content			

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## Group IV

<b>Department of Economics</b>		<b>Batch : 2019-21</b>	
<b>Program: MA</b>		<b>Academic Year: 2020-21</b>	
		<b>Semester: III</b>	
1	Course Code	19ECO311	
2	Course Title	Fundamental of Environmental Economics	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Elective	
5	Course Objective	The objective of the course is to provide the students with a thorough knowledge and understanding of the foundations of environment economics.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Understand the some basic concept of environmental economics and its relationship with economy, ecology and society.</p> <p><b>CO2:</b> Understand the concept of sustainable development and various approaches.</p> <p><b>CO3:</b> Discuss the some fundamental measures of environment valuation.</p> <p><b>CO4:</b> Conceptual knowledge of the economic and environmental values.</p> <p><b>CO5:</b> Interpret the role of externalities and its internalization</p> <p><b>CO6:</b> Knowledge about transition of non-renewable resources to renewable resources.</p> <p><b>CO7:</b> Carry out the techniques of pollution control.</p> <p><b>CO8:</b> Understand the relationship between globalization and climate change, trade and environment.</p>	
7	Course Description	This course basically deals with the concept of resource degradation and market efficiency and resource management.	
8	.		CO Mapping
	<b>Unit 1</b>	<b>Issues in Environmental Economics</b>	
	A	An introduction to environmental economics	CO1
	B	Material balance – production and consumption – development vs. environment	CO1
	C	Concept of Sustainable Development	CO1
	D	The Economics, Ecology, and interdependence of the subjects – resource scarcity	CO2
	E	Economy-environment interaction	CO2
	<b>Unit 2</b>	<b>Environmental Valuation Methods</b>	
	A	Types of values: Use, Option and non-use values, Classification of Valuation Methods	CO3
	B.	Stated Preference Methods, Revealed Preference Methods	CO2
	C.	Travel cost method	CO2
	D.	Hedonic Property value	CO4
	E.	Hedonic wage methods	CO4

	<b>Unit 3</b>	<b>Depletable and Renewable Resources</b>			
	A	Externalities – environmental public goods – asymmetric information – risk – uncertainty – problems of free – rider			CO5
	B	Basic concepts – Exhaustible resources, Renewable resources			CO5
	C	Moral hazard – transaction costs			CO5
	D	Bio-diversity loss			CO6
	E	Environmental Kuznet’s curve			CO6
	<b>Unit 4</b>	<b>Economics of Pollution control</b>			
	A	Trans boundary pollution policies			CO7
	B	Environmental policy-Command and Control versus market mechanisms			CO7
	C	Eco-taxes and other fiscal measures			CO8
	D	Global Warming and climate change			CO8
	E	Trade and Environment			CO8
	Mode of examination	Theory			
	Weightage Distribution	CA	MTE	ETE	
		10%	10%	80%	
	Text book/s*	Chopra, K. Kadekodi, G.K. & Murty, M. N, Participatory Development: An approach to the Management of Common Property Resources, Sage Publications, New Delhi			
	Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>1. Hussen, A.M: Principles of Environmental Economics, Routledge, London.</li> <li>2. Sankar, U: Environmental Economics, Oxford University Press, New Delhi.</li> <li>3. Baumol, W.J, and W.E. Oates, The Theory of Environmental Policy, Cambridge.</li> <li>4. Freeman, A. M., The Measurement of Environmental and Resource Values.</li> <li>5. Hanley, N., J.F. Shogren, and B. White, Environmental Economics: In Theory and Environmental Economics.</li> <li>6. Kolstad, C., Oxford University Press, Resources for the Future, 2003 Practice, Macmillan India Ltd., 1997 University Press, 1988.</li> </ol>			

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<b>Department of Economics</b>		<b>Batch : 2019-21</b>	
<b>Program: MA</b>		<b>Academic Year: 2020-21</b>	
<b>Branch</b>		<b>Semester: III</b>	
1	Course Code	19ECO312	
2	Course Title	Natural Resource in Economics	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Elective	
5	Course Objective	The objective of the course is to provide the students with a thorough knowledge and understanding of the foundations of Natural resources and its valuation.	
6	Course Outcomes	<p>At the end of the Course Students will be able to:</p> <p><b>CO1:</b> Introduce the students to concept of public goods and its mechanism.  <b>CO2:</b> Analyze the cost benefit principles of resources.  <b>CO3:</b> Discuss the links between economy and environment.  <b>CO4:</b> Discuss the origin and evolution of environment economics  <b>CO5:</b> Discuss various agreement on environment protection.  <b>CO6:</b> Discuss the possibilities and scope of agroforestry.  <b>CO7:</b> Knowledge about transition of non-renewable resources to renewable resources.  <b>CO8:</b> Conceptual knowledge of the economic and environmental values.</p>	
7	Course Description	This course basically deals with the concept of resource degradation and market efficiency and resource management.	
8			CO Mapping
	<b>Unit 1</b>	<b>Basic Concepts And Theories</b>	
	A	Public Goods And Externalities	CO1
	B	Common Property Resources	CO1
	C	Resource Degradation And Market Efficiency	CO1
	D	Coase Theorem	CO2
	E	Social Cost Benefit Analysis	CO2
	<b>Unit 2</b>	<b>Natural Resource And Development</b>	
	A	Cost Effective Analysis For Environment Protection	CO3
	B	Environmental Good's Demand	CO2
	C	Economics and the Environment	CO2
	D	Evolution and Growth of Environmental Economics	CO4
	E	Alternative Energy Sources and Environment	CO4
	<b>Unit 3</b>	<b>Global And Regional Issues</b>	
	A	Poverty, Population and Environment	CO5
	B	Global Agreements on Environment	CO5
	C	Use of Chemicals in Agriculture and Pollution	CO5
	D	Agroforestry as an Option for Diversification in Haryana	CO6

	E	Water Depletion Vs. Water Logging			CO6
	<b>Unit 4</b>	<b>Depletable And Renewable Resources</b>			
	A	Depletable Resources			CO7
	B	Efficient Inter-temporal Allocations			CO7
	C	Market Allocation And Environmental Costs			CO8
	D	Renewable Resources			CO8
	E	Transitioning to Renewable			CO8
	Mode of examination	Theory			
	Weightage Distribution	CA	MTE	ETE	
		10%	10%	80%	
	Text book/s*	Muthukrishna, S: Economics of Environment. New Delhi: Phi learning Pvt. Ltd.			
	Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>1. Kolstad, C.D: Intermediate Environmental Economics. New Delhi: Oxford University Press.</li> <li>2. Singh, Katar and Shishodia, Anil: Environmental Economics: Theory and Applications. New Delhi: Sage Publications.</li> <li>3. Berck, P: The Economics of the Environment. New Delhi: Pearson India.</li> <li>4. Kumar, Pushpam: Economics of the Environment and Development. New Delhi: Ane Book</li> </ol>			

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<b>Department of Economics</b>		<b>Batch : 2019-21</b>	
<b>Program: MA</b>		<b>Academic Year: 2020-21</b>	
		<b>Semester: IV</b>	
1	Course Code	19ECO411	
2	Course Title	Environmental Problem & Policies	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Elective	
5	Course Objective	The purpose of this class is to provide a snapshot of current topics and methods in Environmental Economics and to assist students to develop the skills necessary to be a successful empirical researcher. The material will focus on micro-empirical applications quantifying the damages of air pollution and climate change, and analyzing policies to mitigate pollution in the developed and developing world.	
6	Course Outcomes	At the end of the course students will be able to: <b>CO1:</b> Demonstrate understanding of basic concept of social sector development. <b>CO2:</b> Analyze the environmental balance principal. <b>CO3:</b> Discuss the cause and consequence of environmental degradation. <b>CO4:</b> Explain different approaches to sustainable development. <b>CO5:</b> Analyze the basic elements of environmental policy. <b>CO6:</b> Discuss the regulation regarding water supply and sanitation. <b>CO7:</b> Conceptualize link between energy use and environment pollution and degradation <b>CO8:</b> Understand the problem of climate change and globalization.	
7	Course Description	The course provide with the basic concepts and methods of analyzing Economic behavior of Individuals, Firms and market.	
8	Outline Syllabus		CO Mapping
	<b>Unit 1</b>	<b>Conceptual Issues</b>	
	A	Concept of Social Sector	CO1
	B	Economic Development and Social Sector Development	CO1
	C	Entropy Law	CO1
	D	Equity and Social Sector	CO2
	E	The Material Balance Principle	CO2
	<b>Unit 2</b>	<b>Environmental issues</b>	
	A	Causes and effects Of Environmental Degradation	CO3
	B.	Pollution from Energy	CO2
	C.	Pollution Prevention	CO2
	D.	Direct and indirect Instruments of Pollution Control	CO4
	E.	Concept and indicators of Sustainable Development	CO4
	<b>Unit 3</b>	<b>Policy issues in India</b>	
	A	Evolution of Environmental Policy in India	CO5

	B	Air and Water Acts			CO5
	C	Fiscal Incentives			CO5
	D	Enforcement and Implementation Issues			CO6
	E	Policies and Programs Relating to Water Supply and Sanitation			CO6
	<b>Unit 4</b>	<b>Environmental Problems</b>			
	A	Economic development and environmental problems			CO7
	B	Air pollution, water pollution and sound pollution			CO7
	C	Energy use and environment problem			CO8
	D	Pollution and Urbanization			CO8
	E	Global Warming and Green House Effect			CO8
	Mode of examination	Theory			
	Weightage Distribution	CA	MTE	ETE	
		10%	10%	80%	
	Text book/s*	M. Karpagam: Environmental Economics, Sterling Publishers, New Delhi.			
	Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>1. Council for Social Development India: Social Development Report.</li> <li>2. Dreze, Jean and Sen, Amartya: Indian Economic Development and Social Opportunity, Oxford University press .Delhi.</li> <li>3. Field B.C: Environmental economics: an Introduction New York: McGraw Hill</li> <li>4. Freeman III, A.M: The Economic Approach to Environmental Policy, Chelter law, U.K. Edward Elgar</li> <li>5. Krueger A and M. Lindhal: Education for Growth: why and for whom, Journal of Economic Literature, 39(4): 1101 - 1136.</li> <li>6. Latchanna G and Hussein J.O: Economics of education, Discovery publishing House, New Delhi</li> </ol>			

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<b>Department: Department of Economics</b>		<b>Batch : 2019-2021</b>	
<b>Program: M.A</b>		<b>Academic Year: 2020-21</b>	
		<b>Semester: IV</b>	
1	Course Code	19ECO412	
2	Course Title	Energy Economics	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Elective	
5	Course Objective	The economic progress of past decades has seen hundreds of millions of people enjoy major improvements in their material well-being, and these changes have been particularly noteworthy in the emerging economies. We all understand how globalization and market liberalization have underpinned these developments, but we must not lose sight of the crucial enabling role played by the energy sector. Energy is the “oxygen” of the economy and the life-blood of growth, particularly in the mass industrialization phase that emerging economic giants are facing today.	
6	Course Outcomes	<p>At the end of the course students will be able to:</p> <p><b>CO1:</b> Learn about basic concept of energy economics &amp; its importance</p> <p><b>CO2:</b> Understand the relationship between renewable and non-renewable natural resources</p> <p><b>CO3:</b> Analyze the sustainability of renewable energy resources.</p> <p><b>CO4:</b> Critically assess the concept of world energy demand and supply in present scenario</p> <p><b>CO5:</b> Analyze of trend in world oil market and geopolitics</p> <p><b>CO6:</b> Explain the concept of Energy efficiency and energy equity as well as energy conservation</p> <p><b>CO7:</b> Analyze the energy planning and policy in India</p> <p><b>CO8:</b> Learn the concept of Energy Accounting and Energy Auditing</p>	
7	Course Description	The course provide with the basic concepts and methods of measuring development so as to enhance thinking for decision making	
8	Outline syllabus		CO Mapping
	<b>Unit 1</b>	<b>Fundamental Concepts of Energy</b>	
	A	Meaning and Concepts of Energy; Significance of Energy- Definition, Nature, Scope and Importance of Energy Economics	CO1
	B	Different sources of Energy- Renewable and Non Renewable	CO1
	C	Commercial and Non Commercial Energy Sources	CO1
	D	Current Challenges in Energy Market	CO2
	E	Economic importance of Non Renewable Energy	CO2
	<b>Unit 2</b>	<b>Demand and Supply of Energy</b>	
	A	Energy supply and the economics of depletable resources	CO3
	B	Transition of Non-Renewable to Renewable sources of energy, energy intensity and elasticity	CO3
	C	Drivers of world energy demands	CO3
	D	Trends in energy supply and consumption	CO4
	E	World oil market and energy security and geopolitics	CO4

	<b>Unit 3</b>	<b>Energy - Environment Interaction</b>			
	A	Energy crisis- causes and consequences			CO5
	B	Impact of Energy Consumption on Environment- Focus on CO <sub>2</sub> Emission Cap			CO5
	C	Energy Modeling in context of Climate Change			CO5
	D	Carbon Market			CO6
	E	Carbon Trading			CO6
	<b>Unit 4</b>	<b>Energy Conservation &amp; Management</b>			
	A	Energy Efficiency			CO7
	B	Conservation as an Energy Resource			CO7
	C	Energy Auditing; Accounting			CO7
	D	Peak Load Pricing and Taxes			CO8
	E	Energy Planning and Policy in India			CO8
	Mode of examination	Theory			
	Weightage Distribution	CA	MTE	ETE	
		10%	10%	80%	
	Text book/s*	Bhattacharyya, S.C: Energy Economics: Concepts, Issues, Markets and Governance. Springer-Verlag: London, UK.			
	Other References (Latest Edition to be followed)	<ol style="list-style-type: none"> <li>Bohi, D.P: Analyzing Demand Behavior- A study of Energy Elasticity, John Hopkins University Press.</li> <li>Dahl, C.A: International Energy Markets: Understanding Pricing, Policies, and profits. Penn Well Corporation: Tulsa, Oklahoma.</li> <li>Kneese, A.V and Sweeny, J.L., Handbook of Natural Resources and Energy.</li> <li>Thomas, Tietenbur. Environmental and Natural Resources Economics, Seventh Edition, Boston.</li> <li>U.Shankar, Public Sector Pricing: Theory and Applications, Indian Economic Association, Trust for Research and Development.</li> <li>Vijay, Vaitheeswaran: A bright future of Survey of Energy, the economists.</li> </ol>			

### Question Paper Structure

- The question paper shall consist of 9 questions. Out of which, first question shall be of short answer type and will be compulsory. Question no. 1 shall contain 10 parts representing all units of the syllabus and students shall have to answer any 8 parts.
- There shall be 2 questions from each unit having internal choice. The students are required to attempt any one question from each unit. The weightage for each question shall be 16 marks.



