

**Learning Outcomes based Curriculum Framework
(LOCF)**

For

**M. A. (Economics)
Post Graduate Programme**

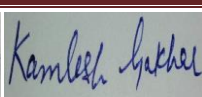
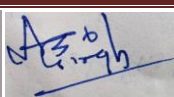
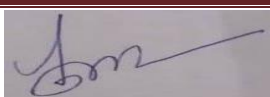
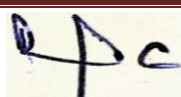


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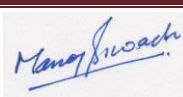
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1. About the Department

Established in 2004, the department of Economics runs M.A. 2year programme, M.A. Honours 5 year integrated programme and the PhD programme. Introduction of embedded course, skill enhancement courses, hands on practice courses in the M.A. 2year programme has greatly increased its employability. The department has a computer cum econometrics lab besides smart class rooms. Availability of vast range of journals and rich collection of books elevates it to a centre of higher learning.

2. Learning Outcome based Curriculum Framework

The Choice Based Credit System (CBCS) has evolved into learning outcome based curriculum framework and provides an opportunity for the students to choose courses from the prescribed courses comprising core, elective/minor or skill-based courses. The courses can be evaluated following the grading system, which is considered to be better than the conventional marks system. Grading system provides uniformity in the evaluation and computation of the Cumulative Grade Point Average (CGPA) based on student's performance in examinations which enables the student to move across institutions of higher learning. The uniformity in evaluation system also enables the potential employers in assessing the performance of the candidates.

2.1 Objectives of the Programme

The program intends to impart advance knowledge with respect to economic theory, practice, planning and implementation. Besides developing critical thinking, strengthening the spirit of scientific enquiry, the program aims at providing interdisciplinary knowledge and skill enhancement courses to increase the employability of students. Additional courses on ethics and leadership skills have been introduced to build skills, so that the students learn to work as part of a team and lead others, setting directions and formulating inspiring vision.

2.2 Programme Outcomes (POs)

PO1	<i>Knowledge:</i> Demonstrate knowledge of historical emergence, questions asked, and distinctive contributions of the social science disciplines to the analysis of human behaviour and social issues.
PO2	<i>Problem Solving:</i> Visualize, conceptualize, articulate, and solve complex problems through experimentation and observation using theoretical framework of social

	science disciplines.
PO3	<i>Critical Thinking:</i> Critically analyse everyday problems faced by the society, evaluate specific policy proposals, compare arguments with different conclusions to a specific societal issue, and assess the role played by assumptions in such arguments.
PO4	<i>Scientific Enquiry:</i> Develop the capability of defining problems and strengthening arguments through analysis and synthesis.
PO5	<i>Specialization and Employability:</i> Develop deeper understanding, creativity, and originality in chosen specialized areas of social science disciplines leading to employability.
PO6	<i>Interdisciplinary Knowledge & Adaptation:</i> Enhance the ability to integrate as well as synthesize the acquired knowledge within the social sciences and beyond.
PO7	<i>Self-Directed Learning:</i> Develop the ability to work independently as well as effectively in the changing environment.
PO8	<i>Ethics and Leadership:</i> Articulate and apply ethics, values and ideals that demonstrate awareness of current societal challenges. Build skills to work as part of a team and lead others, setting directions and formulating inspiring vision.

2.3 Programme Specific Outcomes (PSOs)

After completing the M.A. Economics program, the students will be able to:

PSO1	Develop the powers of inquiry, critical analysis, logical thinking, and ability to apply theoretical knowledge to current issues of policy and practice in economics.
PSO2	Learn and apply alternative tools to address various economic policy issues related to various branches of Economics.
PSO3	Develop and demonstrate fundamental in-depth knowledge and understanding of the theories, postulates, methods, principles, concepts, values, substantive rules of core as well as applied areas of Economics.
PSO4	Identify, coherently explain and synthesize core and advanced economic concepts including economic models.

3. Programme Structure

M.A. Economics programme is a four-semester postgraduate programme consisting 100 credits weightage of Core Courses (CC), Discipline Specific Elective Courses (DSC), Skill Enhancement Courses (SEC) and Open Elective Courses (OEC).

Table 1
Semester Wise Courses and Credit Scheme

Semester	Core Courses (CC)		Discipline Specific Elective Courses (DSC)		Skill Enhancement Courses (SEC)		Open Elective Courses (OEC)*		Total Credits
	No. of Courses	Credits	No. of Courses	Credits	No. of Courses	Credits	Credits		
1 st	4	16	2	8	1	-	*A total of 8 credits are to be earned from other departments or from MOOCs. Students have to opt open elective course in consultation with chairperson (Students may enrol in any of the 4 semesters)		24
2 nd	3	12	2	8	1	4			24
3 rd	4	16	1	4	1	2 P			22
4 th	4	14	1	4	1	4P			22
Total Credits	CC	58	DSC	24	SEC	10	OEC	8	92+8* 100
Percentage	CC	58 %	DSC	24 %	SEC	10 %	OEC	8 %	100 %

*A total of 8 credits are to be earned from other departments or from MOOCs. Students have to opt open elective course in consultation with chairperson (Students may enrol in any of the 4 semesters)

Table 2
Detailed break-up of Credit Courses

Semester	Core Courses (CC)	Discipline Specific Elective Courses (DSC)	Skill Enhancement Courses (SEC)	Open Elective Courses (OEC)	Total Courses (CC+DSC+ SEC)
1 st	CC1	DSC1	SEC1	OECs offered by other departments or MOOCs worth 08 credits (Students may be enrolled in any of the 4 semesters) Students have to opt open elective course in consultation with chairperson	7
	CC2				
	CC3	DSC2			
	CC4				
2 nd	CC5	DSC3	SEC2		6
	CC6	DSC4			
	CC7				
3 rd	CC8	DSC5	SEC3		6
	CC9				
	CC10				
	CC11				
4 th	CC12	DSC6	SEC4	6	
	CC13				
	CC14				
	CC15				

Table 3
Course Code and Title along with Credit Details

SEMESTER-1st				
Course Code	Course Title	Credits		
		T	P	Total
MA/ECO/1/CC1	Microeconomics – I	4	0	4
MA/ECO/1/CC2	Macroeconomics – I	4	0	4
MA/ECO/1/CC3	Economics of Growth and Development- I	4	0	4
MA/ECO/2/CC4	Statistical Methods in Economics	2	2	4
MA/ECO/1/DSC1-6	Students may choose any one from the options given in table 5	4/2	0/2	4
MA/ECO/1/DSC7-12	Students may choose any one from the options given in table 5	4	0	4
MA/ECO/1/SEC1	Universal Humanistic values and Life Skills*	Non credit		0
SEMESTER -2nd				
MA/ECO/2/CC5	Microeconomics – II	4	0	4
MA/ECO/2/CC6	Macroeconomics – II	4	0	4
MA/ECO/2/CC7	Economics of Growth and Development-II	4	0	4
MA/ECO/2/DSC13-18	Students may choose any one from the options given in table 5	4/2	0/2	4
MA/ECO/2/DSC19-24	Students may choose any one from the options given in table 5	2/4	2/0	4
MA/ECO/2/SEC2	Business Correspondent and Business Facilitator-I	4	0	4
SEMESTER -3rd				
MA/ECO/3/CC8	International Trade-I	4	0	4
MA/ECO/3/CC9	Political Economy of Development-I	4	0	4
MA/ECO/3/CC10	Agricultural Economics-I	4	0	4
MA/ECO/3/CC11	Public Economics	4	0	4
MA/ECO/3/DSC25-30	Students may choose any one from the options given in table 5	4/2	0/2	4
MA/ECO/3/SEC3	Business Correspondent and Business Facilitator-II	0	2	2
SEMESTER -4th				
MA/ECO/4/CC12	International Trade-II	4	0	4
MA/ECO/4/CC13	Political Economy of Development-II	4	0	4
MA/ECO/4/CC14	Agricultural Economics-II	4	0	4
MA/ECO/4/CC15	Cardinal Principles of Academic Integrity and Publication Ethics	2	0	2
MA/ECO/4/DSC31-36	Students may choose any one from the options given in table 5	4/2	0/2	4
MA/ECO/4/SEC4	Computer Applications in Economics	0	4	4
Total		74-	18-	92[#]

	82	10	
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*There will be five (including one hour of tutorial) teaching hours per week for this paper.

Evaluation will be internal. Awards will be submitted in the form of satisfactory (for 60 % or more marks)/ unsatisfactory (for less than 60 % marks) grades.

#Remaining 8 credits are to be earned through open elective courses

Table 4
Core Courses offered by the Department

Course Code	Course Title	Credits		
		T	P	Total
MA/ECO/1/CC1	Microeconomics – I	4	0	4
MA/ECO/1/CC2	Macroeconomics – I	4	0	4
MA/ECO/1/CC3	Economics of Growth and Development- I	4	0	4
MA/ECO/2/CC4	Statistical Methods in Economics	2	2	4
MA/ECO/2/CC5	Microeconomics – II	4	0	4
MA/ECO/2/CC6	Macroeconomics – II	4	0	4
MA/ECO/2/CC7	Economics of Growth and Development-II	4	0	4
MA/ECO/3/CC8	International Trade-I	4	0	4
MA/ECO/3/CC9	Political Economy of Development-I	4	0	4
MA/ECO/3/CC10	Agricultural Economics-I	4	0	4
MA/ECO/3/CC11	Public Economics	4	0	4
MA/ECO/4/CC12	International Trade-II	4	0	4
MA/ECO/4/CC13	Political Economy of Development-II	4	0	4
MA/ECO/4/CC14	Agricultural Economics-II	4	0	4
MA/ECO/4/CC15	Cardinal Principles of Academic Integrity and Publication Ethics	2	0	2
Total		56	2	58

Table 5
Details of Department Specific Elective Courses

SEMESTER – 1st					
Course Code		Course Title	Credits		
			T	P	Total
DSC1	MA/ECO/1/DSC1	Economics of Environment and Demography	4	0	4
	MA/ECO/1/DSC2	History of Economic Thought - I			
	MA/ECO/1/DSC3	Financial Economics – I			
	MA/ECO/1/DSC4	Mathematical Economics – I			
	MA/ECO/1/DSC5	MOOC from SWAYAM Portal			
	MA/ECO/1/DSC6	Micro Finance: Theory and Practice - I	2	2	
DSC2	MA/ECO/1/DSC7	Quantities Techniques in Economics	4	0	4
	MA/ECO/1/DSC8	Labour Economics-I			
	MA/ECO/1/DSC9	Economics of Infrastructure – I			
	MA/ECO/1/DSC10	Economy of Haryana-I			
	MA/ECO/1/DSC11	Economics of Gender and Development-I			
	MA/ECO/1/DSC12	MOOC from SWAYAM Portal			
Total			6-8	2-0	8
SEMESTER – 2nd					
DSC3	MA/ECO/2/DSC13	Indian Economy	4	0	4
	MA/ECO/2/DSC14	History of Economic Thought-II			
	MA/ECO/2/DSC15	Financial Economics-II			
	MA/ECO/2/DSC16	Mathematical Economics-II			
	MA/ECO/2/DSC17	MOOC from SWAYAM Portal			
	MA/ECO/2/DSC18	Micro Finance: Theory and Practice - II	2	2	
DSC4	MA/ECO/2/DSC19	Research Methodology	2	2	4
	MA/ECO/2/DSC20	Labour Economics-II	4	0	
	MA/ECO/2/DSC21	Economics of Infrastructure-II			
	MA/ECO/2/DSC22	Economy of Haryana-II			
	MA/ECO/2/DSC23	Economics of Gender and Development-II			
	MA/ECO/2/DSC24	MOOC from SWAYAM Portal			
Total			4-8	4-0	8
SEMESTER – 3rd					
DSC5	MA/ECO/3/DSC25	Econometrics I	4	0	4
	MA/ECO/3/DSC26	Welfare Economics-I			
	MA/ECO/3/DSC27	Industrial Economics-I			
	MA/ECO/3/DSC28	Behavioural Economics-I			
	MA/ECO/3/DSC29	MOOC from SWAYAM Portal			
	MA/ECO/3/DSC30	Economics of Insurance-I	2	2	
Total			2-4	2-0	4
SEMESTER – 4th					
DSC6	MA/ECO/4/DSC31	Econometrics II	4	0	4
	MA/ECO/4/DSC32	Welfare Economics-II			

	MA/ECO/4/DSC33	Industrial Economics-II			
	MA/ECO/4/DSC34	Behavioural Economics-II			
	MA/ECO/4/DSC35	MOOC from SWAYAM Portal			
	MA/ECO/4/DSC36	Economics of Insurance-II	2	2	
Total			2-4	2-0	4
Grand Total			14-24	10-0	24

Table 6
List of Skill Enhancement Courses Offered by Department

SEMESTER-1st				
Course Code	Course Title	Credits		
		T	P	Total
MA/ECO/1/SEC1	Universal Humanistic values and Life Skills*	Non credit		0
SEMESTER -2nd				
MA/ECO/2/SEC2	Business Correspondent and Business Facilitator-I	4	0	4
SEMESTER -3rd				
MA/ECO/3/SEC3	Business Correspondent and Business Facilitator-II	0	2	2
SEMESTER -4th				
MA/ECO/4/SEC4	Computer Applications in Economics	0	4	4
Total		4	6	10

Table 7
List of Open Elective Courses Offered by Department

Course Code	Course Title	Credits		
		T	P	Total
MA/ECO/9/OEC1	Economic Theory	4	0	4
MA/ECO/9/OEC2	Issues of Economic Development	4	0	4
MA/ECO/9/OEC3	Indian Economy: Issues, Outlook and Prospects	4	0	4
MA/ECO/9/OEC4	Money, Banking and Public Finance	4	0	4
MA/ECO/9/OEC5	Goods & Services Tax (GST) Accounts Assistant	2	2	4
MA/ECO/9/OEC6	MOOC from SWAYAM Portal	4	0	4

Notes for tables 3, 4, 5, 6 and 7:

1. T stands for lectures (theory) and P stands for practical
2. For one credit of practical, two hours of laboratory work would be conducted.
3. For a course of 4 credits, there will be one hour of tutorial class. A course with practical will not have any tutorial class. Teaching hours of tutorials will be counted towards the workload of teachers. A practical group cannot exceed 20 students i.e. the practical will be carried out in two groups, in case the number of students in the course is more than 20.

4. MOOC coordinator will display the list of MOOC for each Discipline Specific Elective Course before the commencement of each semester.

4. Attainment Level:

The CO-PO-PSO Mapping Matrix for all the Courses of M. A. 2 Year Programme has been given in table 8 given below.

Table 8
CO-PO-PSO Mapping Matrix for all the Courses of M. A. 2 Year Programme

Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
Semester-1												
MA/Eco/1/CC1	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3
MA/Eco/1/CC2	2.75	2.75	2.75	2.75	2.5	1	2.5	-	2.75	2	2.75	2
MA/Eco/1/CC3	2.67	2.25	2.65	2.35	2.55	1.25	2.5	.67	2.52	2.27	2.45	2.47
MA/Eco/1/CC4	2.69	2.75	2.94	2.81	2.81	2.13	2.50	0.00	2.63	2.00	2.81	2.31
MA/Eco/1/DSC1	2.75	2.75	2.75	2.75	2.5	2.75	2.5	1.5	2.75	2.25	2.75	2.5
MA/Eco/1/DSC2	2	2.75	2.5	2.5	2.5	2	2.5	-	2.5	2	2.25	2
MA/Eco/1/DSC3	2.5	2.28	1.97	2.37	2.3	1.1	2.25	0.43	2.72	1.9	2.58	2.2
MA/Eco/1/DSC4	3.0	3.0	3.0	2.75	2.5	2.75	2.5	-	3	2.75	3.0	2.75
MA/Eco/1/DSC5	MOOC from SWAYAM Portal											
MA/Eco/1/DSC6	3	2.5	2.5	2.25	2.5	2.5	2.25	2	3	2.5	2.75	2
MA/Eco/1/DSC7	2.52	2.25	2.42	2	2.52	1	2.6	.75	2.52	2.57	2.47	2.5
MA/Eco/1/DSC8	2.75	2.75	2.75	2.75	2.5	1	2.5	-	2.75	2	2.75	2
MA/Eco/1/DSC9	2.76	2.32	2.32	2.35	2.67	1.67	2.57	0.9	2.6	2.32	2.57	2.45
MA/Eco/1/DSC10	3	2.75	2.75	2.75	2.5	1	2.5	-	2.75	2.12	2.75	2
MA/Eco/1/DSC11	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3
MA/Eco/1/DSC12	MOOC from SWAYAM Portal											
MA/Eco/1/SEC1	2.5	2.75	2.5	2.00	2.00	2.00	2.75	2.90	1.00	1.00	1.00	1.00
Semester-2												
MA/Eco/2/CC5	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.75	3	3
MA/Eco/2/CC6	2.75	2.75	2.75	2.75	2.5	1	2.5	-	2.75	2	2.75	2
MA/Eco/2/CC7	2.52	2.37	2.45	2.2	2.32	1	2.75	0.72	2.62	2.27	2.35	2.52
MA/Eco/2/DSC13	2.55	2.4	2.27	2.37	2.6	1.72	2.5	0.42	2.65	2.55	2.62	2.42
MA/Eco/2/DSC14	2.25	2.75	2	2.5	2.5	2	2.5	-	2	2.5	2	2
MA/Eco/2/DSC15	2.66	1.97	2.18	2.2	2.2	1.47	2.55	0.55	2.55	2.3	2.72	2.1
MA/Eco/2/DSC16	3.0	3.0	3.0	2.75	2.5	2.75	2.5	-	3	2.75	3.0	2.75
MA/Eco/2/DSC17	MOOC from SWAYAM Portal											
MA/Eco/2/DSC18	3	2.75	2.5	2	2.25	2.5	2.5	1.75	3	2.5	2.25	2.25
MA/Eco/2/DSC19	2.75	2.94	3.00	2.81	2.81	2.75	2.75	2.31	2.75	2.63	2.81	2.56
MA/Eco/2/DSC20	2.75	2.75	2.5	2.75	2.5	1	2.5	-	2.75	2.25	2.75	2

MA/Eco/2/DSC21	2.75	2.45	2.5	2.52	2.32	1	2.62	0.55	2.63	2.4	2.6	2.25
MA/Eco/2/DSC22	2.75	2.75	2.75	2.75	2.5	1	2.5	-	2.75	2.12	2.75	2
MA/Eco/2/DSC23	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3
MA/Eco/2/DSC24	MOOC from SWAYAM Portal											
MA/Eco/2/SEC2	2.00	2.00	1.00	1.00	2.75	2.00	2.00	0.50	1.50	1.50	1.50	1.50
Semester-3												
MA/Eco/3/CC8	3	2	3	3	2.75	2.75	2.5	-	3	3	3	2
MA/Eco/3/CC9	3.0	2.75	3.0	2.75	2.0	2.5	2.5	2.75	3	2.0	2.75	2.5
MA/Eco/3/CC10	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3
MA/Eco/3/CC11	2.75	2.75	2.75	2.75	2.5	2.5	2.5	1	2.75	2.5	2.75	2.5
MA/Eco/3/DSC-25	3	2.75	3	2.5	2.5	2	2.5	-	3	2.5	2.25	2
MA/Eco/3/DSC-26	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3
MA/Eco/3/DSC-27	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3
MA/Eco/3/DSC-28	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3
MA/Eco/3/DSC-29	MOOC from SWAYAM Portal											
MA/Eco/3/DSC-30	3	2.62	2.62	2.37	2.5	1	2.5	-	2.62	2.5	2.75	2.37
MA/Eco/3/SEC3	2.00	2.00	1.00	1.00	2.75	2.00	2.00	0.50	1.50	1.50	1.50	1.50
Semester-4												
MA/Eco/4/CC12	3	2.25	2.5	2.75	2.75	2.75	2.5	-	3	3	2.5	2
MA/Eco/4/CC13	3.0	2.75	3.0	2.75	3.0	2.75	2.5	2.75	3.0	2.75	2.75	2.75
MA/Eco/4/CC14	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3
MA/Eco/4/CC15	2.5	2.0	2.0	1.5	1.5	2.0	2.0	2.75	1.5	1.5	1.5	4.5
MA/Eco/4/DSC31	3	2.75	3	2.5	2.5	2	2.5	-	3	2.5	2.25	2
MA/Eco/4/DSC32	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3
MA/Eco/4/DSC33	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3
MA/Eco/4/DSC34	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3
MA/Eco/4/DSC35	MOOC from SWAYAM Portal											
MA/Eco/4/DSC36	3	2.62	2.62	2.37	2.5	1	2.5	-	2.62	2.5	2.75	2.37
MA/Eco/4/SEC4	3	2.5	2.5	2	2.5	2.75	2.5	1.5	2.5	2.5	2.25	2.5
Open Elective Courses												
MA/Eco/9/OEC1	3.0	2.75	2.75	2.75	2.5	2.25	2.5	1.25	3	2.75	2.75	2.5
MA/Eco/9/OEC2	2.57	2.27	2.25	2.42	2.75	1.72	2.42	0.04	2.52	2.52	2.45	2.55
MA/Eco/9/OEC3	3	2	3	2.5	2.5	2	2.5	-	3	2.5	2	2
MA/Eco/9/OEC4	3	2.62	2.62	2.37	2.5	1	2.5	-	2.62	2.5	2.75	2.37
MA/Eco/9/OEC5	2.0	2.0	1.5	1.5	2.5	2.0	1.5	1.25	1.5	1.5	1.25	1.25
MA/Eco/9/OEC6	MOOC from SWAYAM Portal											

4.1 Attainment of COs

The CO attainment level for a course of the program can be obtained on the basis of criteria given below in table 9.

Table 9
CO Attainment Levels for a Semester Examination of a Course

Attainment Level	Criterion
1 (Low level of attainment)	50% of students obtained letter grade of A or above (for CBCS programs) or score more than 60% of marks (for non-CBCS programs) of a course.
2 (Medium level of attainment)	60% of students obtained letter grade of A or above (for CBCS programs) or score more than 60% of marks (for non-CBCS programs) of a course.
3 (High level of attainment)	70% of students obtained letter grade of A or above (for CBCS programs) or score more than 60% of marks (for non-CBCS programs) of a course.

The CO attainment level for all the courses of the program can be obtained in a similar manner.

4.2 Calculation of Attainment Value of POs and PSOs for a Course

PO attainment value (for example for PO1) for a course can be obtained as follows:

$$AV_{\text{for PO1}} = \frac{(\text{MFCPO1}) \times \text{CO attainment value for the course}}{3}$$

Where

AV = Attainment value

MFCPO1 = Mapping factor for a course with PO1 as obtained from table 1

Likewise, PSO attainment value (for example for PSO1) for a course can be obtained as follows:

$$AV_{\text{for PSO1}} = \frac{(\text{MFCPSO1}) \times \text{CO attainment value for the course}}{3}$$

Where

AV = Attainment value

MFCPSO1 = Mapping factor for a course with PSO1 as obtained from table 2

After finding the attainment values of each PO and PSO for various courses, we may write them in table form as given below:

Table 10
PO and PSO Attainment Values for all the courses

Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
MA/Eco/1/CC1												
MA/Eco/1/CC2												
.....												
for all the courses												
.....till												
MA/Eco/2&4/OEC3												
Average of above values												

The attainment of POs and PSOs is the average of individual PO and PSO attainment values. The PO and PSO attainment values obtained above are compared with set target. The set target for each PO and PSO has been given in the following table:

Table 11
PO and PSO Attainment Values and Set Target values

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
PO attainment values												
Target Values	2	1.5	2	2	1.5	2	1.5	1.5	2	2	2	2

If PO and PSO attainment value is less than the set target value then an action plan will be prepared for improvement in the subsequent academic session.

Course Wise Content Details

M.A. Economics
1st Semester

RPC

Dr

Asst. Prof.

Kamlesh Kumar

Mang Prasad

Course Title: Micro Economics-I Course Code: MA/ECO/1/CC1		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal : 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Know the scope and breadth of Micro Economics along with understanding the core principles of demand and supply so that they are able to apply the understanding of these concepts to comprehend real world problems along with the ability to think critically and analyze economic problems.	
CO2	It will make students aware about how various economic agents behave optimally given the scarce economic resource and other constraints.	
CO3	Understanding the core principles of production and costs so that they are able to apply the understanding of these concepts to comprehend real world problems along with the ability to think critically and analyze economic problems	
CO4	Analyze given situations in a variety of markets on a microeconomic level. Understand the internal structure and assumptions of the different analytical frameworks of market conditions, their explanatory power and limitations. Simultaneously Understanding the implications and ethical as well as value part of it.	
Unit-I Nature and scope of Economics and Microeconomics, Positive and normative analysis, Role of assumptions in economic analysis, Circular flow of economic activity, Concepts of household, firm, factors of production, equilibrium: partial and general, static, comparative static and dynamic analysis, Elasticity: need and measures, Relationship between revenue and elasticity.		
Unit-II Analysis of consumer behaviour, demand function, Law of demand – cardinal, ordinal and revealed preference approaches, income-consumption curve, Engel curve, substitute and complimentary goods, Market demand curve; consequences of Bandwagon, Snob and Veblen effect. Concept of consumer surplus.		
Unit-III		

Laws of Production: short run and long run, Internal and External economies and diseconomies, Concept of cost, derivation of short and long run cost curves, Optimum input combination: Simple case of a multiproduct firm, Technical progress and production function: Hick's classification, Elasticity of substitution, Properties of Cobb-Douglas and CES production function.

Unit-IV

Pricing process and equilibrium of firm and industry under perfect competition, monopoly (including discriminating and bilateral monopoly), monopolistic competition, Welfare effects of price control, price support and production quota.

Reading List

Archibald, G. C. (Ed.) (1971) *Theory of the Firm*. Penguin, Harmondsworth.

Baumol, W. J. (1982) *Economic Theory and Operations Analysis*. Prentice Hall of India, New Delhi.

Da Costa, G. C. (1980) *Production, Prices and Distribution*. Tata McGraw Hill, New Delhi.

Koutsoyiannis, A. (1979) *Modern Microeconomics (2nd Edition)*, Macmillan Press, London.

Salvatore, D. (2009) *Microeconomics-Theory and Applications*. Oxford University Press.

Varian, H. (2003) *Intermediate Microeconomics*, East-West Press.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/CC1

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	3	2	3	3
CO2	2.5	3	3	2	3	1	2.5	-	3	2	3	3
CO3	3	2	2	3	2	1	2.5	-	3	2	3	3
CO4	3	3	3	3	3	1	2.5	-	3	3	2	3
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3

Course Title: Macro Economics-I Course Code: MA/ECO/1/CC2	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal : 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	The student shall understand the classical and Keynesian theory of output and employment.
CO2	Explaining the behaviour of macroeconomic variables by identifying and understanding the extended model.
CO3	Understanding the IS-LM framework and its various aspects.
CO4	To understand the theories of consumption and investment along with their relevance.

Unit-I

Determination of Output and Employment

Classical Approach: Output and Employment in Classical Theory; The Quantity Theory of Money and the Price Level; Classical Model without Saving and Investment; Classical Model with Saving and Investment.

Keynesian Approach: Two Sector Model, Three Sector Model and Four Sector Model.

Unit-II

Determination of Output and Employment

The Extended Model (Hicks-Henson Synthesis) with Fixed Price Level: The goods Market and The Money Market; Equilibrium in Goods Market and Money Market; Changes in Aggregate Demand with Govt. Spending and Taxation; Effectiveness of Fiscal-Monetary Policies and IS-LM curve.

Unit-III

Determination of Output and Employment

The Extended Model under Variable Price Level: Aggregate Supply Curve; Derivation of Aggregate Demand Curve and Determination of Equilibrium Price and Output Levels; Wage-Price Flexibility and the Full Employment Equilibrium; Monetary - Fiscal Policies and the Full Employment Equilibrium.

Unit-IV

Behavioural Foundation

Theories of consumption: The Absolute Income Hypothesis; The Relative Income Hypothesis; The Permanent Income Hypothesis; The Life Cycle Theory of Consumption.

Theories of Investment: The Present Value Criterion for Investment; The Marginal Efficiency of Capital Approach; The Simple Accelerator Theory, The Capital Adjustment Principle (Chenery Model); Financial Theory of Investment.

Reading List

Langdana, F.K. (2013) *Macroeconomic Policy: Demystifying Monetary and Fiscal Policy*. Springer.

Romer, David (2012) *Advanced Macroeconomics*. McGraw Hill Education.

Shapiro, E. (2006) *Macroeconomic Analysis*. Galgotia Publication, New Delhi.

Levacic, Rosalind &Rebmann, Alexander (2015). *Macroeconomics*. Macmillan, London.

Mankiw, Gregory N. (2014) *Principles of Macroeconomics*. Cengage Learning.

Mishkin, F.S. (2016) *The Economics of Money Banking and Financial Markets*. Pearson.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/CC2

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	2	2	3	2
CO2	2.5	3	3	2	3	1	2.5	-	3	2	2.5	2
CO3	3	2	2	3	2	1	2.5	-	3	2	2.5	2
CO4	3	3	3	3	3	1	2.5	-	3	2	3	2
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	2.75	2	2.75	2

Course Title: Economics of Growth and Development-I Course Code: MA/ECO/1/CC3	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal : 30
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Note For the paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO 1	To understand, analyze and interpret the nature of growth & development with a view to measure and mark its trajectory.
CO 2	To analyse and understand the classical growth models, role of innovations and stages of growth with their historical origins and role.
CO 3	To analyse and understand the balanced and unbalanced growth in economy
CO 4	To analyse and understand the neo-classical and Cambridge growth models with mathematical treatment.

Unit I

Economic development-meaning, development and under development.
Perpetuation of underdevelopment – vicious of poverty, circular causation, structural view of underdevelopment.
Measurement of Development – conventional, Human Development Index and quality of life indices, concept of sustainable development.

Unit-II

Theories of development: classical, Karl Marx, Schumpeter and structural analysis of development, Lewis model of development.
Ranis- Fei model, Dependency theory of development.
Rostow’s theory of stages of economic growth.

Unit-III

Strategies of economics growth: balanced growth, critical minimum efforts, big push, unbalanced growth, low income equilibrium trap.

Unit-IV

Theories of economic growth: Models of growth of John Robinson and Kaldor, Harrod-Domar model, Instability of equilibrium, Neo-classical growth Model, Solow’s steady state growth.

Reading List

Barro, R. J. & Sala-i-Martin, X. (2004). *Economic Growth*. MIT Press.
Behrman, S. & Srinivasan, T.N (Eds.). (1995). *Handbook of Development Economics, Vol. 3*.

Elsevier, Amsterdam.

Chenery, H. & Srinivasan, T.N. (Eds.) (1989). *Handbook of Development Economics, Vol. 1 & 2*. Elsevier, Amsterdam.

Schultz, Paul T. & Strauss, J. (Eds.). (2008). *Handbook of Development Economics, Vol. 3*. Elsevier, Amsterdam.

Sen, A.K. (Ed.). (1990). *Growth Economics*. Penguin, Harmondsworth.

Chakravarti, S. (1982). *Alternative Approaches to the Theory of Economic Growth*. Oxford University Press, New Delhi.

Ghatak, S. (1986). *An Introduction to Development Economics*. Allen and Unwin, London.

Gillis, M., Perkins, D.H., Romer, M. & Snodgrass, D.R. (1992). *Economics of Development*. W.W. Norton, New York.

Jones, H.G. (1975). *An Introduction to Modern Theories of Economic Growth*. Nelson, London.

Meier, G.M. & Rauch, J.E. (2005). *Leading Issues in Economic Development*. Oxford University Press, New Delhi.

Adelman, I. (1961). *Theories of Economic Growth and Development*, Stanford University Press, Stanford.

Higgins, B. (1959). *Economic Development*. W.W. Norton, New York.

Kindleberger, C.P. (1977). *Economic Development*. McGraw Hill, New York.

Meier, G.M. & Rauch, J.E. (2005). *Leading Issues in Economic Development*. Oxford University Press, New Delhi.

Thirlwal, A.P. (1999). *Growth and Development*. Macmillan, U.K.

Todaro, M.P. & Smith, S.C. (2003). *Economic Development*. Pearson Education, Delhi.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/CC3

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.9	1.6	2.5	2.8	2.7	1	2.9	.5	2.9	2	2.9	2.5
CO2	2.7	1.7	2.8	2	2.8	1.7	2.7	.9	2.6	2.6	2.6	2.6
CO3	2.6	2.9	2.7	2.6	2.2	1	2.3	.7	2.4	2	2.2	2.2
CO4	2.5	2.8	2.6	2	2.5	1.3	2.1	.6	2.2	2.5	2.1	2.6
Average	2.67	2.25	2.65	2.35	2.55	1.25	2.5	.67	2.52	2.27	2.45	2.47

Course Title: Statistical Methods in Economics Course Code: MA/ECO/1/CC4	Theory Credits: 2 Time: 2 Hrs. Marks: 50 External: 30 Internal: 20	Practical Credits:2 Time: 3 Hrs. Marks: 50 End Term: 30 Practical Record: 10 Viva Voce: 10
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Note for the paper Setter

The question paper will consist of five questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each of the two units. The candidates are required to attempt two more questions at least one question from each unit.

Course Outcomes

CO1	Students will be able to learn about correlation and Regression analysis.
CO2	Understanding about sampling methods, Hypothesis testing and various statistical tests.
CO3	Students will be skillful about presentation of graphs, charts, various methods related to descriptive statistics on excel.
CO4	Students will enhance their skills about correlation, Regression analysis and estimation of simple, compound and exponential growth by using excel.

Unit-I (Theory)

Sampling and it's Methods, standard error, hypothesis testing, test of significance, Type I and Type II errors level of significance, Power of a test, z, t, chi-square and F tests.

Unit-II (Theory)

Correlation and regression: simple correlation, Pearson, spearman's correlation coefficients, multiple and partial correlation analysis specification of a simple linear regression model, least square estimation of linear regression coefficients, interpretation of correlation and regression coefficients and their properties.

Unit-III(Practical)

Introduction to excel sheet, Presentation of the graphs and charts on excel. Statistical techniques and methods on excel: Addition, Subtraction, Multiplication and Division, Descriptive Statistics (Mean, Median, Mode, Standard Deviation and Co variance).

Unit-IV (Practical)

Statistical Techniques on Excel: Correlation and Regression analysis by using Excel.

Estimation of Simple Growth, Compound Growth and Exponential Growth on Excel.

Suggested Readings

- Gupta S. C. “Fundamentals of Statistics” S. Chand & Sons, New Delhi (1993)
 Spiegel, Murry R “Theory and problems of Statistics” (Schaum’s outline series, McGraw Hill) (1992)
 Karmal P. H. and Polasek M. “Applied Statistics for Economists (4th edition), Pitman, Australia.
 Paul McFedrics (2019). “Microsoft Excel 2019 Formulas and Functions”, Pearson Education, Inc.
 Ken Bluttman, “Excel Formulas and Functions for Dummies (3rd edition)” Wiley Publications.
 Wayne L. Winston, “Microsoft Excel 2019 Data Analysis and Business Modling (6th edition)”, Pearson Education, Inc.
 Greg Harvey, PhD, “Microsoft Excel 2019 for Dummies” Wiley Publications.

Note: Students are required to prepare a practical file. For this, topics will be assigned by the teacher covering the whole syllabus. Students are required to appear in the viva-voce examination based on the syllabus for which an external examiner will be appointed.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/CC4

Course Outcomes	PO 1	PO 2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	3	2	2.5	0	2.5	2	2.75	2
CO2	2.5	3	3	2.75	2.75	2	2.5	0	2.75	2	2.75	2.5
CO3	2.75	2.5	2.75	2.5	2.5	2	2.5	0	2.5	2	2.75	2.75
CO4	3	3	3	3	3	2.5	2.5	0	2.75	2	3	2
Average	2.69	2.75	2.94	2.81	2.81	2.13	2.50	0.00	2.63	2.00	2.81	2.31

Course Title: Economics of Environment and Demography Course Code: MA/ECO/1/DSC1		Total Credits: 4 Time: 3 Hrs. Marks: 100 External : 70 Internal : 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand the linkages between economy and environment, economic instruments of environment protection, problem of common property resources, environmental Regulations and international environmental issues.	
CO2	To learn & equip with the use of environmental valuation techniques and policy mix instruments.	
CO3	Describe and compare the population and environment linkages, demographic process of fertility, mortality and migration.	
CO4	Use demographic concepts and population theories to explain past and present population characteristics.	
Unit-I Economy and Environment, Economic Instrument for Environment Protection; Pollution Charges, Ambient Charges, Product Charges and Subsidies, Liability Rules—Non Compliance Fees, Deposit Refund System and Performance Bond; Coase Theorem & Common property Resource; Monitoring and Enforcement of Environmental Regulations. International Environmental Issues and Impact on India.		
Unit-II Concept of Economic Value of Environment-Use Value & Non Use Value; Measurement of Economic Value of Environment WTP and WTAC; Contingent Valuation Method; Travel Cost Method; Hedonic Market Method; Averting Behavior Approach- Household Health Production Function.		
Unit-III Population and Environment: Population Poverty and Environmental Degradation, Linkages between Population and Environment. Economic Development and Environment. Fertility, Mortality and Migration: Fertility - Meaning & Concepts; Factors affecting Fertility;		

Levels and Trends of Fertility in Developed and Developing Countries. Mortality - Meaning & Concepts; Factors affecting Mortality; Life Tables - Construction & Uses; Concepts of Stationary, Stable and Quasi Stationary Population; Population Pyramids. Migration – Meaning, Types and Factors affecting Migration.

Unit-IV

Theories of Population: Malthusian Theory, Optimum Theory; Theories of Demographic Transition: Blacker and Boserup; Biological Theories of Population; Socio-Economic Theories of Population – Marx & Leibenstein, Approaches of Meadows, Becker and Easterlin.

Reading List

- Bhattacharya, Rabindra Nath (2002) *Environmental Economics: An Indian Perspective*, Oxford India.
- Chary, S.N. and Vyasulu, Vinod (2000) *Environmental Management - An Indian Perspective*. Macmillan, New Delhi.
- Hanley, N., J.F.Shogern, & B. White (1997) *Environmental Economics in Theory and Practic.*, Macmillan.
- Sankar, U. (Ed.). (2001)*Environmental Economics*, Oxford University Press, New Delhi.
- Majumdar, P. K. (2010) *Fundamentals of Demography*, Rawat Publication.
- Mishra, J.P. (2018),*Demography*, Sahitya Bhawan Publication.
- Novell, C. (1990), *Methods and Models in Demography*, Bellhaven, Washington D.C.
- Pathak, K.B. & Ram, F. (2016). *Techniques of Demographic Analysis*. Himalaya Publishing House.
- Weeks, J. (2005)*Population: An Introduction to Concepts and Issues*. Wordsworth Learning. Singapore 9th edition.
- Siegel, Jacob S. & David A. Swanson (2004) *The Methods and the materials of Demography*. Second Edition, Elsevier Science. USA.
- Srinivasan, K. (1998)*Basic Demographic Techniques and Applications*. Sage publications.

CO-PO and CO-PSO Matrix for the Course MA/Eco/1/DSC-1

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.75	2.5	3.0	2.75	2.75	2.75	2.5	2	3	2.5	2.75	2.5
CO2	2.75	2.75	3.0	2.75	2.75	2.75	2.5	1	3	2.5	2.75	2.75
CO3	2.5	3.0	2.5	2.75	2.5	2.75	2.5	2	2	2	2.5	2
CO4	3.0	2.75	2.5	2.75	2.0	2.75	2.5	1	3	2	3	2.75
Average	2.75	2.75	2.75	2.75	2.5	2.75	2.5	1.5	2.75	2.25	2.75	2.5

Course Title: History of Economic Thought–I Course Code: MA/ECO/1/DSC2	Total Credits: 4 Time: 3 Hrs. Marks: 100 External:70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	To understand, analyze Economic Ideas and the Development of Economic Thinking in Ancient Times.
CO2	To understand, analyze and interpret the evolution of mercantilist theories, Physiocracy.
CO3	To understand, analyze and interpret the classical political economy.
CO4	To develop an insight in the Ricardian & Malthusian theories of value, distribution, rent, international trade and population growth.

Unit-I

Economic Ideas and the Development of Economic Thinking in Ancient Times

Hebrew Economic thought, Greek Economic Thought: Plato and Aristotle; Roman Economic Thought; Medieval Economic Thought: Canon Law; Ideas of Saint Thomas Aquinas and Nicholas Oresme

Unit-II

The Beginnings of the Modern World

Mercantilism: Rise of Mercantilism and its main ideas.

Physiocracy: The pre-conditions of the Industrial Revolution; Ideas of Natural Order and Net Product; Quesnay's Tableau Economique

Unit-III

Adam Smith

Philosophy of Naturalism and Optimism. Theories of Value, distribution, Views on division of labour, trade and economic progress.

Unit-IV

David Ricardo

Theories of Value, rent distribution and ideas on economic development and international

trade.

Malthus: Theory of population and gluts.

Reading List

Blackhouse, R. (1965) *A History of Modern Economic Analysis*, Basil Elackwell, Oxford.

Gide, C, and G. Rist (1956) *A History of Economic Doctrines* (2nd edition), George Harrop & Co., London.

Grey, A. (1980) *The Development of Economic Doctrine* (2nd E. Thomson edition), Longman Group. London.

Harney, L. H. (1949) *History of Economic Thought*,

Mandel, E. (1968) *Marxist Economic Theory*. Screpanti, Ernest (1995) *An outline of the History of Economic Thought*, Stefano Zamagni Clarndon Press.

Roll, E (1991) *A History of Economic Thought*.

Schumpeter, J. (1954) *A History of Economic Analysis*, Oxford University Press, New York.

Seshadri, G. B. (1997) *Economic Doctrines*. B.R. Publishing Corporation, Delhi.

Spiegel, H.W (1991) *The Growth of Economic Thought*.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/DSC-2

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2	3	2.5	3	2	2	2.5	-		2	2	2
CO2	2	3	2.5	2	3	2	2.5	-	2	2	2	2
CO3	2	2	2.5	2	2	2	2.5	-	3	2	2.5	2
CO4	2	3	2.5	3	3	2	2.5	-	2	2	2.5	2
Average	2	2.75	2.5	2.5	2.5	2	2.5	-	2.5	2	2.25	2

Course Title: Financial Economics-I Course Code :MA/ECO/1/DSC-3	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note For the paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Understand, apply and solve the time value of money problems and its applications in investment evaluation criteria.
CO2	Understand and compute various costs of capital and design an optimal capital structure.
CO3	Understand theoretically how dividend decisions are taken in corporate sector and design a dividend policy for a firm.
CO4	Understand the management of working capital and its components, and solve problems in relation thereto.

Unit-I

Capital Budgeting: Time Value of Money; Goals of Finance; Economics of capital Budgeting - Investment Criteria, Estimation of project Cash Flows, Risk Analysis in Capital Budgeting, Computation of Cost of Capital.

Unit-II

Capital Structure and Firm Value: Economics of Capital Structure and Firm Value - Net Income Approach, Net Operating income Approach, Modigliani and Miller Approach; Analysis of Optimal Capital structure – EBIT & EPS Analysis, ROI & ROE Analysis, Operating and Financial Leverage.

Unit-III

Dividends and Working Capital: Economics of Dividends- Walter Model, Gordon Model, Modigliani and Miller Model; Economics of Working Capital- Estimation of Working Capital, Financing of working Capital. Cost-Volume-Profit Analysis.

Unit-IV

Cash, Receivables and Inventory: Economics of Cash – Cash Budgeting and its Simulation, Optimal Cash balance, Baumol Model, Miller and Orr Model; Economics of Receivables; Economics of Inventory – EOQ Model, Pricing of Raw materials, Monitoring and Control of

Inventories.

Reading List

Brittain, J.A. (1978). *Corporate Dividend Policy*. Brookings Institution, USA.

Chandra, Prasanna (2011). *Financial Management: Theory and Practice*. Tata McGraw Hill.

Harold Bierman, Jr. & Smidt, Seymour (2007). *The Capital Budgeting Decision: Economic Analysis of Investment Projects*. Routledge.

Kent Baker, H. & and Martin, Gerald S. (2011). *Capital Structure and Corporate Financing Decisions*. Wiley Publishers.

Mehta, D. R. (1974). *Working Capital Management*. Prentice- Hall.

Van Horne, J.C. (2002). *Financial Management and Policy*. Pearson Education.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/DSC3

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.75	2.75	1.9	1.7	1.9	1.7	2.6	.2	2.8	1.9	2.75	2.5
CO2	2.3	1.8	1.5	2.7	2.8	0.9	2.4	.5	2.73	1.8	2.3	1.8
CO3	2.75	1.9	1.8	2.6	1.9	0.8	2.1	.7	2.75	1.9	2.8	2
CO4	2.2	2.7	2.7	2.5	2.6	1	1.9	.3	2.6	2	2.5	2.5
Average	2.5	2.28	1.97	2.37	2.3	1.1	2.25	0.43	2.72	1.9	2.58	2.2

Course Title: Mathematical Economics-I Course Code: MA/ECO/1/DSC4	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Understand the various rules of matrix algebra and their economic applications along with the ability to solve the models containing system of simultaneous equations.
CO2	Appreciate the techniques of differential calculus, ability to compute elasticity, rate of change along with the ability to use these concepts in the field of economics.
CO3	Familiar with the concepts of maxima, minima, integral calculus and difference equations along with the ability to know the optimizing behavior of various economic agents, lagged models and Computation of consumer's surplus and producer's surplus.
CO4	Understand, explain, solve and design different forms of utility functions and demand functions; and some recent concepts related to theory of demand using mathematical derivations and optimization.

Unit-I

Matrix Algebra and Its Applications

Concept of Matrix and Determinant: their types, simple operations on matrices; Matrix inversion and rank of matrix; Solution of simultaneous equations through Cramer's rule and Matrix inverse method and their economic applications.

Unit-II

Differential Calculus and Its Applications

Rules of differentiation, higher order derivatives and its economic applications. Revenue and Cost functions.

Rules of Partial differentiation, higher order partial derivatives and its economic applications. Elasticity and their types, homogenous functions, total differentiation.

Unit-III

Maxima, Minima, Integration and Difference equations:

Problems of maxima and minima in single and multivariable functions; constrained

maximization and its economic applications. Simple rules of integration and its application to consumer's and producer's surplus.

Difference equations: Solution of first order and second order difference equations; Applications in trade cycle models; Growth models and lagged market equilibrium models.

Unit-IV

Topics in Consumer Behavior

Types of utility functions; Ordinal utility maximization; Demand functions- ordinary and compensated; Slutsky equation- income, substitution, and price effects; Linear expenditure systems; Indirect utility function.

Revealed preference theory.

Reading List

Aggarwal, C.S. and R.C. Joshi (2011). *Mathematics for students of Economics*. New Academic publishing Co. Jalandhar.

Allen, R.G.D. (1972). *Mathematical Economics*. Macmillan, London.

Allen R.G.D. (2002). *Mathematical Analysis for Economists*. Macmillan Press and ELBS, London.

Chiang, A.C.(2006). *Fundamental Methods of Mathematical Economics*. McGraw Hill, New York.

Chung, J.W. (1994). *Utility and Production: Theory and Applications*. Basil Blackwell, London.

Henderson, J. M. & Quandt, R.E. (2003). *Microeconomic Theory: A Mathematical Approach*. McGraw Hill, New Delhi.

Koutsoyiannis, A. (1979). *Modern Microeconomics*. Macmillan Press, London.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/DSC4

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3.0	3.0	3.0	2.75	2.5	2.75	2.5	-	3	2.75	3.0	2.75
CO2	3.0	3.0	3.0	2.75	2.5	2.75	2.5	-	3	2.75	3.0	2.75
CO3	3.0	3.0	3.0	2.75	2.5	2.75	2.5	-	3	2.75	3.0	2.75
CO4	3.0	3.0	3.0	2.75	2.5	2.75	2.5	-	3	2.75	3.0	2.75
Average	3.0	3.0	3.0	2.75	2.5	2.75	2.5	-	3	2.75	3.0	2.75

<p>Course Title: Micro Finance Theory & Practice-I Course Code: MA/Eco/2/DSC6</p>	<p>Theory Credits: 2 Time: 2 Hrs. Marks: 50 External: 30 Internal: 20</p>	<p>Practical Credits:2 Time: 3 Hrs. Marks: 50 End Term: 30 Practical Record: 10 Viva Voce: 10</p>
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Note for the paper Setter

The question paper will consist of five questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each of the two units. The candidates are required to attempt two more questions at least one question from each unit.

Course Outcomes

CO1	Evaluate potential locations, identify and source potential customer groups. Assist in application and loan disbursement process, and collect fees and installments. Cross-sell other products of the organization.
CO2	Follow-up with the Microfinance customers whose repayment of dues have been delayed for their recovery. Maintain various records in a systematic way for later retrieval.
CO3	Communicate in an effective manner with customers and colleagues in order to ensure high level of customer service. Maintain integrity of transactions and ensure data security.
CO4	Demonstrate that high levels of ethics are exhibited at every stage of work. Work in teams towards a common goal which is in line with the goal of the organizations.

Unit-I

Basics of Microfinance: Concept, Importance, Risk Associate. MSME segment, Priority sector lending to the country and the organization, Composition & mission of Self-Help Group and Joint liability Group.

Basics of lending: Various loan products financial facilities offered by Banks and Micro Finance companies, differentiate between secured and unsecured loans, Different types of liens assigned to assets viz, Pledge, hypothecation, Mortgage and Assignment, Fixed, reducing and floating rate of interest, EMI, drawing power and sanctioned limit of loans, Features & benefits Kisan Credit card, RBI and NABARD

Unit-II

Mutual Funds: Concept, different aspects and features, various products and schemes available; process for approaching and marketing of various mutual funds schemes & Insurance schemes; concepts of Life Insurance, General Insurance, Human Life Value and Mortality; Various life & non-life products and FD.

Practical:

Students are required to prepare a practical file. For this, topics will be assigned by the teacher covering the whole syllabus. Students are required to appear in the viva-voce examination based on the syllabus for which an external examiner will be appointed. It will have a weightage of 2 Credit.

Unit-III

Micro Finance Customers: Formulate the process of scoping and mapping of the territory assigned and identification of customers and groups; List down the activities that can be conducted to identify potential customer; Practice the process of discussions with potential clients, presenting the micro-finance products to the potential customers & groups and cross-selling of other products to the customer. Interpret the sales process consisting of Planning, Execution, Monitoring and Review; Devise strategies to generate leads and a process of closing the call and completing the documentation; Evaluate the process and advantages of prioritizing, filtering and churning of leads.

Unit-IV

Practice the process of obtaining appointments and narrowing down upon the need of the customer; Formulate the process of meeting the customer; Choose the right solution to offering and practice handling objections; Recognize the importance of grooming standards & Etiquettes in sales.

Micro Finance Application Process: Analyse the entire process of application for each Microfinance product (Loans and investment); Practice filling up application forms for each Microfinance product; Discuss the KYC policy and the documents that need to be collected from the customer; List down the financial documents that need to be collected from the customer; Underline the areas in which extreme due diligence is to be followed.

Reading List

Hearth H.M.W A. (2018). *Micro Finance Theory and Practice*. Acmillan S. Godage & Brothers (Pvt) Ltd, Colombo, Sri Lanka. ISBN: 978-955-30-9258-8.

Rana O.C. and Hemraj (.2016). *Micro Finance*. Himalaya Publishing House. New Delhi ISBN: 978-93-5202-104-8

Ahlawat, S. (2015). *Micro Finance: Group Based Working*. Write & Print Publication, Delhi. ISBN: 978-93-8464-910-4.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/DSC6

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	2	2	2	2.5	3	2	2	3	2.5	3	2
CO2	3	2	2	2	2.5	3	2	2	3	2.5	3	2
CO3	3	3	3	3	2.5	2	2.5	2	3	2.5	2.5	2
CO4	3	3	3	2	2.5	2	2.5	2	3	2.5	2.5	2

Average	3	2.5	2.5	2.25	2.5	2.5	2.25	2	3	2.5	2.75	2
Course Title: Quantitative techniques in Economics Course Code: MA/ECO/1/DSC7											Total Credit: 4 Time: 3 Hrs. Marks: 100 External:70 Internal: 30	
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.												
Course Outcomes												
CO 1	Understand, explain and solve the derivatives of the functions and some recent concepts related to theory of demand and elasticity using mathematical derivations.											
CO 2	Understand, explain, solve the problems of maxima and minima, integration and its economics application.											
CO 3	Understand explain and study the determinants in various topics of economics, business and solve the equation and system of equations.											
CO 4	Understand explain and determine the condition of dynamic stability in lagged economic models.											
Unit-I Functions: Concept and types of functions; Multivariable functions; Interpretation of revenue, cost, demand, supply functions; Types of production cost functions; Limits, Continuity and derivatives; Rules of differentiation and its economic applications. Rules of Partial differentiation and its economic applications. Elasticity and their types.												
Unit II Problem of maxima -minima in single and multivariable function; Unconstrained and constrained optimization in simple economic applications. Concept of integration and its economic application.												
Unit III Concept of Matrix and their types, simple operations on matrices, matrix inversion and rank of matrix; Determinants and their properties. Solution of simultaneous equations through Cramer's rule and Matrix inverse method and their economic applications. Introduction to input-output analysis.												
Unit IV Difference equations – Solution of first and second order difference equations; Applications in trade cycle models; Growth models and lagged market equilibrium models.												
Reading List												

Aggarwal D.R. *Quantitative Methods*

Aggarwal S.C. and R. K. Rana *Mathematics for Economists* (latest).VK Global Publications Ltd.

Allen, R.G.D. (1972). *Mathematical Economics*. Macmillan, London.

Allen, R.G.D. (2002). *Mathematical Analysis for Economists*. Macmillan Press and ELBS, London.

Chiang, A.C. (1999). *Elements of Dynamic Optimization*. Waveland Press Inc., Long Grove, Illinois.

Chiang, A.C. (2006). *Fundamental Methods of Mathematical Economics*. McGraw Hill, New York.

Henderson, J. M. & Quandt, R.E. (2003). *Microeconomic Theory: A Mathematical Approach*. McGraw Hill, New Delhi.

Hoy, Michael *et al.* (2004) *Mathematics for Economics*, PHI, New Delhi,

Koutsoyiannis, A. (1979) *Modern Microeconomics*. Macmillan Press, London.

Lancaster, K. (2012). *Mathematical Economics*. Dover Publications Inc., New York.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/DSC7

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.6	2.6	2.9	2	2.8	1	2.8	1.1	2.8	2.2	2.8	2.5
CO2	2.2	2	2.7	1.9	2	1.1	2.6	.9	2.6	2.8	2	2.5
CO3	2.5	2.5	2.2	2	2.6	1	2.5	.8	2.5	2.6	2.6	2.6
CO4	2.8	1.9	1.9	2.1	2.7	0.9	2.5	.2	2.2	2.7	2.5	2.4
Average	2.52	2.25	2.42	2	2.52	1	2.6	.75	2.52	2.57	2.47	2.5

Course Title: Labour Economics-I Course Code: MA/ECO/1/DSC8		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	To be able to analyze labour market issues through the application of economic data and theories.	
CO2	Critically analyze the factors affecting supply in labour market with quantitative research.	
CO3	To be able to synthesize information on different actors and outcomes across the various labour market topics including employment, unemployment, technological change.	
CO4	To be able to understand the process of wage determination and development of generic skills to think critically, interpret and explore to be able to apply theory to practice and synthesize as well as evaluate data and other information.	
Unit-I Nature and characteristics of labour markets in developing countries like India; Paradigms of labour market analysis –Classical and neo-classical; Demand for labour in relation to size and pattern of investment.		
Unit-II Supply of labour in relation to growth of labour force; Labour market policies; Mobility and productivity of labour; Rationalization; Methods of recruitment and placement; Employment service organization in India.		
Unit-III Employment and development relationship-Poverty and unemployment in developing Countries; International Labour Organization- Objectives, Principles and Functions; International Labour Organization and India.		
Unit-IV		

Classical and neo-classical bargaining theories of wage determination; Concepts of minimum wage, living wage and fair wage in theory and practice; Wage determination in various sectors –rural, urban, organized, unorganized and in informal sectors.

Reading List

Binswanger H.P. & Rosenzweig, M.R. (Eds.) (1984), *Contractual Arrangements, Employment, and Wages in Rural Labor Markets in Asia*. Yale University Press, New Haven.

Das, N. (1960). *Unemployment, Full Employment and India*. Asia Publishing House, Bombay.

Datt, G. (1996). *Bargaining Power, Wages and Employment: An Analysis of Agricultural Labour Markets in India*. Sage Publications, New Delhi.

Desphande L.K. and J.C. Sandesara, (Ed.). (1970). *Wage Policy and Wages Determination in India*. Bombay University Press, Bombay.

Jhabvala, R. &Subrahmanya,R.K. (Eds.) (2000).*The Unorganised Sector: Work Security and Social Protection*. Sage Publications, New Delhi.

Hicks J.R. (1932). *The Theory of Wages*. Clarendon Press, Oxford.

Kannapon, S. (1983). *Employment Problems and Urban Labour Markets in Developing Countries*. University of Michigan, Ann Arbor.

Lester, R.A. (1964). *Economics of Labour*, (2nd Edition), Macmillan, New York.

McConnell, C.R. & Brue, S.L. (1986). *Contemporary Labour Economics*, McGraw-Hill, New York.

Papola, T. S. & Rodgers, G. (Eds.). (1992). *Labour Institutions and Economic Development in India*, International Institute for Labour Studies, Geneva.

Rees, A. (1973). *Economics of Work and Pay*, Harper and Row, New York.

Rosenberg M.R. (1988). *Labour Markets in Low Income Countries*, In Chenery, H.B. and T.N. Srinivasan, (Eds.), *The Handbook of Development Economics*, North-Holland, New York.

Sen, A.K. (1975). *Employment, Technology, and Development*, Oxford University Press, New Delhi.

Solow, R.M. (1990). *Labour Market as an Institution*, Blackwell, London.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/DSC8

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	2	2	3	2
CO2	2.5	3	3	2	3	1	2.5	-	3	2	2.5	2
CO3	3	2	2.5	3	2	1	2.5	-	3	2	2.5	2
CO4	3	3	2.5	3	3	1	2.5	-	3	2	3	2
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	2.75	2	2.75	2

Course Title: Economics of Infrastructure-I Course Code: MA/ECO/1/DSC9	Total Credit: 4 Time: 3 Hrs. Marks: 100 External:70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Students will be exposed to the concepts, models and problems related to Infrastructure. They will be able to understand and evaluate the environmental, economic, social and sustainability constraints of infrastructure projects.
CO2	Understand the alternative transportations models, in light of capacity, effectiveness, frequency, environment and financing.
CO3	Students will be able to analyze and gain knowledge of Central concepts in Benefit/Cost Analysis (BCA) and do economic analysis to understand application in the transport sector.
CO4	Understand and Model the Education Production Function; education externalities; education planning and quality and other related issues.

Unit-I

Scope of Infrastructure: Infrastructure – Physical & Social Infrastructure; Infrastructure as a public good; The peak load, off - load problem; Role of infrastructure in economic development; Issues & policies in financing of infrastructure; Theory of natural monopoly.

Unit-II

Microeconomic Aspects of Transportation–I: Economics of transportation network growth; Congestion and demand of transport network; Pricing of transport services; Travel time value theories; Elasticity of Substitution, Economies of scale and behavior of transport costs; Transport and economic development.

Unit-III

Microeconomic Aspects of Transportation–II: Transport externalities; Transport demand; Price elasticity of transport demand; Demand forecasting for urban transport; Trip scheduling in urban transport; Cost-benefit analysis of transport projects; Transport policy and development in a changing environment; Transport regulation; Perfect competition in transport markets; Imperfect competition in transport markets; Transport subsidies.

Unit-IV

Economics of Education: Educational infrastructure and Economic Growth; Educational production functions; Education technology; Educational quality; Costs and efficiency of higher education; Education externalities; Approaches to Educational Planning- Social Demand, Rate of Return and Manpower Balance Approaches; The case for Universal, Free, Primary Education.

Reading List

- Blaug, M. (Ed.). (1968). *Economics of Education: selected readings*. Penguin Books, England.
- Button, K. (2010). *Transport Economics*. Edward Elgar.
- Coto - Millan, P. & Inglada, V. (Eds.). (2007). *Essays on Transport Economics*. Physica Verlag (Springer).
- Cowie, J. (2009). *The Economics of Transport: A Theoretical and Applied Perspective*. Routledge.
- Dustmann, C., B. Fitzenberger & Machin, S. (2008) *The Economics of Education and Training*, Springer.
- Indian Council of Social Science Research (ICSSR). *Economics of Infrastructure, Vol. IV*, New Delhi.
- McMohan, W.W. (2000). *Education and Development: Measuring the Social Benefit*, Oxford University Press.
- National Council of Applied Economic Research (1996). *India Infrastructure Report: Policy Implications for Growth and Welfare*. New Delhi, NCAER.
- Palma, A., R. Lindsey, E. Quinet, & Vickerman, R. (Eds.).(2011). *Handbook of Transport Economics*, Edward Elgar.
- Parikh, K.S. (Ed.) *India Development Reports*. Oxford University Press, New Delhi.
- Psacharopoulos, G. (2014). *Economics of Education: Research and Studies*. Pergamon Press, Elsevier Science Ltd.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/DSC9

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.75	1.8	1.9	2.9	2.9	1	2.8	0.8	2.9	2.1	2.9	2.4
CO2	2.6	2.7	2.4	2.4	2.5	2.4	2.7	0.9	2.7	2.7	2.2	2.7
CO3	2.9	2.9	2.3	2.3	2.7	2.3	2.6	0.7	2.6	2.6	2.5	2.2
CO4	2.8	1.9	2.7	1.8	2.6	1	2.2	1.2	2.3	1.9	2.7	2.5
Average	2.76	2.32	2.32	2.35	2.67	1.67	2.57	0.9	2.6	2.32	2.57	2.45

Course Title: Economy of Haryana-I Course Code: MA/ECO/1/DSC10		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand, explain and analyze Growth and development of Haryana economy since 1966.	
CO2	Describe and critically analyze growth and reforms in Haryana agriculture sector and evaluate various financing and insurance schemes.	
CO3	Analyze Industrial growth and performance of public sector undertakings in Haryana.	
CO4	Demonstrate knowledge of urban infrastructure, rural electrification and transport sector in Haryana.	
Unit-I Economic Progress of Haryana: Growth and Development of the economy since 1966- Trends and Pattern of GSDP; Policies and strategies of development between 1966 and 1990; Economic Reforms and development since 1991; Demographic transition of Haryana since 1966 and the factors contributed to the demographic change.		
Unit-II Agriculture Sector in Haryana: Agriculture Growth and Performance-Trends in production and productivity; Green Revolution; Land Reforms and Land use pattern; Changes in Cropping Pattern; Agricultural Research and Education; Agriculture Marketing; Crop Insurance Schemes; Finance to Agriculture; Livestock-Fisheries-Water Resources and-Forestry; Agricultural Crisis - Food Security.		
Unit-III Industrial Sector in Haryana: Industry-Growth and Performance; Industrial Backwardness; Mining, Manufacturing and Construction Sector- Issues and Challenges; Performance of State Public Sector Undertakings; Industrial Financing; Problems and prospects of MSMEs; SEZs in Haryana; Labour Welfare Schemes.		
Unit-IV Infrastructural Status: Infrastructure in Haryana; Power Sector: Organizational Structure, Performance; Haryana Electricity Regulatory Commission, Pricing Policies & Finances; Urban Infrastructure and Haryana Urban Development Authority; Rural Electrification; Performance of		

Transport Sector.

Reading List

- Aiyer, S. & Mody, A. (2011). The Demographic Dividend: Evidence from the Indian States (IMF Working Paper No. WP/11/38). Retrieved from IMF's website: <https://www.imf.org/external/pubs/ft/wp/2011/wp1138.pdf>
- Azis, Iwan J. (2020). Regional Economics: Fundamental Concepts, Policies and Institutions. World Scientific Publishing Co. Pvt. Ltd.: Singapore.
- Choudhary, D.R. (2007). *Haryana At Cross Roads: Problems and Prospects*. National Book Trust, India, New Delhi.
- Department of Economic and Statistical Analysis (various issues) *Economics of Farming in Haryana*, Government of Haryana, Panchkula.
- Department of Economic and Statistical Analysis (various issues) *Economic Survey of Haryana*, Government of Haryana, Panchkula.
- Department of Economic and Statistical Analysis (various issues) *Index of Industrial Production in Haryana*, Government of Haryana, Panchkula.
- Department of Economic and Statistical Analysis (various issues) *Statistical Abstract of Haryana*, Government of Haryana, Panchkula.
- Laxmi Narayan and Kavita Bhambu Kaswan (2019). *Haryana Economy: Patterns, Potentials and Prospects*. White Falcon Publishing.
- Planning Commission (2009). *Haryana Development Report*. Government of India, New Delhi.
- Sidhu, Harbans Singh (1991). *Agricultural Development and Rural Labour: A Case Study of Punjab and Haryana*. Concept Publishing Company: New Delhi.
- Singh, M. & Kaur, H. (2004). *Economic Development of Haryana*. Deep & Deep Publications.
- Westley, John R. (2019). *Agriculture and Equitable Growth: The Case of Punjab-Haryana*. Taylor & Francis Group.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/DSC10

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	3	3	3	2	1	2.5	-	2	2.5	3	2
CO2	3	3	3	2	3	1	2.5	-	3	2	2.5	2
CO3	3	2	2	3	2	1	2.5	-	3	2	2.5	2
CO4	3	3	3	3	3	1	2.5	-	3	2	3	2
Average	3	2.75	2.75	2.75	2.5	1	2.5	-	2.75	2.12	2.75	2

Course Title: Economics of Gender & Development-I Course Code: MA/ECO/1/DSC11	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Understand importance Gender and Women’s Studies as an academic field of study and be familiar with its history and theories.
CO2	Explain demography of female population with special reference to nutrition, health, education and social and community resources.
CO3	Understand factors affecting decision making by women.
CO4	Demonstrate skills for valuation of women’s productive and unproductive work.

Unit-I

Introduction to Women Studies

Importance and concepts of women studies – women in patriarchal and matriarchal societies and structures, patrilineal and matrilineal systems and relevance to present day society in India; Economic basis and functioning of patriarchy in developed Countries and LDCs, particularly India.

Unit-II

Demographic Aspects

Demography of female population: Age structure, mortality rates, and sex ratio – Causes of declining sex ratios and fertility rates in LDCs and particularly India – Theories and measurement of fertility and its control; Women and their access to nutrition, health, education and social and community resources, and its impact on female mortality and fertility, economic status, and work participation rate.

Unit-III

Women and Decision Making

Factors affecting decision making by women; Property rights; Access to and control over economic resources, assets; Power of decision making at household, class community level; Economic status of women and its effect on work-participation rate, income level, health, and

education in developing countries and India.

Unit-IV

Issues in Women' Work

Concept and analysis of women' work: Valuation of productive and unproductive work, Visible and invisible work, Paid and unpaid-work, Economically productive and socially productive work. Factors affecting female entry in labour market; Supply and demand for female labour in developed and developing countries, particularly India; Studies of female work participation in agriculture, non-agricultural rural activities, informal sector, cottage and small-scale industries, organized industry and services sector.

Reading List

Boserup, E. (1970). *Women's Role in Economic Development*. George Allen and Unwin, London.

Desai, N. & Raj, M.K. (Eds.). (1979). *Women and Society in India*. Research Center for Women Studies, SNDT University, Bombay.

Government of India (1974). *Towards Equality – Report of the Committee on the Status of Women in India*, Department of Social Welfare, Ministry of Education and Social Welfare, New Delhi.

Krishnaraj, M., Sudarshan, R.M. & Shariff, A. (1999). *Gender, Population and Development*. Oxford University Press, New Delhi.

Seth, M. (2000). *Women and Development: The Indian Experience*. Sage Publications, New Delhi.

Srinivasan, K. & Shariff, A. (1998). *India: Towards Population and Development Goals*. Oxford University Press, New Delhi.

Venkateswaran, S. (1995). *Environment, Development and the Gender Gap*. Sage Publications, New Delhi.

Wazir, R. (2000). *The Gender Gap in Basic Education: NGOs as Change Agents*. Sage Publications, New Delhi.

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/DSC11

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	3	2	3	3
CO2	2.5	3	3	2	3	1	2.5	-	3	2	3	3
CO3	3	2	2	3	2	1	2.5	-	3	2	3	3
CO4	3	3	3	3	3	1	2.5	-	3	3	2	3
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3

Course Title: Universal Humanistic values and Life Skills Course Code: MA/ECO/1/SEC1		Total Credits: 4 Internal evaluation with satisfactory/ unsatisfactory remarks
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understanding the concept and the role of paradigm and principles in strengthening universal values and life skills	
CO2	Understanding the concept and the role of personal vision and leadership	
CO3	Understanding the concept and the role of principles of personal management, interdependence and interpersonal leadership.	
CO4	Understanding the concept and the role of principles of empathic communication, creative cooperation and balanced self-renewal.	
Unit-I Paradigms and Principles: Role of paradigms and principles in strengthening universal humanistic values and life skills; Inside-out approach; Personality ethics and character ethics; Primary and secondary greatness; The Principle centred paradigm; The principles of growth and change; Habits as internalized principles and pattern of behaviour; The journey from dependence to independence and finally to interdependence; Role of P-PC (Production-Productive Capacity) balance in life		
Unit-II Principles of Personal Vision: Definition and role of proactivity in life; The power of principle centred choice and initiative, Focusing on circle of influence and its expansion, Distinction between 'To Be' and 'To Have', Making and keeping commitments. Principles of Personal Leadership: The principle of beginning with the end in mind; Leadership and management- The two creations, Becoming your own first creator, Making a principle centred personal mission statement, Creating ability to use whole brain and two ways to tap the right brain, Identifying the roles and goals towards the mission, Mission sentiments towards the organization and family		
Unit-III Principles of Personal Management and Interdependence: Power of independent will, Role and importance of time management, Exercise to say "NO", Identifying the roles in life,		

Delegation and its effectivity. Emotional bank and its major deposits, Importance of laws for life, Expectations and their clarification, Personal integrity, the powers of interdependence

Principles of Interpersonal Leadership: Cooperation and its role in working, Human interaction and various paradigms related to it, Selecting the best option, The five dimensions of Win/Win, Training and agreements of Win/Win, Role of system and process for Win/Win

Unit-IV

Principles of Empathic Communication: Character communication and empathic listening, Screening of the prescribe, Four autobiographical responses, Understanding and perception, Seek to understand,

Principles of Creative Cooperation: Synergistic communication; Synergy in classroom, business and communication, Fishing for the third alternative, valuing the differences.

Principles of balanced self-renewal: Four dimensions of renewal, balance and synergy in renewal, The upward spiral

Reading List

Covey S. R, (2004) *The Seven Habits of Highly Effective People*, Simon and Schuster Publishers, New Delhi

Neill, M. (2019) *The Inside Out Revolution: The Only Thing You Need to Know to Change Your Life Forever*, Hay House Publishers, UK

Frankl, V. (1992) *Man's Search For Meaning*, Washington Square Publishers

Khera, S. (2005) *You Can Win*, Macmillan India Ltd. (In English and Hindi)

CO-PO and CO-PSO Matrix for the Course MA/ECO/1/SEC1

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	2.75	2.5	2.00	2.00	2.00	2.75	2.90	1.00	1.00	1.00	1.00
CO2	2.5	2.75	2.5	2.00	2.00	2.00	2.75	2.90	1.00	1.00	1.00	1.00
CO3	2.5	2.75	2.5	2.00	2.00	2.00	2.75	2.90	1.00	1.00	1.00	1.00
CO4	2.5	2.75	2.5	2.00	2.00	2.00	2.75	2.90	1.00	1.00	1.00	1.00
Average	2.5	2.75	2.5	2.00	2.00	2.00	2.75	2.90	1.00	1.00	1.00	1.00

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M.A. Economics
2nd Semester

RPC

San

A. Singh

Kamlesh Kumar

Mang Prasad

Course Title: Micro Economics-II Course Code: MA/ECO/2/CC5	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Apply Microeconomic tools to solve real life problems especially under uncertainty and game theory.
CO2	Able to understand new advances in the theory of firm and think critically analyze economic problems in the context of firm.
CO3	Adopt different analytical concepts and models in framing development and policy-relevant problems particularly factor pricing and income distribution.
CO4	Understand the effects of various decisions on welfare of people through general equilibrium analysis.

Unit-I

Oligopoly: non collusive models –Cournot, Bertrand, kinked demand models; Collusive Models: joint profit maximizing market sharing and leadership cartels. Critique of neo-classical theory of firm. Theory of Games – Twp-person, Zero-sum game, Pure and Mixed strategy, Saddle Point Solution.

Unit-II

Alternative theories of firm: Baumol’s Sales maximization model (simple, static without advertisement model) Morris and Williamson Average/full cost pricing, Bain’s limit pricing model, behaviouralist model of Cyert and March.

Unit-III

Neoclassical theory of factor pricing under competitive condition, with monopolistic power in product market, monoposonistic power in factor market, bilateral monopoly in factor market, monopoly in factor market. Product exhaustion problem. Neoclassical theory of rent, quasi-rent, interest and profit. Issues in General Equilibrium analysis

Unit-IV

Concept of social welfare, some early criteria, Pareto optimality criterion and efficiency conditions, Bergson's social welfare function, idea of theory of second best and Arrow's impossibility theorem, compensation criterion. Market structure and welfare maximization. Market failure- case of externality and public goods; and ways of correcting it.

Reading List

Bain, J. (1958). *Barriers to New Competition*. Harvard University Press, Harvard.
 Borch, K.H. (1968). *The Economics of Uncertainty*. Princeton University Press, Princeton.
 Da Costa, G.C. (1980). *Production, Prices and Distribution*. Tata McGraw Hill, New Delhi.
 Green, H. & Walsh, V. (1975). *Classical and Neo-Classical Theories of General Equilibrium*. Oxford University Press, London.
 Hansen, B. (1970). *A Survey of General Equilibrium Systems*. McGraw Hill, New York.
 Koutsoyiannis, A. (1979). *Modern Microeconomics (2nd Edition)*. Macmillan Press, London.
 Lipsey, R.G. and Chrysal, K. Alec "An Introduction to Positive Economics: (OUP)
 Salvatore. D. "Microeconomics Theory" (Schaum's Outline series, Tata McGraw Hill).
 Varian, H. (2000). *Microeconomic Analysis*. W.W. Norton, New York.
 Varian, H. (2003). *Intermediate Microeconomics*. East-West Press.
 Weintrub, E.R. (1974). *General Equilibrium Theory*. Macmillan, London.

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/CC5

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	3	2	3	3
CO2	2.5	3	3	2	3	1	2.5	-	3	2	3	3
CO3	3	2	2	3	2	1	2.5	-	3	2	3	3
CO4	3	3	3	3	3	1	2.5	-	3	3	2	3
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3

Course Title: Macro Economics-II Course Code: MA/ECO/2/CC6	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Learn and explain various theories of demand for money
CO2	Understand the theories of money supply and interest rates.
CO3	Identify the phases of the business cycle/inflation and the problems caused by cyclical fluctuations in the market economy and to show an ability to reflect on how economic shocks affect aggregate economic performance in the short and long term.
CO4	Explain the components of aggregate economic activity in an open economy framework

Unit-I

The Demand for and Supply of Money

The Demand for Money: Classical Approach (Quantity Theory of Money) - Fisher's and Cambridge Version; Keynes Approach (Liquidity Preference Theory); Post Keynesian Approaches - Tobin (Portfolio Balance Approach), Baumol (Inventory Theoretic Approach) and Friedman (Restatement of Quantity Theory of Money)

Supply of Money: Components, Determinants of Money Supply - High Power Money, Money Multiplier

Unit-II

Money and Financial Markets: Role, Structure and Functions of Money; Capital Markets
Inflation: Demand Pull and Cost Push Theories of Inflation; Trade Off and Non Trade Off between Inflation and Unemployment- The Phillips Curve (short Run and Long Run); Inflationary Pressure Curve and the Natural Rate of Unemployment

Unit-III

Process of Income Determination and Trade Cycles

The Investment Multiplier- Static and Dynamic

Unit-IV

Open Economy Macro Economics

Saving and Investment in a Small Open Economy; The Determination of National Income in Open Economy; Demand and Supply of Foreign Exchange; The International Transmission of Disturbance under Fixed Exchange Rate and Flexible Exchange Rate (Mundell- Fleming Model).

Reading List

- Bain, K. & Howells, P. (2009) *Monetary Economics: Policy and its Theoretical Basis*. Macmillan International Higher Education.
- Frisch, H. (1983) *Theories of Inflation*. Cambridge University Press.
- Galbacs, Peter (2015) *The Theory of New Classical Macroeconomics: A Positive Critique*. Springer.
- Gali, J. (2015) *Monetary Policy, Inflation and Business Cycles*, Princeton University Press.
- Handa, Jagdish (2000) *Monetary Economics*, Routledge, London.
- Jha, R. (1991) *Contemporary Macroeconomic Theory and Policy*. Wiley Eastern Limited.
- Levacic, Rosalind & Rebmann, Alexander (2015) *Macroeconomics*, Macmillan, London.
- Lucas, R.E. (1983) *Studies in Business Cycle Theory*, MIT Press.
- Mankiw, Gregory N. (2003) *Macroeconomics*, Worth Publishers.
- Mishkin, F.S. (2016). *The Economics of Money Banking and Financial Markets*. Pearson.
- Romer, David (2012). *Advanced Macroeconomics*. McGraw Hill Education.
- Romer, D. & Mankiw, N. Gregory (1995). *New Keynesian Economics (Volume-2)*. MIT Press.
- Sheffrin, Steven M. (1996) *Rational Expectations*. Cambridge University Press

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/CC6

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	2	2	3	2
CO2	2.5	3	3	2	3	1	2.5	-	3	2	2.5	2
CO3	3	2	2	3	2	1	2.5	-	3	2	2.5	2
CO4	3	3	3	3	3	1	2.5	-	3	2	3	2
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	2.75	2	2.75	2

Course Title: Economics of Growth and Development –II Course Code: MA/ECO/2/CC7		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO 1	To know about mutually inter dependence of agriculture and industry and their role in economic development. Roles of institutions and markets in economic development.	
CO 2	To develop an insight in the issues of international trade, theory, policy, promotion and its relationship with growth & development.	
CO 3	To understand about fiscal and monetary policies in economic development and know also about establishing the stability in an economy. Projections about the project by using cost benefit analysis.	
CO 4	To acquaint the students about the needs of plans, techniques of plans. Important roles of new growth theory in economic development.	
Unit-I		
Sectoral Aspects of development; Importance of agriculture and industry in economic development. Role of institutions – Government and Markets. Poverty – indicators and measurement.		
Unit-II		
Trade and development: Trade as an engine of growth, two gap analysis, Prebisch, Singer and Myrdal views, gains from trade and LDCs; Role of foreign Direct investment (FDI) and Multi-national corporations (MNCs) in the emerging scenario.		
Unit-III		
Objects and role of monetary and fiscal policies in economics development; Choice of techniques and appropriate technology; Investment Criteria; Cost-benefits analysis.		
Unit-IV		
Techniques of planning; Plan Models in India; Planning in a market-oriented economy; Endogenous growth; role of education research and knowledge – Explanation of Cross country differentials in economic development and growth.		
Reading List		
<ul style="list-style-type: none"> Adelman, I. (1961). <i>Theories of Economic Growth and Development</i>. Stanford University Press, Stanford. 		

- Ghatak, S. (1986). *An Introduction to Development Economics*. Allen and Unwin, London.
- Higgins, B. (1959). *Economic Development*. W.W. Norton, New York.
- Hirschman, A.O. (1958). *The Strategy of Economic Development*. Yale University Press, New York.
- Kindleberger, C.P. (1977). *Economic Development*. McGraw Hill, New York.
- Lewis, W.A. (1955). *The Theory of Economic Growth*. George Allen and Unwin, London.
- Thirlwal, A.P. (1999). *Growth and Development*. Macmillan, U.K.
- Meier, G.M. & Rauch, J.E. (2005). *Leading Issues in Economic Development*. Oxford University Press, New Delhi.
- Menard, C. & Shirley, M.M. (2008). *Handbook of New Institutional Economics*. Springer Science & Business Media.
- Todaro, M.P. & Smith, S.C. (2003). *Economic Development*. Pearson Education, Delhi.
- Aydin, H. I., Ziolo, M. & Balacescu, A. (Eds.). (2017). *Economic Development: Global & Regional Studies*. IJOPEC Publication, London.
- Todaro, M.P. & Smith, S.C. (2003). *Economic Development*. Pearson Education, Delhi.
- Bhagwati, J. & Desai, P. (1970). *India: Planning for Industrialization*. Oxford University Press, London.
- Brown, M. (1966). *On the Theory and Measurement of Technical Change*. Cambridge University Press, Cambridge, Mass.
- Grossman, G. and E. Helpman (1991). *Innovation and Growth in the Global Economy*. MIT Press, Cambridge, Mass.
- Schultz, Paul T. & Strauss, J. (Eds.). (2008). *Handbook of Development Economics, Vol. 4*. Elsevier, Amsterdam.
- Schultz, T.W. (1968). *Economic Growth and Agriculture*. McGraw Hill.
- Sen, A.K. (Ed.). (1990). *Growth Economics*. Penguin, Harmondsworth.

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/CC7

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.7	2.8	2.8	2.7	2.8	.9	2.9	.8	2.9	2.9	2	2.5
CO2	2.4	2	2.5	2	2	1	2.8	.7	2.6	2	2.7	2.6
CO3	2.7	2.7	2.7	2.6	2.7	1	2.6	.5	2.2	2	2.5	2.3
CO4	2.3	2	1.8	1.5	1.8	1.1	2.7	.9	2.8	2.2	2.2	2.7
Average	2.52	2.37	2.45	2.2	2.32	1	2.75	0.72	2.62	2.27	2.35	2.52

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Mang Prasad

Course Title: Indian Economy Course Code: MA/ECO/2/DSC13	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO 1	Peep into the history of economic development and critically evaluate the trends in National Income in India.
CO 2	Understand the development of human and physical capital formation in India.
CO 3	Utilize the detailed skills and techniques to address the problems of Indian economy like poverty, inequality, unemployment.
CO 4	Understand the trends in Indian public finances.

Unit – I

Features of Indian economy; Nature and Characteristics of Indian economy; Planning; objectives and strategies; failures and achievements of plans.
 Basic economic indicators – National income, performance of different sectors. Trends in prices and money supply.

Unit-II

Institutional structure: Land-reforms in India; Agricultural marketing and warehousing; Issues in food security – policies for sustainable agriculture; Agricultural finance policy; Agricultural price policy.

Unit-III

Malthusian theory of population, optimum theory of population, theory of demographic transition, population as ‘Limits to Growth’ and as ‘Ultimate Source’
 Concepts of Demography – Vital rates, life tables, composition and uses.
 Measurement of fertility – Total fertility rate, gross and net reproduction rate – Age pyramids, population projections table, stationary and quasi-stationary population; Characteristics of Indian population through recent census.

Unit-IV

Financial Sector: Monetary policy of RBI; Money and Capital markets; Growth and problem; Role of commercial banks in India; Banking sector reforms since 1991.

Reading List

Bardhan. P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi.

Brahmanada, P.R. and V.R. Panchmukhi (Eds.) (2001), Development Experience in the Indian Economy: Inter-State Perspectives, Bookwell, Delhi.

Datta, R. and K P. M. Sundhram (latest edition), Indian Economy. S. Chand & Company Ltd. New Delhi.

Mishra, S.K and V.K. Puri Indian Economy-151 Development Experience, Himalaya Publishing House, Mumbai, Latest Edition.

Meier, Gerald M. (1987). *Pioners in Development*. Oxford University Press, New Delhi.

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

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/DSC13

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.9	2.1	2.1	2.9	2.8	1	2.9	.1	2.9	2.4	2.7	2.5
CO2	2.6	2.8	2	2.5	2.7	1.9	2.7	.1	2.6	2.2	2.6	2.5
CO3	2.2	2.7	2.6	2.1	2.5	2.7	2.3	.8	2.4	2.9	2.4	2.4
CO4	2.5	2	2.4	2	2.4	1.3	2.1	.7	2.7	2.7	2.8	2.3
Average	2.55	2.4	2.27	2.37	2.6	1.72	2.5	0.42	2.65	2.55	2.62	2.42

Course Title: History of Economic Thought-II Course Code: MA/ECO/2/DSC14		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	To understand and analyze economics literature with contribution of socialist thought.	
CO2	To critically analyze the key concepts of democratic capitalist economy and Marxist philosophy.	
CO3	To develop insight into neo-classical thought and marginalist contribution.	
CO4	To analyze the contribution of selected Indian economic thought economists	
Unit-I Economic idea of J.B.Mill, Senior and List, Origin of Socialist Thought.		
Unit-II Socialist Ideas: Sismondi, Saint-Simon and Production. Marxian Philosophy: Dialectical Materialism and Historical Materialism. Marxian theories of value, surplus value, profit and crisis of capitalism.		
Unit-III Marginalist Revolution: Jevons, Walras, Manger, Neo-classical thought: Marshall. Welfare Economics: Hobson and Pious.		
Unit-IV Indian Economic Thought Ancient Indian Economic Thought: Kautilya; Valluvar Founders of Indian Economics: Dadabhai Naoroji, G.K. Gokhale, R. C. Dutt and M. Visvesvaraya.		
Reading List Blackhouse, R.: A History of modern Economic Analysis, Basil Blackwell, Oxford, 1965. Screpanti, Ernesto. & Stefano Zamagni: An outline of the History of Economic Thought, Clarendon Press 1995. Ganguli, B.N : Indian Economic Thought: A 19th Century Perspective. Tate McGraw Hill		

New Delhi, 1977.

Gandhi, M.K (1947) India of My Dreams, Navajivan Publishing House, Ahmadabad, 1947, Gide, C. and G. Rist: A History of Economic Doctrines (2nd edition) Longman Group, London. 1980.

Kautilya: The Arthashastra, Edited, Rearranged, Translated and Introduced by L.N. angarajan, Penguin Books, New Delhi, 1992.

Naoroji, Dadabhai: Poverty and Un-British Rule in India.

Roll, E.: A History of Economic Analysis, Oxford University Press, New York, 1954.
Schumpeter, J. A.: History of Economic Analysis, Oxford University Press, New York, 1954.

Spiegel, H. W.: The Growth of Economic Thought, 1991.

Seshadri, G.B.: The Growth of Economic Thought, 1991. Harney , L.H.: History of Economic Thought, 1949. Mandel, E.: Marxist Economic Theory, 1968.

Visesvaraya, M.: Planned Economy of India.

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/DSC14

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2	3	2	3	2	2	2.5	-	2	2	2	2
CO2	2.5	3	2	2	3	2	2.5	-	2	2	2	2
CO3	2	2	2	2	2	2	2.5	-	2	3	2	2
CO4	2.5	3	2	3	3	2	2.5	-	2	3	2	2
Average	2.25	2.75	2	2.5	2.5	2	2.5	-	2	2.5	2	2

Course Title: Financial Economics-II Course Code: MA/ECO/2/DSC15		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand the risk and return relationship and compute yields of bond portfolio.	
CO2	Understand and apply the portfolio construction, and asset pricing.	
CO3	Understand and apply the fundamental and technical analysis, and efficiency tests of stock markets.	
CO4	Understand the concept and valuation of derivatives and design hedging strategies.	
Unit-I		
Investment Analysis The investment environment; Asset Classes and Financial Instruments; Risk- Return Analysis; Risk Aversion and Capital Allocation to Risky Assets; Bond Prices and Yields; Term Structure of interest Rates, Managing Bond Portfolio.		
Unit-II		
Portfolio Optimization Equity valuation Models; Portfolio Analysis; Markowitz Model, Sharpe Index Model, Capital asset pricing Model, Arbitrage Pricing Theory.		
Unit-III		
Security Analysis and Theory of Options Fundamental and Technical Security Analysis; Efficient market Theory; Introduction to Option markets; Option Valuation- Binomial Option pricing, Black – Scholes Option Pricing Model.		
Unit-IV		
Options Hedging, Future Markets and Mutual Funds Options Hedging strategies – Delta, Gamma, Theta, Vega and Rho; Futures Markets Trading and valuation; Portfolio performance Evaluation; Economics of Mutual Funds - Sharpe, Treynor and Jensen Performance Index.		

Reading List

Bodie, Z., Kane, A. & Marcus, A.J. (2017). *Investments*. McGraw Hill Education.

Grinold, R.C. & Kahn, R.N. (1999). *Active portfolio Management*. McGraw Hill.

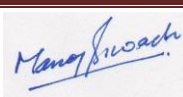
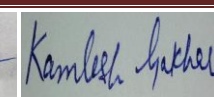
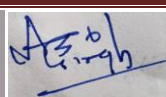
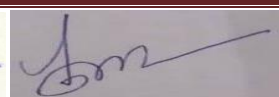
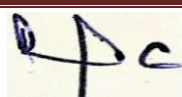
Hull, J. (1993). *Options, Futures and Other Derivative Securities*. Prentice Hall.

Kolb, Robert (1996). *Financial Derivatives*. Wiley.

Reilly, F.K. & Brown, K.C. (2012). *Investment Analysis and portfolio management*. South-Western Cengage Learning.

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/DSC15

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.9	2.8	2.75	1.8	2.7	2.7	2.8	0.5	2.8	2.9	2.8	2.4
CO2	2.34	1.9	1.5	2.7	2.6	1.1	2.7	0.7	2.4	1.9	2.4	1.9
CO3	2.6	1.7	2.8	2.6	1.9	1.2	2.3	0.9	2.7	2.7	2.9	1.8
CO4	2.8	1.5	1.7	1.7	1.6	0.9	2.4	0.1	2.3	1.7	2.8	2.3
Average	2.66	1.97	2.18	2.2	2.2	1.47	2.55	0.55	2.55	2.3	2.72	2.1



Course Title: Mathematical Economics-II Course Code: MA/Eco/2/DSC16	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Understand, explain, solve and design production functions, cost function, efficiency and producer behaviour using mathematical tools.
CO2	Compute and interpret equilibrium price, output and profits of firms under different market conditions using mathematical tools.
CO3	Understand the technique of linear programming and attain ability to analyze the optimum behavior of consumers, investors, firms, and governments.
CO4	Understand the techniques of game theory As well as input –output and attain ability to use these concepts to analyze the optimum behavior of consumers and firms in risk and uncertainty.

Unit-I

Production Function Analysis: Production functions and their properties (CD, CES); Elasticity of factor substitution and curvature of isoquants, Producer’s equilibrium; Duality in cost and production functions; Methods for measuring productivity and efficiency.

Unit-II

Market Structure: Perfect Competition: equilibrium of firm, supply curve and shut down point. Monopoly: equilibrium of firm, price discrimination and multi-plant monopolist. Duopoly and oligopoly: Cournot’s Model; Stackelberg’s model, Joint profit maximization; Price leadership model.

Unit-III

Linear programming: Basic concept, Nature of feasible, basic and optimal solution; Solution of linear programming problem through graphical and simplex method, problem of degeneracy. Concept of dual and its interpretation. Shadow prices and its uses.

Unit-IV

Game Theory and Input- Output: Game Theory: Concept of a game; Two-person Zero-sum game; value of a game; strategies- pure and mixed; Dominance rule; Solution of a game

by linear programming. Nash equilibrium.

Introduction to input-output analysis: Open input-output -Meaning, assumption, transaction matrix, solution and value added. Hawkins-Simon conditions and closed input-output.

Reading List

Allen, R.G.D. (1972). *Mathematical Economics*. Macmillan, London.

Allen R.G.D. (2002). *Mathematical Analysis for Economists*. Macmillan Press and ELBS, London.

Chiang, A.C.(2006). *Fundamental Methods of Mathematical Economics*. McGraw Hill, New York.

Chung, J.W. (1994). *Utility and Production: Theory and Applications*. Basil Blackwell, London.

Aggarwal, C.S. and R.C. Joshi (2011). *Mathematics for students of Economics*. New Academic publishing Co. Jalandhar.

Henderson, J. M. & Quandt, R.E. (2003). *Microeconomic Theory: A Mathematical Approach*. McGraw Hill, New Delhi.

Koutsoyiannis, A. (1979). *Modern Microeconomics*. Macmillan Press, London.

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/DSC16

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3.0	3.0	3.0	2.75	2.5	2.75	2.5	-	3	2.75	3.0	2.75
CO2	3.0	3.0	3.0	2.75	2.5	2.75	2.5	-	3	2.75	3.0	2.75
CO3	3.0	3.0	3.0	2.75	2.5	2.75	2.5	-	3	2.75	3.0	2.75
CO4	3.0	3.0	3.0	2.75	2.5	2.75	2.5	-	3	2.75	3.0	2.75
Average	3.0	3.0	3.0	2.75	2.5	2.75	2.5	-	3	2.75	3.0	2.75

<p>Course Title: Micro Finance Theory & Practice-II Course Code: MA/Eco/2/DSC18</p>	<p>Theory Credits: 2 Time: 2 Hrs. Marks: 50 External: 30 Internal: 20</p>	<p>Practical Credits:2 Time: 3 Hrs. Marks: 50 End Term: 30 Practical Record: 10 Viva Voce: 10</p>
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Note for the paper Setter

The question paper will consist of five questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each of the two units. The candidates are required to attempt two more questions at least one question from each unit.

Course Outcomes

CO1	Evaluate potential locations, identify and source potential customer groups. Assist in application and loan disbursement process, and collect fees and installments. Cross-sell other products of the organization.
CO2	Follow-up with the Microfinance customers whose repayment of dues have been delayed for their recovery. Maintain various records in a systematic way for later retrieval.
CO3	Communicate in an effective manner with customers and colleagues in order to ensure high level of customer service. Maintain integrity of transactions and ensure data security.
CO4	Demonstrate that high levels of ethics are exhibited at every stage of work. Work in teams towards a common goal which is in line with the goal of the organizations.

Unit-I (Theory)

Disburse Micro Finance Loan: Process of disbursal of loan, Genuineness of customer documents, personal discussions and formalities with the customer before disbursal, areas of due diligence. Concept of Special Mention Cases and NPAs; bucketing of asset products into Standard Assets, Sub-standard Assets, Doubtful assets and Loss assets; personal attributes in the process of recovery; Differentiate between intentional defaulter and financial defaulter; procedure of debt recovery; process of credit counseling & debt management plan with case studies; Do's and don'ts in recovery process as prescribed by IBA; legal aspects involved in repossession of securities.

Unit-II (Theory)

Integrity and Ethics: Ethical behavior and refrain from indulging in unfair trade and/or corrupt practices; process to maintain records meticulously; Value and protect of customer's information, data and information related to business or commercial decisions; misrepresentation or misinformation; ethics in day-to-day processes; Avoidance of

defaming products and services of competition.

Unit-III (Practical)

Soft Skills: Discuss the basics of communication; Apply various forms of communication; List down various factors that make communication effective; Demonstrate interpersonal skills and negotiations skills; Practice the art of handling difficult customers.

Communicate Effectively: Employ attentive listening and paraphrase in order to understand the customer, demonstrate sensitivity to: language, gender, cultural and social differences in addressing customers, superiors & colleagues, positive attitude, correct body language, dress code and gestures and etiquette.

Unit-IV (Practical)

Customer Satisfaction: List down work output requirements, and receive feedback with positive attitude; Demonstrate cooperation, coordination, and collaboration to achieve shared goals; Analyse and address problems by educating, eliminating or escalating; Aim to gain customer loyalty and satisfaction.

Teamwork: Share relevant inputs, feedback and insights to build mutual trust; Exchange, defend and rethink ideas; Support team members to accomplish goals; Facilitate group decision and use conflict management techniques to deal with conflict productively.

Reading List

Ahluwat, S. (2015). *Micro Finance: Group Based Working*. Write & Print Publication, Delhi. ISBN: 978-93-8464-910-4.

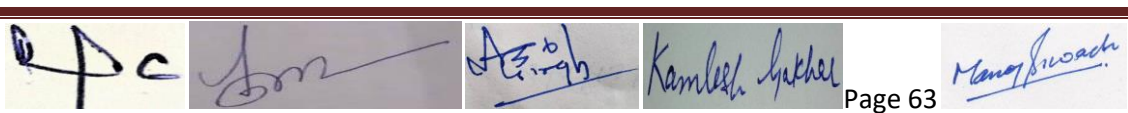
Hearth H.M.W A. (2018). *Micro Finance Theory and Practice*. Acmillan S. Godage & Brothers (Pvt) Ltd, Colombo, Sri Lanka. ISBN: 978-955-30-9258-8.

Rana O.C. and Hemraj (.2016). *Micro Finance*. Himalaya Publishing House. New Delhi ISBN: 978-93-5202-104-

Note: Students are required to prepare a practical file. For this, topics will be assigned by the teacher covering the whole syllabus. Students are required to appear in the viva-voce examination based on the syllabus for which an external examiner will be appointed. It will have a weightage of 2 Credits.

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/DSC18

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	3	2	2	2.5	3	2	-	3	2.5	2	2
CO2	3	2	2	2	1.5	2	2	3	3	2.5	2	2
CO3	3	3	3	2	2.5	3	3	2	3	2.5	2	2.5
CO4	3	3	3	2	2.5	2	3	2	3	2.5	3	2.5
Average	3	2.75	2.5	2	2.25	2.5	2.5	1.75	3	2.5	2.25	2.25

Course Title: Research Methodology Course Code: MA/ECO/2/DSC19	Total Credits: 4	
	Theory Credits: 2 Time: 3 Hrs. Total marks: 50 External marks: 30 Internal marks: 20	Practical Credits: 2 Total marks: 50 Report on ROL: 30 Data collection: 10 Viva Voce marks: 10
Note for the paper Setter The question paper will consist of five questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each of the two units. The candidates are required to attempt two more questions at least one question from each unit.		
Course Outcomes		
CO1	Understanding the various types, objectives and characteristics of research in social Sciences. Also, students will know about selection of research problem.	
CO2	Students will be able to know about various types of hypothesis and ethics in social sciences.	
CO3	Students will learn the skill about to prepare the review of literature and various research design in social sciences.	
CO4	Understanding about the skill to collect the data from various sources through questionnaire/ Schedule etc.	
Unit-I (Theory) Research: Meaning, purpose, Significance and Types of Research. Social Research: Meaning, Characteristics, objectives and fundamental concepts of Social Research. Research Problem: Definition and Statement of the Problem, criteria techniques and precautions involved in detaining the problem.		
Unit-II (Theory) Hypothesis: Meaning, features, Significance, types, Sources and criteria of a Good Hypothesis Scientific Method: Meaning Characteristics stages and Limitations of scientific method. Problem of values, objectivity and ethical issues of Research in Social Sciences.		
Unit-III (Practical) Review of Related Literature: Meaning and Purpose. Presentation on exploring and locating the Sources of relevant literature. Presentation for analysing the reviewed literature. Prepare and submit a report on collected review. Research Design: Meaning, features, Need and types of Research Design. Experimental Design in Social Research.		
		

Unit-IV (Practical)

Practice to explore the various sources of secondary data, Presentation on various techniques of Primary data collection, Hands on to develop a questionnaire/schedule, Presentation of developed questionnaire/schedule, to collect and submit the fulfilled questionnaire/schedule assigned in the class.

Suggested Readings

Jain, B. M. (1995) *Research Methodology*, Research Publications (Hindi), Jaipur.

Kothari, C.R. (2002) *Research Methodology: Methods & Techniques* (2nd Ed.), WishwaPrakashk, New Delhi, (Reprint), 2002.

Pearsons, C.J. (1973) *Thesis & Project Work, A Guide to Research & Thesis Writing*, Allen & Unwin, London.

Thakur, D. (2003) *Research Methodology in Social Sciences*, Deep & Deep Publication, New Delhi.

Note: Students are required to prepare a report on review of literature. For this, topic will be finalized with consent of the concerned teacher. Students are required to appear in the viva-voce examination based on the report for which an external examiner will be appointed.

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/DSC19

Course Outcomes	PO 1	PO 2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.75	3	3	3	3	2.75	2.75	2	2.75	2.75	2.75	2.5
CO2	2.5	3	3	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.5
CO3	2.75	2.75	3	2.75	2.75	2.75	2.75	2	2.75	2.5	2.75	2.75
CO4	3	3	3	3	3	2.75	2.75	2.5	2.75	2.5	3	2.5
Average	2.75	2.94	3.00	2.81	2.81	2.75	2.75	2.31	2.75	2.63	2.81	2.56

Course Title: Labour Economics-II Course Code: MA/ECO/2/DSC20		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	To understand the issues in wage determination, productivity and efficiency.	
CO2	To analyze the issues in trade unionism and understand the labour legislation in context of industrial relations.	
CO3	To analyze the social security of workers and state policy in this context.	
CO4	To understand the specific issues of labour market like child labour, gender discrimination, labour reforms and globalization.	
Unit-I Non-wage component of labour remuneration; Productivity and wage relationship; National wage policy; Wages and Wage Boards in India; Bonus system and profit sharing.		
Unit-II Theories of labour movement – Growth, pattern and structure of labour unions in India, achievements of labour unions; Causes of industrial disputes and their settlement and prevention mechanism.		
Unit-III Role of tripartism; Current trends in collective bargaining; Role of judicial activism; labour legislation in India with special reference to the Trade Union Act 1923, Industrial Disputes Act 1947 and Factories Act 1948.		
Unit-IV State and social security labour – Concept of social security and its evolution; Review and appraisal of state policies with respect to social security and labour welfare in India. Special problems of labour; Child labour, female labour, discrimination and gender bias in treatment of labour; Labour market reforms – Exit policy, need for safety nets, measures imparting flexibility in labour markets; Globalization and labour markets.		
Reading List Breman, J. (1996). <i>Footloose Labour: Working in India's Informal Economy</i> . Cambridge University Press.		

- Desphande L.K. & Sandesara, J.C. (Eds.). (1970). *Wage Policy and Wages Determination in India*. Bombay University Press, Bombay.
- Deshpande, S., G. Standing & L.K. Deshpande (1998). *Labour Flexibility in a Third World Metropolis*. Commonwealth Publishers, New Delhi.
- Hajela, P.D. (1998). *Labour Restructuring in India: A Critique of the New Economic Policies*. Commonwealth Publishers, New Delhi.
- Hauseman, S. (1991). *Industrial Restructuring with Job Security*. Harvard University Press, Cambridge.
- Hicks J.R. (1932). *The Theory of Wages*. Clarendon Press, Oxford.
- Konig, H. (1990). *Economics of Wage Determination*. Springer Berlin Heidelberg.
- Madan, B.K. (1977). *The Real Wages of Industrial Workers in India*. Management Development Institute, New Delhi.
- Mazumdar, D. (1989). Micro-economic Issues of Labour Markets in Developing Countries (EDI Services Paper No. 40). World Bank, Washington D.C.
- Memoria, C.B. (1966). *Labour Problems and Social Welfare in India*. Kitab Mahal, Allahabad.
- MHRD, GOI (1987). *Shram Shakti: Report of the National Commission on Self-employed Women and Women Workers in the Informal Sector*. Ministry of Human Resources Development, New Delhi.
- Misra, L. (2000). *Child Labour in India*. Oxford University Press, New Delhi.
- Papola, T.S., Ghosh P.P. & Sharma, A.N. (Eds.). (1993). *Labour, employment and Industrial Relations in India*. B.R. Publishing Corporation, New Delhi.
- Punekar, S.D. (1978). *Labour Welfare, Trade Unionism and Industrial Relations*. Himalaya Publishing House, Bombay.
- Ratnam, C.S. Venkata (2001). *Globalization and Labour-Management Relations: Dynamics of Change*. Sage Publications/Response Books, New Delhi.
- Riveros, L. (1990). *Labour Market Policies and Labour Market Reforms in Socialist Economies*. World Bank, Washington D.C.
- Sach, J. (1990). Social Conflict and Populist Policies in Latin America. In R. Brunnetta and C.D. Aringa (Eds.), *Labour Relations and Economic Performance*. Macmillan, Basing Stoke.
- Singh V.B. (Ed.). (1970). *Industrial Labour in India*. Popular Prakashan, Bombay.
- Standing G. & Tokman, V. (Eds.). (1991). *Towards Social Adjustment*. ILO, Geneva.

CO-PO and CO-PSO Matrices for the Course MA/ECO/2/DSC20

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	2	2	3	2
CO2	3	3	2.5	2	3	1	2.5	-	3	2	2.5	2
CO3	2.5	2	2	3	2	1	2.5	-	3	3	2.5	2
CO4	3	3	2.5	3	3	1	2.5	-	3	2	3	2

Average	2.75	2.75	2.5	2.75	2.5	1	2.5	-	2.75	2.25	2.75	2
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Course Title: Economics of Infrastructure-II Course Code: MA/ECO/2/DSC21	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Understand and analyze the problems of water supply and telecom infrastructure and come out with some positive and normative solutions in these areas.
CO2	Understand, analyze and interpret the economics of energy, its management and pricing and coming out with some suggestive policies.
CO3	Understand the urbanization process and its economics and to further synthesize the knowledge of models to provide practical solutions to the problems of urbanization using appropriate tools.
CO4	Understand the development as well as problems of health infrastructure and its status in India along with knowing the inequality and institutional issues related with health sector.

Unit-I

Water Supply and Telecommunication

Water supply: Water utilities, urban and rural water supply; Telecommunication: Telecom reforms in India with a critique of national telecom policy; Relationship between TRAI, Department of telecom, and public and private operators; Role of telecom infrastructure in meeting needs of the economy and the IT sector.

Unit-II

Economics of Energy

Availability and Supply of Different Sources of Energy; Supply Constraints; Supply Scenario and Investment Requirements; Determinants of Energy Demand; Estimating Energy Demand; Price and Income Elasticity; Demand - Supply Gap; Need for Energy Demand Management; Renewable Energy Options; Methods and Principles of Energy Pricing

Unit-III

Theory of Urbanization

The Process of Urbanization- Nature and Dimensions; Clusters and Agglomeration; Sub-

urbanization; Christaller's Central Place Theory; Urban Economic Base and Urban Growth; The Human Ecological Approach to Urban Growth; City Size and Urban Growth; Urban Size: Ratchet-Rank Size Rule; Optimum City Size; Urban Spatial Structure - Features; Urban Residential Land Use Models: Von Thunen, Alonso, Muth, Siegel, Park Burgess.

Unit-IV

Economics of Health

Health and economic development; Determinants of Health – poverty, malnutrition, illiteracy and lack of information; Economic dimensions of health care – Demand and supply of health care; Financing of health care and resource constraints; Inequalities in health – class and gender perspectives; Institutional issues in health care delivery; Development of health infrastructure in Indian plans.

Reading List

- Athreya, M.B. (1996). India's telecommunications policy: a paradigm shift. *Telecommunications Policy*, 20(1), 11-22.
- Bish, Robert L. & Nourse, Hugh O. (1975). *Urban Economics and Policy Analysis*. McGraw Hill Kogakusha Ltd. Tokyo.
- Feldstein, M.S. (1967). *Economic Analysis of Health Services Efficiency: Econometric Studies of the British National Health Service*. Amsterdam: North Holland.
- Folland, S., Goodman, Allen C. & Stano, M. (2016). *The Economics of Health and Health Care*. Routledge, New York.
- Green, Colin (2003). *Handbook of Water Economics: Principles and Practice*. Wiley.
- Heilbrun, James (1981). *Urban Economics and Public Policy*. St Martin's Press, New York.
- Hirsch, W.E. (1973). *Urban Economic Analysis*. McGraw-Hill Book Company, New York.
- Munasinghe, M. & Meier, P. (1993). *Energy Policy Analysis and Modeling*. Cambridge University Press, U K.
- Morris, S., Devlin, N. & Parkin, D. (2007). *Economic Analysis in Health Care*. John Wiley & Sons Ltd., England.
- O' Sullivan, Arther (2007). *Urban Economics*. McGraw Hill Higher Education, Boston.
- Planning Commission, Government of India. Five Year Plan Documents (6th to 12th Plan). New Delhi.
- Richardson, H.W. (2013). *The New Urban Economics and Alternatives*. Routledge.
- Smith P.L. & Staple, G. (1994). Telecommunication sector reforms in Asia: towards a new pragmatism (World Bank discussion paper no. 232). World Bank, Washington D.C.

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/DSC21

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.9	2.7	2.9	2.9	2	1	2.9	.1	2.75	2.9	2.9	2.5
CO2	2.8	2.2	2.6	1.9	2.6	1	2.6	.7	2.6	2.4	2.7	2.1
CO3	2.7	2.4	2.4	2.7	2	1	2.5	.6	2.5	2.2	2.6	2

CO4	2.6	2.5	2.1	2.6	2.7	1	2.5	.8	2.7	2.1	2.2	2.4
Average	2.75	2.45	2.5	2.52	2.32	1	2.62	0.55	2.63	2.4	2.6	2.25

Course Title: Economy of Haryana-I1 Course Code: MA/ECO/2/DSC22	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Explain growth of social infrastructure in Haryana and analyze regional, social and gender disparities.
CO2	Discuss nature and magnitude of poverty, unemployment and emigration in Haryana.
CO3	Explain and analyze the evolution of planning and fiscal management in Haryana
CO4	Analyze various environment issues and policy framework and regulatory mechanisms to control pollution.

Unit – I

Social Infrastructure: Basic health indicators; Educational development; Factors of Educational transition; Current Issues in Education and health; Tendencies of Exclusion; Haryana’s Development Experience: Regional, Social and Gender Disparities; Human Development.

Unit – II

Poverty and Emigration: Nature and magnitude of poverty since 1966; Anti-Poverty Strategies; Economic inequality; nature and magnitude of unemployment since 1966; Factors for high rates of unemployment; Labour flexibility and labour policy; Trends and pattern of emigration; Problems of emigration; Economic impacts of emigration.

Unit – III

Planning and State Finance: Plan performance of the state; Plan performance of Local Self Governments; Decentralised Planning; Resource mobilization; Structure of revenue and expenditure of the state; Nature of fiscal crisis- its causes and consequences; State Finance Commissions; Fiscal Management in Haryana- a critical Appraisal.

Unit – IV

Environmental Issues: Sources of pollution-deforestation, soil erosion, air and water; Policy framework and regulatory mechanisms to control pollution; Waste management; Tourism and Environmental impact.

Reading List

Choudhary, D.R. (2007). *Haryana At Cross Roads: Problems and Prospects*. National Book Trust, India, New Delhi.

Department of Economic and Statistical Analysis. *Economic Survey of Haryana (various issues)*. Government of Haryana, Panchkula. Department of Economic and Statistical Analysis, Government of Haryana. *Economic Survey of Haryana (various issues)*. Panchkula.

Department of Economic and Statistical Analysis, Government of Haryana (2012). *Employment and Unemployment Situation in Haryana (Publication No. 1034)*. Retrieved from <http://esaharyana.gov.in/Portals/0/64-employment-and-unemployment-situation-in-haryana.pdf>

Department of Economic and Statistical Analysis, Government of Haryana. *Economic Survey of Haryana (various issues)*. Panchkula.

Department of Economic and Statistical Analysis, Government of Haryana. *An Analysis of State Finances (various issues)*. Panchkula.

Laxmi Narayan & Kaswan, Kavita Bhambu (2019). *Haryana Economy: Patterns, Potentials and Prospects*. White Falcon Publishing.

Planning Commission (2009). *Haryana Development Report*. Government of India, New Delhi.

Planning Commission (2009). *Haryana Development Report*. Government of India, New Delhi.

R. Irudaya, S. & Summeetha M. (Eds.). (2020). *Handbook of Internal Migration in India*. Sage Publications.

Singh, M. & Kaur, H. (2004). *Economic Development of Haryana*. Deep & Deep Publications.

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/DSC-22

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	2	2	3	2
CO2	2.5	3	3	2	3	1	2.5	-	3	2	2.5	2
CO3	3	2	2	3	2	1	2.5	-	3	2	2.5	2
CO4	3	3	3	3	3	1	2.5	-	3	2.5	3	2
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	2.75	2.12	2.75	2

Course Title: Economics of Gender & Development-II Course Code: MA/ECO/2/DSC23		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand and analyze structure of wages and determinants of wage differentials.	
CO2	Analyze the impact of technological development and modernization on women's work participation.	
CO3	Understand and explain gender specific ecological concerns.	
CO4	Review legislation for women's entitlements, protection of property rights and social security.	
Unit-I		
Wage Structure and Wage Differential Wage differential in female activities; Determinants of wage differentials: Gender, education, skill, productivity, efficiency, opportunity; Structure of wages across regions and economic sectors.		
Unit-II		
Technical Changes and Women Impact of technological development and modernization on women's work participation in general and in various sectors such as agriculture, non-agriculture rural activities, small and cottage industries and organized industry.		
Unit-III		
Latest Concerns & Developments and Women Female activities, ecological and environmental concern: the two way relationship - Role of new technologies for helping women – Provision of information and training for simple harvesting of economic services.		
Unit-IV		
Issues in Empowering Women Review of legislation for women's entitlements, protection of property rights, social security; Gender and development indices; Mainstreaming gender into development policies; Gender-planning techniques; Gender sensitive governance.		

Reading List

- Boserup, E. (1970). *Women's Role in Economic Development*. George Allen and Unwin, London.
- Desai, N. & Raj, M.K. (Eds.). (1979). *Women and Society in India*. Research Center for Women Studies, SNDT University, Bombay.
- Government of India (1974). *Towards Equality – Report of the Committee on the Status of Women in India*, Department of Social Welfare, Ministry of Education and Social Welfare, New Delhi.
- Krishnaraj, M., Sudarshan, R.M. & Shariff, A. (1999). *Gender, Population and Development*. Oxford University Press, New Delhi.
- Seth, M. (2000). *Women and Development: The Indian Experience*. Sage Publications, New Delhi.
- Srinivasan, K. & Shariff, A. (1998). *India: Towards Population and Development Goals*. Oxford University Press, New Delhi.
- Venkateswaran, S. (1995). *Environment, Development and the Gender Gap*. Sage Publications, New Delhi.
- Wazir, R. (2000). *The Gender Gap in Basic Education: NGOs as Change Agents*. Sage Publications, New Delhi.

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/DSC23

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	3	2	3	3
CO2	2.5	3	3	2	3	1	2.5	-	3	2	3	3
CO3	3	2	2	3	2	1	2.5	-	3	2	3	3
CO4	3	3	3	3	3	1	2.5	-	3	3	2	3
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3

Course Title: Business Correspondent and Business Facilitator-I		Total Credits: 4
Course Code: MA/ECO/2/SEC2		Time: 3 Hrs.
		Marks: 100
		External: 70
		Internal: 30
Note for the Paper Setter		
<p>The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.</p>		
Course Outcomes		
CO1	Learn about basic financial tools and techniques and attain technical knowledge about banking products and processes.	
CO2	Understanding the basic banking products and processes with government schemes.	
CO3	Understanding technical knowledge about banking products and processes, Assist with application process and develop learn to facilitate and/or execute cash or cashless transaction.	
CO4	Learn about on-going services, effective communication and maintain customer-centric service orientation. To have general discussion on maintaining integrity and ethics.	
Unit-I		
<p><i>Basic Financial Arithmetic:</i> Calculating percentage, simple and compound interest, rate of return of an investment; concepts of economy, finance and financial statements.</p> <p><i>Technical knowledge about banking products and processes:</i> Differentiation between various banking products (loans, deposits, etc.); Distinguish between various types of deposits; Description of various principles of lending for different loans (housing, vehicle, rural and personal loans)</p>		
Unit-II		
<p><i>Technical knowledge about banking products and processes:</i> Role, function and structure applicable to business correspondents; banking regulations that are applicable to business correspondents; Process for updation of records in the system; Government Schemes (Jan Dhan Yojana, Atal Pension Yojana and)</p>		
Unit-III		

Technical knowledge about banking products

and processes): Government Schemes (Sukanya Samruddhi Yojana, Ayushman Bima Yojana, Pradhan Mantri MUDRA Yojana, Pradhan Mantri Suraksha Bima Yojana and Pradhan Mantri Jeevan Jyoti Bima Yojana).

Assist with application process: Describe the process of account opening, application form and documentation;

Explain the list of documents required for KYC and their relevance (proof of income documents, proof of aged document and identity proof documents); Demonstrate filling an Account Opening Form; Summarize the areas of critical importance while filling of application form and documentation.

Facilitate and/or execute cash or cashless transactions: Describe the process for cash withdrawals and cash deposits with documents required for the transaction; explain the importance/relevance of recording transactions conducted on behalf of customers; explain the SOP for security procedures for handling cash / cheque transactions; demonstrate ways of handling queries related to cash / non-cash transactions with customer.

Unit-IV

Provide on-going services: Explain the importance of follow up visits for post-sales services and recovery of loan accounts; demonstrate the ways to handle queries and grievances related to regular banking transactions and loans; describe the process for updating address and nominee details in bank account, etc.

Communicate effectively and maintain customer-centric service orientation: Discuss the importance of gender sensitivity, culture and social factors w.r.t communication; explain the ways to handle irate customer and the process of escalating customer concerns; discuss the importance of maintaining clarity, honesty and transparency in dealing with customers and colleagues; demonstrate different types of voice modulation; discuss the importance of body language and its impact on communication

Maintain integrity and ethics: Describe code of conduct and business ethics; discuss rules and regulations of maintaining records and information security; demonstrate ways to avoid misrepresentation/misinformation about the organization; demonstrate ethical ways to create positive brand image of the organization.

Focus on teamwork: Discuss ways to develop healthy team environment; discuss ways to share relevant inputs, feedback and insights to build mutual trust; discuss ways to exchange, defend and rethink ideas; demonstrate support to team members to accomplish goals.

Reading List

Indian Institute of Banking and Finance (2018) *Inclusive Growth through Business Correspondent*, Taxmann Publication Pvt. Ltd., New Delhi.

Blackburn, A. C. (1965) *Pocket Book of Business Correspondent*, EVANS Brothers Ltd.

AIJECT Content Group (2017) *Business Correspondent and Business Facilitator*

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/SEC2

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.00	2.00	1.00	1.00	2.75	2.00	2.00	0.50	1.50	1.50	1.50	1.50
CO2	2.00	2.00	1.00	1.00	2.75	2.00	2.00	0.50	1.50	1.50	1.50	1.50
CO3	2.00	2.00	1.00	1.00	2.75	2.00	2.00	0.50	1.50	1.50	1.50	1.50
CO4	2.00	2.00	1.00	1.00	2.75	2.00	2.00	0.50	1.50	1.50	1.50	1.50
Average	2.00	2.00	1.00	1.00	2.75	2.00	2.00	0.50	1.50	1.50	1.50	1.50

M.A. Economics
3rd Semester

RPC

San

A. Singh

Kamlesh Kumar

Mang Prasad

Course Title: International Trade-I Course Code: MA/Eco/3/CC8	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Understand, explain, compare and critically evaluate the classical and neo classical trade theories.
CO2	Learn, compare and critically evaluate the new trade theories and their relevance in today's scenario.
CO3	Understand the theories of protection and develop the ability to appreciate the economic integration and its impacts.
CO4	Comprehend various models of balance of payment and analyze recent example of it.

Unit – I

The pure theory of international trade- Theories of absolute advantage, comparative advantage and opportunity costs, modern theory of international trade; Theorem of factor price equalization; Empirical testing of the theory of absolute cost and comparative cost-Heckscher-Ohlin theory of trade. Kravis and Linder theory of trade Role of dynamic factors, i.e. change in tastes, technology and factor endowments in explaining the emergence of trade.

Unit – II

The Rybczynski theorem-concept and policy implications of immiserizing growth; Causes of emergency and measurement of intra-industry trade and its impact on developing economies. Measurement of gains from trade and their distribution; Concepts of terms of trade, their uses and limitations for less developed countries; Trade as an engine of economic growth; welfare implications-empirical evidence and policy issues.

Unit – III

The theory of interventions (Tariffs, Quotas and non-tariff barriers); Economic effects of tariffs and quotas on national income, output, employment, terms of trade, income distribution and Balance of payments on trading partners both in partial and general equilibrium analysis. The political economy of non-tariff barriers and their implications;

Trade under imperfectly competitive market.

Unit – IV

Meaning and components of balance of payments; Equilibrium and disequilibrium in the balance of payments; The process of adjustment under system of gold standard, fixed exchange rates and flexible exchange rates; Expenditure-reducing and expenditure-switching policies and direct controls for adjustment; Policies for achieving internal and external equilibrium simultaneously under alternative exchange rate regimes; a critical review of the Absorption and monetary approaches to the theory of balance payment adjustment.

Reading List

- Alexander, S.S. (1959). Effects of Devaluation on Trade Balance. *American Economic Review*, 49, 21-42.
- Batra, R. N. (1973). *Studies in the Pure Theory of International Trade*. St. Martin's Press, August.
- Bhagwati, J. N. (1987). *International trade: Selected readings*. MIT Press, Cambridge.
- Ethier, W. J. (1995). *Modern International economics*. W.W. Norton & Co.
- Helpman, E. & Krugman, Paul R. (1989). *Trade policy and market structure*. The MIT Press.
- Heffernan, S. & Sinclair, P. (1991). *Modern International economics*. Wiley-Blackwell.
- Jhonson, H. (1958). *International trade & economic growth*. Harvard University Press, Cambridge.
- Kreinin, M.E. & Officer, L.H. (1981). *The Monetary Approach to the Balance of Payment: A Survey* (Princeton Studies in International Finance No. 43). Princeton University.
- Krugman, Paul R. (1994). *Rethinking international trade*. MIT Press.
- Lindert, P. H. & Pugel, T. A. (2008). *International Economics*. McGraw-Hill.
- McCallum, Bennett T. (1996). *International Monetary Economics*. Oxford University Press, New York.
- Stern, R.M. (2017). *The Balance of Payments: Theory and Economic Policy*. Routledge.
- Thirlwal, A.P (1999). *Balance of Payments Theory*. Oxford University Press, New York.
- Vernon, Raymond (1966). International Investment and International Trade in the Product Cycle. *Quarterly Journal of Economics*, 80(2), 190-207.

CO-PO and CO-PSO Matrix for the Course MA/Eco/3/CC8

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	2	3	3	2.5	3	2	-	3	3	3	2
CO2	3	2	3	3	3	2	2	-	3	3	3	2
CO3	3	2	3	3	2.5	3	3	-	3	3	3	2
CO4	3	2	3	3	3	3	3	-	3	3	3	2
Average	3	2	3	3	2.75	2.75	2.5	-	3	3	3	2

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Course Title: Political Economy of Development-I Course Code: MA/ECO/3/CC9		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand, explain and apply the different theories of cognition, root and growth of knowledge, truth and its Criterion along with the ability to think critically and analyze the prevailing conditions of society.	
CO2	Understand and able to analyze the basics of Idealism& Materialism, Metaphysics & Dialectics, Dialectical Materialism and Laws of Dialectics along with the ability to think critically and analyze the prevailing conditions of society.	
CO3	Familiar with mode of production and Social Superstructure and its elements, Historical Materialism, Fundamental law of Social Development, Economic laws and their utilization along with the ability to think critically and analyze the prevailing conditions of society.	
CO4	Understand the rise of private property and features of different stages of economic development along with the ability to think critically and analyze the prevailing conditions of society.	
Unit-I Theory of Cognition: Roots of the Knowledge and Growth of the knowledge. Truth and Its Criterion: Absolute and Partial Truth, Relativity of Truth and progress of truth.		
Unit-II Scientific Socialist World Outlook: Idealism& Materialism, Metaphysics & Dialectics. Dialectical Materialism: Laws of Dialectics, Transformation of quantitative into qualitative changes, Unity and Struggle, Negation of negation, Nature and role of contradictions.		
Unit-III Mode of production and Social Superstructure: Factors constituting and forces governing mode of Production, Social Superstructure and its elements. Dialectical interaction of base & Superstructure. Historical Materialism: Meaning of Historical Materialism, Fundamental law of Social		

Development, Economic laws and their utilization.

Unit-IV

Historical Social Formation: Rise of private property, Classes & the State

Distinguishing Features: Primitive Communism/ Society, Slavery, Feudalism/serfdom, Capitalism/ imperialism and Socialism/ communism.

Reading List

Andre Gunder Frank (1975)*On Capitalist Underdevelopment*, Oxford University Press, Delhi
Cornforth, Maurice (1971)*Dialectical Materialism*, National Book Agency Pvt. Ltd., Calcutta, 3rd edition

Eaton, John (1973): *Political Economy*, International Publishers, New York, revised edition.

Marx, Karl & F. Engels (1977): *Manifesto of the Communist Party*, Progress Publishers, Moscow, 2nd edition

Stalin, Joseph (1978)*Dialectical Materialism*, National Book Agency Pvt. Ltd., Calcutta.

Sweezy, Paul M. (1991): *The Theory of Capitalist Development*, K.P. Bagchi & Co., New Delhi, 1st Indian reprint.

V.I. Lenin (1978): *Imperialism: The Highest Stage of Capitalism*, Progress Publishers, Moscow, 17th ed., Chapters 1 to 10 or Lenin's Collected Works, Vol.22.

CO-PO and CO-PSO Matrix for the Course MA/ECO/3/CC9

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3.0	2.75	3.0	2.75	2.0	2.75	2.5	2.75	3	2.0	2.75	2.5
CO2	3.0	2.75	3.0	3.0	2.0	2.5	2.5	2.25	3	2.0	2.75	2.75
CO3	3.0	2.75	3.0	3.0	2.0	2.5	2.5	3	3	2.0	3	2.75
CO4	3.0	2.75	3.0	2.25	2.0	2.25	2.5	3	3	2.0	2.5	2
Average	3.0	2.75	3.0	2.75	2.0	2.5	2.5	2.75	3	2.0	2.75	2.5

Course Title: Agricultural Economics-I Course Code: MA/ECO/3/CC10		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand and analyze critically the agriculture sector linkages with economic development and become able to estimate the risks and uncertainties involved in agriculture.	
CO2	Comprehend, compare, evaluate and then present the various economic thoughts in context of agriculture namely Ancient, Hebrew, Greek, Roman, Medieval, Physiocratic and Classical.	
CO3	Understand and explain latest trends in Indian agriculture, challenges involved in agricultural productivity, price policy and marketing practices.	
CO4	Able to understand, present and measure unemployment and poverty in rural sector, gender inequity in agriculture, unequal income distribution and develop the ability to design adequate policies in this regard.	
Unit-I Agriculture and Economic Development Agricultural Economics – Definition, Nature and Scope; Role of Agriculture in Economic Development; Inter-Sectoral Linkages of Agriculture (Backward & Forward Linkages and Feedback Effects); Role of Agriculture in Haryana and Indian Economy; Farming as a business or way of life; Risks and Uncertainties in Agriculture.		
Unit-II Evolution of Agricultural Economic Thoughts Ancient Economic Thought and Agriculture: Hebrew Economic Thought; Greek Economic Thought – Socrates, Plato, Aristotle; Roman Economic Thought; Medieval Economic Thought and Agriculture – St. Augustine; Physiocrats and Agriculture; Classical Economic Thought and Agriculture.		
Unit-III Issues in Indian Agriculture Indian Agriculture: Features, Problems and Trends; Agricultural Productivity in India –		

Causes of low productivity and Suggestions to increase productivity in India; Agricultural Price Policy: origin, objectives, need, instruments, shortcomings and suggestions for Re-orientation of Agricultural Price Policy in India; Agriculture Marketing in India; Agricultural Development and Five Year Plans.

Unit-IV

Rural Unemployment and Poverty

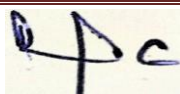
Rural Unemployment: Nature, Magnitude, Causes and Suggestions to solve unemployment problem; Problems and Measures to improve the conditions of Agricultural Labourers; Rural Poverty; Inequalities in income distribution; Gender inequity in agriculture; Concept of Poverty Line and Measures to eradicate Poverty in India.

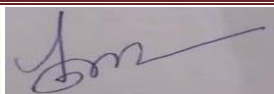
Reading List

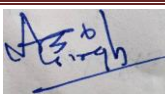
- Bathla, S., Joshi, P.K. & Kumar, A. (2020). *Agricultural Growth and Rural Poverty Reduction in India – Targeting Investments and Input Subsidies*. Springer.
- Bhalla, G.S. & Singh, G. (2012). *Economic Liberalisation and Indian Agriculture – A District Level Study*. Sage Publications India Pvt. Ltd., New Delhi.
- Nath, G.B. (1998). *Problems of Agricultural Labour: A Case Study of Orissa*. Classical Publishing Company, University of Michigan.
- Sridhara, S., Nagachaitnya, B., Chakravarthy, A.K., Nagamani, M.K. & Prabhakara Shetty, T.K. (Eds.). (2009). *Women in Agriculture & Rural Development*. New India Publishing Agency.
- Tripathy, S. N. (2000). *Contractual Labour in Agricultural Sector*. Discovery Publishing House.

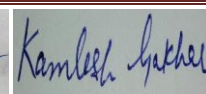
CO-PO and CO-PSO Matrix for the Course MA/ECO/3/CC10

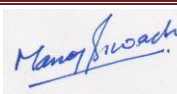
Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	3	2	3	3
CO2	2.5	3	3	2	3	1	2.5	-	3	2	3	3
CO3	3	2	2	3	2	1	2.5	-	3	2	3	3
CO4	3	3	3	3	3	1	2.5	-	3	3	2	3
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3











Course Title: Public Economics Course Code: MA/Eco/3/CC11	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Understand, explain and apply the concept of efficiency along with various solutions of market failure, concept of merit and public goods, provision of public goods and different models.
CO2	Understand and able to analyze the concept of public expenditure and public debt, different theories of public expenditure and burden controversy of public debt.
CO3	Understand the economic implications of various taxes along with their critical analysis thereby attain in-depth knowledge of theories, postulates based on taxation, tax elasticity, tax buoyancy, tax effort and excess burden and thus become able to design an efficient and equitable taxation system.
CO4	To become familiar with the concept of budget and fiscal federalism.

Unit-I

Market failure and Public Good: Market Failure and Rationale for Government Intervention; Imperfections and Market failure; Externalities- Nature, Types and their Internalization; Private Goods, Merit goods and Public Goods, Efficient Provision of Public Goods; Bowen Model, Lindahl Model; Samuelson Model; Lindahl - Wicksell Mechanism; Theory of Club Goods.

Unit-II

Public Expenditure: Meaning and Classification; Wagner's Law of Increasing State Activities; Wiseman-Peacock Hypothesis; Canons and Effects of Public Expenditure
Public debts: Meaning and Sources of Public Debt; Effects of Public Debt; Burden Controversy of Public Debt – Classical Theory, Modern Theory and Buchanan Thesis; Public Debt Management and Redemption of Public Debt'

Unit-III

Public revenue: Tax and Non-Tax Revenue, Direct and Indirect Taxes, Incentive Effects of Taxation on Labour Supply, Savings, Risk Taking and Investment; Tax Incidence – Partial and General equilibrium Analysis; Optimal Commodity Tax- The Ramsey Rule; Excess

Burden of Tax and its Measurement; Concepts of Tax Elasticity, Tax Buoyancy and Tax Effort.

Unit-IV

Budgeting: Meaning and Purpose of Budget; Types or Classification of Budget, Budget Making Process in India; Measures of Budget Deficit and their Significance

Theory of Fiscal Federalism: The Decentralization Theorem; Assignment Issues in Multi-Level Government; Tiebout Model; Centre-State Fiscal Relations in India & Fiscal Sector Reforms in India.

Reading List

- Akerlof, G. (1970) The Market for `Lemons': Quality Uncertainty and the Market Mechanism. *Quarterly Journal of Economics*, **84**(3): 488-500.
- Ayres, I. & Levitt, Steven D. (1998) Measuring Positive Externalities from Unobservable Victim Precaution: An Empirical Analysis of Lojack. *Quarterly Journal of Economics*, **113**(1): 43-77.
- Boadway, R. (1984) *Public Sector Economics*, Cambridge Winthrop Publishers.
- Coase, R. (1960) The Problem of Social Cost, *Journal of Law and Economics*, 3: 1-44.
- Jha, Raghendra (1999) *Modern Public Economics*, Rotledge, London.
- Harberger, A. (1962) The Incidence of the Corporation Income Tax, *Journal of Political Economy*, 70: 215-240.
- Hillman, A. L. (2009) *Public Finance and Public Policy*, Cambridge University Press.
- Ihori, Toshihiro (2016) *Principles of Public Finance*, Springer.
- Leach, John (2004) *A Course in Public Economics*, Cambridge University Press.
- Musgrave, R.A, *Theory of Public Finance*, McGraw Hill
- Srivastava D. K. (ed.) (2000), *Fiscal Federalism in India*, Har-Anand Publication Ltd., New Delhi.

CO-PO and CO-PSO Matrix for the Course MA/Eco/3/CC11

Course Outcomes	PO 1	PO 2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.75	2.25	2.75	2.75	2.75	2.5	2.5	1	3	2.75	2.75	2.75
CO2	2.75	3.0	2.75	2.75	2.75	2.5	2.5	1	2.5	2.5	2.75	2.5
CO3	3.0	3.0	3.0	2.75	2.5	2.75	2.25	1	3	2	3	2.75
CO4	2.5	2.75	2.25	2.75	2.0	2.25	2.75	1	2.5	2.75	2.5	2
Average	2.75	2.75	2.75	2.75	2.5	2.5	2.5	1	2.75	2.5	2.75	2.5

Course Title: Econometrics -I Course Code: MA/ECO/3/DSC25		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Able to estimate and interpret linear regression models..	
CO2	Explain the problems that arise when the assumptions of linear regression model are not valid.	
CO3	Develop solutions to the problems that results from violating the assumptions	
CO4	Understand the tools of econometrics and applying them in practice	
Unit-I		
Introduction to Econometrics Nature and meaning of econometrics; Difference between mathematical economics, statistics; an econometrics; Goals of econometrics; classical linear regression model (two variable) Sources of disturbance terms, assumption and their significance, least square estimators and their properties/ Guassmarkov* theorem.		
Unit-II		
Multiple Regression Analysis General linear regression model: Definition, assumptions, least squares estimation, Gauss markov's theorem testing significance of regression coefficients, concepts of R^2 and adjusted R^2 .		
Unit-III		
Econometric Problems Problems of multicollinearity, autocorrelation and heteroscedasticity; Nature, consequences, test and remedies (proofs not required)		
Unit-IV		
Simple Applications of Least Square Estimation Estimation of consumption function, Cobb-Douglas and CES production-functions, Estimation of semi-log and double log function; simple and compound rates of growth.		

Reading List

- Gujarati, D.N. (1995). Basic Econometrics. McGraw Hill, New Delhi.
- Johnston J. (1991). Econometric Methods. McGraw Hall Book Co. London.
- Kmenta J. (1998). Elements of Econometrics. University of Michigan Press, New York
- Koutsoyiannis, A. (1977). Theory of Econometrics. The Macmillan Press Ltd. London.
- Madhani, G.M.K. (2004). Introduction to Econometrics: Principles and Applications. Oxford•& IBH Publishing Co. Pvt. Ltd. New Delhi.
- Amemiya, T. (1985). Advanced Econometrics. Harvard University Press, Cambridge, Mass.
- Baltagi, B.H. (1988). Econometrics. Springer, New York.
- Goldberger, A.S. (1998). Introductory Econometrics. Oxford University Press, New York.
- Gujarati, D.N. (1995). Basic Econometrics. McGraw Hill, New Delhi.
- Johnston J. (1991). Econometric Methods. MC Graw Hall Book Co. London.
- Kmenta J. (1998). Elements of Econometrics. University of Michigan Press, New York.
- Intrilligator, M.D. (1978).Econometric Methods, Techniques and Applications. Prentice Hall Englewood Cliffs, New Jersey.
- Koutsoyiannis, A. (1977). *Theory of Econometrics*. The Macmillan Press Ltd. London.
- Maddala G.S. (Ed.) (1993). *Econometric Methods and Application*. Aldershot U.K.
- Theil H. (1981).Introduction to Econometrics. Prentice Hall of India, New Delhi.

CO-PO and CO-PSO Matrix for the Course MA/ECO/3/DSC25

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	3	3	3	2	2	2.5	-	3	2	2	2
CO2	3	3	3	2	3	2	2.5	-	3	2	2	2
CO3	3	2	3	2	2	2	2.5	-	3	3	2.5	2
CO4	3	3	3	3	3	2	2.5	-	3	3	2.5	2
Average	3	2.75	3	2.5	2.5	2	2.5	-	3	2.5	2.25	2

Course Title: Welfare Economics-I Course Code: MA/ECO/3/DSC26	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Understand the different ways to measure welfare changes for individuals and know how to aggregate them.
CO2	Understand how to construct models and use general equilibrium analysis. Comprehend and identify the main economic factors and indicators affecting the level of individual welfare and welfare state.
CO3	Be able to properly interpret compensated welfare changes and know how they relate to actual welfare changes typically isolated in demand-supply diagrams.
CO4	Understand the welfare economic foundation of public policies.

Unit-I

Introduction to Welfare Economics

Scope and Purpose of Welfare Economics; Positive or normative science; Assumption of Uniform Income; Utility Function of Individuals; Marginal Productivity Theory of Income Distribution; Elasticity of Factor Substitution; Technological Progress and Income Distribution; Value judgements and welfare economics; Benthamite Approach to Aggregate Welfare.

Unit-II

Marshallian Welfare Economics

Consumer's Surplus - Measurement, Difficulties involved and Criticism.

Hicks's Surpluses

Concept of Consumer's Surplus; Principle of Compensating Variation; Consumer's Surplus and Tax-Bounty Analysis.

Unit-III

Optimum Resource Allocation and Welfare Maximization

Pareto optimality – Optimum exchange conditions, The production optimum, The consumption optimum, Concept of contract curve; Pareto optimality and perfect competition; First and Second Fundamental Theorems of Welfare Economics.

Unit-IV

Fairness/Equity and Welfare Economics

Economic Justice: Utilitarian Approach (Harsanyi); Libertarian View (Nozick); Rawlsian Theory of Justice; Amartya Sen's Approach to Economic Justice; Bergson's social welfare function; Compensation criteria –Contributions of Barone, Kaldor and Hicks.

Reading List

Boadway, R.W. & Neil, B. (1991). *Welfare Economics*. Wiley.

Feldman, A. M. & Serrano, R. (2006). *Welfare Economics and Social Choice Theory*. Springer.

Johansson, Per-Olov (1991). *An Introduction to Modern Welfare Economics*. Cambridge University Press.

Little, I.M.D. (2002). *A critique of Welfare Economics*. Oxford University Press.

Sen, Amartya (1997). *Choice, Welfare and Measurement*. Harvard University Press.

CO-PO and CO-PSO Matrix for the Course MA/ECO/3/DSC26

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	3	2	3	3
CO2	2.5	3	3	2	3	1	2.5	-	3	2	3	3
CO3	3	2	2	3	2	1	2.5	-	3	2	3	3
CO4	3	3	3	3	3	1	2.5	-	3	3	2	3
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3

Course Title: Industrial Economics-I Course Code: MA/ECO/3/DSC27		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Learn the scope and breadth of industrial economics and able to use the tools of economic analysis and the classical theory of markets in the analysis of organizations.	
CO2	Comprehend, compare and present the theories of industrialization and location along with their technical applications.	
CO3	Understand market structure-conduct-performance and appreciate the concept of sellers' concentration along with its measurement using adequate techniques.	
CO4	Understand and then able to present the concepts of industrial productivity and efficiency along with measurement using analytical tools.	
Unit-I Industrial Organization and Theories of the Firm Meaning and scope of industrial economics; Industrial organization and ownership structure – public, private, joint and co-operative sectors; Objectives of the firm; Theories of the firm: Neoclassical theory, Managerial Theories, Coasian firm and transaction cost approach, Strategic and knowledge based theories.		
Unit-II Theories of Industrialization and Industrial Location Theories of Industrialization – Hoffman, Chenery and Gershenkron; Theories of industrial location – Weber, Sargent and August Losch theories, Hotelling's location model, Salop's location model; Factors affecting location; Balanced regional development of industries.		
Unit-III The Structure-Conduct-Performance Paradigm The structural conduct performance approach; Relationships between structure, conduct & performance; Neoclassical developments of the SCP approach; Sellers concentration and its measurement: the concentration ratio, the Lorenz curve; Product differentiations – its sources and its implications, Entry conditions; Economies of Scale; Market structure and profitability;		

Market structure and innovation – Process and measurement.

Unit-IV

Industrial Productivity and Efficiency

Industrial Productivity – measurement and determinants; Industrial efficiency– concept and measurement; Efficiency conditions in the theory of production: constrained output maximisation, constrained cost minimisation, profit and revenue maximization; Efficiency and decision-making process.

Reading List

Bains, J. S. (1996). *Industrial Organization*. Cheltenham, U. K.

Barthwal, R. R. (1985). *Industrial Economics*. Wiley Eastern Ltd., New Delhi.

Kamien, M. T. & Schwartz, N. L. (1982). *Market Structure and Innovation*. Cambridge University Press, Cambridge.

Lipczynski, J., Wilson, J.O.S. & Goddard, J.A. (2016). *Industrial Organisation: Competition, Strategy and Policy*. Pearson.

CO-PO and CO-PSO Matrix for the Course MA/ECO/3/DSC27

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	3	2	3	3
CO2	2.5	3	3	2	3	1	2.5	-	3	2	3	3
CO3	3	2	2	3	2	1	2.5	-	3	2	3	3
CO4	3	3	3	3	3	1	2.5	-	3	3	2	3
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3

Course Title: Behavioural Economics-I Course Code: MA/ECO/3/DSC28		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand, communicate and solve applications of the behavioural decision theory and the theory of rational choice under certainty and uncertainty.	
CO2	Critically evaluate the preference models and understand the human behavior under ambiguous situations.	
CO3	Demonstrate an understanding of time factor in behavioural models and explain/solve applications of biased preferences.	
CO4	Understand and formulate strategies for human choice in behavioral economics using game theory.	
Unit-I		
Behavioral Decision Theory: Human Choice under uncertainty; Behavioural models of Decision Making- Rank Dependent Utility Theory, Prospect Theory; Applications of Behavioural Decision theory.		
Unit-II		
Models of Ambiguity and Preferences: Human Behaviour under Ambiguity; Human Sociality; Preferences models; Incentives and Preferences.		
Unit-III		
Behavioural Time Discounting: Temporal Human Choice; Behavioural Models of Time Discounting; Applications of Present Biased Preferences.		
Unit-IV		
Strategic Human Choice: Mixed Strategy Nash Equilibria; Coordination Games; Bargaining Games; Asymmetric Information and Signaling; Strategic complements and Strategic Substitutes.		
Reading List Angner, Erik (2016). <i>A Course in Behavioral Economics</i> . Palgrave Macmillan. Dhami, Sanjit (2016). <i>The Foundations of Behavioral Economic Analysis</i> . Oxford University		

Press.

CO-PO and CO-PSO Matrix for the Course MA/ECO/3/DSC28

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	3	2	3	3
CO2	2.5	3	3	2	3	1	2.5	-	3	2	3	3
CO3	3	2	2	3	2	1	2.5	-	3	2	3	3
CO4	3	3	3	3	3	1	2.5	-	3	3	2	3
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3

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Course Title: Economics of Insurance-I Course Code: MA/Eco/3/DSC-30	Theory Credits: 2 Time: 2 Hrs. Marks: 50 External: 30 Internal: 20	Practical Credits:2 Time: 3 Hrs. Marks: 50 End Term: 30 Practical Record: 10 Viva Voce: 10
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Note for the paper Setter

The question paper will consist of five questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each of the two units. The candidates are required to attempt two more questions at least one question from each unit.

Course Outcomes

CO1	Identify and quantify client needs and determine appropriate Insurance Product, Sell life insurance policies to individuals.
CO2	Sell General Insurance products to individuals and/or nonindividuals, Determine policy premium, charges, collect all requisite documents and receive the applicable payment.
CO3	Respond to any queries/ requirements. Assess client investment and suggest changes if applicable.
CO4	Provide service while ensuring that the business relationship is sustained without a lapse until the policy results into a claim or when a policy matures or is surrendered by client. Assist the client in claim or settlement process

Unit-I (Theory)

Basics of Insurance: Insurance's works and advantages, Concept of primary risk, secondary risk and risk management, principle of Risk pooling, concept and calculation of premium, Differentiate between Life and General Insurance, Money Laundering and its use in insurance and Anti-Money Laundering (AML).

Basic Financial Arithmetic: Calculate percentages, Simple Interest, Compound Interest, Rates of Return, Present Value of a sum receivable in future, Future Value of amount available today given a current rate of interest, Future value using monthly compounding; quarterly compounding; half yearly compounding and annual compounding. Calculate Present Value of an Annuity and Future Value of an Annuity.

Unit-II (Theory)

Basics of Life Insurance: Concept of Life Insurance, Human Life Value and Mortality, Level premium, Significance and important clauses of Life Insurance Contract, Financial Planning, Life insurance products, Purpose, advantages and disadvantages of traditional life insurance products like term plan & endowment plan and non-traditional life insurance products like ULIP, riders on insurance products, advantages of Married

Women's Property (MWP) Act, features and benefits of Keyman insurance, concept of group insurance and its benefits, Healthcare products, riders, package policy and their benefits, Micro insurance and health insurance for poorer sections and schemes like Rashtriya Swasthya Bima Yojana and Pradhan Mantri Suraksha Bima Yojana. Overseas travel insurance, Pricing and valuation in life insurance products, tax benefits involved in life insurance, KYC, documentation and application procedure for life insurance products, underwriting, types of claims and claims procedure, IRDA's Regulatory aspects and code of conduct, Grievance redressal mechanism.

Unit-III (Practical)

Source insurance clients: Learn how to identify client segment for insurance products, Decipher the process of selling insurance to new and existing customers, Learn the art of approaching potential clients through various methods, Acquire the skills required to narrow down the need of the customer, Learn how to present the product to the customer as a solution to their need and close the sale, Learn how to assess client's financial status (income, dependents etc.) and determine extent of present coverage and investment, Understand how to chalk out an invest plan for the customer towards his invest needs.

Unit-IV (Practical)

Sales Skills: Interpret the sales process consisting of Planning, Execution, Monitoring and Review, understand how to create a database, Learn the process of cold calling, Practice customer calls, learn how to generate leads, Discover the process and advantages of prioritizing Leads, visualise how to obtain appointments, Understand the process of meeting the customer, Discover the process of narrowing down upon the need of the customer. Learn how to offering the right solution and close the call, look at the grooming standards & Etiquettes to be followed.

Reading List

- Abraham, K.S. (1995). *Insurance Law and Regulation: Cases and Materials*. Westbury NY: The Foundation Press.
- Beard, R.E., Pentikainen, T., & Pesonen, E. (1984). *Risk Theory: The Stochastic Basis of Insurance*. London: Chapman and Hall
- Dionne, G. & Harrington, S.E. (Ed.). (1997). *Foundations of Insurance Economics*. Kluwer academic Publishers, Boston.
- Mishra, M.N. & Mishra, S.B. (2016). *Insurance: Principles and Practice*. S. Chand Publishing, New Delhi.
- Zweifel, Peter & Eisen, Roland. (2012). *Insurance Economics*. Springer.

Note: Students are required to prepare a practical file. For this, topics will be assigned by the teacher covering the whole syllabus. Students are required to appear in the viva-voce examination based on the syllabus for which an external examiner will be appointed. It will have a weightage of 2 Credit.

CO-PO and CO-PSO Matrix for the Course MA/ECO/3/DSC30

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	2.5	3	2	2	1	2.5	-	2	2.5	3	2.5
CO2	3	3	2	2	3	1	2.5	-	2.5	3	2.5	2
CO3	3	2	2.5	3	2	1	2.5	-	3	2	2.5	2.5
CO4	3	3	3	2.5	3	1	2.5	-	3	2.5	3	2.5
Average	3	2.62	2.62	2.37	2.5	1	2.5	-	2.62	2.5	2.75	2.37

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Course Title: Business Correspondent and Business Facilitator-II Course Code: MA/ECO/3/SEC3		Total Credits: 2 Time: 3 Hrs. Marks: 50 External : 30 Internal : 20
Note for the paper Setter The question paper will consist of five questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each of the two units. The candidates are required to attempt two more questions at least one question from each unit.		
Course Outcomes		
CO1	Learn about basic financial tools and techniques and Technical knowledge about banking products and processes.	
CO2	Understanding the basic banking products and processes with government schemes.	
CO3	Understanding technical knowledge about banking products and processes, Assist with application process and Facilitate and/or execute cash or cashless transaction.	
CO4	Learn about on-going services, how to communicate effectively and maintain customer- centric service orientation, how to maintain integrity and ethics.	
Unit-I		
<i>Basic financial arithmetic:</i> Calculate percentage, Calculate simple interest and compound interest, Calculate rate of return of an investment. Explain the concepts of economy, finance and financial statements.		
<i>Technical knowledge about banking products and processes:</i> Differentiation between various banking products (loans, deposits, etc.); Distinguish between various types of deposits; Description of various principles of lending for different loans (housing, vehicle, rural and personal loans)		
Role, function and structure applicable to business correspondents; Banking regulations that are applicable to business correspondents; Process for updation of records in the system;		
<i>Government Schemes:</i> Jan Dhan Yojana, Atal Pension Yojana, Sukanya Samriddhi Yojana, Ayushman Bima Yojana, Pradhan Mantri MUDRA Yojana, Pradhan Mantri Suraksha Bima Yojana and Pradhan Mantri Jeevan Jyoti Bima Yojana		
<i>Source new customers:</i> Describe the ways to segment prospective customers according to demographics for the area assigned, Explain ways to approach prospective customers		
Unit-II		
<i>Source new customers:</i> Explain ways to ascertain customer needs and suggest appropriate products based on needs. Explain features, terms and conditions of product to customer.		

Explain the application process with timelines

Assist with application process: Describe the process of account opening, application form and documentation. Explain the list of documents required for KYC and their relevance: Proof of income documents; Proof of age document; Identity proof documents. Demonstrate filling an Account Opening Form. Summarize the areas of critical importance while filling of application form and documentation.

Facilitate and/or execute cash or cashless transactions: Describe the process for cash withdrawals and cash deposits with documents required for the transaction. Explain the importance/relevance of recording transactions conducted on behalf of customers. Explain the SOP for security procedures for handling cash / cheque transactions. Demonstrate ways of handling queries related to cash / non-cash transactions with customer.

Provide on-going services: Explain the importance of follow up visits for post-sales services and recovery of loan accounts. Demonstrate the ways to handle queries and grievances related to regular banking transactions and loans. Describe the process for updating address and nominee details in bank account, etc.

Communicate effectively and maintain customer-centric service orientation: Discuss the importance of gender sensitivity, culture and social factors w.r.t. communication. Explain the ways to handle irate customer and the process of escalating customer concerns. Discuss the importance of maintaining clarity, honesty and transparency in dealing with customers and colleagues. Demonstrate different types of voice modulation. Discuss the importance of body language and its impact on communication.

Reading List

Indian Institute of Banking and Finance (2018) *Inclusive Growth through Business Correspondent*, Taxmann Publication Pvt. Ltd., New Delhi.

Blackburn, A. C. (1965) *Pocket Book of Business Correspondent*, EVANS Brothers Ltd.

AIJECT Content Group (2017) *Business Correspondent and Business Facilitator*

CO-PO and CO-PSO Matrix for the Course MA/ECO/2/SEC3

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.00	2.00	1.00	1.00	2.75	2.00	2.00	0.50	1.50	1.50	1.50	1.50
CO2	2.00	2.00	1.00	1.00	2.75	2.00	2.00	0.50	1.50	1.50	1.50	1.50

CO3	2.00	2.00	1.00	1.00	2.75	2.00	2.00	0.50	1.50	1.50	1.50	1.50
CO4	2.00	2.00	1.00	1.00	2.75	2.00	2.00	0.50	1.50	1.50	1.50	1.50
Average	2.00	2.00	1.00	1.00	2.75	2.00	2.00	0.50	1.50	1.50	1.50	1.50

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Kamlesh Kumar

Mang Prasad

M.A. Economics
4th Semester

RPC

Dr

A. Singh

Kamlesh Kumar

Mang Prasad

Course Title: International Trade-II Course Code: MA/Eco/4/CC12	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Understand, explain and present various approaches of International Monetary system.
CO2	Understand Economic Integration in various countries and their recent experiences.
CO3	Learn and explain macro adjustment policies in an open economy framework.
CO4	Understand and analyze the working of International Financial Management and Institutions

Unit-I

International Monetary System: Rise and fall of gold standard, Bretton-Wood system and after collapse monetary system, Need, Adequacy and determinants of international reserves; Conditionality clause of IMF; Emerging International Monetary System with special reference to Post Maastricht developments and developing countries; Reforms of the International Monetary System; Optimum currency Areas-Theory and impact in the developed and developing countries.

Unit-II

Economic Integration-Theory of Customs Union; Concept forms, problems and benefits of economic integration, Partial and general equilibrium analysis and dynamic effects of Custom union, Integration experiences-European Union, BRICS, NAFTA, ASEAN, Multilateral trade negotiations-the GATT rounds, UNCTAD and evolution of world trading arrangements, World Trade Organization and fair trade-Development Round, Trade Facilitation, Trade War.

Unit-III

Open Economy Adjustment Policies: Internal and external balance; Swan Diagram, Assignment Problem; Expenditure Switching and changing policies; Mundell-Fleming Model-Combining monetary and fiscal policies; Implications of Impossible Trinity in the

Indian Context.

Unit-IV

International Financial Management and Institutions: Meaning, classification, role and factors influencing of International Capital Movements, Foreign Aid, FDI and Portfolio Investment; Role, effects and regulations of MNCs in India, Evolutionary and Operational developments in International Institutions: IMF, IDA, ADB. Sub-Prime lending Global Economic Crisis.

Reading List

- Alexander, S.S. (1959). Effects of Devaluation on Trade Balance. *American Economic Review*, 49, 21-42.
- Kreinin, M.E. & Officer, L.H. (1981). *The Monetary Approach to the Balance of Payment: A Survey* (Princeton Studies in International Finance No. 43). Princeton University.
- McCallum, Bennett T. (1996). *International Monetary Economics*. Oxford University Press, New York.
- Stern, R.M. (2017). *The Balance of Payments: Theory and Economic Policy*. Routledge.
- Thirlwal, A.P (1999). *Balance of Payments Theory*. Oxford University Press, New York.
- Batra, R. N. (1973). *Studies in the Pure Theory of International Trade*. St. Martin's Press, August.
- Bhagwati, J. N. (1987). *International trade: Selected readings*. MIT Press, Cambridge.
- Ethier, W. J. (1995). *Modern International economics*. W.W. Norton & Co.
- Heffernan, S. & Sinclair, P. (1991). *Modern International economics*. Wiley-Blackwell.
- Jhonson, H. (1958). *International trade & economic growth*. Harvard University Press, Cambridge.
- Lindert, P. H. & Pugel, T. A. (2008). *International economics*. McGraw-Hill.
- Helpman, E. & Krugman, Paul R. (1989). *Trade policy and market structure*. The MIT Press.
- Krugman, Paul R. (1994). *Rethinking international trade*. MIT Press.
- Vernon, Raymond (1966). International Investment and International Trade in the Product Cycle. *Quarterly Journal of Economics*, 80(2), 190-207.

CO-PO and CO-PSO Matrix for the Course MA/Eco/4/CC12

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	2	3	3	2.5	3	2	-	3	3	2	2
CO2	3	2	3	3	3	2	2	-	3	3	2	2
CO3	3	2.5	2	2.5	2.5	3	3	-	3	3	3	2
CO4	3	2.5	2	2.5	3	3	3	-	3	3	3	2
Average	3	2.25	2.5	2.75	2.75	2.75	2.5	-	3	3	2.5	2

Course Title: Political Economy of Development-II Course Code: MA/Eco/4/CC13		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand, explain and apply the different concepts of Marxian Political Economy such as commodity production, use value, exchange value, law of value, surplus value, organic composition of capital and rate of profit along with the ability to think critically and analyze the prevailing conditions of society.	
CO2	Understand and analyze the process of Capitalism in Agriculture and Nature and process of Development along with the ability to think critically and analyze the prevailing conditions of society.	
CO3	Understand and analyze the nature of capitalistic crisis, development of monopoly capitalist and role of banks along with the ability to think critically and analyze the prevailing conditions of society.	
CO4	To become familiar with the concept of Imperialism, Law of uneven Development under Imperialism along with the ability to think critically and analyze the prevailing conditions of society.	
Unit-I Marxian Political Economy: Commodity Production: Use Value, Exchange Value, Labour and Law of Value, Commodity Fetishism. Basic Concepts: Capitalistic Class, Working Class or Proletariat & Merchant Capital. Surplus Value: Origin of Surplus Value, Components and rate of Surplus Value, Organic Composition of Capital, Rate of Profit.		
Unit-II Analysis of Capitalistic Agriculture: Capitalism in Agriculture and its essence, Effect of Capitalism on Agriculture. Its limitations and contradictions. Nature and process of Development: Capital Accumulation, Simple and Expanded reproduction, Process of Capitalist Reproduction.		

Unit-III

Capitalistic Crisis: Nature of Capitalistic Crisis: Simple Commodity Production and Crisis, Say's law, types of Crisis, Falling tendency of rate of Profit.

Development of Monopoly Capitalist: Concentration and Centralization of Capital, Corporations, Cartels, trust & mergers, the role of banks.

Unit-IV

Imperialism: meaning of Imperialism, Law of uneven Development under Imperialism, Socialization of productive forces and sharpening of imperialist contradictions.

Imperialism as the last stage of Capitalism, Limits of Imperialism.

Reading List

Eaton, J. (1973): Political Economy, International Publishers, New York, Revised Edition.

Junankar, P.N. (1983) Marx's Economics, Heritage Publishers, New Delhi.

Marx, K. & F. Engels (1977): Manifesto of the Communist Party, Progress Publishers, Moscow, 2nd edition

Maurice Cornforth (1971): Dialectical Materialism, National Book Agency, Pvt.Ltd., Calcutta, 3rd edition

Nikitin, P. (1966): Fundamentals of Political Economy, Progress Publisher, Moscow. 2nd edition.

Stalin, J. (1978): Dialectical Materialism, National Book Agency, Pvt. Ltd., Calcutta.

Sweezy, P. M. (1991): The Theory of Capitalist Development, K.P. Bagchi & Co., New Delhi, 1st Indian reprint.

CO-PO and CO-PSO Matrix for the Course MA/ECO/4/CC13

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3.0	2.75	3.0	2.75	3.0	2.75	2.5	2.75	3.0	2.75	2.75	2.75
CO2	3.0	2.75	3.0	2.75	3.0	2.75	2.5	2.75	3.0	2.75	2.75	2.75
CO3	3.0	2.75	3.0	2.75	3.0	2.75	2.5	2.75	3.0	2.75	2.75	2.75
CO4	3.0	2.75	3.0	2.75	3.0	2.75	2.5	2.75	3.0	2.75	2.75	2.75
Average	3.0	2.75	3.0	2.75	3.0	2.75	2.5	2.75	3.0	2.75	2.75	2.75

Course Title: Agricultural Economics -II Course Code: MA/ECO/4/CC14		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand, analyze and present the concepts of agricultural production functions and factor - product relationships using the tools of micro economics.	
CO2	Understand, critically analyze and present the nature, importance and sources of agricultural credit along with the role of financial institutions dealing with agricultural credit in India.	
CO3	Comprehend, compare, critically analyze and able to present the various theories and models of agricultural development.	
CO4	Attain in-depth understanding of the burning issues in Indian agriculture including liberalization of agricultural trade; implications of WTO and sustainable development; and food security in context of international trade.	
Unit-I Agricultural Production and Its Diversification: Agricultural Production- Stock and Flow Resources, Production Relationships, Resource use and efficiency; Production Functions analyses in agriculture; Factor Relationships – Iso-quant and Iso-cost Line, Optimum Combination; Product Relationships – Joint Products, Competitive Products, Supplementary Products and Antagonistic Products; Diversification of Agricultural Production – Horticulture and Floriculture, Mushroom Cultivation and Processing of Agricultural Products.		
Unit-II Rural Finance: Role of capital and rural credit; Organized and unorganized capital market; Rural savings and capital formation; Characteristics and Sources of rural credit – Institutional and non-institutional; Reorganization of rural credit – cooperatives, commercial banks, regional rural banks; Role of the NABARD.		
Unit-III Theories of Agricultural Development: Schultz’s Transformation of Traditional Agriculture; Mellor’s Model of Agricultural Development; Boserup Model of Agriculture		

Development; Ranis – Fie Model of Agriculture Development; Hayami - Ruttan Induced Innovation Hypothesis.

Unit-IV

Agriculture and External Sector: Issues in liberalization of domestic and international trade in agriculture; Impact of the World Trade Organization on Indian Agriculture; Agriculture and Environment– Sustainable Development; Food Security and International Trade – Concept, Threat, Indicators and Mechanism to Food Security.

Reading List

- Ahuja, S. & Jaggi, P. (2017). Mashroom: Scope and future in India. *Kurukshetra – A Journal on Rural Development*, 65(6), 40-44.
- Gautam, H.R. & Kaushal, R. (2017). Horticulture: The growth engine for agriculture sector. *Kurukshetra – A Journal on Rural Development*, 65(6), 5-9.
- Rawat, S. (2017). Floriculture: Potential source of farmer's income. *Kurukshetra – A Journal on Rural Development*, 65(6), 45-47.
- Sharma, A.K., Wahab, S. & Srivastava, R. (2010). *Agriculture Diversification: Problems and Perspectives*. I.K. International Publishing House Pvt. Ltd., New Delhi.
- Thakur, A.K. & Padmadeo, K.B. (2008). *Growth and Diversification of Agriculture*. Deep & Deep Publications Pvt. Ltd., New Delhi

CO-PO and CO-PSO Matrix for the Course MA/ECO/4/CC14

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	3	2	3	3
CO2	2.5	3	3	2	3	1	2.5	-	3	2	3	3
CO3	3	2	2	3	2	1	2.5	-	3	2	3	3
CO4	3	3	3	3	3	1	2.5	-	3	3	2	3
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3

Cardinal Principles of Academic Integrity and Publications Ethics Course Code: MA/ECO/4/CC15		Total Credits: 2 Time: 2 Hrs. Marks: 50 External : 30 Internal : 20
Note for the paper Setter The question paper will consist of five questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each of the two units. The candidates are required to attempt two more questions at least one question from each unit.		
Course Outcomes		
CO1	Academic Integrity, Plagiarism (prevention and detection) and UGC regulations	
CO2	Research and Publications ethics and best practices	
Unit-I		
Academic Integrity: Introduction, Academic Integrity Values-Honesty and Trust, Fairness and Respect, Responsibility and Courage, Violations of Academic Integrity-types and consequences, Plagiarism -definition, Plagiarism arising out of misrepresentation-contract cheating, collusion, copying and pasting, recycling, Avoiding Plagiarism through referencing and writing skills, UGC Policy for Academic Integrity and prevention, Some Plagiarism detection tools		
Unit-II		
Research and Publication ethics: Scientific misconducts- Falsifications, Fabrication and Plagiarism (FPP), Publication ethics-definition, introduction and importance, Best practices/standard setting initiatives and guidelines-COPE, WAME etc., Violation of publication ethics, authorship and contributor-ship, Identification of publications misconduct, complains and appeals, Conflicts of Interest, Predatory publisher and journals,		
References Books/Papers: MacIntyre A (1967) A short History of Ethics, London Chaddah P (2018) <i>Ethics in Competitive Research: Do not get Scooped; Do not Get Plagiarized</i> . ISBN: 978-9387480865 National Academy of Sciences, National Academy of Engineering and Institute of Medicine (2009) <i>On being a Scientist: A guide to Responsible Conduct in Research</i> , Third Edition. National Academics press. Resnik D. B. (2011) <i>What is Ethics in Research & Why is it Important</i> , National Institute of Environmental Health Sciences: 1-10.		

Beall, J. (2012). Predatory publishers are corrupting open access, *Nature*, 489 (7415), 179.

Indian National Science Academy (INSA), *Ethics in Science Education, Research and Governance* (2019). ISBN: 978-81-939482-1-7.

UGC, (2018) *Regulations for Promotion of Academic Integrity and Prevention of Plagiarism in Higher Educational Institutes*.

Ulrike Kestler, *Academic Integrity*, Kwantlen Polytechnic University.

CO-PO and CO-PSO Matrix for the Course MA/ECO/4/CC15

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	2.0	2.0	1.5	1.5	2.0	2.0	2.75	1.5	1.5	1.5	4.5
CO2	2.5	2.0	2.0	1.5	1.5	2.0	2.0	2.75	1.5	1.5	1.5	4.5
Average	2.5	2.0	2.0	1.5	1.5	2.0	2.0	2.75	1.5	1.5	1.5	4.5

Course Title: Econometrics II Course Code: MA/ECO/4/DSC31	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Understand and explain the nature of dynamic econometric model..
CO2	Comprehend and apply qualitative response regression models
CO3	Construct, test, and analyze econometric models, using variables and relationships commonly found in economic theory.
CO4	Learn and explain various concepts in Time Series econometrics and economic forecasting.

Unit-I

Dynamic Econometric Models-Distributed Lag Models and Causality Tests:

Autoregressive and distributed lag models - Koyck Model, Adaptive expectation and Partial Adjustment approaches for rationalization of Koyck models, Estimation of Autoregressive models, Granger causality and ergogeneity.

Unit-II

Dummy variable Regression Models: The Nature of Dummy variable, caution in the use of Dummy variables, ANOVA MODELS with two qualitative variables, ANCOVA MODELS, The use of Dummy variables in seasonal analysis and Interaction Effects.

Unit-III

Simultaneous equations model:The simultaneous equation bias and inconsistency of OLS estimators; The identification problem; Rules of identification - Order and rank conditions (statement only), Methods of estimating simultaneous equation system: Indirect Least squares (ILS), 2 SLS (Two stage least squares).

Unit-IV

Time series Econometrics: Key concepts - stochastic process; stationarity and non stationarity process, purely random process, Random walk models, co-integration, Integrated variables, Deterministic and stochastic trends and unit root.

Techniques of forecasting - ARMA, ARIMA Models, Box jenkins methodology.

Reading List

- Gujarati, D.N. (1995). Basic Econometrics. McGraw Hill, New Delhi.
- Johnston J. (1991). Econometric Methods. McGraw Hall Book Co. London.
- Kmenta J. (1998). Elements of Econometrics. University of Michigan Press, New York
- Koutsoyiannis, A. (1977). Theory of Econometrics. The Macmillan Press Ltd. London.
- Madnani, G.M.K. (2004). Introduction to Econometrics: Principles and Applications. Oxford•& IBH Publishing Co. Pvt. Ltd. New Delhi.
- Amemiya, T. (1985). Advanced Econometrics. Harvard University Press, Cambridge, Mass.
- Baltagi, B.H. (1988). Econometrics. Springer, New York.
- Goldberger, A.S. (1998). Introductory Econometrics. Oxford University Press, New York.
- Johnston J. (1991). Econometric Methods. MC Graw Hall Book Co. London.
- Intrilligator, M.D. (1978).Econometric Methods, Techniques and Applications. Prentice Hall Englewood Cliffs, New Jersey.
- Koutsoyiannis, A. (1977). *Theory of Econometrics*. The Macmillan Press Ltd. London.
- Maddala G.S. (Ed.) (1993). *Econometric Methods and Application*. Aldershot U.K.
- Theil H. (1981).Introduction to Econometrics. Prentice Hall of India, New Delhi.

CO-PO and CO-PSO Matrix for the Course MA/ECO/4/DSC31

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	3	3	3	2	2	2.5	-	3	2	2	2
CO2	3	3	3	2	3	2	2.5	-	3	2	2	2
CO3	3	2	3	2	2	2	2.5	-	3	3	2.5	2
CO4	3	3	3	3	3	2	2.5	-	3	3	2.5	2
Average	3	2.75	3	2.5	2.5	2	2.5	-	3	2.5	2.25	2

Course Title: Welfare Economics-II Course Code: MA/ECO/4/DSC32		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Be exposed to the applied welfare and public economics literatures and be able to relate the two literatures using conventional welfare economics tools.	
CO2	Demonstrate the knowledge and understanding about the significance of intervention of government and other institution in order to regulate externalities, public goods and to design the tax.	
CO3	Interpret the fundamental welfare theorems. To enable students to assess policy issues with reference to criteria that is drawn from welfare economics.	
CO4	Understanding the motivations of public intervention in the economy and how the collectivity can take into account objectives of equity and efficiency to make public choices and supply goods and services.	
Unit-I Social Welfare: The Scitovsky double criterion; Samuelson's utility possibility curve; Choice Functions and Revealed Preference; Social Choice; Social Welfare Function; Arrow's Impossibility Theorem.		
Unit-II Efficiency and State Intervention: Pigovian tax and subsidy; Divergence between private and social costs; Externalities of production and consumption; Problem of public goods; The Role of The State; Second-best optima.		
Unit-III Approaches to Welfare Analysis: Marginal cost pricing; Cost-benefit analysis; Welfare Analysis of Risky Projects; The Value of Information and Irreversible Consequences; Welfare Theory and International Trade.		
Unit-IV Public Choice: Collective decision making and voting rules; Voting and median voter		

model; Rent seeking, Lobbying and corruption; Fiscal policies and taxation; Local public goods; Market failure vs. Government failure.

Reading List

Boadway, R.W. & Neil, B. (1991). *Welfare Economics*. Wiley.

Feldman, A. M. & Serrano, R. (2006). *Welfare Economics and Social Choice Theory*. Springer.

Johansson, Per-Olov (1991). *An Introduction to Modern Welfare Economics*. Cambridge University Press.

Little, I.M.D. (2002). *A critique of Welfare Economics*. Oxford University Press.

Sen, Amartya (1997). *Choice, Welfare and Measurement*. Harvard University Press.

CO-PO and CO-PSO Matrix for the Course MA/ECO/4/DSC32

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	3	2	3	3
CO2	2.5	3	3	2	3	1	2.5	-	3	2	3	3
CO3	3	2	2	3	2	1	2.5	-	3	2	3	3
CO4	3	3	3	3	3	1	2.5	-	3	3	2	3
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3

Course Title: Industrial Economics-II Course Code: MA/ECO/4/DSC33		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand, compare and analyse various product pricing methods along with their merits and limitations.	
CO2	Comprehend, compare and able to present various project evaluation criteria and understand both theoretical as well as empirical evidence about mergers and acquisitions.	
CO3	Getting familiar with various aspects of Industrial policy in India along with key issues, challenges and its appropriateness.	
CO4	Understand and present in detail the technical aspects of firms' advertising decisions making based on different models.	
Unit-I Methods of Product Pricing Cost-oriented methods: Mark-up, cost-plus, Break-even, target return pricing; Market-oriented Methods: Going-rate pricing, Premium pricing, Discount pricing, Sealed-bid Pricing; Peak-Load Pricing; Multi-Product Pricing; Predatory pricing; Pricing of a new product: Skimming and Penetration pricings; Non-Linear Pricing Practices: Price Discrimination.		
Unit-II Project Evaluation and Theories of Mergers Methods of project evaluation; Risk & uncertainties in project appraisal; NPV v/s IRR; Theories and empirical evidence on Mergers and Acquisitions (M & A's) and diversification; Mergers and the Valuation; Discrepancies Hypothesis; Mueller's Model of Conglomerate Mergers; Corporate Governance Mechanisms.		
Unit-III Industrial Policy Industrial Policy in India – evolution and paradigm shift; Recent trends in Indian industrial growth; National manufacturing Policy; MNCs, transfer of technology and issues related with TRIMS; Competition policy; Industrial sickness; Exit policy; Role of BIFR.		

Unit-IV

Advertising Decisions of Firm

The Advertising Decision: Marginalistic, Profit-Maximising Models of The Advertising Decision; Buchanan's Advertising-Price Model; Schmalensee's Model of Oligopoly Advertising; A Managerialist Model of Advertising: The Baumol-Hawkins, Bushnell-Kafoglis Static Model; A Model of Advertising Barriers: Williamson's Model of Advertising as an Entry; Prevention Strategy; Effects of Advertising.

Reading List

Bains, J. S. (1996). *Industrial Organization*. Cheltenham, U. K.

Barthwal, R. R. (1985). *Industrial Economics*. Wiley Eastern Ltd., New Delhi.

Hay, D. & Morris, D. J. (1979). *Industrial Economics: Theory and Evidence*. Oxford University Press, New Delhi.

Koutsoyiannis, A. (1982). *Non-Price Decisions: The Firm in a Modern Context*. The Macmillan Press Ltd., London.

Smith, D. M. (1971). *Industrial Location: An Economic and Geographic Analysis*. John Wiley, New York.

Symeonidis, George (1999). *Industrial Economics*. University of London Study Guide (SG).

CO-PO and CO-PSO Matrix for the Course MA/ECO/4/DSC33

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	3	2	3	3
CO2	2.5	3	3	2	3	1	2.5	-	3	2	3	3
CO3	3	2	2	3	2	1	2.5	-	3	2	3	3
CO4	3	3	3	3	3	1	2.5	-	3	3	2	3
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3

Course Title: Behavioural Economics-II Course Code: MA/ECO/4/DSC34		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand, explain and apply the behavioural and psychological game theory, cognitive models and theory of auctions in real life situations.	
CO2	Theoretically understand and explain learning models, emotions and happiness and their interrelationship in behavioural economics.	
CO3	Demonstrate an understanding of heuristics, bounded rationality and mental accounting along with the ability to apply them to real life situations.	
CO4	Understand and explain the role of behavioural economic theories in financial markets as well as in welfare economics.	
Unit-I		
Models of Behavioural Game Theory Quantal Response Equilibrium (QRE); Cognitive Hierarchy Models; Psychological game Theory; Behavioural economics of Auctions.		
Unit-II		
Learning and Emotions Reinforcement learning; Belief based models of learning; Rule based learning; Emotions and Human Behaviour; Projection bias; Temptation preference; Happiness economics; Interaction between emotions and cognition.		
Unit-III		
Judgement heuristics Law of small numbers; Herbert Simon approach to bounded rationality; Mental Accounting.		
Unit-IV		
Bounded rationality in financial markets; Behavioural welfare economics.		
Reading List Angner, Erik (2012). <i>A Course in Behavioral Economics</i> . Palgrave Macmillan. Dhami, Sanjit (2016). <i>The Foundations of Behavioral Economic Analysis</i> . Oxford		

CO-PO and CO-PSO Matrix for the Course MA/ECO/4/DSC34

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.5	3	3	3	2	1	2.5	-	3	2	3	3
CO2	2.5	3	3	2	3	1	2.5	-	3	2	3	3
CO3	3	2	2	3	2	1	2.5	-	3	2	3	3
CO4	3	3	3	3	3	1	2.5	-	3	3	2	3
Average	2.75	2.75	2.75	2.75	2.5	1	2.5	-	3	2.25	2.75	3

Course Title: Economics of Insurance-II Course Code: MA/ECO/4/DSC36	Total Credits: 4	
	Theory Credits: 2 Time: 2 Hrs. Marks: 50 External: 30 Internal: 20	Practical Credits:2 Time: 3 Hrs. Marks: 50 End Term: 30 Practical Record: 10 Viva Voce: 10

Note for the paper Setter

The question paper will consist of five questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each of the two units. The candidates are required to attempt two more questions at least one question from each unit.

Course Outcomes

CO1	Identify and quantify client needs and determine appropriate Insurance Product, Sell life insurance policies to individuals.
CO2	Sell General Insurance products to individuals and/or nonindividuals, Determine policy premium, charges, collect all requisite documents and receive the applicable payment.
CO3	Respond to any queries/ requirements. Assess client investment and suggest changes if applicable.
CO4	Provide service while ensuring that the business relationship is sustained without a lapse until the policy results into a claim or when a policy matures or is surrendered by client. Assist the client in claim or settlement process

Unit-I (Theory)

Basics of General Insurance: Concept of General insurance, Health Insurance products, documents related Health Insurance, Health Insurance Underwriting, General insurance products like, vehicle insurance, home insurance, travel insurance and marine insurance, Insured Declared Value, General Insurance Contract significance and important clauses, pricing and valuation in general insurance products, tax benefits involved, KYC, documentation and application procedure for general insurance products, types of claims and claims procedure, IRDA, Regulatory aspects, code of conduct and Grievance redressal mechanism.

Unit-II

Maintain Integrity and Ethics: Refrain from indulging in unfair trade and/or corrupt

practices, maintain records meticulously, protect customer's information, protect data and information related to business or commercial decisions, avoid misrepresentation or misinformation, Demonstrate and practice ethics in day-to-day processes, avoid defaming products and services of competition.

Focus on teamwork: Share relevant inputs, feedback and insights to build mutual trust, Exchange, defend and rethink ideas, Support team members to accomplish goals, facilitate group decision making and deal productively with conflict.

Unit-III (Practical)

Assist in processing insurance applications

Learn to calculate premium and other charges for the product selected by the client, Learn the application process to ensure that the requisite application form is completely filled by the client and requisite documents and charges are obtained, Learn about the after sales activities, Practice Application form filling, Identify correct and complete documents to be collected. **Provide post-policy services:** Learn how to build a rapport with the customer, Be well versed with product knowledge to advise the customer on monitoring their policy, Learn how to analyse insurance policies to suggest additions/changes to the client.

Unit-IV (Practical)

Assist in processing claims: Be hands-on with the claim process for each insurance product, Learn the documentation to be obtained during claim process, Understand the operational procedure of the claim process to advise the customer, Be thorough with the process of surrender of a policy. **Communicate effectively and achieve customer satisfaction:** Learn the art of active listening and paraphrasing effectively in order to understand the customer, Understand the effects of factors like language, gender, cultural and social differences in addressing customers, superiors and colleagues, Learn how to maintain a positive attitude, correct body language, dress code, gestures and etiquette, Understand work output requirements, and receive feedback with positive attitude, Cooperate, coordinate, and collaborate to achieve shared goals, Address problems by educating, eliminating or escalating, Learn the advantages of customer loyalty and satisfaction.

Note for Practicals:

Students are required to prepare a practical file. For this, topics will be assigned by the teacher covering the whole syllabus. Students are required to appear in the viva-voce examination based on the syllabus for which an external examiner will be appointed.

Reading List

- Abraham, K.S. (1995). *Insurance Law and Regulation: Cases and Materials*. Westbury NY: The Foundation Press.
- Beard, R.E., Pentikainen, T., & Pesonen, E. (1984). *Risk Theory: The Stochastic Basis of Insurance*. London: Chapman and Hall

- Dionne, G. & Harrington, S.E. (Ed.). (1997). *Foundations of Insurance Economics*. Kluwer academic Publishers, Boston.
- Mishra, M.N. & Mishra, S.B. (2016). *Insurance: Principles and Practice*. S. Chand Publishing, New Delhi.
- Zweifel, Peter & Eisen, Roland. (2012). *Insurance Economics*. Springer.

CO-PO and CO-PSO Matrix for the Course MA/ECO/4/DSC36

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	2.5	3	2	2	1	2.5	-	2	2.5	3	2.5
CO2	3	3	2	2	3	1	2.5	-	2.5	3	2.5	2
CO3	3	2	2.5	3	2	1	2.5	-	3	2	2.5	2.5
CO4	3	3	3	2.5	3	1	2.5	-	3	2.5	3	2.5
Average	3	2.62	2.62	2.37	2.5	1	2.5	-	2.62	2.5	2.75	2.37

APC

San

Asish

Kamlesh Kumar

Manoj Prasad

Course Title: Computer Application in Economics Course Code: MA/Eco/4/SEC4	Total Credits: 4 Practical Credits:4
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Practical Course Components:	Weightage (4 Credits)	Evaluation
Experiment (Including Written Test)	50 (2 Credits)	Internal
Evaluation of Practical File	25 (1 Credit)	Internal/External
Viva-voce	25 (1 Credit)	Internal/External

Note: Experiment consists at least ten practical experiments, written test and two assignments covering the topics of the syllabus. Students are required to prepare a practical file. For this, topics will be assigned by the teacher covering the whole syllabus. Students are required to appear in the viva-voce examination based on the syllabus for which an external examiner will be appointed.

Course Outcomes

CO1	Students will be able to learn Computer skills in Finance.
CO2	Students will be able to learn Computer skills in Commerce.
CO3	Students will be able to learn SPSS skills.
CO4	Students will be able to learn Statistical techniques skills.

Unit-I

IT Application to Finance: Authentication and validation of transaction processing; Debit Cards, Credit Cards, Smart Cards, Electronic Funds Transfer, ATM, On Line Banking and On-Line Shopping, Electronic Payment System.

Unit-II

IT Application to Commerce: Internet, Intranet, Extranet, LAN, MAN, WAN, WWW, E-Mail, Search Engines; Computer Networking and recourse sharing.

E-Commerce: Meaning and scope of E-Commerce, E –Business; E-Commerce Vs. Traditional Commerce; Business Models of E-Commerce B2B, B2C, C2B and G2B.

Unit-III

SPSS-1: Introduction to SPSS, Some basic commands and data entry defining variables, Statistical processing Techniques and Methods: Summarizing and analysis of data; Descriptive Statistics; Comparison of means median, mode dispersion, Kurtosis and Skewness. Correlation and Regressing analysis; Estimation of Growth Rates. An overview of Techniques used in Research: Univariate, Bivariate and Multivariate analysis; Trends Forecasting; testing the significance of parameters.

Unit-IV

SPSS-11: Hypothesis various test of hypotheses and use of SPSS for testing of hypotheses, Correlation and Regressing analysis; Estimation of Growth Rates. An overview of Techniques used in Research: Univariate, Bivariate and Multivariate analysis; Trends Forecasting; testing the significance of parameters.

Reading List

Parameswaranm R. (2010). *Computer Applications in Business*. S. Chand and Company, New Delhi.

Sudalaimuthu, S. and Anthony Raj S. (2015). *Computer Applications in Business*. Himalaya Publishing House, New Delhi.

Rajaraman, V. (2015). *Fundamentals of Computers*. Prentice Hall of India, New Delhi.

P.T. Joseph, S.J. (2015). *E- Commerce: An Indian Perspective*. PHI Learning, New Delhi.

Goel, Sushil. (2006). *Computer Application to Business & E-Commerce*. Natraj Publishing House, Karanl.

Ahlawat Surender (2020). *Computer Application in Economics*. Kindle Direct Publishing. Seattle, Washington. USA.

David Whiteley. (2006). *E-Commerce: Strategy, Technologies and Applications*. Tata McGraw Hill, New Delhi.

Note: Students are required to prepare a practical file. For this, topics will be assigned by the teacher covering the whole syllabus. Students are required to appear in the viva-voce examination based on the syllabus for which an external examiner will be appointed.

CO-PO and CO-PSO Matrix for the Course MA/ECO/4/SEC4

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	2	2	2	2.5	3	2	2	2	2	2	2
CO2	3	2	2	2	2.5	2	2	2	2	2	2	2
CO3	3	3	3	2	2.5	3	3	-	3	3	2	3
CO4	3	3	3	2	2.5	3	3	-	3	3	3	3
Average	3	2.5	2.5	2	2.5	2.75	2.5	1.5	2.5	2.5	2.25	2.5

Open Elective Courses

Course Title: Economic Theory Course Code: MA/ECO/9/OEC1	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.	
Course Outcomes	
CO1	Familiar with the scope and breadth of Micro Economics along with understanding the core principles of demand and supply so that they are able to apply the understanding of these concepts to comprehend real world problems along with the ability to think critically and analyze economic problems.
CO2	Understanding the core principles of production and costs so that they are able to apply the understanding of these concepts to comprehend real world problems along with the ability to think critically and analyze economic problems.
CO3	Know the scope and breadth of Macro Economics along with understanding the concept national income, equilibrium, multiplier, MEC and accelerator so that they are able to apply the understanding of these concepts to comprehend real world problems along with the ability to think critically and analyze economic problems.
CO4	Identify the phases of the business cycle/inflation and the problems caused by cyclical fluctuations in the market economy, Monetary policy and Fiscal policy along with the ability to reflect on how economic shocks affect aggregate economic performance in the short and long term.
Unit-I Nature and scope of Microeconomics: Difference/relation between micro and macro economics, Role of Assumptions in economic theory. Demand and Supply Function: Law of demand, assumptions, applicability and criticism. Factors affecting demand. Law of supply, factors affecting supply. Consumer Behavior: Cardinal approach, ordinal approach: indifference curve theory, budget line, and consumer's equilibrium.	

Unit-II

Factors of production: Types and need, Characteristics of labour and land. Production Function: Short-run and long-run production functions, Cost Curves: short-run and long-run traditional and modern cost curves.

Unit-III

Macro economics: Scope and features. Aggregate demand and aggregate supply, National income: concepts, measurement, difficulties in calculating national income. Concepts of equilibrium, multiplier, accelerator and marginal efficiency of capital.

Unit-IV

Business cycle: concept, characteristics and phases of business cycle. Fiscal and monetary policy.

Inflation: Concepts, types, causes, effects and measures to control the inflation.

Reading List

Ackley, G (1978), *Macroeconomics: Theory and Policy*, Macmillan, New York.

Banson, W.A. (1989), *Macroeconomic Theory and Policy, (3rd Edition)*, Harper and Row, New York.

Dorn Busch, R. and f. Stanley (1997), *Macroeconomics*, McGraw Hill, Inc. New York.

Heijdra, B.J. and V. P. Fredericck (2001), *Foundation of Modern Macroeconomics*, Oxford University Press, New Delhi.

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

Koutsoyiannes. A. "*Microeconomics*" (Macmillan)

Lipsey, R.G. and Chrysal, K. Alec "An Introduction to Positive Economics" (OUP)

Salvatore, D. "Microeconomics Theory" (Schaum's Outline series, TataMcCraw Hill)

Shapiro, E. (1996), *Macroeconomics Analysis*, Galgotia Publication, New Delhi.

CO-PO and CO-PSO Matrix for the Course MA/ECO/9/OEC1

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3.0	2.75	2.75	3.0	2.5	2.25	2.5	1	3	2.75	2.5	2.5
CO2	3.0	2.5	2.75	2.5	2.5	2.25	2.5	1	3	2.75	3.0	2.5
CO3	3.0	2.75	2.75	3.0	2.5	2.25	2.5	1	3	2.75	2.75	2.5
CO4	3.0	3.0	2.75	2.5	2.5	2.25	2.5	2	3	2.75	2.75	2.5
Average	3.0	2.75	2.75	2.75	2.5	2.25	2.5	1.25	3	2.75	2.75	2.5

Course Title: Issues of Economic Development		Total Credits: 4
Course Code: MA/ECO/9/OEC2		Time: 3 Hrs.
		Marks: 100
		External: 70
		Internal: 30
Note for the Paper Setter		
The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO 1	Understand and analyze the nature of growth & development with a view to measure and mark its trajectory.	
CO 2	Able to understand and analyze various economic problems in the context of Indian economy and create the ability to measure the extent of problems and how to remove them.	
CO 3	Understand the historical perspective of scientific outlook of sociological thought.	
CO 4	To understand the evolution of various stages of economic development.	
Unit-I		
Concept of Economic Development: Economic development vs. economic growth, importance of economic development. Obstacles to economic development: Economic and non economic factors and measures to break vicious circles. Determinants of development: Economic, non-economic and external forces. Measuring development: PQLI and HDI.		
Unit-II		
Inequality and Poverty: concept, measuring inequality, measuring poverty, characteristics of poverty groups, measures for alleviation of poverty, inequality and unemployment.		
Unit-III		
Scientific Socialist World Outlook: World outlook, Idealism and materialism, Metaphysics and dialectics, Laws of dialectics.		
Unit-IV		
Distinguishing features of Primitive Communism/ society, Slavery, Feudalism/serfdom, Capitalism/imperialism and Socialism/communism.		
Reading List		
Meir, G. M.(1995), <i>Leading Issues in Economic Development</i> , Oxford University Press, New Delhi.		
Mishra S.K. and V.K. Puri, <i>Economics of Development and Planning</i> , Himalaya, Publishing House, Mumbai		

Todaro, M. P. *Economic Development*, Latest Edition, Longman, London.

ThirlwalA.P.(2003), (6th Edition),*Growth and Development*, seventh Edition, Macmillan, New York.

Karl Marx & F. Engels (1977): *Manifesto of the Communist Party*, Progress Publishers, Moscow, 2nd edition, pp. 34-74.

Joseph Stalin (1978): *Dialectical Materialism*, National Book Agency, Pvt. Ltd., Calcutta, pp.5 to 48.

Maurice Cornforth (1971): *Dialectical Materialism*, National Book Agency, Pvt.Ltd. ,Calcutta, 3rd edition, Vol. 1, Chs. 2-9, Vol. II, Chs. 3-10.

John Eaton (1973): *Political Economy*, International Publishers, New York, revised edition, Chs. 2-11.

Hogendorn, J. (1996), *Economic Development*, Addison, Wesley, New York.

CO-PO and CO-PSO Matrix for the Course MA/ECO/9/OEC2

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.7	2	2	2.9	2.9	1	2.7	.1	2.9	2.5	2.7	2.5
CO2	2.6	2.7	2	2.5	2.8	1.7	2.1	.7	2.6	2.5	2.5	2.7
CO3	2.4	2.5	2.8	2.1	2.4	2.2	2.5	.6	2.4	2.7	2.2	2.5
CO4	2.5	1.9	2.2	2.2	2.8	2	2.4	.4	2.2	2.4	2.4	2.5
Average	2.57	2.27	2.25	2.42	2.75	1.72	2.42	0.04	2.52	2.52	2.45	2.55

Course Title: Indian Economy: Issues; Outlook and Prospects Course Code: MA/ECO/9/OEC3		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Peep into the history of India's economic development and critically evaluate the progressive realization of Indian economy.	
CO2	To understand the development of Agriculture and interdependence of industry and agriculture in India.	
CO3	To understand the role of industrial development in India.	
CO4	To understand the importance of foreign trade in developing economy.	
Unit-I		
Basic characteristics of the Indian economy as developing Economy Major issues of development, Indian economy in the pre-British period, Economic consequences of British conquest. Decline of Indian Handicrafts and progressive Realization of the Indian economy. Commercialization of agriculture Post Green Revolution.		
Unit-II		
Interdependence of agriculture and industry Agricultural Economics: Its scope and nature, Difference between the agriculture and industry, Role of agriculture in economic development, contributions of industry to the development of agriculture, Interdependence of agriculture and industry, agricultural price policy for developing countries		
Unit-III		
Industry and Economic Development Role of the Industrialization & Pattern of the Five year plan. Role of small scale industries in Indian Economy. Privatizations, liberalization and globalization. Its impact on Indian economy		
Unit-IV		
Importance of Foreign Trade for developing Economy India's Balance of Payments on Current Account. Current Export and Import policy, Impact of WTO on various aspects of Indian Economy. WTO, subsidies and agriculture.		

Reading List

Ahluwalia, I.J., Industrialising Growth in Indian Stagnation since Mid 60's 1985.

Brahmanada, P.R. and V.R. Panchmukhi (Eds.) (2001), Development Experience in the Indian Economy: Inter-State Perspectives, Bookwell, Delhi.

Choudhary, Primit (ed.), Aspects of Indian Economic Development, 1971.

Dantwala, M.L., Indian Agriculture Development since Independence, Oxford, IBH Pub. Co., New Delhi, 1991

Datta, R. and K P. M. Sundhram (latest edition), Indian Economy. S. Chand & Company Ltd. New Delhi

Jalan, Bimal (ed.), The Indian Economy Problems and Prospects.

Kapila, Uma (2014-2015). Indian Economy since independence. Academic Foundation, New Delhi.

Lokanathan, V. (2018). A History of Economic Thought. S. Chand & Co. Ltd., Chandigarh.

Mishra, S. K. & Puri, V.K. (2020). Indian Economy. Himalaya Publishing House, New Delhi. Ministry of Finance (2020)

Soni, R. N. Leading Issues in Agricultural Economics, Vishal Publishing Company.

Wadhwa, C.D.(ed.), Some Problems of India's Economic Policy, 1987.

CO-PO and CO-PSO Matrix for the Course MA/ECO/9/OEC3

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	2	3	3	2	2	2.5	-	3	2	2	2
CO2	3	2	3	2	3	2	2.5	-	3	2	2	2
CO3	3	2	3	2	2	2	2.5	-	3	3	2	2
CO4	3	2	3	3	3	2	2.5	-	3	3	2	2
Average	3	2	3	2.5	2.5	2	2.5	-	3	2.5	2	2

Course Title: Money, Banking and Public Finance Course Code: MA/ECO/9/OEC4	Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
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Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.

Course Outcomes

CO1	The student shall understand the different aspects of monetary system.
CO2	Understanding the banking systems and its various aspects.
CO3	Attain fundamental in-depth knowledge of various thoughts regarding public finance and public debt along with the sustainability, burden & management of public debt.
CO4	To understand the concept of public expenditure and budgeting along with their relevance.

Unit-I

Money

Barter system; Evolution, definition and functions of money; Classification of Money; Role of money in various economic systems; Gresham's Law of money; Demand for Money-different views, Factors affecting the demand for money; Supply of money-determination, factor affecting the supply of money.

Unit-II

Banking System

Meaning & functions of Commercial banks; Credit creation- Process and limitations; Meaning and functions of Central Banks; Difference between Central Bank and Commercial Banks; Role of Central Bank in an Under-Developed economy; Credit Control- Objectives of control of money supply; Quantitative and Qualitative methods of credit control.

Unit-III

Public Finance

Meaning, scope and subject matter, Role of public finance in national economy; Principle of maximum social advantage Concepts of public goods, private goods, mixed goods and features of public goods.

Public debts

Objectives and sources of public debt; classification and effects of public debt; burden of

public debt; Principles of debt management and redemption of public debt.

Unit-IV

Public Expenditure

Meaning, Classification and role of public expenditure; canons and effects of public expenditure.

Budgeting

Meaning and purpose of budget: Types or classification of Budget; Budget making process in India; Zero base budgeting.

Reading List

- Bagchi, Amaresh (Ed.). (2005) *Readings in Public Finance*. Oxford University Press.
- Bain, K. & Howells, P. (2009) *Monetary Economics: Policy and its Theoretical Basis*. Macmillan International Higher Education.
- Frisch, H. (1983) *Theories of Inflation*. Cambridge University Press.
- Galbacs, Peter (2015) *The Theory of New Classical Macroeconomics: A Positive Critique*. Springer.
- Gali, J. (2015) *Monetary Policy, Inflation and Business Cycles*, Princeton University Press.
- Ganguly, S. (1963). *Public Finance: A Normative Approach*. Nababharat Publishers.
- Greiner, A. & Fincke, B. (2009) *Public Debt and Economic Growth*. Springer.
- Handa, Jagdish (2000) *Monetary Economics*, Routledge, London.
- Jha, R. (1991) *Contemporary Macroeconomic Theory and Policy*. Wiley Eastern Limited.
- Ihori, Toshihiro (2016) *Principles of Public Finance*. Springer.
- Levacic, Rosalind & Rebmann, Alexander (2015) *Macroeconomics*, Macmillan, London.
- Lucas, R.E. (1983) *Studies in Business Cycle Theory*, MIT Press.
- Mankiw, Gregory N. (2003) *Macroeconomics*, Worth Publishers.
- Mishkin, F.S. (2016). *The Economics of Money Banking and Financial Markets*. Pearson.
- Romer, David (2012). *Advanced Macroeconomics*. McGraw Hill Education.
- Romer, D. & Mankiw, N. Gregory (1995). *New Keynesian Economics (Volume-2)*. MIT Press.
- Sheffrin, Steven M. (1996) *Rational Expectations*. Cambridge University Press

CO-PO and CO-PSO Matrix for the Course MA/ECO/9/OEC4

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	2.5	3	2	2	1	2.5	-	2	2.5	3	2.5
CO2	3	3	2	2	3	1	2.5	-	2.5	3	2.5	2
CO3	3	2	2.5	3	2	1	2.5	-	3	2	2.5	2.5
CO4	3	3	3	2.5	3	1	2.5	-	3	2.5	3	2.5
Average	3	2.62	2.62	2.37	2.5	1	2.5	-	2.62	2.5	2.75	2.37

Course Title: Goods & Services Tax (GST)Accounts Assistant Course Code: MA/ECO/9/OEC5	Total Credits: 4	
	Theory Credits: 2 Time: 2 Hrs. Marks: 50 External: 30 Internal: 20	Practical Credits:2 Time: 3 Hrs. Marks: 50 End Term: 30 Practical Record: 10 Viva Voce: 10

Note for the Paper Setter

The question paper will consist of five questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, four more questions will be set unit-wise comprising of two questions from each of the two units. The candidates are required to attempt two more questions selecting at least one question from each unit.

Course Outcomes

CO1	Understanding of GST concepts and taxation
CO2	The students will be able to calculate the tax liabilities and maintain the book records
CO3	Practice on working and levying on CGST and SGST
CO4	Practice on registration, maintenance of record and payment of GST

Unit-I (Theory)

Understanding GST Concepts: Describe Goods & Services with their cross linkages; identify the Fundamental Concepts of GST; identify cases where CGST and SGST will work simultaneously; explain how IGST is levied; identify whether a transaction is taxable under CGST, IGST or SGST

Incidence of Taxation: Identify the incidence of taxation; learn about time of supply of goods; learn on purpose of place of supply; define location of supplier of goods; define the recipient with respect to supplies involving payment and supplies not involving payment

Registration: Outline the PAN based registration process, its rules, and the purpose of registration; explain single or separate registration for business vertical; identify whether registration should be done centrally or selectively in each state; list the details to be furnished during registration; identify common mistakes made during

registration; differentiate between taxable person vs. registered person; identify the registration timelines–migrations; explain the benefits of registration; demonstrate form filling with case studies

Payment under GST :Identify the types of payment, modes of payment, rules of collection of tax; prepare different challans, CPIN & CIN; distinguish between TDS and TCS; identify cases for reversal of credit; calculate tax based on various case studies; memorize the due dates for payment; list the penalties for late payments; demonstrate the process of online payment

Unit-II (Theory)

Calculation of Tax Liability: Define input credit; identify input tax credit eligibility using case studies; explain the concept of reversal of vat; define tax liability for good sin transit; define consideration; value transaction shaving non-monetary consideration

Maintenance of books & records: Maintain different types of ledgers; prepare documents such as in voice, credit note and debit note; identify the different types of returns and their applicability to the business-monthly returns ,quarter lyre turns; navigate the GST websites-GSTN, CBEC etc.; file periodic returns online

Unit-III (Practical)

Understanding GST Concepts: Describe Goods & Services with the ircross linkages; identify the Fundamental Concepts of GST; identify cases where CGST and SGST will work simultaneously; explain how IGST is levied; identify whether a transaction is taxable under CGST, IGST or SGST

Incidence of Taxation: Identify the incidence of taxation; learn about time of supply of goods; learn on purpose of place of supply; define location of supplier of goods; define the recipient with respect to supplies in evolving payment and supplies not involving payment

Calculation of Tax Liability: Define input credit; identify input tax credit eligibility using case studies; explain the concept of reversal of vat; define taxliability for good sin transit; define consideration; value transaction shaving non-monetary consideration

Unit-IV (Practical)

Registration: Outline the PAN based registration process ,its rules, and the purpose of registration; explain single or separate registration for business vertical; identify

whether registration should be one centrally or selectively in each state; list the details to be furnished during registration; identify common mistakes made during registration; differentiate between taxable person vs. registered person; identify the registration timelines–migrations; explain the benefits of registration; demonstrate form filling with case studies

Maintenance of books & records): Maintain different types of ledgers; prepare documents such as invoice, credit note and debit note; identify the different types of returns and their applicability to the business-monthly returns, quarterly returns; navigate the GST websites-GSTN, CBEC etc.; file periodic returns online

Payment under GST: Identify the types of payment, modes of payment, rules of collection of tax; prepare different challans, CPIN & CIN; distinguish between TDS and TCS; identify cases for reversal of credit; calculate tax based on various case studies; memorize the due dates for payment; list the penalties for late payments; demonstrate the process of online payment

Note for Practicals:

Students are required to prepare a practical file. For this, topics will be assigned by the teacher covering the whole syllabus. Students are required to appear in the viva-voce examination based on the syllabus for which an external examiner will be appointed.

Reading List

Mehrotra, H. C. and V. P. Aggarwal (2020) *Goods & Services Tax*, Sahitya Bhawan Publications, Agra

Chawla R. (2017) *A Hand Book on GST in India*, Life Span Publishers, New Delhi

Gupta, R. (2018) *Hand Book on GST*, Satyam Law International Publications

Note:

1. Only the students with graduation in commerce or allied subject are eligible to take this course.
2. The criteria and scheme of assessment of the trainees by the BFSISSC have been added as annexure 1 and 2

CO-PO and CO-PSO Matrix for the Course MA/ECO/9/OEC5

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4
CO1	2.0	2.0	1.5	1.5	2.5	2.0	1.5	1.25	1.5	1.5	1.25	1.25

CO2	2.0	2.0	1.5	1.5	2.5	2.0	1.5	1.25	1.5	1.5	1.25	1.25
CO3	2.0	2.0	1.5	1.5	2.5	2.0	1.5	1.25	1.5	1.5	1.25	1.25
CO4	2.0	2.0	1.5	1.5	2.5	2.0	1.5	1.25	1.5	1.5	1.25	1.25
Average	2.0	2.0	1.5	1.5	2.5	2.0	1.5	1.25	1.5	1.5	1.25	1.25

PC

San

Asish

Kamlesh Kumar

Mang Prasad