

 <p>Estd. 1962 "A⁺⁺" Accredited by NAAC (2021) With CGPA 3.52</p>	<p>SHIVAJI UNIVERSITY, KOLHAPUR 416 004, MAHARASHTRA PHONE : EPABX - 2609000, BOS Section - 0231-2609094, 2609487 Web : www.unishivaji.ac.in Email: bos@unishivaji.ac.in शिवाजी विद्यापीठ, कोल्हापूर, ४१६ ००४, महाराष्ट्र दूरध्वनी - इपीबीएक्स - २०६०९०००, अभ्यासमंडळे विभाग : ०२३१- २६०९०९४, २६०९४८७ वेबसाईट : www.unishivaji.ac.in ईमेल : bos@unishivaji.ac.in</p>		
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Ref. No./SU/BOS/Humanities/225

Date :12/04/2024

To,

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|---|--|
| <p>1. The Principal,
All Concerenced Affiliated
Colleges/Institutions,
Shivaji University, Kolhapur</p> | <p>2. The Head,
All Concerenced Department,
Shivaji University, Kolhapur</p> |
|---|--|

Subject : Regarding syllabi of M. A. & M.R.S. Part II (sem. III & IV) degree programme under the Faculty of Humanities as per National Education Policy, 2020 (NEP 2.0)

Sir/Madam,

With reference to the subject mentioned above I am directed to inform you that the University authorities have accepted and granted approval to the revised syllabi, equivalence and nature of question paper of M. A. & M.R.S. Part II (Sem. III & VI) under the Faculty of Humanities as per National Education Policy, 2020. (NEP2.0)

Marathi	Sanskrit	History	Sociology	Clinical Psychology
Hindi	Russian	Economics	Political Science	Forensic Psychology
English	M.R.S.	Bhasha Proudhyogiki	Industrial Psychology	Counseling Psychology

This syllabi shall be implemented from the academic year 2024-25 onwards . A soft copy containing the syllabus is attached herewith and it is also available on university website www.unishivaji.ac.in (Online Syllabus).

The question paper on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October/November 2024 & March/ April, 2025. These chances are available for repeater students, if any.

You are therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully


(Dr. S. M. Kubal)
Dy. Registrar

Encl : As above

Copy to,

For Information and necessary action.

Dean, Faculty of Humanities.	Distance Education Section.
Chairman, B.O.S./Ad-hoc Board under faculty of Humanities.	Eligibility Section.
Director, Board of Examinations & Evaluation	P. G. Seminar Section.
Appointment Section A & B	P. G. Admission Section.
O. E. Exam. 1 & 2 Section.	Affiliation Section (T. 1 & T 2)
Internal Quality Assorance Cell	Computer Center/I. T. Cell.

SHIVAJI UNIVERSITY, KOLHAPUR



Established: 1962

A⁺⁺ Accredited by NAAC (2021) With CGPA 3.52

New Syllabus For

Master of Arts [M. A. in Economics]

UNDER

Faculty of Humanities

M. A. Part - II (Sem - III and - IV)

STRUCTURE AND SYLLABUS IN ACCORDANCE WITH

NATIONAL EDUCATION POLICY - 2020

HAVING CHOICE BASED CREDIT SYSTEM

WITH MULTIPLE ENTRY AND MULTIPLE EXIT OPTIONS

(TO BE IMPLEMENTED FROM ACADEMIC YEAR 2024-25 ONWARDS)

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1. PREAMBLE:**Economics:**

In the era of globalization, the study of Economics has gained importance because of sustained interest of the developing countries in uplifting their economic condition by restructuring their economies to a greater diversity, efficiency and equity in consonance with their priorities. Accordingly, syllabus has been revised in view to understand recent trends in economics and interdisciplinary subjects along with theoretical and applied perspectives as well as skill development with the introduction of semester and multiple entries and exit options.

2. PROGRAMME LEARNING OUTCOMES (PO)

- Develop human capital through holistic learning outcomes
- Develop analytical, critical thinking skills and quantitative abilities and problem solve aptitude through academics.
- Encourage students to undertake research projects and research activities related to socioeconomic problems, business, industry and human capital.
- Develop awareness of local, national and international economic conditions.
- Develop ability to analyze and evaluate business and government proposals, problem- solving forecasting and market conditions

3. DURATION:

The Master of Arts in Economics programme shall be A FULL TIME COURSE OF TWO YEARS - FOUR SEMESTERS DURATION with 22 Credits per Semester. (Total Credits = 88)

4. ELIGIBILITY FOR ADMISSION:

ANY GRADUATE FROM RECOGNIZED UNIVERSITY/HEI is eligible for admission for this course. The criteria for admission is as per the rules and regulations set from time to time by concerned departments, HEIs, university, government and other relevant statutory authorities.

5. MEDIUM OF INSTRUCTION:

The medium of instruction shall be ENGLISH. However, the students will have AN OPTION TO WRITE ANSWER-SCRIPTS IN ENGLISH AND MARATHI.

6. EXAMINATION PATTERN:

The pattern of examination will be Semester End Examination with Internal Assessment/Evaluation.

7. SCHEME OF TEACHING AND EXAMINATION :

A) Master of Arts (M. A.) Part - I

M. A. Programme Structure for Semester I and II

Semester - I											
Teaching Scheme					Examination Scheme						
Sr. No.	Theory (TH)				Practical (PR)	Semester - end Examination (SEE)			Internal Assessment (IA)		
	Course Type	No. of Lectures per Week	Hours	Credits		Paper Hours	Max	Min	Internal	Max	Min
1	MM 1	4	4	4		3	80	32	--	20	08
2	MM 2	4	4	4		3	80	32	--	20	08
3	MM 3	4	4	4		3	80	32	--	20	08
4	MM 4	2	2	2		2	40	16	--	10	04
5	ME --	4	4	4		3	80	32	--	20	08
6	RM	4	4	4		3	80	32	--	20	08
Total		22	22	22		440			--	110	--
										SEE + IA: 440 + 110 = 550	

Semester - II												
Teaching Scheme						Examination Scheme						
Sr. No.	Theory (TH)				Practical (PR)		Semester - end Examination (SEE)			Internal Assessment (IA)		
	Course Type	No. of Lectures per Week	Hours	Credits	Hrs	Credits	Paper Hours	Max	Min	Internal	Max	Min
1	MM 5	4	4	4	--	--	3	80	32	--	20	08
2	MM 6	4	4	4			3	80	32	--	20	08
3	MM 7	4	4	4			3	80	32	--	20	08
4	MM 8	2	2	2			2	40	16	--	10	04
5	ME --	4	4	4			3	80	32	--	20	08
6	OJT/FP	-	-	-	4	4	Certified Submission of Dissertation/ OJT Report/ Project Report	80	32	Viva-Voce/ Presentation	20	08
Total		18	18	18	4	4	--	440	--		110	--
										SEE + IA: 440 + 110 = 550		
Semester I and II		40	40	40	4	4	--	880	-	SEE + IA: 880 + 220 = 1100		
Total credits required for completing. M.A. I: 44 credits												

MM: Major Mandatory - There will be FOUR mandatory courses for each semester.

ME: Major Elective (Student should opt for ANY ONE course from the group of elective courses/basket).

RM: Research Methodology - It is a mandatory course.

OJT/FP: On Job Training - Internship/Apprenticeship or Field Project: It is a mandatory course. **It should be completed during the period from the end of first semester to the end of second semester.**

NOTE : 1. M. A. Part I : PG Diploma (after 3 year Degree)

2. Separate passing is mandatory for both, Semester End Examination and Internal Evaluation/Assessment.

7. SCHEME OF TEACHING AND EXAMINATION:**B) Master of Arts (M. A.) Part - II****M. A. Programme Structure for Semester III and IV**

Semester - III												
Teaching Scheme							Examination Scheme					
Sr. No.	Theory (TH)				Practical (PR)		Semester - end Examination (SEE)			Internal Assessment (IA)		
	Course Type	No. of Lecture per Week	Hours	Credits	Hrs.	Credits	Paper Hours	Max	Min	Internal	Max	Min
1	MM 1	4	4	4	--	--	3	80	32	--	20	08
2	MM 2	4	4	4	--	--	3	80	32	--	20	08
3	MM 3	4	4	4	--	--	3	80	32	--	20	08
4	MM 4	2	2	2	--	--	2	40	16	--	10	04
5	ME --	4	4	4	--	--	3	80	32	--	20	08
6	RP	--	--	--	4	4	Submission of Dissertation/ Project Report	80	32	Viva-Voce/ Presenta tion	20	08
Total		18	18	18	4	4	--	440	--	--	110	--
											SEE + IA: 440 + 110 = 550	

Semester - IV												
Teaching Scheme							Examination Scheme					
Sr. No.	Theory (TH)				Practical (PR)		Semester - end Examination (SEE)			Internal Assessment (IA)		
	Course Type	No. of Lectures per Week	Hours	Credits	Hrs	Credits	Paper Hours	Max	Min	Internal	Max	Min
1	MM 5	4	4	4	--	--	3	80	32	--	20	08
2	MM 6	4	4	4			3	80	32	--	20	08
3	MM 7	4	4	4			3	80	32	--	20	08
4	ME --	4	4	4			3	80	32	--	20	08
5	RP	--	--	--	6	6	Submission of Dissertation/ Project Report	120	48	Viva-Voce/ Presenta tion	30	12
Total		16	16	16	6	6	--	440	--	--	110	--
											SEE + IA: 440 + 110 = 550	
Semester III and IV		34	34	34	10	10	--	880	-	SEE + IA: 880 + 220 = 1100		
Total credits required for completing. M.A. II: 44 credits												

MM: Major Mandatory - There will be FOUR mandatory courses for each semester.

ME: Major Elective (Student should opt for ANY ONE course from the group of elective courses/basket).

RP : Research Project.

NOTE : 1. M. A. Part II : PG Degree After 3 Year UG Or PG Degree After 4 Year UG

2. Separate passing is mandatory for both, Semester End Examination and Internal Evaluation/Assessment.

8. STRUCTURE OF PROGRAMME:

(Credit Distribution Structure for with Multiple Entry and Exit Options M.A.- I in Economics)

Year	Level	Sem	Major with Course Code (Credits)		RM	OJT / FP	Total Credits	Degree
			Mandatory	Electives (Choose ONE elective)				
I	6.0	Sem I	Course Code: Course Name (Credits): Example: MAU0325MML515G1: Micro Economic Analysis (4) Course Code: Course Name (Credits): Course Code: Course Name (Credits): Course Code: Course Name (Credits):	Course Code: Course Name (Credits): Example: MAU0325MEL515G1: Economics of Environment (4) Course Code: Course Name (Credits): Course Code: Course Name (Credits): <i>(** You may add according to your number of electives)</i>	Course Code: Course Name (Credits): Example: MAU0325RML515G Research Methodology (4)	--	22	PG Diploma (After 3 year Degree)
		Sem II	Course Code: Course Name (Credits): Example: MAU0325MML515G5: Macro Economic Analysis (4) Course Code: Course Name (Credits): Course Code: Course Name (Credits): Course Code: Course Name (Credits):	Course Code: Course Name (Credits): Example: MAU0325MEL515G5: Mathematical Economics (4) Course Code: Course Name (Credits): Course Code: Course Name (Credits): <i>(** You may add according to your number of electives)</i>	--	Course Code: Course Name (Credits): OJT: On Job Training (Internship, Apprenticeship / FP (Field Project) (4) Example: MAU0325OJL515G Field Project (4)	22	
Cumulative Credits for PG Diploma			28	8	4	4	44	

8. STRUCTURE OF PROGRAMME:**(Credit Distribution Structure for with Multiple Entry and Exit Options M.A.- II in Economics)**

Year	Level	Sem	Major with Course Code (Credits)		RM	OJT / FP	Total Credits	Degree
			Mandatory	Electives (Choose ONE elective)				
II	6.5	Sem III	Course Code: Course Name (Credits) MAU0325MML515I1: Statistics in Economic Analysis (4) MAU0325MML515I2: Macro Economic Analysis (4) MAU0325MML515I3: Economics of Labour (4) MAU0325MML515I4: Demography (2)	Course Code: Course Name (Credits) MAU0325MEL515I1: Indian Public Finance (4) MAU0325MEL515I2: Economics of Insurance (4) MAU0325MEL515I3: Economics of Transport and Communication (4) MAU0325MEL515I4: Indian Economic Policy (4) MAU0325MEL515I5: Urban Economics (4) MAU0325MEL515I6: Economics of Energy (4) MAU0325MEL515I7: Mathematical Economics - II (4) MAU0325MEL515I8: Economics of Social Sector and Environment (4)	Course Code: Course Name (Credits): Example: MAU0325RML515G Research Methodology (4)	Course Code: Course Name (Credits) MAU0325RPL515I: Research Project I (4)	22	PG Degree

		Sem IV	Course Code: Course Name (Credits) MAU0325MML515J1: International Economics (4) MAU0325MML515J2: Economics of Growth and Development (4) MAU0325MML515J3: Advanced Banking (4)	Course Code: Course Name (Credits) MAU0325MEL515J1: Co-operative Thought and Administration (4) MAU0325MEL515J2: Statistics for Economics (4) MAU0325MEL515J3: Global Business Logistics (4) MAU0325MEL515J4: Health Economics (4) MAU0325MEL515J5: Welfare Economics (4) MAU0325MEL515J6: Economic Thought of Chh. Shahu Maharaj (4) MAU0325MEL515J7: Economics and Law (4) MAU0325MEL515J8: Econometrics (4)	--	Course Code: Course Name (Credits) MAU0325R PL515J: Research Project - II (6)	22	
Cumulative Credits for PG Diploma			28	8	4	4	44	

9. COURSE CODE TABLE:**M. A. II Sem- III and IV**

Semester No.	Course Code	Title of New Course
III	MAU0325MML515I1	Statistics in Economic Analysis
III	MAU0325MML515I2	Macro Economic Analysis
III	MAU0325MML515I3	Economics of Labour
III	MAU0325MML515I4	Demography
III	MAU0325MEL515I1	Indian Public Finance
III	MAU0325MEL515I2	Econometrics - I
III	MAU0325MEL515I3	Economics of Transport and Communication
III	MAU0325MEL515I4	Indian Economic Policy
III	MAU0325MEL515I5	Urban Economics
III	MAU0325MEL515I6	Economics of Energy
III	MAU0325MEL515I7	Mathematical Economics - II
III	MAU0325MEL515I8	Economics of Social Sector and Environment
III	MAU0325RPL515I	Research Project - I
IV	MAU0325MML515J1	International Economics
IV	MAU0325MML515J2	Economics of Growth and Development
IV	MAU0325MML515J3	Advance Banking
IV	MAU0325MEL515J1	Co-operative Thought and Administration
IV	MAU0325MEL515J2	Statistics for Economics
IV	MAU0325MEL515J3	Global Business Logistics
IV	MAU0325MEL515J4	Health Economics
IV	MAU0325MEL515J5	Welfare Economics
IV	MAU0325MEL515J6	Economic Thought of Chh. Shahu Maharaj
IV	MAU0325MEL515J7	Economics and Law
IV	MAU0325MEL515J8	Econometrics - II
IV	MAU0325RPL515J	Research Project - II

10. EQUIVALENCE OF THE PAPERS:**Equivalence: M. A. II Sem- III**

Sem No.	Paper Code	Title of Old Paper	Credit	Sem No.	Course Code	Title of New Course	Credit
III	EC-5	Statistics in Economic Analysis	4	III	MAU0325MML515I1	Statistics in Economic Analysis	4
III	EC-6	Macro Economic Analysis	4	III	MAU0325MML515I2	Macro Economic Analysis	4
III	EO-21	Economics of Labour	4	III	MAU0325MML515I3	Economics of Labour	4
III	ECO -32	Demography	4	III	MAU0325MML515I4	Demography	4
III	EO-22	Indian Public Finance	4	III	MAU0325MEL515I1	Indian Public Finance	4
III	EO-30		4	III	MAU0325MEL515I2	Econometrics - I	4
III	EO-23	Economics of Transport and Communications	4	III	MAU0325MEL515I3	Economics of Transport and Communication	4
III	EO-24	Indian Economic Policy	4	III	MAU0325MEL515I4	Indian Economic Policy	4
III	EO-26	Urban Economics	4	III	MAU0325MEL515I5	Urban Economics	4
III	EO-27	Economics of Energy	4	III	MAU0325MEL515I6	Economics of Energy	4
III	Eo-29	Mathematical Economics II	4	III	MAU0325MEL515I7	Mathematical Economics - II	4
III	Eo-31	Social Sector and Environment	4	III	MAU0325MEL515I8	Economics of Social Sector and Environment	4

Equivalence: M. A. II Sem- IV

Sem No.	Paper Code	Title of Old Paper	Credit	Sem No.	Course Code	Title of New Course	Credit
IV	EC-7	International Economics	4	IV	MAU0325MML515J1	International Economics	4
IV	EC- 8	Economics of Growth and Development	4	IV	MAU0325MML515J2	Economics of Growth and Development	4
IV	EO - 36	Advance Banking	4	IV	MAU0325MML515J3	Advance Banking	4
IV	EO - 32	Co-operative Thought and Administration	4	IV	MAU0325MEL515J1	Co-operative Thought and Administration	4
IV	EO - 33	Statistics for Economics	4	IV	MAU0325MEL515J2	Statistics for Economics	4
IV	EO - 34	Global Business Logistics	4	IV	MAU0325MEL515J3	Global Business Logistics	4
IV	EO - 35	Health Economics	4	IV	MAU0325MEL515J4	Health Economics	4
IV	EO - 37	Welfare Economics	4	IV	MAU0325MEL515J5	Welfare Economics	4
IV	EO - 39	Economic Thought of Chh. Shahu Maharaj	4	IV	MAU0325MEL515J6	Economic Thought of Chh. Shahu Maharaj	4
IV	EO - 41	Economics of Law	4	IV	MAU0325MEL515J7	Economics and Law	4
IV	EO - 42	Econometrics II	4	IV	MAU0325MEL515J8	Econometrics - II	4

11. Determination of CGPA, Grading and declaration of results:

Shivaji University has adopted 10 point Grading System as follows:

➤ **In each semester, marks obtained in each course (Paper) are converted to grade points:**

- If the total marks of course are 100 and passing criteria is 40%, then use the following Table 1 for the conversion.
- If total marks of any of the course are different than 100 (e.g. 50) and passing criterion is 40%, then marks obtained are converted to marks out of 100 as below:

$$\text{Marks out of 100} = \frac{\text{Marks obtained by student in that course}}{\text{Total marks of that course}} \times 100$$

and then grade points are computed using Marks out of 100 as per Table 1.

Table 1: Conversion of Marks out of 100 to grade point

Sr. No.	Marks Range out of 100	Grade point	Letter grade
1	80-100	10	O: Outstanding
2	70-79	9	A+: Excellent
3	60-69	8	A: Very Good
4	55-59	7	B+: Good
5	50-54	6	B: Above Average
6	45-49	5	C: Average
7	40-44	4	P: Pass
8	0-39	0	F: Fail
9	Absent	0	Ab: Absent

Table 2 : Conversion of Marks out of 50 to grade point (Passing: 20)

Sr. No.	Marks Range out of 50	Grade point	Letter grade
1	40-50	10	O: Outstanding
2	35-39	9	A+: Excellent
3	30-34	8	A: Very Good
4	28-29	7	B+: Good
5	25-27	6	B: Above Average
6	23-24	5	C: Average
7	20-22	4	P: Pass
8	0-19	0	F: Fail
9	Absent	0	Ab: Absent

➤ **Computation of Semester Grade Point Average (SGPA) :**

Based on the grade points earned in each course in each semester, *Semester Grade Point Average (SGPA)* is computed as follows:

The SGPA is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student in that semester and the sum of the number of credits of all the courses undergone by a student in that semester. The SGPA of the i^{th} semester is denoted by S_i . The formula is given by

$$SGPA \text{ of semester } i = S_i = \frac{\sum_{j=1}^k c_j \times G_j}{\sum_{j=1}^k c_j}$$

where c_j is the number of credit of j^{th} course, G_j is the grade points earned in the j^{th} course and k be the number of courses in i^{th} semester.

➤ **Computation of Semester Grade Point Average (SGPA) :**

Based on the SGPA of each semester, Cumulative Grade Point Average (CGPA) is computed as follows:

The CGPA is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a programme,

$$CGPA = \frac{\sum_{i=1}^m C_i \times S_i}{\sum_{i=1}^m C_i}$$

Where C_i is the total number of credits in i^{th} semester, S_i is the SGPA of i^{th} semester and m is the number of semesters in the programme.

➤ **Based on CGPA, final letter grade is assigned as below :**

Table 3: Final Cumulative Grade Point Average (CGPA) and Final Grade for course

Sr. No.	CGPA Range	Grade	Grade Descriptions
1	9.50-10.00	O	Outstanding
2	8.86-9.49	A+	Excellent
3	7.86-8.85	A	Very Good
4	6.86-7.85	B+	Good
5	5.86-6.85	B	Above Average
6	4.86-5.85	C	Average
7	4.00-4.85	P	Pass
8	0.00-3.99	F	Fail
9	Nil	AB	Absent

Remarks :

1. B+ is equivalent to 55% marks and B is equivalent to 50 % marks. The final later grade is based on the grade points in each course of entire programme and not on marks obtained each course of entire programme.
2. The SGPA and CGPA shall be round off to two decimal points.

12. NATURE OF QUESTION PAPER AND SCHEME OF MARKING:**A) FOR FOUR CREDITS: Total Marks: 80**

Note: Following pattern is given by taking nature of courses in languages and Social Sciences into consideration.

Question No. 1: Multiple choice questions (10 MCQs) (02 marks each) 20 Marks

The patterns are given below:

Pattern 1: Plain question with 4 alternatives. (6 MCQs for 12 Marks)

Pattern 2: Match the following with four alternatives (2 MCQs for 4 Marks)

Group 1

Group 2

1.

a)

2.

b)

3.

c)

4.

d)

A) 1-a, 2-b, 3-c, 4-d B) 1-b, 2-a, 3-c, 4-d C) 1-c, 2-b, 3-a, 4-d D) 1-d, 2-b, 3-c, 4-a

Pattern 3: Give Two Statements (2 MCQs for 4 Marks)

1.

2.

Which is the correct option? (or Which is the incorrect option)

A) Statement 1 is True/Correct and Statement 2 is False/Incorrect

B) Statement 2 is True/Correct and Statement 1 is False/Incorrect

C) Both Statements are True/Correct

D) Both Statements are False/Incorrect

Question No. 2: Short Notes (Any four out of six) (Answer Limit: 150-200 Words)

(Preferred for Social Sciences)

20

Marks

OR

Question No. 2: Short Answer Questions (Any Two out of Four) (Answer Limit: 300-400 Words)

(Preferred for Languages)

20

Marks

Question No. 3: Long Answer Questions (Any Two out of Four (Answer Limit: 300-400 Words)

(Preferred for Social Sciences)

20 Marks

OR

Que. No. 3: Long Answers Questions (Any One out of Two (Answer Limit: 600-800 Words)

(Preferred for Languages)

20

Marks

Que. No. 4: Long Answer question (Any One out of Two) (Answer Limit: 600 – 800 Words)

(Common for both Social Sciences and Languages)

20

Marks

B) FOR TWO CREDITS: Total Marks: 40

Note: Following pattern is given by taking nature of courses in languages and Social Sciences into consideration.

Que. No. 1: Multiple choice questions (FIVE) (02 marks each)

10 Marks

The patterns are given below:

Pattern 1: Plain question with 4 alternatives.

(3 MCQs for 6 Marks)

Pattern 2: Match the following with four alternatives

(1 MCQs for 2 Marks)

Group 1

Group 2

1.

a)

2.

b)

3.

c)

4.

d)

A) 1-a, 2-b, 3-c, 4-d B) 1-b, 2-a, 3-c, 4-d C) 1-c, 2-b, 3-a, 4-d D) 1-d, 2-b, 3-c, 4-a

Pattern 3: Give Two Statements

(1 MCQs for 2 Marks)

1.

2.

Which is the correct option? (or Which is the incorrect option)

A) Statement 1 is True/Correct and Statement 2 is False/Incorrect

B) Statement 2 is True/Correct and Statement 1 is False/Incorrect

C) Both Statements are True/Correct

D) Both Statements are False/Incorrect

Que. No. 2: Short notes (Any Two out of Four) (Answer Limit: 150-200 Words)

(For Social Sciences)

10 Marks

OR

Que. No. 2: Short Answer Question (Any One out of Two) (Answer Limit: 300-400 Words)

(For Languages)

10 Marks

Que. No. 3: Long Answer Questions (Any One out of Two) (Answer Limit: 600-800 Words)

(Common for both Social Sciences and Languages)

20 Marks

M. A. II SEM- III**Course Name** : **Statistics in Economic Analysis****Type** : Major Mandatory**Course Number** : MM1**Course Code** : MAU0325MML515I1**Course Credits** : 04**Marks** : Semester End : 80 Internal Assessment : 20 Total Marks : 100**Course Outcomes:** After successful completion of this course, the students will be able to:

- Explain the importance of statistics in economic analysis.
- Get acquainted with the basic concepts of statistics and its methodologies.
- Use various techniques of statistics in economic analysis.
- Use the statistical techniques in economic research and predict the future in terms of the progress in agriculture, industry, trade and business growth.
- Use of time series analysis in estimating trends

Module 1: Central Tendency and Dispersion (Hours 15, Credit - 01)

1.1 Statistics: Meaning, Functions, Scope, Importance and Limitations

1.2 Central tendency: Meaning, Measurement of central tendency: Mean, Mode and Median,
Prerequisites of Good Average

1.3 Dispersion: Meaning, Importance, Properties of a good measure of dispersion

1.4 Measurement of Dispersion - Quartile Deviation, Mean deviation, Standard deviation,
Variance and Co-efficient of Variation**Module 2: Correlation (Hours 15, Credit - 01)**

2.1 Correlation: meaning, importance and types

2.2 Measures of Correlation – Scatter Diagram, Graphical Method

2.3 Karl Pearson's coefficient of correlation and Rank coefficient of correlation

2.4 Concurrent Deviation Method and Probable Error

Module 3: Regression Analysis (Hours 15, Credit - 01)

3.1 Regression: meaning, difference between correlation and regression analysis

3.2 Importance and Types of Regression Analysis

3.3 Methods of Estimating Simple Regression – Graphic Method, Normal Equation Method,
Deviations from actual mean method, Deviations from assumed mean method, Least
Square Method

3.4 Properties of Regression Coefficients, Properties of Regression Lines and Standard Error of Estimates

Module 4: Time Series Analysis

(Hours 15, Credit - 01)

4.1 Time Series – Meaning, Characteristics and utility

4.2 Components of a Time Series - Secular Trends, Seasonal Variations, Cyclical Variations, and Irregular Variations

4.3 Methods of measuring trends – Free Hand Graphic Method, Semi Average Method

4.4 Moving Average method, Least Square Method

References:

1. Gupta S. P. (2016): *Statistical Methods*, Sultan Chand & Sons, New Delhi
2. Monga G. S. (2000): *Mathematics and Statistics for Economics*, Vikas Publishing House, Delhi.
3. Gupta S. C. (2007): *Fundamentals of Statistics*, Himalaya Publishing House, Mumbai.
4. Gupta S. P. and M. P. Gupta (2005): *Business Statistics*, S. Chand and Sons, New Delhi.
5. Hooda R. P. (2007): *Statistics for Business and Economics*, Macmillan Business Books, New Delhi.
6. Chou Ya-Lun (1974): *Statistical Analysis with Business and Economic Applications*, Rinehart and Winston, New Delhi
7. Allen R. G. D. (1974): *Mathematical Analysis for Economists*, Macmillan Press and ELBS, London.
8. Elhance D. N., Veena Elhance and B. M. Agarwal (2015): *Fundamentals of Statistics*, Kitab Mahal, Allahabad.
9. Millar J. (1996): *Statistics for Advanced Level*, Cambridge University Press, Cambridge.
10. Nagar A. L. and R. K. Das (1993): *Basic Statistics*, Oxford University Press, New Delhi.
11. पाटील ज ., फा .के यादव .बी .आणि एस .तामहणकर .जे .पी ., पठाण .जी .(2000): *अर्थशास्त्रीय संशोधन पद्धती*, कॉन्टीनेन्टल प्रकाशन, पुणे.
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M. A. II SEM- III**Course Name : Macro Economic Analysis****Type : Major Mandatory****Course Number : MM2****Course Code : MAU0325MML515I2****Course Credits : 04****Marks : Semester End : 80 Internal Assessment : 20 Total Marks : 100****Course Outcomes:** After successful completion of this course, the students will be able to

- understand national income accounting and its different forms
- know the importance of Macro Economics
- evaluate the theories of value of Money
- get acquainted with demand for money and supply of money
- evaluate theories of business cycle

Module I - National Income and Accounts**(Hours 15, Credit - 01)**

- 1.1 Macro Economics - Macro Economic Variables and Macro Economic Objectives
- National income - meaning and associated concepts
- 1.2 Circular flow of income in two, three and four sector economy
- 1.3 Different forms of national income accounting - social accounting, input-output accounting - Importance of National Income Data - difficulties in the measurement of National Income
- 1.4 Flow of Funds accounting and balance of payments accounting

Module II - Modern Macro Economics**(Hours 15, Credit - 01)**

- 2.1 Monetarism versus Keynesianism
- 2.2 IS and LM functions: General equilibrium of product and money markets -
Extensions of IS - LM Model - Effectiveness of monetary and fiscal policies
- 2.3 Modern macro economics – The rational expectations hypothesis - supply side economics
- 2.4 The new classical macro economics - New Keynesian Economics - policy - implications of new Keynesian Economics

Module III - Supply of money and Demand for money**(Hours 15, Credit - 01)**

- 3.1 Money supply – measures, determinants and control
- 3.2 Money supply and the open Economy
- 3.3 Approaches to demand for money: Tobin, Baumol and Patinkin

3.4 Quantity theory of Money – Cash Balance Approach – Friedmans Approach

Module IV - Theories of Inflation and Business Cycles (Hours 15, Credit - 01)

4.1 Classical, Keynesian and Monetarist approaches to inflation – Structuralist theory of inflation – Policies to control inflation

4.2 Philips curve analysis - short run and long run Philips curve

4.3 Samuelson and Solow - the natural rate of unemployment hypothesis -Tobin's modified Philips curve

4.5 Theories of Business cycles - Samuelson, Hicks and Goodwin model - Control of business cycles

Reference Books

1. Ahuja H. L. (2017) Advanced Economic theory, S. Chand and Company, New Delhi
2. Ahuja H. L. (2016) Macro Economics – Theory and Practices, S. Chand and Company, New Delhi
3. Dillard D. (1960), The Economics of John Maynard Keynes, Crosby Lockwood and Sons, London
4. Day A. C. (1960) Outline of Monetary Economics, Oxford University Press, Oxford
5. Dewett K. K, Modern Economic Theory, S. Chand and Company, New Delhi
6. Dwivedi D. N. (2017) macro-Economics – theory and Policy, McGraw Hill Education
7. Fisher Irving, the Purchasing power of Money, Macmillan New York
8. Gupta S. B. (1994) Monetary Economics, S. Chand and Co. Delhi
9. Higgins, B. (1963) Economic Development Principles, Problems and Policies, Central book Depot, Allahabad
10. Jhingan M. L Macro Economic theory, Vrinda Publication, Delhi
11. Keynes J. M. (1936), The general Theory of Employment, Interest and Money, Macmillan, London.
12. Kindleberger C. P. (1958), Economic Development, McGraw HILL BOOK Company, New York
13. Lekhi R. L. (2013) Public Finance, Kalyani Publisher, New Delhi
14. Mithani D. M. Monetary Theory, Vota and Company, Mumbai
15. Mithani D. M. Macro Economics, Himalaya Publishing House
16. Seth M. L. An Introduction to Keynesian Economics, Lakshmi narain Agarwal, Agra

M. A. II Semester III

Course Name : **Economics of Labour**

Type : Major Mandatory

Course Number : MM3

Course Code : MAU0325MML515I3

Course Credits : 04

Marks : Semester End : 80 Internal Assessment : 20 Total Marks : 100

Course Outcomes: After successful completion of this course, the students will be able to

- Understand the Labour Economics
- Get acquainted with various aspects of labour mobility and labour relations
- Evaluate the complexities and imperfections of labour market
- Equip with the Indian labour market

Module I - Conceptual Issues

(Hours 15, Credit - 01)

- 1.1 Labour - Meaning, Features and Problems - Concept of Labour Force, Determinants of Labour Force Participation
- 1.2 Employment: Concept and Measurement
- 1.3 Unemployment: Types, Causes and Measures
- 1.4 Indian Labour Market - Changing structure and impact of Globalization

Module II - Micro and Macro Approaches in Labour Markets (Hours 15, Credit - 01)

- 2.1 The theory of labour demand - types and markets - industry demand for labour - determinants of labour demand
- 2.2 The theory of supply - Work-leisure choice, Backward-bending labour supply curve and its applications
- 2.3 Labour Markets; Rural and Urban, Formal and Informal, Organized and Unorganized, Contract Labour
- 2.4 Report of Second Labour Commission

Module III - Wage Issues and Polices

(Hours 15, Credit - 01)

- 3.1 Theories of Wages: Subsistence Wage Theory, Standard of Living Theory, Marginal Productivity theory, Theory of Collective Bargaining, Modern theory of Wages - Demand and Supply theory
- 3.2 Minimum Wage, Living Wage and Fair Wage; Wage determination under Unorganized Sector, Wage Differentials

3.3 Micro and Macro relationship between Inflation and Wages - Productivity and wage Relationship

3.4 National Wage Policy, Wages and Wage Boards in India, Bonus and Profit Sharing

Module IV - State and Labour

(Hours 15, Credit - 01)

4.1 State and social security of labour; concept of social security - social assistance and social insurance

4.2 New Labour Code in India; The code on Wages, the occupational Safety, Health and working Condition, The code on social security, The Industrial Relation Code

4.3 International Labour Standards

4.4 Labour welfare - Labour welfare in India

Reading List

1. Ashenfelter, O, and G. E. Johnson (1969), Bearing Theory, Trade Unions, and Industrial Strike Activity, *American Economic Review*, 59 (1), 35-49
2. Booth A. L. (1995), *the Economics of the Trade Union*, Cambridge University Press,
3. Bronars, Stephen, Donald Deere and Joseph Tracy, (1994), Unionization and Profitability ; Evidence of Spillover Effects, *Journal of Political Economy*, 102 (6)
4. Calmfors, Lars and John Driffil, (1988), Macro Economic Effects of Centralized wage setting, *Economic Policy*,
5. Chaudhari K. and Pal R. (2005), An Empirical Analysis of Industrial disputes ; Evidence from Indian States (Co-author K. Chaudhri), *Journal of Quantitative Economics*, New Series Vol 3, No. 16, Crampton P. M. Gunderson and J. Tracy (1999), The Effect of collective Bargaining legislation on Strikes and Wages, *Review of Economics and Statistics*, 81 (3), 471-487
6. D. C. Standing G. and V Tokman (Eds) (1991), *Towards Social Adjustment*, ILO, Geneva
7. Datt R. (2000), *Regional patterns of Industrial Relations in India ; Changing Scenario after Liberalization*, *Indian Journal of Labour Economics*,
8. Deshpande S. G. and L. k. Deshpande, (1998), *Labour Flexibility in a Third world metropolis*, Commonwealth Publications, new Delhi
9. Dorrick S. (1989), *Union Oligopoly Bargaining*, *Economic Journal*
10. E. Malinvaud (1977), *The Theory of Unemployment Reconsidered*, Basil Blackwell, Oxford

11. Gibbons, Robert, and Kevin J. Murphy, (1992), Optimal incentive contracts in the Presence of Career Concerns ; theory and Evidence, *Journal of Political Economy*, 100:468:505
12. Hausman. S. (1991), *Industrial Restructuring with job Security*, Harvard University Press, Cambridge
13. Holmstrom, Bengt, Paul Milgrom (1991), Multitask Principal Agent Analysis, Incentive Contracts, Asset Ownership and job Design, *Journal of Law, Economics and Organization* 7:24:53
14. Kraft K. (1998), The Codetermined firm in Oligopoly Economics letter, 61(2):195-201
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16. Lazear, Edward (2000), Performance pay and Productivity, *American Economic review* 90: 1346
17. Lazear, Edward and Sherwith Rosen (1981) Rank Order tournaments as Optimum labour contracts, *Journal Political Economy* 89:84-864
18. V. K. Puri and A. k., Misra, *Indian Economy*, Himalaya Publishing House, 32nd Revised Edition 2014 153: 183 343-350, 450-456
19. The code on wages 2019
20. The code on social security, 2020
21. The Industrial Relations code, 2020

M. A. II Semester III

Course Name	: Demography				
Type	: Major Mandatory				
Course Number	: MM4				
Course Code	: MAU0325MML515I4				
Course Credits	: 02				
Marks	: Semester End : 40	Internal Assessment : 10	Total Marks : 50		

Course Outcomes: After successful completion of this course, the students will be able to

- understand Nature and Scope of Demography
- know the structure of Population

Module I - Population and Development (Hours 15, Credit - 01)

- 1.1 Demography-Nature, Importance and Scope - Population Growth and Development
and their inter-dependence- Factors affecting Population Change
- 1.2 Measures of population change – Structure and Distribution of population data- Demographic dividend I and II
- 1.3 Theories of Population – Malthus and Theory of Demographic Transition – The Optimum Theory of Population – The Idea of Maximum Population
- 1.4 Views of Meadows, Enke and Simon on Population and Development

Module II - Structure of Population (Hours 15, Credit - 01)

- 2.1 World population trends in the twentieth century – Population explosion; Threatened or real – distant or imminent
- 2.2 International aspects of population growth and distribution
- 2.3 Pattern of age and sex structure in more developed and less developed countries
- 2.4 Determinants of Demographic effects of sex and structure – economic and social implications – Age pyramids and projections- individual aging and population aging

Reading List

1. Agarwal S. N. (1972) India's Population Problem, Tata McGraw Hill Co., Bombay
2. Agnihotri S. B. (2000) Sex ratio in Indian Population: A Fresh Exploration, Sage, New Delhi

3. Amsden A. h. (Ed) (1980), *The Economics of Women and work*, Penguin, Harmondsworth
4. Bogue D. J. (1971), *Principles of Demography*, John wiley, New York
5. Bose A. (1996), *India's Basic Demographic Statistics*, B. R. Publishing Corporation, New Delhi
6. Bowen, Ian (1954 Reprinted 1966), *Population*, Cambridge Economic handbooks, James Nisbet and Company Limited Digswell Place, welyan, Hearts and the Cembridge University Press in Association with the University of Chicago Press
7. Chiang C. L. (1974) *Life Tables and Mortality Analysis*, WHO Geneva
8. Choubey P. K. (2000) *Population Policy in India*, Kanishka publications, New Delhi
9. Cole A. J. and E. M. Hoover (1958) *Population Growth and Economic Development in Low-income Countries; A Case study of India's Prospects*, Princeton University press, Princeton.
10. Gulati S. C. (1988), *Fertility in India: An Econometrics study of a metropolis*, Sage, New Delhi
11. Gupta J. A. (2000), *New Reproductive Technology, Women's Health and Autonomy*, Indo Dutch studies on Development Alternatives, Sage, New Delhi
12. Jhabwala, R. and R. K. Subramanya (2000), (Eds), *The Unorganized Sector: Work Security and Social Protection*, Sage, New Delhi
13. King M and M.A. Hill (Eds), (1993), *Women's Education in Developing Countries: Barriers, benefits and Politics*, John Hopkins, Baltimore
14. Krishnaji M. R. M. Sundaram and A. Sharif (1999), *Gender Population and Development*, oxford University Press, New Delhi
15. Lewis (Ed), (1989), *Strengthening the Poor: What have we learnt*, OECD, Paris
16. Mishra S. (2000), *Voluntary Action in Health and Population, the Dynamics of Social Transition*, Sage, New Delhi
17. Novel, C. (1988), *Methods and Models in Demography*, Bellhaven Press, London
18. Seth M. (2000), *Women and Development : The Indian Experience*, Sage, New, Delhi
19. Simon. J. L. (1992), *Population and Development in Poor Countries*, Princeton University Press
20. Srinivasan K. (1998), *Basic Demographic Techniques and Applications*, Sage, new Delhi

M. A. II Semester III

Course Name : **Indian Public Finance**
Type : Major Elective
Course Number : ME1
Course Code : MAU0325MEL515I1
Course Credits : 04
Marks : Semester End : 80 Internal Assessment : 20 Total Marks : 100

Course Outcomes : After successful completion of this course, the students will be able to

- Understand the sources of Public Revenue
- Understand Public Expenditure and Public Debt
- Equip with Deficit financing, local finance and fiscal policy
- Understand the Federal finance

Module 1: Public Revenue **(Hours 15, Credit - 01)**

- 1.1. Sources of revenue and Indian Tax system.
- 1.2. Trends in revenue: Direct and indirect taxes in India in last decade.
- 1.3. Brief review of tax reforms pre 1991 and detailed in post 1991 period.
- 1.4. Changing incidence of income tax, Goods and Services Tax, taxation on agriculture.

Module 2: Public expenditure and public debt **(Hours 15, Credit - 01)**

- 2.1. Trends in public expenditure of central and state governments in last decade.
- 2.2. Role of public expenditure in economic development.
- 2.3. Trends in public debt in last decade - internal and external.
- 2.4. Public debt management in India.

Module 3: Deficit financing, local finance and fiscal policy **(Hours 15, Credit - 01)**

- 3.1. Deficit financing: concepts and measures in India and trends in last decade.
- 3.2. Analysis of central and state governments in last three budgets.
- 3.3. Sources of local finance- financial dependency- measures for improvement of local finance.
- 3.4. Fiscal crisis and fiscal reforms in India, Fiscal Responsibility and Budget Management.

Module 4: Federal finance **(Hours 15, Credit - 01)**

- 4.1. Constitutional provisions- role of finance commission in federal set-up- Gadgil formula.
- 4.2. 10th, 11th, 12th and 13th reports of Finance Commissions in India.

4.3. 14th Finance Commission: terms of reference, issues and approach, recommendations.

4.4. Problem of fiscal imbalances, vertical and horizontal

READING LIST:

1. Academic Foundation (2003): "Reports on India's Tax Reforms," Academic Foundation, New Delhi.
2. Amaresh Bagachi and Nicholas Stern (1994): "Tax Policy and Planning in Developing Countries," Oxford University Press, New Delhi.
3. Annual Economic Survey: published by Ministry of Finance, Government of India.
4. Bird R. M. and O. Oldman (1967): "Readings on Taxation in Developing Countries." edited, Cambridge, Mass: Harvard Law School, International Tax Program.
5. Cut James (1969): "Taxation and Economic Development of India," Vikas Publication, New Delhi.
6. Datta and Sundharam (2018): "Indian Economy" S. Chand & Company, New Delhi.
7. David Newbery (1987): "Theory of Taxation for Developing Countries," edited, IBRD, World Bank for Research Publication, Washington.
8. Economic and political weekly- various issues.
9. FICCI (1984): "Problems of Tax Reforms Optimum Taxation," Federation of Indian Chambers of Commerce and Industry, New Delhi.
10. Handbook of Statistics on the Indian Economy: Reserve Bank of India.
11. Hinrichs H. (1966): "A General Theory of Tax Structure Change During Economic Development," Cambridge, Mass: Harvard Law School, International Tax Program.
12. IBRD (1997): "Tax Reforms in Developing Countries," Thrisk, Wayne Ed. New Delhi.
13. Jalan Bimal (2002): "India's Economy in the New Millennium: Selected Essays," UBS Publishers and Distributors, New Delhi.
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15. Kapital Uma (2003): "Indian Economy since Independence" Academic Foundation.

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17. Patil J. F. (1983): "Taxation for Development in Maharashtra," Continental Prakashan, Poona.
18. Patil J. F. (ed) (2004): "Public Economics," Phadke Prakashan, Kolhapur (Marathi edition).
19. Public Finance Review (Journal)- various issues
20. Puttaswamaiah, K. (1994): "Economic Policy and Tax Reforms in India," edited, Indus Publishing Co., New Delhi.
21. Reports of Finance Commission, Government of India, New Delhi.
22. Report of the Advisory Group on Tax Policy and Tax Administration for the Tenth Plan (May 2001): Planning Commission, Government of India, New Delhi.
23. Report of the Indirect Taxation Enquiry Committee (1977): Ministry of Finance, Government of India, New Delhi.
24. Report of the Task Force on Implementation of the Fiscal Responsibility and Budget Management Act (2004): Ministry of Finance, Government of India, New Delhi.
25. Report of the Task Force on Indirect Taxes (2002): Chairman-Vijay L. Kelkar, Ministry of Finance and Company Affairs, Government of India, December 26,
26. Report of the Tax Reforms Committee -I & II (1992 & 93): Chairman-Raja J. Chelliah.
27. Reserve Bank of India Bulletin (Monthly)
28. South Asian Journal of Macroeconomics and Public Finance (Journal)- various issues
29. The Report on Currency and Finance: published by Reserve Bank of India
30. Yadav S. B. and J. F. Patil (2009): "Service Tax in India" Bharati Press, Kolhapur.
31. www.fincomindia
32. www.finmin.nic.in
33. www.imf.org.in
34. www.indiabudget.nic.in
35. www.nipfp.org.in
36. www.rbi.org.in

M. A. II Semester III

Course Name : **Econometrics-I**
Type : Major Elective
Course Number : ME2
Course Code : MAU0325MEL515I2 **Econometrics-I**
Course Credits : 04
Marks : Semester End : 80 Internal Assessment : 20 Total Marks : 100

Course Outcomes: After successful completion of this course, the students will be able to

- Provide an understanding of Econometrics
- Equip students with knowledge required for the estimation of simple linear regression model and providing a basic idea about the multiple regression model.
- Enable to understand the uses of dummy variables.

Module 1: Basics Econometrics **(Hours 15, Credit - 01)**

- 1.1. Econometrics: Meaning, definition and scope
- 1.2. Methodology of Econometrics
- 1.3 Nature and Sources of Data for Economic Analysis
- 1.4. Measurement Scales of Variables

Module 2: Simple Regression Analysis **(Hours 15, Credit - 01)**

- 2.1. Regression: Meaning and Concept, Concept of Population Regression Function (PRF) and Sample Regression Function (SRF)
- 2.2. Method of ordinary least squares (OLS), Properties of OLS estimator: Gauss-Markov theorem, Assumptions of ordinary least squares method
- 2.3. Coefficient of determination, Method of Maximum Likelihood (ML)
- 2.4. Estimation, Interpretation and Testing of the Regression coefficients

Module 3: Multiple Regression Analysis **(Hours 15, Credit - 01)**

- 3.1. Multiple Regression: Assumptions, Method of Ordinary Least Squares (OLS)
- 3.2. Multiple Coefficient of Determination (R^2)
- 3.3. R^2 and Adjusted R^2
- 3.4. Interpretation and testing of the coefficients of multiple regression

Module 4: Dummy Variable Regression Models **(Hours 15, Credit - 01)**

- 4.1. Dummy Variables: Meaning and Nature, ANOVA and ANCOVA Models
- 4.2. Interaction Effects Using Dummy Variables
- 4.3. Use of Dummy Variables in Seasonal Analysis
- 4.4. Piecewise Linear Regression

READING LIST:

1. Amemiya, T. (1985), *Advanced Econometrics*, Harvard University Press, Cambridge, Mass.
2. Baltagi, B. H. (1998), *Econometrics*, Springer, New York.
3. Chow, G. C. (1983), *Econometrics*, McGraw Hill, New York.
4. Croxton, F. E., D. J. Cowden and S. Klein (1973), *Applied General Statistics*, Prentice Hall, New Delhi.
5. Dhrymes, P. J. (1970), *Econometrics – Statistical Foundations and Applications*, Harper and Row Publishers, New York.
6. Dougherty, C. (1992), *Introduction to Econometrics*, Oxford University press, New York.
7. Draper, N. R. and H. Smith (1966), *Applied Regression Analysis*, John Wiley, New York.
8. Franses, P. H. (1998), *Time Series Models for Business and Economic Forecasting*, Cambridge University press, New York.
9. Franses, P. H. (1998), *Time Series Models for Business and Economic Forecasting*, Cambridge University press, Cambridge.
10. Goldberger, A. S. (1998), *Introductory Econometrics*, Harvard University Press, Cambridge, Mass.
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14. Harvey, A. C. (1981), *Econometric Analysis of Time Series*, Phillip Allen, London.
15. Harvey, A. C. (1981), *Econometric Analysis of Time Series*, Phillip Allen, London.
16. Intrilligator, M. D. (1978), *Econometrics Methods, Techniques and Applications*, Prentice Hall, Englewood Cliffs, New Jersey.
17. Johnston (1984) *Econometrics Methods*, MacGraw Hill, New York
18. Kennedy, P. (1998), *A Guide to Econometrics*, MIT press, New York.
19. Kmenta, J. (1997), *Elements of Econometrics (Reprint Edition)*, University of Michigan Press, New York.

20. Koutsoyiannis, A. (1977), Theory of Econometrics (2nd ed.), the Macmillan Press Ltd., London.
21. Krishna, K. L. (Ed.) (1997), Econometric Applications in India, Oxford University Press, New Delhi.
22. Maddala, G. S. (2001), Introduction to Econometrics, John Williams and Sons, New York.
23. Pindyck R. S. and Rubinfeld (1998), Econometrics Models and Econometric forecast, Macmillan, New York
24. Theil, H. (1981), Introduction to Econometrics, Prentice Hall of India, New Delhi.

M. A. II Semester III

Course Name : **Economics of Transport and Communication**

Type : Major Elective

Course Number : ME3

Course Code : MAU0325MEL515I3

Course Credits : 04

Marks : Semester End : 80 Internal Assessment : 20 Total Marks : 100

Course Outcomes: After successful completion of this course, the students will be able to:

1. Get acquainted with Types of transport, importance, patterns and importance of transport in economic development
2. Get acquainted with development of Road Transport and Road Transport system in India
3. Evaluate sectoral performance of the Indian Railway
4. Compare and analyse Water transport and Air Transport of economic development.
5. Identify the dimensions of Communication

Module 1: Introduction of Transport and Communication (Hours 15, Credit - 01)

- 1.1 Meaning of transport – Classification of transportation – Significance of transport – Modes of Transport - Transport and Economic Development.
- 1.2 Road Transport: .1 Nature and significance –Types of Roads- Operational framework of passenger Road transport system in India. State Road Transport Corporations – Departmental Undertakings-Municipal undertakings Government Companies
- 1.3 Road development in India – National Urban Renewal Mission –National Highways- Inter-state importance- Road development in sensitive boarder areas and tribal roads.
- 1.4. City transport in India: Means of Transport-Mass Transport System- Problems of City Transport

Module 2: Indian Railway (Hours 15, Credit - 01)

- 2.1. Nature and scope of Railway transport–Laws of Returns and Railway transport.
- 2.2. Indian Railways: Growth of Railway during Pre and Post-Independence period- Government Initiatives to improve Railways Sector in India
- 2.3. Mobility of Indian Railway to Passengers: Types of Travel- Convenience and Comfort- Railway Tourism

2.4. Rail Transport Policy: Pricing of Railway Transport Services (Passengers and Goods)– classification of goods- Metro, Mono and Bullet Train- Privatization of Rail transport - International Cooperation and Rail development.

Module 3: Water Transport and Air Transport (Hours 15, Credit - 01)

3.1. Water Transport: Scope and significance – Growth of water transport in India – Inland and ocean transport- Modes of transportation and their advantages and disadvantages - Problems of water transport

3.2. Indian shipping – Ports and harbors – Different types and size of ships (Foreign going, Coastal, inland vessels etc.) – Concept of Multimodal Transport –Risk and liabilities of Multimodal Carrier

3.3. Air Transport: Nature and Significance –Growth of Air Transportation in India - Civil Aviation in India: Establishment-administrative structure-types of airline operations- Privatization of Air Transport, Airport functions-Chicago convention on international aviation.

3.4. Nationalization and privatization of air transport. – Problems of Air Transport Recent Developments in Air Transport in India

Module 4: Introduction of Communication (Hours 15, Credit - 01)

4.1 Meaning of Communication–Classification, Significance and Growth in India

4.2 Media – Print, Electronic and social media- Technological development in media-Role of media in economic development

4.3 Tele conferencing – Prasar Bharati –Public (BSNL and MTNL) and Private Service Providers Advertisements in communication – Communication policy of India

4.4 Mass- Communication, Satellite Communication, Development in Mobile Technology, Information and communication technology (ICT) major economic drivers for the country.

READING LIST:

1. Aboncher Allan (1976), Transportation Economics and Public Policy with Urban Extension, Wiley Inter Science Publishing, New York.
2. Denis Munby (Ed.), Transport – Selected Reading s- Penguin Books.
3. Innon and Toreifel (Ed.) (1967), Developments in Transport Theory, Academic Press, London.
4. Johnson, Economics of Indian Rail Transport.
5. Kosler, H. M., The Economics and Control of Road Rail Competition.

6. Locklin, D. P.: Economics of Transport
7. Nanjundappa, D. H. (1973), Transport Planning and Finance, Karnataka University.
8. Nawab, K. W. (1967), Economic Development of Indian Air Transport, National Publishing House.
9. Pegrum, D. F. (1968), Transportation Economics and Public Policy, Irwin Series in Economics.
10. Prest, A. R., Transportation Economics in Developing Countries
11. R. N. Kshirsagar, Vahatuk: SiddhantVaVikas, Maharashtra Vidyapeeth Granth Nirmiti Mandal, Nagpur.
12. S. K. Choudhary (1967) Lectures on Transport, Lyall Book Depot.
13. Savage, C. I.(1970), An Economic History of Transport, Hutchinson University Library.
14. Shankar Keshav Modak, A Adhunik Parivahanache AA rthshastra, Maharashtra Vidyapeeth Granth NirmitiMandal, Nagpur.
15. Sharp, C. H. (1973), Transport Economics, Macmillan.
16. Shrivastan, S. K., Economics of Transport Tripathy, P. C. (1972), Rural Transport and Economic Development, S. Chand

M.A-II SEM-III

Course Name : **Indian Economic Policy**

Type : Major Elective

Course Number: ME4

Course Code : MAU0325MEL515I4

Course Credit : 04

Marks : Sem End.80 Internal Assessment: 20 Total Marks:100

Course Outcomes: After successful completion of this course the student will be able to

- Understand the frame work of Indian economy
- Equip with development strategies of Indian economy
- Learn about the economic policy and industrial sector
- Discuss the monetary policy and infrastructural development

Module 1. Framework of Indian Economy**(Hours 15, Credit - 01)**

1.1 Economic policy: An Introduction, Meaning, importance

1.2 National income: Trends and Structure of National Income

1.3 Demographic features and indicators of Economic Development & Growth, Rural-Urban migration, Indian population policy.

1.4 Poverty and inequality, Nature, policy & implications.

Module 2. Development Strategies in India**(Hours 15, Credit - 01)**

2.1 Agricultural Pricing, marketing & finance policies.

2.2 Economic Reforms – Rationale of Economic Reforms, Liberalization, Privatization and Globalization of the economy.

2.3 Redefining the role of public sector, Government policy towards public sector, Tax reforms and policy parallel Economy in India.

2.4 Assessment of Economic Reforms, Planning commission to NITI Aayog

Module 3. The Economic Policy and Infrastructure Development (Hours 15, Credit - 01)

3.1 Energy and Transport

3.2 Social Infrastructure - Education and Health.

3.3 Issues and policies in financing infrastructure Development.

3.4 Indian Financial System – Money Market and Monetary Policy – financial Sector Reforms – Review of Monetary Policy of R.B.I., Capital Market in India

Module 4. The Economic Policy and Industrial Sector (Hours 15, Credit - 01)

- 4.1 Industrial Sector in Pre-reforms Period, Growth and Pattern of Industrialization.
- 4.2 Industrial Sector in Post – reform Period – Growth, Pattern and Small-Scale Industries.
- 4.3 Labour Market - Issues in Labour Market, Reforms & Approaches to Employment Generation.
- 4.4. The economic policy and status of employment and unemployment - Nature, Central and State Government's policies, Policies implications.

READING LIST

1. Ahluwalia.I.J. and I.M.D. Little 1999. India's Economic Reforms and Development.
2. (Essays in Honour of Manmohan Sing), Oxford University Press, New Delhi.
3. Bardhan PK. (9th Edition) (1999) The Political Economy of Development in India. Oxford University Press, New Delhi. 10
4. Bawa R.S. and P.S. Raikhey (Ed) (1977). Structural Changes in Indian Economy. Guru Nanak Dev University Press, Amritsar.
5. Brahmananda PR and V.A. Panchmukhi (Eds) (2001), Development Experience in Indian Economy, Inter-State Perspectives, Bookwell, Delhi.
6. Chakravarti, S. (1987). Development Planning; The Indian Experience, Oxford University Press New Delhi.
7. Gupta, S.P. (1989), Planning and Development in India; A Critique, Allied Publishers Private Limited, New Delhi.
8. Krishnamachari, V.T. (1962); Fundamental of Planning in India, Orient Longmans, Bombay. 9. Bhagwati, Jagdish (2004); In Defense of Globalization, Oxford University Press U.K.
10. ILO (2004); A Fair Globalization, Creating Opportunities for All Report of the World Commission on the Social Dimension of Globalization.
11. Tidsell, Clem and Sen, Raj Kumar (Ed) (2004) Economic Globalization.
12. Government of India, Economic Survey (2004-05)
13. Bhattacharya, Aditya and Marzit, Sugata (Eds) (2004), Globalization and Developing Economies; Theory and Evidence, Manohar, New Delhi.
14. Jha Raghendra (Ed) (2003); Indian Economic Reforms, Hampshire, U.K.

15. Bajpai, Nirupam and Jeffrey, D.Sachs (2000); Fiscal Policy in Indias Economic Reforms (included in India in the Era of Economic Reforms, Edited by Sachs, Varshney and Baijpai) Oxford University Press, New Delhi.
16. Chug, Ram L. and Uppal, J.S. (1985) Black Income in India. Tata McGraw Hill N Sage Publication, New Delhi.
17. Gupta Suraj B. (1992) Black Income in India Sage Publication, New Delhi.
18. Kabra Kamal Nayan and Jagannathan, N. S. (1985), Black Money, India International Centre, New Delhi.
19. Goel, S.L. (2002) Advanced Public Administration, Deep and Deep Publication, New Delhi.
20. Meenakshi,S.(1994) Decentralisation in Developing Countries.
21. Noorjahan, Bava; People's Participation in Development Administration in India.
22. Dhingra Ishwar C (2006); Indian Economy, Sultan Chand & Sons, New Delhi.
23. Datt, Ruddar and Sundaram, K.P.M. (2004); Indian Economy, S.Chand & Co. New Delhi.

M.A-II SEM-III

Course Name : **Urban Economics**

Type : Major Elective

Course Number: ME5

Course Code : MAU0325MEL515I5

Course Credit :04

Marks : Sem End.80 Internal Assessment: 20 Total Marks:100

Course Outcomes: After successful completion of this course the student will be able to

- Understand urbanization and human settlements.
- Analyze the economics of city size
- Understand the urban problems.
- Analyze the urban planning and management

Module1: URBANISATION AND HUMAN SETTLEMENTS (Hours 15, Credit - 01)

- 1.1. Urbanization: Meaning – World Urbanisation - Urbanization in India; urban size and growth - Pattern of urbanization
- 1.2. Urban morphology- factors of urbanization.
- 1.3 Human Settlements: urban spatial structure
- 1.4. Agglomeration economics – urban sprawl

Module 2: ECONOMICS OF CITY SIZE (Hours 15, Credit - 01)

- 2.1. Smart city: Concept – Problems and Prospects
- 2.2. Market forces in the development of cities- size of city
- 2.3. Economics of location: Central place theory-Industrial location theory
- 2.4. Economic base theory and economic base multiplier

Module 3: URBAN PROBLEMS (Hours 15, Credit - 01)

- 3.1. Housing and Slums -Drinking Water - Sanitation system
- 3.2. Urban crime - Poverty and inequality - Urban quality of life measurement
- 3.3. Transport and Communication
- 3.4. Urbanization and Climate change

Module 4: URBAN PLANNING AND MANAGEMENT (Hours 15, Credit - 01)

- 4.1 Concept of town and urban planning - Urbanization Policy Role of real estate.
- 4.2 Financing of urban infrastructure: Municipal bonds
- 4.3 Role of civil society in Planning and Management
- 4.4 Urban Local government - Role - revenue sources - Municipal Administration

READING LIST:

1. Alonso, W. (1965), Location and Land Use, Harvard University Press, Cambridge.
2. Batty, M. (1976), Urban Modelling, Cambridge University Press, Cambridge.
3. Berry B. J. L. and J. Kasarda (1977), Contemporary Urban Ecology, Macmillan, London.
4. Berry, B. J. L., City Size Distribution and Economic Development, Economic Development and Cultural Change, Vol. 9.
5. Bose, A. N. (1980), Urban Economics: A Trend Report of Indian Council of Social
6. Cherunilam, Francis (1984), Urbanisation in Developing Countries, Himalaya Publishing
7. Development Planning in India, Vikas Publishing House, Delhi.
8. Di Tella, R. and E. Schardgrosky (2004). "Do Police Reduce Crime? Estimates using the Allocation of Police Force after a Terrorist Attack." American Economic Review, Vol.94. [What are the estimation problems on crime reduction studies? How can a natural experiment help?]
9. Diamond, D. B. and G. S. Tolley (1982), The Economics of Urban Amenities, Academic Press, New York.
10. Dube, K. K. and a. K. Singh (1988), Urban Environmental in India, Inter- India, New Delhi.
11. Global report on human settlements (2011) Cities and Climate Change, United Nations Human Settlements Programme.
12. Goodal, B. (1972), The Economics of Urban Areas, Pergamon Press, New York.
13. Hirsch, W. E. (1978), Urban Economic Analysis, McGraw Hill Book Company, New York.
14. Holmes, T. (2000) "The Location of Industry: Do States' Policies Matter,?" Regulation, Vol. 23, No. 1, 47-50
15. Ingram, G., J. F. Kain and J. R. Ginn (1972), The Detroit Prototype of the NBER
16. Jan K Brueckner (2013): Lectures on Urban Economics, PHI Learning Pvt. Ltd. Delhi.
17. Johnson, E. A. J. (1970), The Organization of Space in Developed Countries, Harvard University Press, Harvard.
18. Leahy, Mackee and Dean (1970) Urban Economics, Free Press New York

M. A. II SEM III

Course Name	: Economics of Energy
Type	: Major Electives
Course Number	: ME6
Course Code	: MAU0325MEL515I6
Course Credits	: 4
Marks	: Semester End: 80 Internal Assessment: 20 Total Marks: 100

Course outcomes: After successful completion of this course, the students will be able to:

- Study energy in economic perspective.
- Understand the theoretical as well empirical aspects of energy.
- Train about energy and environmental crisis.

Module	1: INTRODUCTION TO ECONOMICS OF ENERGY	(15 Periods)
	1.1. Natural Resources: Classification - Importance - Role in Economic Development	
	1.2. Energy Resources: Types and Classification - Properties of Energy - Forms of Energy	
	1.3 Energy Indicators	
	1.4. Emergence of Energy Economics: Nature and Scope - Energy Economics in relation with other branches	
Module	2: ENERGY AND DEVELOPMENT	(15 Periods)
	2.1. Role of Energy in Economic Development	
	2.2. Energy Intensity and Energy Elasticity: National and International comparison; Low, Middle and High Income Economies Role of International Institutions; OPEC (Organization of the Petroleum	
	2.3. Exporting Countries) OAPEC (Organization of Arab Petroleum Exporting Countries)	
	2.4. IEA (International Energy Agency) and World Bank.	
Module	3: ENERGY CONSERVATION AND ENVIRONMENT	(15 Periods)
	3.1. Energy Planning, Energy Conservation and Energy Management: Meaning, Objectives and Importance	
	3.2. Recent Developments: Energy Auditing - Energy Accounting - Energy Pricing	
	3.3. Energy Crisis: Causes, Consequences - Remedial measures	
	3.4. Environmental Crisis: Causes, Consequences, Remedial Measures - Impact of Energy Consumption and Production on Environment	

Module 4:	ENERGY PROFILE OF INDIA	(15 Periods)
	4.1. Indian Energy Sector - Organizational Structure	
	4.2. Energy Supply (Coal, Lignite, Oil, Gas and Powers - Hydro, Nuclear, Thermal)	
	4.3. Energy Demand (Agriculture, Industry, Transport, Domestic, etc)	
	4.4. Energy Policy of India	

READING LIST:

1. Mamoria C. B. (2022): Economic and Commercial Geography of India, Shiva Lal Agarwala & Company
2. Agarwal, M.C. and Monga, J. R. (1992) Economic and Commercial Geography, National Publishing House, New Delhi
3. Common, M. (1996) Environmental and Resource Economics, Longman, London,
4. Datta and Sundharam (2024): Indian Economy, S Chand, New Delhi.
5. Hemalata Rao (1990) Rural Energy Crises: A Diagnostic Analysis, Ashish Publishing House, New Delhi
6. Kneese. A.V and Sweeny, J.L (1993) Handbook of Natural Resource and Energy Economics, North Holland, Munasinghe, M and Meier, P -Energy Policy and Modelling (Cambridge University Press, UK, 1993).
7. Mishra and Puri (2023) Indian Economy, Himalaya Publishing House, Mumbai
8. Sickles Robin (2008): Energy Economics, The New Palgrave Dictionary of Economics.
9. Paul Stevens (Ed) 2000) The Economics of Energy, Vol. I and II, Edward Elgar
10. Raikhy, P. S. and Parminder Singh (1990), Energy Consumption in India - pattern and Determinants, Deep and Deep, New Delhi
11. Sankar U. (1992) Public Sector Pricing: Theory and Applications (IEA Trust for Research and Development,
12. Santra, S. C. (2020) Environmental Science, New Central Book Agency (P) Limited, Calcutta
13. TERI (2017) Teri Energy Data Directory and Year Book 2017, The Energy Research Institute
14. William Burch (Ed.) (1997) Readings in Ecology, Energy and Human Society: Contemporary Perspectives (Harper and Row, New York.
15. Singh Jiwitesh Kumar and Debendra Kumar Das (2008): Environmental Economics and Development, Deep and Deep Publication Pvt. Ltd., New Delhi.

M. A. II SEM III

Course Name	: Mathematical Economics - II
Type	: Major Electives
Course Number	: ME7
Course Code	: MAU0325MEL515I7
Course Credits	: 4
Marks	: Semester End: 80 Internal Assessment: 20 Total Marks: 100

Course outcomes: After successful completion of this course, the students will be able to:

1. Understand the game theory and input-output analysis
2. Learn the application of linear programming
3. Understand the national income determination models
4. Learn various theorems of distribution and consumption

Module 1: Game Theory and Input-Output Analysis **(Hours 15, Credit - 01)**

- 1.1. Concept of game – Two-person zero-sum game, Pay-off matrix, pure and mixed strategies,
- 1.2. Maximin and minimax solutions, Saddle point solution; Non-constant sum game
- 1.3 Input-output analysis: Open and closed systems,
- 1.4. Hawkins-Simon conditions; Leontief's dynamic model and static model

Module 2: Linear Programming **(Hours 15, Credit - 01)**

- 2.1. Linear programming – Basic concept of linear programming problem (LPP), Assumptions, Applications
- 2.2. Properties of Linear Programming Solution
- 2.3. Solution of LPP by graphical and simplex method
- 2.4. Primal and dual problem, application LP in economics

Module 3: National Income Determination **(Hours 15, Credit - 01)**

- 3.1. National Income: Meaning, Concepts
- 3.2. National Income Determination in two sector economy
- 3.3. National Income Determination in three sector economy, Balanced Budget Multiplier
- 3.4. National Income Determination in four sector economy

Module 4: Theory of Distribution and Consumption **(Hours 15, Credit - 01)**

- 4.1. Euller's theorem, Ricardian theory of distribution,
- 4.2. Marxian theory of distribution; Kaldor's model of distribution.
- 4.3. Consumption function, static and dynamic multiplier,
- 4.4. Acceleration principle

READING LIST

1. Abel, A., B. S. Bernanke and B. Mcnabb (1998), *Macroeconomics*, Addison Wesley, Massachusetts.
2. Allen, R. G. D. (1974), *Mathematical Analysis for Economics*, Macmillan Press and ELBS, London.
3. Allen, R. G. D. (1976), *Mathematical Economics*, Macmillan, London.
4. Arrow, K. J. and M. Intrilligator (Eds.) (1982), *Handbook of Mathematical Economics*, Volumes I, II and III, North Holland, Amsterdam.
5. Barro, R. J. and H. Grossman (1976), *Money, Employment and Inflation*, Oxford University Press, Oxford.
6. Chiang, A. C. (1986), *Fundamental Methods of Mathematical Economics*, McGraw Hill, New York.
7. Chung, J. W. (1993), *Utility and Production: Theory and Applications*, Basil Blackwell, London.
8. Ferguson, C. E. (1976), *Neo-classical Theory of Production and Distribution*.
9. Hadley, G. (1962), *Linear Programming*, Addison Wesley Publishing Co., Massachusetts.
10. Henderson, J. M. and R. E. Quandt (2003), *Microeconomic Theory: A Mathematical Approach*, McGraw Hill, New Delhi.
11. Hiller, F. S. and G. J. Lieberman (1985), *Operations Research*, C. B. S., New Delhi.
12. Jha, R. (1991), *Contemporary Macroeconomic Theory and Policy*, Wiley Eastern Ltd., New Delhi.
13. Jones, H. G. (1976), *An Introduction to the Modern Theory of Economic Growth*, McGraw Hill-Kogakusha, Tokyo.
14. Kothari, C. R. (1992), *An Introduction to Operations Research*, Vikas Pub. House, New Delhi.
15. Kuhn, Harold W. (Ed.) (1997), *Classics in Game Theory*, Princeton, University Press, Princeton.
16. Mankiw, N. G. and D. Romer (Eds.) (1991), *New Keynesian Economics (2 Vols.)*, MIT Press, Cambridge, Mass.
17. Mustafi, C. K. (1992), *Operations Research: Methods and Practice*, Wiley Eastern, New Delhi.
18. Nash, J. F. (1996), *Essays on Game Theory*, Cheltenham, U. K.

M. A. II SEM III

Course Name	: Economics of Social Sector and Environment
Type	: Major Electives
Course Number	: ME8
Course Code	: MAU0325MEL515I8
Course Credits	: 4
Marks	: Semester End: 80 Internal Assessment: 20 Total Marks: 100

Course outcomes: After successful completion of this course, the students will be able to:

- Understand and apply the key economic concepts in the context of Social sector like welfare, education, healthcare and environment.
- Understand link between environment, health, educational system and economic development.

MODULE I: ECONOMICS OF WELFARE (Hours 15, Credit - 01)

- 1.1) Economics Welfare- Concept, Measurement and determinants.
- 1.2) Fundamental theorems of welfare economics: Pareto welfare optimality conditions.
- 1.3) Externalities and market-externalities and market inefficiency – externalities as missing markets- Property rights and externalities.
- 1.4) Optimal provision of public goods: Partial and General Equilibrium Analysis- Vicksell and Lindahl model of provision of public good.

MODULE II: ECONOMICS OF EDUCATION (Hours 15, Credit - 01)

- 2.1) Concept and definitions of Education, Education as Consumption and Investment goods. Role of education in economic development and Human development. Human Capital- the concept, components of human capital, Human capital and human development. Human Capital Theory.
2. 2) Cost benefit analysis of Education: Cost of Education; private costs and social costs- Benefits of education; Direct and indirect benefits of education, private and social benefits.
2. 3) Indian Education System - Vedic, Buddhist and Modern Educational System. Educational reforms in India. Government's role in financing education at different levels. New Education Policy- 2020, Merits and Demerits.
2. 4) Education as industry, consumption, individual social and national investment. Public and Private Education Merits and Demerits.

MODULE III: ECONOMICS OF HEALTH**(Hours 15, Credit - 01)**

- 3.1) Concept, Nature and Scope of Health Economics. Health dimensions of development- determinants of health- Economic dimensions of Health care demand and supply of health care.
- 3.2) Healthcare Financing, Inequalities of Health- Class and Gender Perspectives.
- 3.3) Health Sector in India, Health Insurance Schemes in India.
- 3.4) Role of health in economic development and human development

MODULE IV: ECONOMICS OF ENVIRONMENT**(Hours 15, Credit - 01)**

- 4.1) Environmental Economics- Meaning and Significance, Interlink age between economy and Environment.
- 4.2) Meaning and Types of Environmental Values: Total Economic Value, Use value, Non-use Value, Existence value, Option value: Future use value, Bequest value. Vicarious value.
- 4.3) Techniques/Methods of Environmental Valuation: Direct Methods: Contingent Valuation Method, Trade of Games Method, Costless Choice Method and Delphi Technique. Indirect Methods: Hedonic Pricing Method, Travel Cost Method
- 4.4) Theories of optimal use of exhaustible and renewable resources. Environmental Policy: Market Processes/Pricing/Fiscal Techniques/Economic Incentives: a) Effluent Charge /Pollution tax b) Subsidies c) Refundable Deposits d) Pollution Permits e) Allocation of Property Rights: Coase's bargaining solution and collective action.

READING LIST:

- 1) Berman, P. (Ed.) (1995), Health Sector Reforms in Developing Countries: Making Development Sustainable, Boston: Harvard Series on Publication and International Health.
- 2) Blaug, M. (1972), Introduction to Economics of Education, Penguin, London.
- 3) Bromely, D. W. (Ed.) (1995), Handbook of Environmental Economics, Blackwell, London.
- 4) Cohn, E. And T. Gaske (1989), Economics of Education, Pergamon Press, London.
- 5) Baru, R. V. (1998), Private Health care in India: Social Characteristics and Trends, Sage Publications, New Delhi.

M. A. II SEMESTER – III

Course Name : Research Project
Type : **Research Project**
Course Number : RP1
Course Code : MAUO325RPL515I
Course Credits : 4
Marks : Semester End: 80 Internal Assessment: 20 Total Marks: 100
Course outcomes: After completion of this Research Project, the students will be able to:

- Identify the research problems and formulate objectives.
- Choose appropriate methodology with proper tools and techniques.
- Analyze and interpret the data collected from different sources.
- Make decision or find out conclusions based on data analysis.

Instructions for teachers and students while doing Research Project:

1. Selection of Research project should be related to the mandatory or elective courses in the concerned subject.
2. Research project should be **FORMALLY ASSIGNED** (in written form) by concerned teacher to every student. It should not be done in common.
3. Students are required to prepare the project report based on field work (or secondary data) and studying the current trends in economics under the guidance of the project guide.
4. Submission of Research Project Report duly signed and certified by concerned teacher/guide is **A PRE- REQUISITE FOR APPEARING TO VIVA-VOCE EXAMINATION.**
5. **TWO COPIES** of Research Project Report in **BOUND FORMAT** should be submitted before Viva-Voce. One copy will be kept by department and the remaining will be returned to student.
6. Prepare an Appropriate Format for Writing the Research Report. Kindly see that the First Page and Certificate Page are common for all students. In the remaining part, try to maintain uniformity.

The format may be as follows:

- Chapter I** : Introduction and Research Methodology
Chapter II : Review of Literature / Theoretical Background / Conceptual Framework
Chapter III : Profile of the Organization / Area
Chapter IV : Analysis and Interpretation of the Data
Chapter V : Conclusion - It will include observations, findings, conclusions and suggestions

M. A. II SEM- IV

Course Name	: International Economics
Type	: Major Mandatory
Course Number	: MM1
Course Code	: MAUO325MML515J1
Course Credits	: 4
Marks	: Semester End: 80 Internal Assessment: 20 Total Marks: 100

Course outcomes: After successful completion of this course, the students will be able to:

- Students will be able to analyze and apply the trade theories and theories of tariff.
- To provide strong theoretical background to the students about international trade.
- It also helps understand the empirical aspects such as trade reforms and their impact on India economy.
- Students would know the country's position regarding international trade, payments, and foreign exchange.
- The students would learn the methods regarding improvement in terms of trade, international debt and balance of payments positions.

Module 1: THEORIES OF INTERNATIONAL TRADE (Hours 15, Credit - 01)

1.1 The Theories of International Trade: Meaning and Distinguishing Features of Inter-regional and International Trade.

1.2. Classic Theory of Comparative Advantage: Views of Adam Smith, Mill, Haberler and Ricardo.

1.3. Factor Endowment and Heckscher- Ohlin Theory of Trade: Factor Price Equalization, Stolper- Samuelson theorem, Rybezynski theorems.

1.4. Complementary Trade Theory, Economic Growth and International Trade: Growth of Factor Production, Technical Progress.

Module 2: GAINS FROM INTERNATIONAL TRADE & THEIR MEASUREMENT (Hours 15, Credit - 01)

2.1. Factors affecting Gains from International Trade - Measurement and Distribution of Gains from trade

2.2. Terms of Trade; Concepts, Factors affecting, Uses & Limitations

2.3. Theory of Reciprocal Demand - Hypothesis of secular deterioration of terms of Trade

2.4. Empirical Relevance and Policy Implications for Less Developed Countries, Terms of Trade and Welfare Implications.

Module 3: THEORY OF INTERVENTIONS IN TRADE (Hours 15, Credit - 01)

- 3.1. Free Trade and Protective Trade: Arguments in favour & against
- 3.2. Barriers to Trade: Tariffs; Meaning- Types – Effects- Optimum Tariff - Effective Rate of Protection/ Tariff
- 3.3. Barriers to Trade: Non-Tariffs; Quotas, Exchange Control, Price Discrimination/ Dumping, State Trading, Subsidies, Commodity Agreements, International Cartels- Political Economy of Protection.
- 3.4. Effects of Tariffs under General Equilibrium, Samuelson Theorem.

Module 4: THEORY OF BALANCE OF PAYMENTS AND ECONOMIC INTEGRATION (Hours 15, Credit - 01)

- 4.1 Balance of Payment: Meaning, Structure and Components, Causes of Disequilibrium and Remedies. Measures to Correct the Adverse Balance of Payments.
- 4.2 Adjustment Mechanisms; Devaluation and ‘J’ Curve Effect, Marshall - Lerner’s Conditions Elasticity and Absorption approaches. Income Adjustment- Foreign Trade Multiplier, Foreign Repercussion or Back-Wash effect.
- 4.3 Economic Integration / Cooperation: Meaning, Forms and Benefits –Theory of Customs Union - Regional Blocks: SAARC, ASEAN- EU.
- 4.4. Multilateralism and WTO –Conditionality clause of IMF.

READING LIST:

1. Agarwal, M. R. (1979), Regional Economic Cooperation in South Asia, S. Chand and Co., New Delhi.
2. Bhagwati, J. (Ed.) (1981), International Trade, Selected Readings, Cambridge University Press, Massachusetts.
3. Brahmananda, P. R. (1982), The IMF Loan and India’s Economic Future, Himalaya publishing House, Bombay.
4. Carbough, R. J. (1999), International Economics, International Thompson Publishing, New York.
5. Chacholiades, M. (1990), International Trade: Theory and Policy, McGraw Hill, Kogakusha, Japan.
6. Dana, M.S. (2000), International Economics: Study, Guide and work Book, (5th Edition), Routledge Publishers, London.
7. Dunn, R. M. and J. H. Mutti (2000), International Economics, Routledge, London.
8. Francis Cherunilum, International Trade and Export Management, Himalaya Publishing House, Delhi.
9. Greenway, D. (1983), International Trade Policy, Macmillan Publishers Ltd., London.
10. Joshi V. and I.M.D. Little (1998), India’s Economic Reforms, 1999-2000, Oxford University Press, New Delhi.

11. Kenen, P. B. (1994), *The International Economy*, Cambridge University Press, London.
12. Kindleberger, C. P. (1973), *International Economics*, R. D. Irwin, Homewood.
13. Kindleberger, C. P. (1996), *A History of Financial Crisis: Manias, Panics and Crashes (3rd Edition)*, John Wiley and Sons, New York.
14. King, P. G. (1995), *International Economics and International Economic Policy: A Reader*, McGraw Hill International, Singapore.
15. Krugman, P. R. and M. Obstfeld (1994), *International Economics: Theory and Policy*, Ienview, Foresman.
16. Manmohan Singh (1964), *India's Export Trends and the Prospects for Selfsustained Growth*, Oxford University press, New Delhi.
17. Mithani, D.M. (1997), *International Economics*, Himalaya Publishing House, Delhi.
18. Mundell, R. (1968), *International Economics*, The Macmillan Company Ltd., New York.
19. Nayyar, D. (1976), *India's Exports and Export Policies in the 1960s*, Cambridge University Press.
20. Panchmukhi, V. R. (1978), *Trade Policies of India-A Quantitative Analysis*, Concept Publishing Company, New Delhi.
21. Patel, S. J. (1995), *Indian Economy Towards the 21st Century*, University Press, Ltd., India.
22. Pomfret, R. (1996), *International Trade: An Introduction to Theory and Policy*, Basil Blackwell, Oxford.
23. Rana and Verma (2010), *International Economics*, Vishal Publishing Company, Delhi.
24. Salvatore, D. (1997), *International Economics*, Prentice Hall, Upper Saddle River, N. J. New York.
25. Satyanarayan, B. (1986), *India's Trade with Asia and The Far East Countries*, B. R. Pub. Corp., New Delhi. 27
26. Soderstrom, Bo (1991), *International Economics*, The Macmillan Press Ltd., London.
27. Soloman, R. (1982), *The International Monetary System 1945-1981*, Harper and Row Publishers, New York.
28. Verma, M. L., (1995), *International Trade*, Vikas Publishing House Pvt. Ltd., Delhi

M. A. II, Sem - IV**Course Name : Economics of Growth and Development****Type : Major Mandatory****Course Number : MM2****Course Code : MAU0325MML515J2****Course Credits : 04****Marks : Semester End : 80 Internal Assessment : 20 Total Marks : 100****Course Outcomes :** After successful completion of this course, the students will be able to

- understand the Economic Growth and Development
- analyze Theories of Development
- equip with social and Sectoral aspects of Development
- understand the Macroeconomic Policies

Module I - Economic Growth and Development (Hours 15, Credit - 01)

- 1.1 Basic characteristics of LDC – Indicators of Development
- 1.2 Factors affecting economic growth - features of modern economic growth
- 1.3 Models of economic growth: The Harrod - Domar model, Solow's model
- 1.4 Kaldor model of income distribution - Golden age model - Fei and Ranis model

Module II - Theories of Economic Development (Hours 15, Credit – 01)

- 2.1 Classical theory of development: Contributions of Adam Smith, Mill, Ricardo, Malthus theory of development - Karl Marx theory of economic development
- 2.2 Low level equilibrium trap - Theory of critical minimum effort - big push theory
- 2.3 Theory of backwash effects - Theory of balanced growth - Theory of unbalanced growth
- 2.4 Theory of unlimited supplies of labour

Module III - Social and Sectoral Aspects of Development (Hours 15, Credit - 01)

- 3.1 Choice of techniques and appropriate technology and employment
- 3.2 Terms of trade between agriculture and industry
- 3.3 Measuring development and development gap- Kuznet curve
- 3.4 Human Development Index - Multidimensional Poverty Index

Module IV- Macroeconomic Policies and Development (Hours 15, Credit – 01)

- 4.1 Role of monetary and fiscal policies in developing countries
- 4.2 Inclusive Growth - Washington Consensus
- 4.3 Decentralization - Micro level planning
- 4.4 Review of post liberalization development performance of India

Reference Books

1. Adelman I. (1961) Theories of Economic Growth and Development, Stanford University Press, Stanford.
2. Behrman S. and T. N. Srinivasan (1995), Handbook of Development Economics, Vol. 1 to 3, Elsevire, Amsterdam, Economics 31
3. Ghatak, Subrata (1986), Introduction to Development Economics, Allen and Unwin, London
4. Hayami, Yujiro and Yoshihisa Gado (1997), Development Economics, Oxford university, Press, New York
5. Higgins, Benjamin (1980), Economic Development, Norton, new York
6. Kindleberger, C. P. (1965), Economic Development, 3e, McGraw Hill, New York
7. Meier, Gerald M. and James E. Rauch (2005), Leading issues in Economic Development, 6e, oxford University Press, new Delhi
8. Myint Hla (1965), The Economics of Underdeveloped Countries, preager, New York
9. Myint Hla (1971), Economic Theory and Underdeveloped Countries, Oxford University Press, new york
10. Thirwal, A. P. (199), (sixth Edition), Growth and Development, Macmilan, London
11. Bhagwati, J. and P. Desai (1970), India: Planning for Industrilization, oxford University Press, London
12. Boserup, Ester (1981), population and Technological Change : A Study of Long Term Change, Chicago University Press, Chicago
13. Brahamananda P. R. and C. N. Vakil (1956), Planning for an Expanding Economy, Vora and Co. Bombay
14. Puri V. K. and S. K. Misra (20160, Economics of Development and Planning, Himalaya Publishing House
15. Datta Gaurav and Ashvini Mahajan (20160, Indian Economy, S. Chand Publishing, New Delhi
16. Todaro Michael P. and Stephen C. Smith (2017), Economic Development, Pearson Education
17. Chakravarti, Sukhamoy (1982), Alternative Approaches to the Theory of Economic Growth, Oxford University Press, Delhi

18. Chakravarti, Sukhamoy (1987), Development Planning : The Indian Experience, Clarendon Press, Oxford
19. Jhingan M. L. (2005), The Economics of Development and Planning, Vrinda Publications, Limited Delhi
20. Lekhi R. K. (2005), Economics of Development and Planning, Kalyani Publishers, delhi
21. Patil J. F. (2005), Economics of Growth and Development (Marathi), Phadake Publishers, Kolhapur
22. Patil J. F. and Tamhankar P. J. (1990), Economics of Development and Planning (Marathi), Continental Publishers, Pune
23. Kavimandan (1975), Economics of Development and Planning (Marathi), Mangesh Prakashan, Nagpur

M. A. II SEM - IV**Course Name : Advanced Banking****Type : Major Mandatory****Course Number : MM3****Course Code : MAU0325MML515J3****Course Credits : 04****Marks : Semester End: 80 Internal Assessment : 20 Total Marks : 100****Course outcomes:** After successful completion of this course, the students will be able to:

- Aware with banking technology, recent trends in banking sector.
- Achieve as a specific skill which are required for banking sector.
- Get latest information about the advancement in Indian banking system.

Module 1: Banking Technology in India**(Hours 15, Credit - 01)**

1.1. Applications of ICT in Banking, Importance of ICT in Banking, Objective and Role of IDRBT

1.2. Internet Banking Nature, Scope and RBI's Guidelines on Internet Banking

1.3 Mobile Banking - Nature, Scope, Mobile Apps, and RBI's Guidelines on Mobile Banking

1.4. Electronic Clearing- ECS-Credit & Debit, IMPS, NACH, CTS, BBPS, NFET, RTGS & SWIFT

Module 2: Credit and Risk Management in Banks**(Hours 15, Credit - 01)**

2.1. Asset Liability Management - RBI Guidelines ALCO Guidelines techniques / tools

2.2. Capital adequacy, Prudential and Exposure norms, BASEL I, II, III

2.3. Risk in Banking Sector - Credit Risk, Liquidity Risk, Interest Rate Risk, Market Risk, Operational Risk, Currency Risk and Sovereign Risk, RBI guidelines on risk management

2.4. Organization and Functions of ALCO, Case studies on Risk Management

Module 3: Banking & Cyber Laws**(Hours 15, Credit - 01)**

3.1. Negotiable Instruments Act 1881. The Bankers' Books Evidence Act-1891

3.2. The SARFEASI Act-2002, Prevention of Money Laundering Act, 2002,

3.3. Meaning and Types of Cyber Crimes in Banking Sector, Information Technology Act, 2000

3.4. Data Security and Importance, Case Studies on Cyber Crimes

Module 4: Bank Management Practices**(Hours 15, Credit - 01)**

- 4.1. Structure and nature of Head office and Regional Offices
- 4.2. Duties and Responsibilities of General Manager and Regional Manager
- 4.3. Structure and staff of the Branch office, Role of Branch Manager
- 4.4. Case Study on functioning of Head office, Regional Office and Branch Office

READING LIST:

1. Eddie Cade, Managing Banking Risks, Woodhead Publishing Ltd., in association with The Chartered Institute of Bankers, England.
2. IIBF, Credit and Risk Management, McMillan Publications
3. Jyotsna Sethi and Nishwan Bhatia, Elements of Banking and Insurance, Prentice Hall of India: New Delhi
4. M.L Tannan, C.R. Datta & S.K. Kataria (2011) Banking Law and Practice, Wadhwa & Company, Nagpur
5. Right to Information Act, 2005
6. S. R. Bhansali, Information Technology Act, 2000 (2003), University Book House Pvt. Ltd., Jaipur
7. Sudhir Naib, The Information Technology Act, 2005 (2011), A Handbook, OUP, New York,47
8. The Bankers 'Books Evidence Act-1891
9. The Securitisation and Reconstruction of Financial Assets and Enforcement of Security Interest Act-(SARFASI-2002)
10. Vasant C. Joshi and Vinay V Joshi (1998), Managing Indian Banks: The Challenges Ahead, Response Books, New Delhi.
11. Vasu Deva, Cyber Crimes and Law Enforcement (2003), Commonwealth Publishers, New Delhi

M. A. II SEM - IV**Course Name : Co-operative Thoughts and Administration****Type : Major Electives****Course Number : ME1****Course Code : MAU0325MEL515J1****Course Credits : 04****Marks : Semester End: 80 Internal Assessment: 20 Total Marks: 100****Course outcomes:** After successful completion of this course, the students will be able to:

- Understand the various Co-operative Thoughts.
- Understand the Co-operative Administration / Management
- Equip with Leadership and Human Resource Development
- Understand the Role of State and Co-operative Audit

Module 1: Co-operative Thoughts**(Hours 15, Credit - 01)**

1.1. Robert Owen - Rochadale Pioneers-, Charles Fourier - Paul Lambert

1.2. Scheultze Delitsche Raiffeisen - Frederick Nicholson

1.3. D. R. Gadgil- Vaikunthbhai Mehta.

1.4. International Co-operative Alliance: Organization and functions. I.C.A. and Co-operative Principles

Module 2: Co-operative Administration**(Hours 15, Credit - 01)**

2.1 Co-operative Management- Concept and Unique Features

2.1. Henry Fayol's general principles of management.

2.2. Management Structure: Types and procedure of general body meetings- Duties of Board of Directors - & role of Secretary/ Managing Director.

2.4. Concept of Corporate Governance.

Module 3: Leadership and Human Resource Development**(Hours 15, Credit - 01)**

3.1. Role of leadership – Leadership qualities – Leadership Development Programme.

3.2. Contribution of Co-operative Leaders: Vasantdada Patil, Padamshri Vikhe Patil, Tatyasaheb Kore

3.3. HRD and Education and training Facilities in India- Need and Problems

3.4. HRD - Recent Trends in Co-operative Management

Module 4: Role of State and Co-operative Audit**(Hours 15, Credit - 01)**

- 4.1. Role of state in co-operative movement: State aid and State control- Co-operative Legislations and need for reforms.
- 4.2. Co-operative Audit: Concept and Salient Features-Types
- 4.3. co-operative Supervision: BASEL Norms
- 4.4. Auditor: Duties, rights & responsibilities

READING LIST:

1. Chinchankar, P. Y. and Namjoshi, M. V., Co-operation and dynamics of Change, Somaiya, Bombay.
2. Cole, G. D. H., A Century of co-operation, George Allen and Unwin Ltd., London.
3. Dwivedi, Co-operatives –Values and Identity.
4. E. Paul Roy, Co-operation Today and Tomorrow, Interstate Printers and Publications, U. S. A.
5. Goel, S. L. & Goel, B. B., Co-operative Administration, Sterling Publications, New Delhi.
6. Gokhale Institute of Politics and Economics, Speeches and Writings of Professor D. R. Gadgil on Co-operation.
7. Govatia, B. S., Verma, H. L. and Others (1994), Co-operatives and Human Resource Development, Vol. 1 to 5, Deep and Deep Publications.
8. I. L. O., Geneva, (1959), Some Trends within the World Co-operative Movement.
9. International Co-operative Alliance: Review of International Cooperation.
10. Kamat, G. S. (1978), New Dimension in Co-operatives, Himalaya Publishing House.
11. Mehta Vaikunthbhai, Towards a Co-operative Socialist Commonwealth.
12. Patnaik and Roy, Co-operation and Co-operative Management, Kalyani Publishers, New Delhi.
13. Saxena, R. K., Evolution of Co-operative Thought, Somaiya Publications, Bombay. 54
14. Stephenson (1978), Management in Co-operatives, Himalaya Publishing House.
15. Taimani, K. K., Co-operative Organisation and Management.
16. Taimani, K. K., Training and Development of Human Resources in Co-operatives, Savin Brothers, New Delhi.

M. A. II SEM - IV

Course Name	: Statistics for Economics
Type	: Major Electives
Course Number	: ME2
Course Code	: MAU0325MEL515J2
Course Credits	: 04
Marks	: Semester End: 80 Internal Assessment: 20 Total Marks: 100

Course outcomes: After successful completion of this course, the students will be able to:

- Explain the concept and application of index number
- Understand various time series
- Uses of hypotheses testing and variance
- Understand probability and its rules

Module 1: Index Numbers**(Hours 15, Credit - 01)**

1.1. Index Number: Meaning, Concept, Importance, Characteristics and Uses

1.2. Types of Index Numbers and Problems in the Construction of Index Numbers

1.3Methods of Constructing Index Numbers: Unweighted Index Numbers-Simple Aggregative Method, Simple Average of Relatives Method

1.4. Methods of Constructing Index Numbers: Weighted Index Numbers- Laspeyers Method, Paasche Method, Dorbish and Bowley's Method, Fisher's Ideal Method, Marshall-Edgeworth Method and Kelly's Method

Module 2: Statistical Inference and Tests of Hypothesis**(Hours 15, Credit - 01)**

2.1. Hypothesis Testing-Meaning, Concept, Procedure, Type 1 and Type 2 errors

2.2. Goodness of fit; Confidence intervals and level of significance

2.3. Tests of Significance for Large Samples

2.4. Tests of Significance for Small Samples- Student's t test, Z test and Chi- Square Test

Module 3: Analysis of Variance**(Hours 15, Credit - 01)**

3.1. Analysis of variance: Introduction, assumptions and techniques

3.2. One-way classification

3.3. Two-way classification

3.4. ANOVA table; F-test

Module 4 : Probability Theory**(Hours 15, Credit - 01)**

4.1 Probability – Meaning, Basic Concepts

4.2 Types of Probability and Types of Events

4.3 Rules of Probability – Multiplication and Summation

4.4 Binomial Theorem

READING LIST:

1. Allen, R. G. D. (1974), *Mathematical Analysis for Economists*, Macmillan Press and ELBS, London.
2. Baumol, W. J. (1984), *Economic Theory and Operations Analysis*, Prentice Hall, Englewood Cliffs, New Jersey.
3. Chiang, A. C. (1986), *Fundamental Methods of Mathematical Economics*, McGraw Hill, New York.
4. Croxton, Crowden and Klein (1971), *Applied General Statistics*, Prentice Hall of India, New Delhi.
5. Elhance, D.N., Elhance, Veena and Aggarwal, B. M. (2015) *Fundamentals of Statistics*, KitabMahal, Allahabad
6. Goon, A. M., M. K. Gupta and B. Dasgupta (1993), *Fundamentals of Statistics*, Vol. 1, The World Press Ltd., Calcutta.
7. Gupta, S. C. (1993), *Fundamentals of Applied Statistics*, S. Chand & Sons., New Delhi.
8. Gupta, S.P. (2016) *Statistical Methods*, Sultan Chand & Sons, New Delhi
9. Handry, A. T. (1999), *Operations Research*, Prentice Hall of India, New Delhi.
10. Hogg, R. V. and A. T. Craig (1970), *Introduction to Mathematical Statistics (3rd Edition)*, Macmillan Publishing Co., New York.
11. Millar, J. (1996), *Statistics for Advanced Level*, Cambridge University Press, Cambridge.
12. Monga, G. S. (1972), *Mathematics and Statistics for Economists*, Vikas Publishing House, New Delhi.
13. Nagar, A. L. and R. K. Das (1993), *Basic Statistics*, Oxford University Press, New Delhi.
14. Reddy, C. R. (1990) : *Quantitative Methods for Management Decision*, Himalay Publishing House, Mumbai.
15. Singhal Mohan (2005:06) : *Elements of Statistics*, Lakshmi Narain Agrawal, Agra.
16. Speigal, M. R. (1992), *Theory and Problems of Statistics*, McGraw Hill Book Co., London.
17. Sukhatme, P. V. and B. V. Sukhatme (1970), *Sampling Theory of Survey with Applications*, Iowa State University Press, Ames.
18. Taha, H. A., (1997), *Operations Research: An Introduction (6th Edition)*, Prentice Hall of India Pvt. Ltd., New Delhi.
19. Yamane, Taro (1975), *Mathematics for Economists*, Prentice Hall of India, New Delhi.

M. A. II SEM - IV

Course Name	: Global Business Logistics
Type	: Major Electives
Course Number	: ME3
Course Code	: MAU0325MEL515J3
Course Credits	: 04
Marks	: Semester End: 80 Internal Assessment: 20 Total Marks: 100

Course outcomes: After successful completion of this course, the students will be able to:

- Understand the global business logistics.
- Learn International supply chain management.
- Understand the transportation activity
- Analyse the air and ocean transportation.

Module 1: Introduction to Global Logistics (Hours 15, Credit - 01)

- 1.1. Meaning, definitions and significance of global business logistics
- 1.2. Global Logistics System- Order processing, Warehousing, Inventory control, Transportation, Information monitoring and Facilities
- 1.3 Forms of Logistics Management-Centralized, Decentralized and Outsourcing, Documentation in Logistics,
- 1.4. Warehousing- System and Principles of Warehouse Operating, Importance of Warehouses

Module 2: International Supply Chain Management (Hours 15, Credit - 01)

- 2.1. Meaning and Objectives of International Supply Chain Management (SCM)
- 2.2. Principles and Need of Supply Chain Management, Difference Between Domestic and Global Supply Chain Management
- 2.3. Role of Supply Chain Manager, Supply Chain Decision
- 2.4. Case study on supply chain management

Module 3: Transportation Activity (Hours 15, Credit - 01)

- 3.1. Important Transportation activities- Terminal Facilities, Fleet management, Key Movers, Routing, and Transit time management, Distribution Pattern, Nature of Product, and Asset Tracking.
- 3.2. Elements of Customer Service in Transportation Activity- Pre- transaction, Transaction and Transaction,
- 3.3. Dimensions of customer services in Transportation- Availability, Consistency, Cost-effectiveness, Performance, and Reliability etc

3.4. Freight system- Meaning, Types of Freight Rate, Factors involved in Ratemaking, Determination of optimum freight rates

Module 4: Air and Ocean Transportation

(Hours 15, Credit - 01)

4.1. Air Transportation- Air transportation system in India, The Indian Air cargo Market, Categories of Air Transport Services, Air Freight Rate Classification

4.2. Problems relating to Air Transportation in India, Major Policy Initiatives

4.3. Shipping Industry - Classification and Characteristics, Freight Structure and Practices

4.4. Ocean Transportation- Concepts of containers, Types of containers, Advantages of containers, Indian container scenario, Problems & prospects of containerization

READING LIST:

1. Ballun, R. H., (2000). Business Logistics Management, Prentice Hall International, Inc.,
2. Dale Neef (2004). The Supply Chain Imperative, Amacom, 2004
3. Donald F. Wood, Anthony Barone, Paul Murphy, Daniel Wardlow (2012). International Logistics, Springer Science & Business Media, 2012
4. Donald J. Bowerson (2010) Logistic and Supply Chain Management, Prentice Hall of India
5. G Raghuram and N Rangaraj (2015) Logistics and Supply Chain Management: Macmillan Publication.
6. Krishnaveni Multiah () Logistic Management and World Sea Borne Trade, Himalaya Publication
7. Nandi S. K., Ganapathi S. L. (2015). Logistics Management, Oxford University Press, 2015
8. Osijek Croatia (2015). Business Logistics In Modern Management, Proceedings of The 15th International Scientific Conference
9. Rai Technology University (2016) International Logistics Management, Rai Technology University, Bangalore

M. A. II SEM - IV

Course Name	: Health Economics
Type	: Major Electives
Course Number	: ME4
Course Code	: MAU0325MEL515J4
Course Credits	: 04
Marks	: Semester End: 80 Internal Assessment: 20 Total Marks: 100

Course outcomes: After successful completion of this course, the students will be able to:

- Understand the nature of Health Economics.
- Know the nature and determinants of Demand and Supply for Health Care Services.
- Understand cost and benefit of health services.
- Understand Indian Health System.

Module 1: Introduction to Health Economics **(Hours 15, Credit - 01)**

- 1.1. Role of Health in Economic Development
- 1.2. Health Dimensions of Development- Determinants of Health- Poverty, Malnutrition and Environmental Issues.
- 1.3 Health as an Economic Good
- 1.4. Health Infrastructure: Government and Private.

Module 2: Demand and Supply of Health Care Services **(Hours 15, Credit - 01)**

- 2.1. Nature and Determinants of Demand for Health Care Services.
- 2.2. Elasticity of Demand for Health Care Services.
- 2.3. Nature of Supply of Health Care Services, Determinants of supply of Health Care Services
- 2.4. Pricing of health care services.

Module 3: Cost -Benefit Analysis of Health Services **(Hours 15, Credit - 01)**

- 3.1. Cost and benefits of health services.
- 3.2. Market failure in health services -Provision of Health Services by Government Sector
- 3.3. Production and cost of health care services
- 3.4. Profit maximization model in Health Care services

Module 4: Indian Health System **(Hours 15, Credit - 01)**

- 4.1. Indian Health System: Organization and Governance
- 4.2. Indian Health System- Status, Reforms and Challenges
- 4.3. Comparison of Indian Health System with developed countries
- 4.4. Public Expenditure on Health Care services in India

READING LIST:

1. A. J. Culyer and J. Newhouse (2000), Handbook of Health Economics, North-Holland, Amsterdam, (edited volume).
2. Banerjee, D. (1975), Social and Cultural Foundations of Health Service Systems of India, Inquiry, Supplement to Vol. XII, June.
3. Banerjee, D. (1982), Poverty, Class and Health Culture in India, Vol. I Prachi Prakashan, New Delhi.
4. Feldstein, M. S. (1977), Economic Analysis of Health Service Efficiency, North Holland, Amsterdam.
5. Feldstein, P. J. (1993): Health Care Economics, Wiley (Unit 3)
6. Gandhian Institute for rural and Family Planning (1972), Studies on Mortality in India, Monograph Series No. 5.
7. Government of India (1983), National Health Policy, New Delhi.
8. Henderson, J.W.(2001):Health Economics and Policy, South -Western, Thomson
9. Indian Council of Social Science Research and Indian Council of Medical Research (1981), Health for All 2000 a. D. ICSSR, Delhi.
10. Jimenez E. (1987), Pricing Policy in the Social Sectors, The Johns Hopkins University Press, New York.
11. Madan, T. N. (1969), Who Chooses Modern Medicine and Why? Economic and Political Weekly, pp. 1475-84.
12. Madan, T. N. 91980), Doctors and Society –Three Asian Case Studies, Vikas Publishing House, Delhi.
13. Naik, J. P. 91977), An alternative System of Health Care Services in India – Some Proposals, ICSSR, Delhi.
14. Panchamukhi P.R., Economics of Health.
15. Tim Ensor and Sophie Witter (2001), Health economics in low income countries: adapting to the reality of the unofficial economy, Health Policy, Vol. 57, pp. 1-13.
16. Victor Fuchs (1982), Economic Aspects of Health, The University of Chicago Press, Chicago (edited volume)

M. A. II SEM - IV

Course Name	: Welfare Economics
Type	: Major Electives
Course Number	: ME5
Course Code	: MAU0325MEL515J5
Course Credits	: 04
Marks	: Semester End: 80 Internal Assessment: 20 Total Marks: 100

Course outcomes: After successful completion of this course, the students will be able to:

- Describes the general theories of welfare.
- Equip with pre-paretian welfare economics.
- Distinguish between pre Paretian and Paretian Welfare Economics
- Explain recent Welfare thoughts.

Module 1: Welfare Economics**(Hours 15, Credit - 01)**

- 1.1 Concept of Welfare Economics - General welfare and economic welfare -Individual welfare and Social Welfare - Positive Economics and Welfare Economics -Value Judgements.
- 1.2 Problems in Measuring Welfare -National income and welfare – Resources use and Welfare Maximization.
- 1.3 State and welfare - Welfare approach and Capitalist, Socialist and Mixed Economy.
- 1.4 Globalization and government Welfare approach

Module 2: Pre-Paretian Welfare Economics**(Hours 15, Credit - 01)**

- 2.1 Benthamite Approach to Aggregate Welfare - Optimum Resource allocation & Maximization of Welfare- Utility Function of Individual- Interpersonal Comparison.
- 2.2 Marshallian Welfare Economics: Consumer's Surplus; Measurement, Difficulties and Criticism- Principles of compensation -
- 2.3 Hicks Four Consumer's surplus
- 2.4 Consumer's Surplus and Tax-Bounty Analysis

Module 3: Paretian Welfare Economics**(Hours 15, Credit - 01)**

- 3.1. Pareto optimality - Optimum production, consumption, and exchange- Concept of contract curve - Top level optimum- Compensation Principle or criteria
- 3.2. Contributions of Kaldor and Hicks
- 3.3. The Scitovsky double criterion- Concept of commModuley indifference map Samuelson's utility possibility curve- Value judgments and welfare economics- Bergson's
- 3.4. social welfare function- Arrow's impossibility theorem.

Module 4: Recent Welfare Thoughts**(Hours 15, Credit - 01)**

- 4.1 Divergence between private and social cost- Problems of non-market interdependence- Externalities of production and consumption- External economies and Diseconomies- Problems of public goods.
- 4.2 Pigou`s welfare economics - Pigou`s Second optima.
- 4.3 Cost-benefit analysis- Interdependent utilities- Dynamic Welfare analysis
- 1.4. Amartya Sen`s contribution to welfare economics

REFERENCES

1. Arrow, K. J. (1951), Social choice and Individual Values, Yale University Press, New Haven.
2. Baumol, W. J. (1965), Welfare Economics and the Theory of the State (Second Edition) Longmans, London.
3. Baumol, W. J. (Ed.) (2001), Welfare Economics, Edward Elgar Publishing Ltd UK
4. Broadway, R. W. and N. Bruce (1984), Welfare Economics, Basil Blackwell, Oxford.
5. Duesenberry, J. S. (1949), Income, Saving and the Theory of consumer Behaviour, Harvard University Press, Cambridge, Mass.
6. Feldman, A. M. (1980), Welfare Economics and Social Choice theory Martinus Nijhoff, Boston.
7. Graaff J. de V. (1957), Theoretical Welfare Economics, Cambridge University Press, Cambridge.
8. Little, I. M. D. (1939), A Critique of Welfare Economics (2nd Edition), Oxford University press, Oxford.
9. Marshall, A. (1946), Principles of Economics, Macmillan, London.
10. Myint, H. (1948), Welfare Economics, Macmillan, London.
11. Nicholas, B. (Ed.) (2001), Economic Theory and the Welfare state, Edward Elgar Publishing Ltd., U. K.
12. Pigou, A. C. (1962), The Economics of Welfare (4th Edition) Macmillan.
13. Quirk, J. and R. Saposnik (1968), Introduction to General Equilibrium theory and Welfare Economics, McGraw Hill, New York.
14. Samuelson, P. A. (1947), Foundations of Economic Analysis, Harvard University Press, Cambridge, Mass.

M. A. II SEM - IV

Course Name	: Economic Thoughts of Chh. Shahu Maharaj
Type	: Major Electives
Course Number	: ME6
Course Code	: MAU0325MEL515J6
Course Credits	: 04
Marks	: Semester End: 80 Internal Assessment: 20 Total Marks: 100

Course outcomes: After successful completion of this course, the students will be able to

- Know Rajarshi Shahu's agriculture and cooperative policy.
- Understand Rajarshi Shahu's contribution in infrastructure, industry and trade.
- Explain Rajarshi Shahu's policy of human capital and deficit finance.
- Apply Rajarshi Shahu's labour policy and famine relief work.

Module 1: AGRICULTURE AND CO-OPERATION (Hours 15, Credit - 01)

- 1.1. Broad Policy Framework - its formation - Shahu's Approach Towards Agriculture
- 1.2. Major Problems of Agriculture in Shahu's Reign - Irrigation and Agricultural Development
- 1.3. Shahu's Various Agricultural Experiments in the state - Agriculture Allied Activities
- 1.4. Co-operation in the Kolhapur state -Shahu's Role in Co-Operative development - Co-Operative Societies in the Kolhapur state

Module 2: INFRASTRUCTURE, INDUSTRY AND TRADE (Hours 15, Credit - 01)

- 2.1. Development of Roads in Shahu's Reign – Railway - The Scheme of Radhanagari Dam
- 2.2. Shahu's Role towards Industrial development: Public, Joint, Co-operative and Private Sector Industries during Shahu's Reign
- 2.3. Shahu's Industrial Experiments
- 2.4. Trade in the Kolhapur state during Shahu's reign– Development of the markets - Standard Scales, Weights and measures - Loans to Traders - Trade Rule and Banking Service

Module 3: SERVICES AND PUBLIC FINANCE (Hours 15, Credit - 01)

- 3.1. Educational Policy of Rajarshi - Primary Education, Secondary and Higher Education, Various Schools - Boarding / Hostel Movement - Female Education
- 3.2. Health: Plague –Influenza – Vaccination
- 3.3. Trends in Receipts and Expenditure of The Kolhapur state

3.4. Overall budgetary position in The Kolhapur state

Module 4: LABOUR AND FAMINE

(Hours 15, Credit - 01)

- 4.1. Shahu's Labour policy-Labour Movement during Shahu's reign.
- 4.2. Labour / Workers Training - Social Security for Labour
- 4.3. Famines During Shahu's reign - Famine relief work in the Kolhapur state
- 4.4. Shahu's Development Policy Model

READING LIST:

1. Bhagat R.T. – Rajarshi Shahu Chhatrapati Jeevan Va Shikshankary, Siddharaj Prakashan, Pune, June 2003.
2. Dhatavkar Bhaskar (Ed.) – Shahu Chhatrapatinche Nivdak Aadesh (Part I), Purabhilekh Vibhag, Maharashtra Shasan Mumbai, 1988.
3. Ghuge V. B. - “Chhatrapati Shahu's Revolutionary Ideas and Policies” in the Souvenir – 86th Annual Conference of I.E.A, Shivaji University, Kolhapur, Dec. 2003.
4. Ghuge V. B. – Chhatrapati Shahu's Socialist Economic Policies (1894 to 1922) The Kolhapur Writers Co-operative Society Ltd., 1975.
5. Ghuge V. B. – Chhatrapati Shahunche Arthakaran (1894 to 1922), Z. P. Publication, Kolhapur, 1975.
6. Ingale J. S. and Shinde M. N.- “Rajarshi Shahu Maharajanchya Vicharanche Aarthic, Samajikva Rajkiya Vicharvantanchya Vicharanshi Sadharmya” (Research paper) Souvenir – 27th Maratha Economic Association, 23rd to 25th Nov. 2003.
7. Jadhav B. B. (Ed.) - RajarshiShri. Shahu Maharajanchi Bhashane, Rajarshi Prakashan, Kolhapur, 1971. 8. Jadhav Ramesh – Lokraja Shahu Chhatrapati, Suresh Agency. Kolhapur 1997.
9. Jadhav Nivas B. - “Rajarshi Shahu Prerit Kamgar Sanghatana Chalwal” (Research Paper), Souvenir - 27th Marathi Economic Association, 23rd to 25th Nov. 2003.
10. Keer Dhananjay - Preshit Rajarshi Shri Shahu Chh. Shivaji University, Kolhapur, 1970.
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13. Keer Dhananjay – Shri Shahu Smarak Vyakhyanmala, Shivaji Vidyapeeth, Kolhapur, 1970.

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16. Latthe A. B. – Shri. Ma Chatrapati Shahu Maharaj Yanche Charitra, Publisher R.R.B.L. Patil, Kolhapur, 1925.
17. Latthe A. B. “Memories of His Highness – Shri Shahu Chhatrapati Maharaj of Kolhapur” – Volume I & II, Time Press, Bombay, 1924.
18. Mhopare R. S. – “A Study of Income and Expenditure of The Kolhapur State (1894 A.D to 1922 A.D.)”, Minor Research Project submitted to U.G.C, May, 2017.
19. Mhopare R.S. and Patil J. F. – “Economic Policies and Programmes of Rajarshi Chh. Shahu Maharaj”, Shivaji University, Kolhapurr, (2008).
20. More Girish- “Rajarshi Shahu: Vichar Va Karya” Publication, Nirmiti Sanvad Pvt Ltd, Kolhapur, 2013, ISBN- 978-93-82028-22-2
21. Pawar Jaysingrao (Ed.) – Rajarshi Shahu Smarak Granth, Maharashtra Itihas Prabodhini, Kolhapur, 2001.
22. Report on the Industrial Survey of Kolhapur, The education society’s Press, Byculla, Bombay, 1895 (p. 11).
23. Reports on The General Administration of The Kolhapur State (R.A.K.S.) – 1883-84, 1890-91 to 1922-23 (Excluding 1911-12) – Total Reports –30.
24. Sangave Vilas – Rajarshi Chhatrapati Shahu Maharaj – Kary Va Prabhav, Express Publishing House, Kolhapur, Jan. 2003.
25. Sangave Vilas & Khane B. D. (Ed.) – Rajarshi Shahu Chhatrapati Papers Vol. II to IV, Shahu Research Institute, Shivaji University, Kolhapur, 1983,1985 and 1988.
26. Sangave Vilas (Ed.) - Rajarshi Shahu Chhatrapati Papers, Vol. V to VIII, and Vol IX (unpublished), Shahu Research Institute, Shivaji University, Kolhapur, 1992,1994, 1997 and 2001.

M.A-II SEM-III**Course Name : Economics and Law****Type : Major Elective****Course Number: ME7****Course Code : MAU0325MEL515J7****Course Credit : 04****Marks : Sem End. 80 Internal Assessment: 20 Total Marks:100****Course Outcomes:** After successful completion of this course the student will be able to

- Understand the necessity of environmental and consumer protection laws, important mercantile laws, and core provisions of Cyber Law.
- Understand the implementation of laws with the help of enforcement agencies.
- understand the procedure of amicable settlement of National and International Dispute Settlement Procedures.
- Understand the core principles of Insurance Contracts.
- Be aware of the basic principles of crime and the international aspect of Cybercrime.

Module 1. Introduction to Law and Economics**(Hours 15, Credit - 01)**

- 1.1 The Concept and Need of Law, Different Law Enforcement Agencies working for economic crimes (Police, Courts, Advocates etc)
- 1.2 Protection of Economic Rights under the Indian Constitution and International Instruments like the Universal Declaration of Human Rights, International Convention on Economic, Social and Cultural Rights, etc.
- 1.3 Need to study law in Economics
- 1.4 United Nations Declaration on the Right to Development
- 1.5 Establishment of GATT/WTO – TRIPS and TRIMS; Export-import policy Custom Duties

Module 2. Business Laws, Tort, Consumer and Environment Protection**(Hours 15, Credit - 01)**

- 2.1 The Concept of Formation of Contract and its Enforceability, Remedies for the Breach of Contract. The Concept of Partnership, Partner, Partnership Firm, Overview of Limited Liability Partnership Act, 2008, Sale of Goods Act, 1930, The Consumer Protection Act, 2019, The Competition Act, 2002
- 2.2 The Concept and Principles of Insurance Contracts

2.3 Tortious Liability and Strict Liability

2.4 Overview of The Environment (Protection) Act, 1986, The Biodiversity Act, 2002, Intellectual Property rights

Module 3. Land Laws and Modes of Amicable Settlement of Disputes (Hours 15, Credit-01)

3.1 Overview of Land Acquisition Act, 2013, Objective of the Act, Land Acquisition and Fair Pricing Issues, Land Acquisition, Procedure, Rehabilitation and Resettlement, etc.

3.2 Overview of the Urban Land (Ceiling & Regulation) Act, 1976

3.3 Overview of Real Estate (Regulation and Development) Act, 2016

3.4 Alternative Dispute Resolution, Concept, Dispute Settlement in an Amicable Manner by WTO

3.5 MNCs and Foreign Direct Investment (FDI) - Foreign Exchange Management Act (FEMA).

Module 4. Economic Crimes and Punishment (Hours 15, Credit - 01)

1.2 Meaning of Crime and Different Types of Punishments and its Need

4.2 Theories of Punishment, Economics of Crime and Punishment

4.3 Corruption in India, Overview of Prevention of Corruption Act, 1988

4.4 The concept and need of Plea Bargaining in India

4.5 Cyber Crimes: Concept, Online Banking Frauds, Information Technology Act, 2000, Amended in 2008, Judicial Approach, National Cyber Security Policy 2013, E-Governance. Intellectual Property Right Violation, An International Concern.

BASIC READING LIST

1. Bromely, D.W. (Ed.) (1995), Handbook of Environmental Economics, Blackwell, London
2. Fisher, A.C. (1981), Resource and Environmental Economics, Cambridge University Press, Cambridge. · Hanley, N., J.F. Shogern and B. White (1997),
3. Environmental Economics in Theory and Practice, Macmillan. · Hussen, A.M. (1999), Principles of Environmental Economics, Routledge, London. · Jeroen, C.J.M. van den Bergh (1999),
4. Handbook of Environmental and Resource Economics, Edward Elgar Publishing Ltd., U.K. · Kolstad, C.D. (1999).
5. Taxmanns Consumer Protection Law & Practice: Comprehensive Guide to Consumer Protection Laws in India, 2023 Edition.

6. Competition Law in India, Abir Roy, Jayant Kumar, 2nd Edition 2017, with Supplement 2023, EBC Web Store.
7. Introduction to the Law of Torts and Consumer Protection, by LexisNexis
8. Texmann's Guide to New Land Acquisition Law as amended by 2014 Ordinance
9. Urban Land (Ceiling and Regulation) Act, 1976 along with Repeal Act, 1999, by LexisNexis
10. RERA: REAL ESTATE (REGULATION AND DEVELOPMENT) ACT, 2016, by Rajdeep Banderjee.
11. The WTO Dispute Settlement System, How Why and Where, by Petros C. Mavroidis, Edward Elgar Publishing, 2022, **ISBN:** 978 1 80392 173 0
12. S GOGIA & COMPANY A Treatise On Anti-Corruption Laws In India By PV RAMAKRISHNA Set Of 2 Vols 17th Edition 2023-24, published by S. Gogia & Company

M.A-II SEM-IV**Course Name : Econometrics - II****Type : Major Elective****Course Number: ME8****Course Code : MAU0325MEL515J8****Course Credit : 04****Marks : Sem End. 80 Internal Assessment: 20 Total Marks:100****Course Outcomes:** After successful completion of this course the student will be able to

- Understand the violation of classical assumptions and its remedial measures.
- Get acquainted with dynamic econometric models
- Get knowledge of simultaneous equation models
- Use the various techniques to analyze time series

Module 1: Violations of Classical Assumptions (Hours 15, Credit - 01)

1.1. Multicollinearity: Nature, Sources, Consequences Detection and Remedial measures

1.2. Heteroscedasticity: Nature, Reasons, Consequences, Detection and Remedial measures

1.3 Autocorrelation: Nature, Reasons, Consequences and Remedial measures

1.4. Problem of specification errors

Module 2: Dynamic Econometric Models (Hours 15, Credit - 01)

2.1. Distributed Lag Models and Autoregressive Models

2.2. Lags: Nature and Reasons

2.3. Koyck Approach to Distributed- Lag Models and its rationalization

2.4. Method of Instrumental Variables (IV), Almon's Approach to Distributed- Lag Models

Module 3: Simultaneous Equation Models (Hours 15, Credit - 01)

3.1. Simultaneous Equation Bias and Inconsistency of Ordinary Least Squares estimators

3.2. Structural and reduced form of simultaneous equation models

3.3. Identification problem, order and rank conditions of identification

3.4. Methods of estimating simultaneous equation system – recursive method and OLS, Indirect least squares (ILS), 2SLS methods

Module 4: Time Series Econometrics**(Hours 15, Credit - 01)**

- 4.1. Stochastic Processes: Stationary, Non-stationary and Unit root
- 4.2. Stochastic Processes: Trend Stationary, Difference Stationary and Integrated
- 4.3. Spurious Regression, Tests of stationarity, Cointegration
- 4.4. Forecasting - AR, MA, ARMA, ARIMA, VAR models and Box-Jenkin's methodology

READING LIST

1. Amemiya, T. (1985), Advanced Econometrics, Harvard University Press, Cambridge, Mass.
2. Baltagi, B. H. (1998), Econometrics, Springer, New York.
3. Dougherty, C. (1992), Introduction to Econometrics, Oxford University press, New York.
4. Goldberger, A. S. (1998), Introductory Econometrics, Harvard University Press, Cambridge, Mass.
5. Gujarati, D. N. (2012), Basic Econometrics, McGraw Hill, New York..
6. Kennedy, P. (1998), A Guide to Econometrics, MIT press, New York.
7. Kmenta, J. (1997), Elements of Econometrics (Reprint Edition), University of Michigan Press, New York.
8. Koutsoyiannis, A. (1977), Theory of Econometrics (2nd ed.), The Macmillan Press Ltd., London.
9. Krishna, K. L. (Ed.) (1997), Econometric Applications in India, Oxford University Press, New Delhi.
10. Maddala, G. S. (2001), Introduction to Econometrics, John Williams and Sons, New York.
11. Theil, H. (1981), Introduction to Econometrics, Prentice Hall of India, New Delhi.
12. Johnston (1984) Econometrics Methods, MacGraw Hill, New York
13. Pindyck R. S. and Rubinfeld (1998), Econometrics Models and Econometric forecast, Macmillan, New York
14. Green J. (2001), Econometric Analysis, Macmillan, New York
15. Croxton, F. E., D. J. Cowden and S. Klein (1973), Applied General Statistics, Prentice Hall, New Delhi.
16. Intrilligator, M. D. (1978), Econometrics Methods, Techniques and Applications, Prentice Hall, Englewood Cliffs, New Jersey.

17. Chow, G. C. (1983), *Econometrics*, McGraw Hill, New York.
18. Franses, P. H. (1998), *Time Series Models for Business and Economic Forecasting*, Cambridge University press, New York.
19. Hamonda, O. F. and J. C.R. Roley (1997), *Time Series Model, Casualty and Exogeneity*, Cheltenham, U. K.
20. Harvey, A. C. (1981), *Econometric Analysis of Time Series*, Phillip Allen, London.
21. Dhrymes, P. J. (1970), *Econometrics – Statistical Foundations and Applications*, Harper and Row Publishers, New York.
22. Franses, P. H. (1998), *Time Series Models for Business and Economic Forecasting*, CambridgeUniversity press, Cambridge.
23. Draper, N. R. and H. Smith (1966), *Applied Regression Analysis*, John Wiley, New York.
24. Harvey, A. C. (1981), *Econometric Analysis of Time Series*, Phillip Allen, London.

M.A-II SEM-IV**Course Name : Research Project****Type : Research Project****Course Number: RP2****Course Code : MAU0325RPL515J2****Course Credit : 06****Marks : Sem End. 120 Internal Assessment: 30 Total Marks:150****Course outcomes:** After successful completion of Research Project, the students will able to:

- Identify the research problems and formulate objectives.
- Choose appropriate methodology with proper tools and techniques.
- Analyze and interpret the data collected from different sources.
- Make decision or find out conclusions on the basis of data analysis.

Instructions for teachers and students while doing Research Project:

1. Selection of Research project should be related to the mandatory or elective courses in the concerned subject.
1. Research project should be **FORMALLY ASSIGNED** (in written form) by concerned teacher to every student. It should not be done in common.
2. Students are required to prepare the project report based on field work (or secondary data) and studying the current trends in economics under the guidance of the project guide.
3. Submission of Research Project Report duly signed and certified by concerned teacher/guide is **A PRE- REQUISITE FOR APPEARING TO VIVA-VOCE EXAMINATION.**
4. **TWO COPIES** of Research Project Report in **BOUND FORMAT** should be submitted before Viva-Voce. One copy will be kept by department and the remaining will be returned to student.
5. Prepare an Appropriate Format for Writing the Research Report. Kindly see that the First Page and Certificate Page are common for all students. In the remaining part, try to maintain uniformity.

The format may be as follows:**Chapter I : Introduction and Research Methodology****Chapter II : Review of Literature / Theoretical Background / Conceptual Framework****Chapter III : Profile of the Organization / Area****Chapter IV : Analysis and Interpretation of the Data****Chapter V : Conclusion - It will include observations, findings, conclusions and suggestions**