

***SCHEME OF EXAMINATION
RULES & REGULATIONS
AND
SYLLABUS***

(For Academic Session 2023-2024)

***M. A. Economics
Four Semesters Examination***

Faculty of Social Science



UNIVERSITY OF KOTA

MBS Marg, Near Kabir Circle, KOTA (Rajasthan)-324005

INDIA

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Semester wise Scheme of Examinations

Year / Semester	Course Type	Number, Code/ID and Nomenclature of Paper			Duration of Exam.	Teaching Hrs / Week & Credit Points			Distribution of Assessment Marks				Total Marks	
		Number of Paper	Code / ID of Paper	Nomenclature of Paper		Teaching		Credit Points	Continuous Assessment (33.33%)		Semester Assessment (66.67%)			
						Th.	Pra.		Max. Marks	Min. Pass Marks	Max. Marks	Min. Pass Marks	Max. Marks	Min. Pass Marks
I Year I Sem.	Discipline Centric Core (DCC) Compulsory	Paper-1.1	ECO-511-T	Microeconomic Theory - I	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-1.2	ECO-512-T	Macroeconomic Theory – I	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-1.3	ECO-513-T	Mathematical Methods for Economics	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-1.4	ECO-514-T	Public Economics-I	3 Hrs	06	-	06	50	20	100	40	150	60
	Total (I Semester)				12 Hrs	24	-	24	200	80	400	160	600	240
I Year II Sem.	Discipline Centric Core (DCC) Compulsory	Paper-2.1	ECO-521-T	Microeconomic Theory- II	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-2.2	ECO-522-T	Macroeconomic Theory – II	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-2.3	ECO-523-T	Statistical Methods	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-2.4	ECO-524-T	Public Economics-II	3 Hrs	06	-	06	50	20	100	40	150	60
	Generic Elective (GEC)	Paper-2.5		A Course not related to specific discipline	-	02	-	02	50	20			50	20

		Total (II Semester)	12 Hrs	26 -	26	250 100	400 160	650 260
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II Year III Semester	Compulsory (DCC)	Paper-3.1 ECO-631-T	International Trade Theory	3 Hrs	06 -	06	50 20	100 40	150 60
	Discipline Specific Elective (DSE)	Paper-3.2 ECO-632-T	Discipline Specific Elective - I-A	3 Hrs	06 -	06	50 20	100 40	150 60
		Paper-3.3 ECO-633-T	Discipline Specific Elective - I-B	3 Hrs	06 -	06	50 20	100 40	150 60
		Paper-3.4 ECO-634-T	Discipline Specific Elective - I-C	3 Hrs	06 -	06	50 20	100 40	150 60
	Generic Elective (GEC)	Paper-2.5	A Course not related to specific discipline	-	02 -	02	50 20	- -	50 20
		Total (III Semester)	12 Hrs	26 -	26	250 100	400 160	650 260	

II Year IV Semester	Compulsory (DCC)	Paper-4.1	ECO-641-T	Trade Policy and International Monetary System	3 Hrs	06	-	06	50	20	100	40	150	60
	Discipline Specific Elective (DSE)	Paper-4.2	ECO-642-T	Discipline Specific Elective- II-A	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-4.3	ECO-643-T	Discipline Specific Elective - II-B	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-4.4	ECO-644-T	Discipline Specific Elective - II-C	3 Hrs	06	-	06	50	20	100	40	150	60
		Total (IV Semester)			12 Hrs	24	-	24	200	80	400	160	600	240
		Total (I + II + III + IV Semester)			48 Hrs	100	-	100	900	360	1600	640	2500	1000

Discipline Specific Elective for Semester's- III & IV

Year / Semester	Course type	Number, Code/ID and Nomenclature of Paper			Duration of Exam.	Teaching Hrs / Week & Credit Points			Distribution of Assessment Marks				Total Marks	
		Number of Paper	Code / ID of Paper	Nomenclature of Paper		Teaching Th.	Credit Points	Continuous Assessment (33.33%)		Semester Assessment (66.67%)				
								Max. Marks	Min. Pass Marks	Max. Marks	Min. Pass Marks	Max. Marks	Min. Pass Marks	
II Year III Sem.	Discipline Specific Elective-IA (Select any one)	Paper-3.2	ECO-632-T	(A-01) Indian Economic Development and Policy-I	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-3.2	ECO-632-T	(A-02) Demography – I	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-3.2	ECO-632-T	(A-03) Industrial Economics-I	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-3.2	ECO-632-T	(A-04) Indian Banking System	3 Hrs	06	-	06	50	20	100	40	150	60
		Discipline Specific Elective - 'I A' Total (III Semester)				03 Hrs	06	-	06	50	20	100	40	150
II Year III Sem.	Discipline Specific Elective IB (Select any one)	Paper-3.3	ECO-633-T	(B-01) Economics of Infrastructure-I	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-3.3	ECO-633-T	(B-02) Econometrics- I	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-3.3	ECO-633-T	(B-03) Health Economics-I	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-3.3	ECO-633-T	(B-04) Labour Economics-I	3 Hrs	06	-	06	50	20	100	40	150	60

		Paper-3.3	ECO-634-T	(B-05) History of Economic Thought	3 Hrs	06	-	06	50	20	100	40	150	60
		Discipline Specific Elective - 'I B' Total (III Semester)			03 Hrs	06	-	06	50	20	100	40	150	60
II Year III Sem.	Discipline Specific Elective-IC (Select any one)	Paper-3.4	ECO-634-T	(C-01) Economics of Development and Growth - I	03 Hrs.	06	-	06	50	20	100	40	150	60
		Paper-3.4	ECO-634-T	(C-02) Mathematical Economics - I	03 Hrs.	06	-	06	50	20	100	40	150	60
		Paper-3.4	ECO-634-T	(C-03) Agricultural Economics-I	03 Hrs.	06	-	06	50	20	100	40	150	60
		Paper-3.4	ECO-634-T	(C-04) Environmental Economics-I	03 Hrs.	06	-	06	50	20	100	40	150	60
		Paper-3.4	ECO-634-T	(C-05) Survey method	03 Hrs.	06	-	06	50	20	100	40	150	60
		Discipline Specific Elective 'I' C (III Semester)				03 Hrs.	06	-	06	50	20	100	40	150
II Year IV Semester	Discipline Specific Elective – IIA (Select any one)	Paper-4.2	ECO-642-T	(A-01) Indian Economic Development and Policy-II	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-4.2	ECO-642-T	(A-02) Demography – II	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-4.2	ECO-642-T	(A-03) Industrial Economics-II	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-4.2	ECO-642-T	(A-04) Indian Financial System	3 Hrs	06	-	06	50	20	100	40	150	60
		Discipline Specific Elective- 'II-A' Total (IV Semester)				03 Hrs	06	-	06	50	20	100	40	150

II Year IV Semester	Discipline Specific Elective –II- B <i>(Select any one)</i>	Paper-4.3	ECO-643-T	(B-01) Economics of Infrastructure-II	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-4.3	ECO-643-T	(B-02) Econometrics- II	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-4.3	ECO-643-T	(B-03) Health Economics-II	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-4.3	ECO-643-T	(B-04) Labour Economics-II	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-4.3	ECO-643-T	(B-05) Indian Economic Thinkers	3 Hrs	06	-	06	50	20	100	40	150	60
		Discipline Specific Elective -‘II-B’ Total (IV Semester)					03 Hrs	06	-	06	50	20	100	40
II Year IV Semester	Discipline Specific Elective –II- C <i>(Select any one)</i>	Paper-4.4	ECO-644-T	(C-01) Economics of Development and Growth – II	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-4.4	ECO-644-T	(C-02) Mathematical Economics - II	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-4.4	ECO-644-T	(C-03) Agricultural Economics-II	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-4.4	ECO-644-T	(C-04) Environmental Economics-II	3 Hrs	06	-	06	50	20	100	40	150	60
		Paper-4.4	ECO-644-T	(C-05) Dissertation	3 Hrs	06	-	06	50	20	100	40	150	60
		Discipline Specific Elective -‘II-C’ Total (IV Semester)					03 Hrs	06	-	06	50	20	100	40

NOTE: 1. Paper chosen from Elective Core I-A, I-B and I-C in Semester III should correspond with paper chosen from Elective Core II-A, II-B and II-C respectively in Semester IV

2. Continuous assessment of marks 50 are divided into 30 marks for midterm test and 20 marks for Seminars/project report/presentation for regular student. While Continuous assessment of marks 50 are divided into 30 marks for report writing and 20 marks for Viva-voce for Non-Collegiate students.

Rules & Regulations

Objectives of the Course:

The major objectives of M. A. Economics course are:

- To impart the knowledge and develop understanding of the economy.
- To equip economics professionals with theories and provide necessary analytical tools and intellectual trainings in major areas of economics with its applications.
- To focus on the emerging area of Environmental Economics.
- To Impart Sound Theoretical knowledge and economic interpretation to the students
- To teach them the quantitative and qualitative applications of these interpretations
- To enable them to carry out theoretical , empirical , policy and inter- disciplinary research

Course Outcomes

- To inculcate in depth knowledge to students about economic theory regarding utilization and allocation of resources including labour, natural resources and capital.
- To develop students understanding about how market for goods and services function and how income is generated and distributed.
- To give students in depth knowledge into special fields of choice like agricultural economics, industrial economics, financial markets, development economics, international trade mathematical economics etc.
- To make students familiar with economic theories and their relevance, quantitative techniques and applied research in a variety of fields within economics.
- Students would understand how the economy is influenced by economic policy, technological advances and demographic conditions.

Scopes of the Course:

Coming from different backgrounds, the students who would complete this course have multi-dimensional scopes:

- Students may find their professional career in academic institutions particularly for teaching in Economics, Growth & Development and Agriculture, Banking, Industrial sector etc.
- Civil and allied administrative services.
- The corporate sector particularly in research and development field.
- In research consultancy firms.

Duration of the Course:

The course for the degree of Master of Arts in Economics shall consist of two academic years divided in to four equal semesters. Each semester consist of minimum 120 working days.

Eligibility for Admission in M. A. First Semester:

A candidate who has passed any one of the following degrees from any University recognized by the UGC shall be permitted to take admission in M. A. First Semester Economics to award M. A. degree in Economics from this University after completion of a course of study of two academic years divided in the four semester scheme of examination:

- Undergraduate Degree under 10+2+3 pattern with any discipline or
- Four year undergraduate (Hons. Course) degree in any discipline or
- Integrated undergraduate degree as B. A.-B. Ed. in any discipline.
- Four year undergraduate Degree in Engineering (B. Tech. /B. E.).

Eligibility for Admission in M. A. Third Semester:

A candidate may be promoted in the next academic session (odd semester *i.e.* III semester) if he/she has cleared collectively at least 50% of the papers of both semesters of previous academic session with 50% of the aggregate marks. The candidate who does not fulfill the above condition will remain as an ex-student and will re-appear in the due papers along with next odd/even semester examinations.

A candidate who has passed B. Ed. examination as a regular course of study after completing first and second semester examinations from this University shall be eligible to take admission in third semester examination as a regular candidate.

Structure of the Programme:

The Master of Arts in Economics programme will consist of core and advanced courses of theory which are compulsory for students.

Course Number, Course Code/ID and Nomenclature:

Number of the course has been given in the Arabic number as Paper-1.1, Paper-1.2, and Paper-1.3 and so on. In the Paper-1.2, 1 represents the semester number and 2 represent the paper number.

To give a code to a particular course, following sequence has been adopted:

“Abbreviation of the programme in upper case + n^{th} number of year of study + n^{th} number of semester of the programme + course number in Arabic number” +T/P

According to the above sequence, code of paper-IV of the first semester of postgraduate Economics shall be as “ECO-514”. It is noted that the 5 represents here the fifth year of study because it is considered that the student has completed four years of study during his / her undergraduate programme e.g. B. A. pass course with three or B. A. Hons course with three or four years B. A.-B. Ed. etc. with four years. Therefore, the figure 5 represents the fifth year of study. The T/P represents nature of paper i.e. theory paper / practical.

Nomenclature of the particular course has been given according to the nature or type of contents included in the Unit-I to Unit-V of course of study.

Maximum Marks:

Maximum marks of paper will be decided on the basis of their contact hours per week. One teaching hour per week will carry 25 maximum marks and therefore, six teaching hours per week will carry 150 maximum marks for each paper / course.

Attendance:

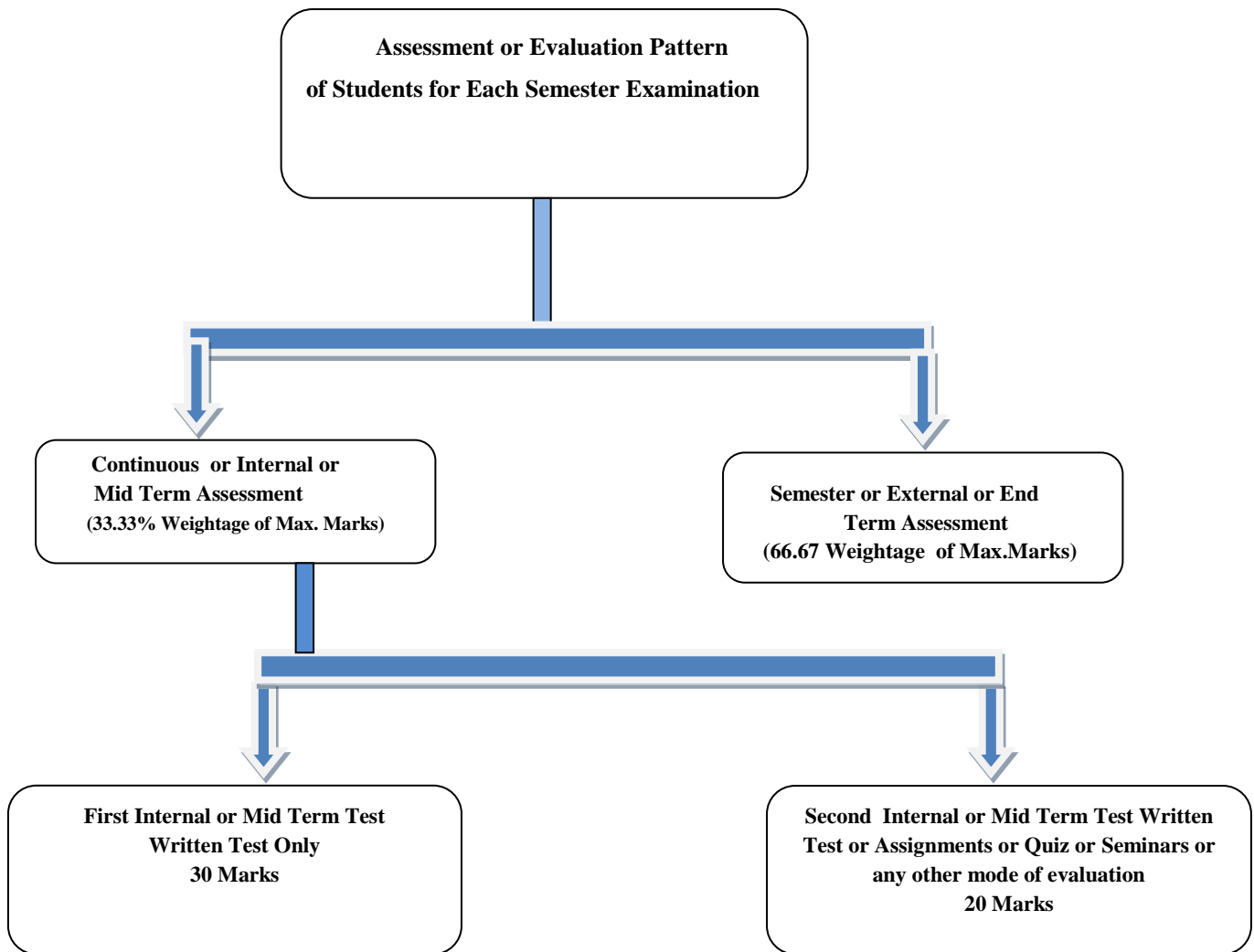
Every teaching faculty, handling a course, shall be responsible for the maintenance of Attendance Register for candidates who have registered for the course. The teacher of the course must intimate the Head of the Department at least seven calendar days before the last instruction day in the semester about the attendance particulars of all students. Each student should earn 75% attendance in the courses of the particular semester failing which he or she will not be permitted to sit in the End-Semester Examinations. However, it shall be open to the authorities to grant exemption to a candidate who has failed to obtain the prescribed 75% attendance for valid reasons and such exemptions should not under any circumstance be granted for attendance below 65%.

Teaching Methodologies:

The classroom teaching would be through conventional lectures or use of OHP or power point presentations (PPT). The lecture would be such that the student should participate actively in the discussion. Student seminars would be conducted and scientific discussions would be arranged to improve their communicative skill. In the laboratory, instruction would be given for the experiments followed by demonstration and finally the students have to do the experiments individually. For the students of slow learners, special attention would be given.

Assessment Pattern:

The assessment of the student shall be divided into two parts in which first part is continuous assessment or internal assessment (33.33% weightage of the maximum marks) and second part is semester assessment or external assessment (66.67% weightage of the maximum marks). Assessment pattern and distribution of maximum marks is summarized as given below:



(i) Continuous Assessment or Internal or Mid Term Assessment:

- (a) The continuous or internal or mid-term assessment (33.33% weightage of the maximum marks) for each theory paper shall be taken by the faculty members in the Department during each semester. There will be two internal assessment tests (*i.e.* First Internal Assessment Test or First Mid Term Test and Second Internal Assessment Test or Second Mid Term Test). Each internal assessment test shall be of one hour duration for theory paper and shall be taken according to academic calendar which will be notified by the Department / University.
- (b) A student who remains absent (defaulter) or fails or wants to improve the marks in the internal assessment may be permitted to appear in the desired paper(s) (only one time) in the same semester with the permission of the concerned Head of the Department. A defaulter / improvement fee of Rupees 250/- per paper shall be taken from such candidates. Duly forwarded application of such candidates by the teacher concerned shall be submitted to HOD who may permit the candidate to appear in the internal assessment after production of satisfactory evidence about the reason of his/her absence in the test(s) and deposition of the defaulter / improvement fee. A record of such candidates shall be kept in the Department.
- (c) Regular attendance of the student shall be considered in the internal assessment. If the attendance / regularity factor is similar for all the students, then it may be merged with the weightage of second internal assessment test (class test / home assignment / quiz, seminar, *etc.*).
- (d) Paper wise consolidated marks for each theory paper and dissertation / seminar (*i.e.* total marks obtained during various modes of internal assessment) obtained by the students (out of the 33.33% weightage of the maximum marks of the paper) shall be forwarded by the Head of the Department (in two copies) to the Controller of Examination of the University within a week from the date of last internal assessment test for incorporation in the tabulation register.
- (e) The consolidated marks obtained by the students be also made known to them before being communicated by the Head of the Department concerned to the University for final incorporation in the tabulation register. If any discrepancies are discovered or pointed out by the students, the same shall be looked into by the concerned faculty member and corrections made wherever necessary. The decision of the Head of the Department before the communication of marks to the University shall be final. No corrections shall be made in the internal assessment marks after the declaration of the result by the University.
- (f) Consolidated marks communicated to the University shall be in whole number and not in fraction. Marks awarded for the various internal assessments in each paper shall be added up and then round off to the next whole to avoid any fraction.
- (g) All test copies and other material related to the internal assessment shall also be sent to the Controller of Examination of the University to keep in record as per the University guidelines.
- (h) The Head of the Department concerned shall be responsible for proper conduct of internal assessment tests and for communication of the consolidated marks to the University within the prescribed time.
- (i) The Head of the Department shall keep a record of the marks and also notify the same to the candidates immediately so that if any candidate is not satisfied with the award in any test or seasonal work, he should represent the matter to the Head of the Department.

For Private Students

Continuous assessment of marks 50 are divided into 30 marks for report writing and 20 marks for Viva-voce for Non-Collegiate students

(ii) Semester Assessment or External or End Term Assessment:

(a) The semester or external or end-term assessment (66.67% weight of the maximum marks) shall be three hours duration to each theory paper and twelve hours duration spread over two days (6 hours per day) for each practical paper and shall be taken by the University at the end of each semester.

(b) *The syllabus is divided into five independent units and question paper will be divided into two sections:*

Section-A will carry 20 marks with 01 compulsory question comprising 10 short answer type questions taking two questions from each unit. Each question shall be of two marks.

Section-B will carry 80 marks with equally divided into five long answer type questions. Paper setter shall be advised to set two questions from each unit and students are instructed to attempt five questions by selecting one question from each unit.

Question Paper Pattern:

(A) Continuous or Internal or Mid Term Assessment:

33.33% weightage of Maximum Marks (50 Marks out of 150 Maximum Marks)

(For Regular Student)

(i) First Continuous or Internal or Mid Term Assessment:

Format

Department of Social Sciences

University of Kota

Kota (Rajasthan)-324 005

First Internal Assessment Test 20... - 20....

Class	:	Max. Marks	: 30
Semester	:	No. of Students	:
Subject	:	Duration of Exam	:
Paper	:	Name of Teacher	:

Note: All questions are compulsory and marks are given at the end of the each question. Two or three sub-divisions may be given in the question.

Q. No. 1.

or

.....

10 Marks

Q. No. 2.

or

.....

10 Marks

Q. No. 3.

or

.....

10 Marks

(ii) Second Continuous or Internal or Mid Term Assessment:

(a) Attendance:

Marks shall be given by the faculty member in each paper according to its weightage 10 marks.

Note:

If the attendance / regularity factor is similar for all the students, then it may be merged with the weightage of second internal assessment test (class test / home assignment / quiz, seminar, etc.).

(b) Class Test:

20 Marks

Format

Department of Social Sciences

University of Kota

Kota (Rajasthan)-324 005

Second Internal Assessment Test 20... - 20....

Class :	Max. Marks : 20
Semester :	No. of Students :
Subject :	Duration of Exam :
Paper :	Name of Teacher :

Note: All questions are compulsory and marks are given at the end of the each question. Two or three sub-divisions may be given in the question.

Q. No. 1.

or

.....

05 Marks

Q. No. 2.

or

.....

05 Marks

Q. No. 3.

or

.....

10 Marks

or

(b) Assignment:

(May be divided in parts or questions or may not be. It will be the nature of assignment).

depending on

20 Marks

or

(b) Quiz:

(May be divided in parts or questions or may not be. It will be the nature of quiz).

depending on

20 Marks

or

(b) Any other tool may be adopted for internal Assessment

20 Marks

For Private Students (Continuous or Internal Assessment)

Report writing and Viva-voce: Each private student of PG program will prepare a report on any topic of each course in minimum 1000 words from the prescribed syllabus of concerned theory paper /course. The student need to report the concerned college at the time prescribed by the college/university to submit the report and the college will arrange a Viva-voce on the report. The various components of the report maybe:

- Name of course/ Class –
- Name of student: Father's /Husband Name:
- Examination form number:
- Enrollment number –
- Name of college/ Centre –
- Name of paper:
- Title of topic:
- Number of unit of topic (as per prescribed syllabus):
- Introduction about the topic:
- Details/ Analysis about the topic:
- Conclusion of the topic:
- References:

(B) Semester or External or End Term Assessment:

66.67% weightage of Max Marks (100 Marks out of 150 Max Marks)

Duration of Examination: 3 Hours

Max. Marks: 100

Note: The syllabus is divided into five independent units and question paper will be divided into two sections:

Section-A will carry 20 marks with 01 compulsory question comprising 10 short answer type questions taking two questions from each unit. Each question shall be of two marks.

Section-B will carry 80 marks with equally divided into five long answer type questions. Paper setter shall be advised to set two questions from each unit and students are instructed to attempt five questions by selecting one question from each unit.

SECTION-A

Q. 1.

Unit-I

(i) **2 Mark**

(ii) **2 Mark**

Unit-II

(iii) **2 Mark**

(iv) **2 Mark**

Unit-III

(v) **2 Mark**

(vi) **2 Mark**

Unit-IV

(vii) **2 Mark**

(viii) **2 Mark**

Unit-V

(ix) **2 Mark**

(x) **2 Mark**

SECTION-B

Unit-I

Q. 2. **16 Marks**

or

..... **16 Marks**

Unit-II

Q. 3. **16 Marks**

or

..... **16 Marks**

Unit-III

Q. 4. **16 Marks**

or

..... **16 Marks**

Unit-IV

Q. 5. **16 Marks**

or

..... **16 Marks**

Unit-V

Q. 6. **16 Marks**

or

..... **16 Marks**

Minimum Pass Marks and Rules regarding Determination of Results:

Each semester shall be regarded as a unit for working out the result of the candidates. The result of each semester examination shall be worked out separately (even if the candidate has appeared at the paper(s) of the lower semester examination alongwith the papers of higher semester examination) in accordance with the following conditions:

- (i) A candidate, for a semester examination, shall be offered all the papers prescribed for that semester examination and besides he/she also shall be offered paper(s) not cleared by him/her at any of the lower semester examination subject to the limitation that the number of un-cleared papers of the lower semester examinations shall not exceed the total number of the papers prescribed for any one semester.
- (ii) The candidate shall be declared to have passed the examination, if the candidate secures at least 40% marks in each theory paper separately in continuous or internal or mid-term examination & semester or external or end-term examination and 50% marks in each practical / project / dissertation / seminar with 50% aggregate marks of the maximum marks prescribed for each semester examination. There is no minimum pass marks for the practical record / notebook. However, submission of a practical record / notebook is a mandatory during the practical examination. The candidate should compulsorily attend viva-voce / presentation examination to secure pass in practical / project / dissertation / seminar.
- (iii) A candidate, who has been declared as failed/absent in one or more theory paper(s) at any odd semester examination shall be permitted to join the courses of study for the next higher semester *i.e.* permitted to join the course of second semester after first semester examinations, permitted to join the course of fourth semester after third semester examination, permitted to join the course of sixth semester after fifth semester examinations and so on and eligible to re-appear in that paper(s) as due paper(s) along with next higher semester (next year) examinations provided that he/she must have cleared at least 50% of the papers (including practical / project / dissertation / seminar as one paper) collectively prescribed for the first and second semester examinations taken together for promotion to the third semester examination.
- (iv) A candidate may be promoted in the next semester (odd semester) if he/she has cleared collectively at least 50% of the papers of both semesters of previous academic session with 50% of the aggregate marks. The candidate who does not fulfill the this condition will remain in the same semester as an ex-student and will re-appear in the due papers examination along with next odd/even semester examinations.
- (v) If any student who is provisionally admitted in higher odd semester but could not secure prescribed minimum marks in previous semesters will be treated as ex-student and his/her admission fee will be carry forwarded to the next odd semester of forthcoming academic session.
- (vi) A candidate declared as failed in that particular paper he/she can re-appear for that paper in the next year examination as a due paper. However, the internal marks shall be carried forward for the total marks of the due examination.
- (vii) A candidate may be given only two additional chances for passing the semester thus maximum tenure for completing the two years' postgraduate course will be limited to four years, for three years postgraduate programme up to five years and so on.

- (viii) If the number of papers prescribed at the first and second or third and fourth semester examination is an odd number, it shall be increased by one for the purpose of reckoning 50% of the papers.
- (ix) A candidate who passes in 50% or more papers of the first and second semester examination, and thereby becomes eligible for admission to the third semester examination, but chooses not to do so and desires to appear in the remaining papers of first and second semester examination only or to re-appear in all the prescribed papers and practical/dissertation/seminar of the M. A. first and second semester examination will be permitted to do so on the condition that in the latter case his previous performance will be treated as cancelled.
- (x) If a candidate, who has been promoted to the next semester and wishes to improve his / her performance in the theory paper(s) of previous semester, can be permitted to do so in case of the theory papers only, not in practical / project / dissertation / seminar, belonging to the immediately preceding semester only for one time in these papers in next odd/even semester examinations. In such a case, he/she shall have to appear in these papers alongwith the papers of his/her own semester.
- (xi) A candidate shall be declared as passed after the result of the fourth semester examination, if he/she cleared all papers of the all the four semesters and secure minimum 40% of the aggregate marks of the maximum marks in theory papers and 50% of the aggregate marks of the maximum marks for practical / dissertation / presentation / seminar prescribed for four semesters Master's programme.
- (xii) In the case of an ex-student, the marks secured by him/her at his/her last examination as a regular candidate shall be taken into account except in cases where a candidate is re-appearing at the examination as a regular student and in that event he/she shall have to repeat the internal assessment test which will be finally accounted for working out his result.
- (xiii) A candidate who has failed at the M. A. third and fourth semester examination but has passed in at least 50% of the papers prescribed for the examination shall be exempted from re-appearing in a subsequent year in the papers in which he/she has passed.
- (xiv) If a candidate clears any paper(s) prescribed at the first and second semester (previous) and/or third and fourth semester (final) examination after a continuous period of three years, then for the purpose of working out his/her division, only the minimum pass marks shall be taken into account in respect of such paper(s) as are cleared after the aforesaid period provided that in case where a candidate requires more than 40% marks in order to reach the requisite minimum aggregate, as many marks out of those secured by him/her will be taken in to account as would enable him/her to make up the deficiency in the requisite minimum aggregate.
- (xv) In case the candidate is not able to clear his/her due paper(s) in the stipulated period as mentioned above (continuous period of three years), he/she may be given last one mercy attempt to clear due paper(s) subjected to approval of the Vice Chancellor or Board of Management.
- (xvi) The grace marks scheme shall be applicable as per University norms.

Classification of Successful Candidates:

The classification of successful candidates after last semester examination shall be as:

Description of Marks Obtained	Division / Result
• 80% and above marks in a paper.	Distinction in that paper.
• A candidate who has secured aggregate 60% and above marks	First Division
• A candidate who has secured aggregate 50% and above but less than 60% marks	Second Division

Candidates who pass all the examinations prescribed for the course in the first instance and within a period two academic years in four semesters from the year / semester of admission to the course only are eligible for University Ranking. A candidate is deemed to have secured first rank provided he/she

- (i) Should have passed all the papers in first attempt itself.
- (ii) Should have secured the highest marks in the whole examination of the programme / course, or should have secured the highest cumulative grade point average (CGPA).

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Semester – I

Discipline Centric core (Compulsory)

Paper- 1.1: ECO-511: Microeconomic Theory –I

Course Objectives

This course aims at analysing the economic behavior of the consumers, firms and markets. It is mainly concerned with the objective of equipping the students in a comprehensive manner with various aspects of consumer behavior and demand analysis, Production theory and behavior of cost, equilibrium of firm and various forms of market. At the end of this course students are expected to be familiar microeconomic theory and acquire analytical skills to analyse problems of economic policy.

Contact Hours/Week	: 06 Hours	Maximum Marks	: 150 Marks
Duration of Examination	: 03 Hours	Continuous Assessment	: 50 Marks
		Semester Assessment	: 100 Marks

Each paper contains 150 marks for regular and Non-Collegiate students. Continuous assessment of marks 50 are divided into 30 marks for midterm test and 20 marks for Seminars/project report/presentation for regular student. While Continuous assessment of marks 50 are divided into 30 marks for report writing and 20 marks for Viv-voce for Non-Collegiate students.

Note: The syllabus is divided into five independent units and question paper will be divided into two sections:

- **Section-A** will carry 20 marks with 01 compulsory question comprising 10 short answer type questions taking two questions from each unit. Each question shall be of two marks.
- **Section-B** will carry 80 marks with equally divided into five long answer type questions. Paper setter shall be advised to set two questions from each unit and students are instructed to attempt five questions by selecting one question from each unit.

Note: Contents of each unit may be completed into 15-18 lectures or contact hours which also include revisions, seminars, internal assessments, etc.

Unit- I: Consumer Behavior-I : **15-18 L**

Consumer choice: Utility function and indifference curve analysis- Bads, Neutrals, Optimal choice, Corner point solutions, Price, Income and Substitution effects, Engle curves, Slutsky theorem and Derivation of demand curves. Consumer equilibrium.

Unit-II: Consumer Behavior-I I: **15-18 L**

Consumer surplus. Elasticity of demand- Network externalities– Bandwagon effect, Snob effect, Veblen effect, Revealed preference theory. Choice under risk and uncertainty.

Unit- III: Firms Behavior-I: **15-18 L**

Production function: Short and long run. Law of returns and Returns to scale, Ridge lines, Expansion path. Producer equilibrium. Forms of production function: Cobb- Douglas, Fixed coefficient and CES. Elasticity of technical substitution, Capital and labor deepening technical progress through Iso-quants.

Unit- IV: Firms Behavior-II: **15-18 L**

Concept of cost :Short and long run cost curves. Dynamic changes in costs – Learning curve. Modern theory of cost curves. Concept of revenue, Revenue curves under different market structures.

Unit- V: Price Determination: **15-18 L**

Pricing under different market structures: Perfect competition. The efficiency of a competitive market. Price supports. Monopoly. Social cost of monopoly; Power of monopoly; International price discrimination and Peak – load pricing. Two-part tariff. Monopolistic competition. Bilateral monopoly.

Course Outcome

1. This course develops understanding of fundamentals of Micro Economics and market mechanism.
2. It enhances the ability of students to discuss economic concepts in an articulate manner in a classroom.
3. It develops the reasoning ability of the students to understand the consumer behaviour and producers' behaviour in real market situation market.

Books & References:

- A. Koutsoyiannis : Modern Microeconomics, Macmillan, London.
- Robert S. Pindyck and Daniel L. Rubinfeld: Microeconomics. Pearson Education Inc., New Delhi.
- D. Salvatore: Microeconomic Theory, Oxford University Press, New Delhi.
- Hal R. Varian: Microeconomic Analysis, W.W. Norton & Company Inc., New York.
- H.L. Ahuja: Advanced Microeconomic Theory, S. Chand Publication, New Delhi.

Paper- 1.2: ECO-512: Macroeconomic Theory –I

Course Objectives

Macroeconomics deals with the movement, fluctuations and growth in economic aggregates like income, employment interest rates and the price level. This paper is designed to provide in-depth knowledge on development of Macroeconomics and varied concepts of Macroeconomics. The contents of the paper throws light on a range of issues like national income, social accounting, consumption expenditure, investment analysis as well as money supply and demand for money.

Contact Hours/Week	: 06 Hours	Maximum Marks	: 150 Marks
Duration of Examination	: 03 Hours	Continuous Assessment	: 50 Marks
		Semester Assessment	: 100 Marks

Each paper contains 150 marks for regular and Non-Collegiate students. Continuous assessment of marks 50 are divided into 30 marks for midterm test and 20 marks for Seminars/project report/presentation for regular student. While Continuous assessment of marks 50 are divided into 30 marks for report writing and 20 marks for Viv-voce for Non-Collegiate students.

Note: The syllabus is divided into five independent units and question paper will be divided into two sections:

- **Section-A** will carry 20 marks with 01 compulsory question comprising 10 short answer type questions taking two questions from each unit. Each question shall be of two marks.
- **Section-B** will carry 80 marks with equally divided into five long answer type questions. Paper setter shall be advised to set two questions from each unit and students are instructed to attempt five questions by selecting one question from each unit.

Note: Contents of each unit may be completed into 15-18 lectures or contact hours which also include revisions, seminars, internal assessments, etc.

Unit-I: Introduction:

15-18 L

The origin and development of macroeconomics – Classical, Keynes, New classical and Modern views; Macroeconomic variables (e.g., national income, employment, saving, investment, price level, wages, interest

rate), Real and nominal quantities, Stock and flow variables and their inter- relationship, Difference between micro and macroeconomics.

Unit-II: National Income: 15-18 L

National income- Concepts, Components, Measurement, Inter- relationship between three measures of national income; Measurement of economic welfare. Circular flow of income in two, three and four sector economy.

Unit-III: Consumption & Investment Function: 15-18 L

Consumption function – Determinants, Consumption function hypotheses: Absolute, Relative, Permanent income hypotheses and Life cycle hypothesis; Investment function- Neo-classical theory of investment , Stock market and Tobin’s Q-ratio and Neo – Keynesian theory of investment ; Theories of accelerator.

Unit- IV: Theory of Money Demand: 15-18 L

Classical , Keynesian, and Post Keynesian theories of demand for money- Inventory theory of Baumol and Portfolio balance theory of tobin; Restatement of quantity theory of money by Milton Friedmanand, Patinkin’s Theory for money demand.

Unit-V: Theory of Money Supply: 15-18 L

Supply of money- Measurement in view of India, Components, Determinants, High- powered money & money multiplier and Theories of money- supply.

Course Outcomes

1. This course enables the students to learn about the development of various theories and approaches of macroeconomics like classical, Keynesian, Monetarist, New classical theories and New Keynesian theory. It analyses Macroeconomic variables and National Income in greater detail.
2. It educates students various theories related to consumption and investment.
3. Students acquire knowledge on issues like money supply and demand. This course is to help the learners in proper understanding of the economic aggregates.

Books & References:

- Errol D’ Souza, Macroeconomics, Person Education.
- Richard. T. Froyen, Macro Economics: Theories and Policies, Pearson Education.
- P. Edgmond, Macroeconomics, PHI, New Delhi.
- Gregory Minkiw, Macroeconomics, CBS Publishers, New Delhi.
- Robert J Gorden, Macroeconomics, Harper Collins.
- Dasgupta, A. K., Macroeconomics Analysis, New Delhi.
- Ahuja, H. L., Advanced Macroeconomic Theory (Hindi), S. Chand Publication, New Delhi.
- Rana, K. C. & Verma, K. N., Macro Economic Analysis (Hindi), Vishal Publishing Company, Jalandhar.

Paper- 1.3: ECO-513: Mathematical Methods for Economics

Course Objective

The aim of this course is to train students in the use of mathematical tools to understand concepts in economics presented in the form of mathematical models and express economic ideas in the same form. The course is intended to enable the students to utilize these tools in subsequent courses.

Contact Hours/Week	: 06 Hours	Maximum Marks	: 150 Marks
Duration of Examination	: 03 Hours	Continuous Assessment	: 50 Marks
		Semester Assessment	: 100 Marks

Each paper contains 150 marks for regular and Non-Collegiate students. Continuous assessment of marks 50 are divided into 30 marks for midterm test and 20 marks for Seminars/project report/presentation for regular student. While

Continuous assessment of marks 50 are divided into 30 marks for report writing and 20 marks for Viv-voce for Non-Collegiate students.

Note: The syllabus is divided into five independent units and question paper will be divided into two sections:

- **Section-A** will carry 20 marks with 01 compulsory question comprising 10 short answer type questions taking two questions from each unit. Each question shall be of two marks.
- **Section-B** will carry 80 marks with equally divided into five long answer type questions. Paper setter shall be advised to set two questions from each unit and students are instructed to attempt five questions by selecting one question from each unit.

Note: Contents of each unit may be completed into 15-18 lectures or contact hours which also include revisions, seminars, internal assessments, etc.

Unit- I: Simple Differentiation: **15-18 L**
Concept and Types of Functions; Concave and Convex functions. Simple differentiation; Maxima, Minima and Point of inflexion. Applications of simple differentiation in economics.

Unit- II: Partial Differentiation: **15-18 L**
Partial differentiation; Unconstrained and Constrained optimization (Two independent variable case). Applications partial differentiation in economics.

Unit- III: Integration and Differential Equations: **15-18 L**
Integration: Indefinite and Definite; Applications of integration in economics, First order difference equations and their application in economics.

Unit- IV: Matrices and Determinants: **15-18 L**
Matrices: Various types of matrices, Inverse of a matrix, Vectors. Determinants: Important properties and their applications in economics, Cramer's rule.

Unit- V: Matrices and Determinants: **15-18 L**
Input-output model, Linear programming (graphical and simplex methods) and Game theory.

Course Outcome

1. This course imparts the knowledge of various mathematical techniques used for economic analysis.
2. It train the students to apply these techniques to economic theory in general like, explaining the relationship among economics variables, calculating maxima and minima, explaining the time path of variables etc.
3. It also develops the skill of students to use matrix algebra in solution of economic models.
4. Students gain knowledge of linear programming and game Theory to resolve economic issues.

Books & References:

- R. G. D. Allen: Mathematical Analysis for Economics McMillan, London.
- Edward T. Dowling: Mathematics for Economics, Schaum's Outline Series Mc Graw- Hill Book Co., New Delhi.
- Laxmi Narain Nathuramka: Arthshastra Mein Ganit ke Prayog (Hindi) Ramesh Book Deopt., Jaipur.
- B. C. Mehta and G. M. K. Madnani: Mathematics for Economists, Sultan Chand & Sons, New Delhi.
- Alpha C. Chiang: Fundamental Methods of Mathematical Economics, McGraw- Hill, Tokyo.
- Balwant Kandoi: Mathematics for Business and Economics with Application, Volum -I & II , Himalaya Publishing House.

Paper- 1.4 : ECO-514: Public Economics- I

Course Objectives:

This course is designed to provide in-depth knowledge of Public Economics and role of government in economic activities. The subject encompasses a host of topics including public goods, public budgets, theories of public expenditure and public revenue, tax burden, Incidence and effects of taxation and tax system.

Contact Hours/Week	: 06 Hours	Maximum Marks	: 150 Marks
Duration of Examination	: 03 Hours	Continuous Assessment	: 50 Marks

Semester Assessment : 100 Marks

Each paper contains 150 marks for regular and Non-Collegiate students. Continuous assessment of marks 50 are divided into 30 marks for midterm test and 20 marks for Seminars/project report/presentation for regular student. While Continuous assessment of marks 50 are divided into 30 marks for report writing and 20 marks for Viv-voce for Non-Collegiate students.

Note: The syllabus is divided into five independent units and question paper will be divided into two sections:

- **Section-A** will carry 20 marks with 01 compulsory question comprising 10 short answer type questions taking two questions from each unit. Each question shall be of two marks.
- **Section-B** will carry 80 marks with equally divided into five long answer type questions. Paper setter shall be advised to set two questions from each unit and students are instructed to attempt five questions by selecting one question from each unit.

Note: Contents of each unit may be completed into 15-18 lectures or contact hours which also include revisions, seminars, internal assessments, etc.

Unit- I: Introduction to Public Finance:

15-18 L

Nature and Scope of Public Finance and Private Finance, Economic. Analysis of Public policy, Role of Government in the Economic Activity- Allocation, Distribution and Stabilization Functions, Private, Public and Merit Goods. Principle of Maximum Social Advantage.

Unit-II: Budgeting

15-18 L

Public Budgets – Kinds of Budgets, Optimal Budgeting, Balanced and Unbalanced Budgets – Deficit Financing, Performance and Programming Budgeting, Zero Base Budgeting.

Unit-III: Public Expenditure:

15-18 L

Public Expenditure – Hypothesis and evaluation, Effects of Public Expenditure on Production and Distribution, Bowen, Lindhal and Samuelson's Models, Wagner's Law of Increasing State Activities, Weisman Peacock Hypothesis.

Unit-IV: Public Revenue :

15-18 L

Public Revenue – Canons of Taxation, Different Approaches to the Division of Tax Burden, Incidence and Effects of Taxation, Taxable Capacity, Justice in Taxation, Benefit & Ability to Pay Approaches. Theory of Optimal Taxation – Equal Absolute, Equal- Proportional, Equal-Marginal and least Aggregate Sacrifice Principles. Buoyancy and Elasticity of Tax.

Unit-V: Tax System:

15-18 L

Direct and Indirect taxes – Effects of Direct Tax on Production (viz. Labour Supply and Saving Rate) and Distribution, Effects of Indirect Tax on Production, Progressiveness of a Tax System and its Measurement. Shifting and Incidence under Monopoly and Perfect Competition.

Course Outcomes:

On successful completion of this course, the students will be able to

1. Have conceptual clarity on the theories of public goods, public budgets, public expenditure, public revenue and tax system.
2. Apply the principles of public economics in analyse various government policies.

Books & References:

- R.A. Musgrave and P.B. Musgrave Public Finance in Theory and practice, New York: McGraw-Hill.
- R.A. Musgrave: Theory of Public Finance, McGraw-Hill.
- S. Ganguli: Public Finance, Public Finance and Public Choice, Oxford University Press.
- Harvey Rosen, Public Finance, McGraw Hill Publications.
- David N. Hyman, Public Finance – A Contemporary Applications of Theory to Policy, Thomson South Western.
- R.K. Lekhi, Public Finance, Kalyani Publishers.

Semester –II

Discipline Centric core (Compulsory)

Paper- 2.1: ECO-521: Microeconomic Theory –II

Course Objective

This course will impart theoretical knowledge on decisions making under market Imperfections, game theory, factor pricing and also introduce students to various theories of distribution, welfare economics, general equilibrium as well as new developments in the theory of markets and economics of information.

Contact Hours/Week	: 06 Hours	Maximum Marks	: 150 Marks
Duration of Examination	: 03 Hours	Continuous Assessment	: 50 Marks
		Semester Assessment	: 100 Marks

Each paper contains 150 marks for regular and Non-Collegiate students. Continuous assessment of marks 50 are divided into 30 marks for midterm test and 20 marks for Seminars/project report/presentation for regular student. While Continuous assessment of marks 50 are divided into 30 marks for report writing and 20 marks for Viv-voce for Non-Collegiate students.

Note: The syllabus is divided into five independent units and question paper will be divided into two sections:

- **Section-A** will carry 20 marks with 01 compulsory question comprising 10 short answer type questions taking two questions from each unit. Each question shall be of two marks.
- **Section-B** will carry 80 marks with equally divided into five long answer type questions. Paper setter shall be advised to set two questions from each unit and students are instructed to attempt five questions by selecting one question from each unit.

Note: Contents of each unit may be completed into 15-18 lectures or contact hours which also include revisions, seminars, internal assessments, etc.

Unit- I: Oligopoly Market & Its Models: 15-18 L

Oligopoly market: Non-collusive models of Cournot, Bertrand, Edge worth, Chamberlin and Stackelberg. Cartels and Price leadership, Baumol's model, Marris's and Williamson's managerial theory. Full cost pricing, Bain's limit pricing theory.

Unit- II: Game Theory & Theory of Distribution: 15-18 L

Game theory; Theory of distribution: Neo-classical approach, Marginal productivity theory, Euler's theorem. Technical progress and Factor shares.

Unit- III: Factor Pricing: 15-18 L

Factor pricing under perfect and imperfect competition: Determination of wages, rent, interest and profit, Macro theories of distribution- Ricardo, Marx, Kalecki and Kaldor's models.

Unit- IV: Welfare Economics: 15-18 L

Welfare economics: Pigouvian welfare economics, Pareto optimality. Kaldor – Hicks compensation principle. Theory of second best, Scitovsky paradox; Little's welfare criterion.

Unit- V: Social Welfare Function: 15-18 L

Social welfare function and theory of social choice- Rawl, Bergson- Samuelson and Arrow's theorem. externalities, Public goods and market failures. Asymmetric information – Market Signaling Moral hazard, The principal – agent problem.

Course Outcome

1. After completing the course the students are expected to have deeper knowledge on decisions making in imperfect market conditions and enable them to apply in real market situations.
 2. This paper enhance the understanding of various concepts and theories of welfare economics.
 3. The students will be able to demonstrate the theories related to factor market and its equilibrium
- Students will have knowledge of new developments in the theory markets and economics of information.

Books & References:

- A. Koutsoyiannis : Modern Microeconomics, Macmillan, London.
- Robert S. Pindyck and Daniel L. Rubinfeld: Microeconomics. Pearson Education Inc., New Delhi.
- D. Salvatore: Microeconomic Theory, Oxford University Prees, New Delhi.
- Hal R. Varian: Microeconomic Analysis, W.W. Norton & Company Inc., New York.
- H.L. Ahuja: Advanced Microeconomic Theory, S. Chand Publication, New Delhi.

Paper- 2.2: ECO-522: Macroeconomic Theory –II

Course Objectives:

This is a sequel to Macroeconomics-1 in semester-1. It imparts deeper knowledge of determination of Output and Employment, Multiplier, IS-LM Model in detail. It also introduces students to concept of inflation, its control and its relationship with unemployment. Course also aims to expose the students to open economy Macroeconomics and the dynamics there in and New classical Macroeconomics.

Contact Hours/Week	: 06 Hours	Maximum Marks	: 150 Marks
Duration of Examination	: 03 Hours	Continuous Assessment	: 50 Marks
		Semester Assessment	: 100 Marks

Each paper contains 150 marks for regular and Non-Collegiate students. Continuous assessment of marks 50 are divided into 30 marks for midterm test and 20 marks for Seminars/project report/presentation for regular student. While Continuous assessment of marks 50 are divided into 30 marks for report writing and 20 marks for Viv-voce for Non-Collegiate students.

Note: The syllabus is divided into five independent units and question paper will be divided into two sections:

- **Section-A** will carry 20 marks with 01 compulsory question comprising 10 short answer type questions taking two questions from each unit. Each question shall be of two marks.
- **Section-B** will carry 80 marks with equally divided into five long answer type questions. Paper setter shall be advised to set two questions from each unit and students are instructed to attempt five questions by selecting one question from each unit.

Note: Contents of each unit may be completed into 15-18 lectures or contact hours which also include revisions, seminars, internal assessments, etc.

Unit-I: Determination of Output and Employment:

15-18 L

Determination of Output and Employment – The Classical and Keynesian Models; Multiplier- Concept, Working, Static and Dynamic Multiplier; Aggregate Supply and Aggregate Demand Model- Neo-Classical Three Sector Model and Keynesian Three Sector Model.

Unit-II: IS-LM Model:

15-18 L

IS-LM Model- The Interaction of Real and Monetary Sectors of the Economy, Keynesian Version of the IS-LM Model, Neo Classical Version of the IS-LM Model, Fiscal Policy and Crowding Out Effect; Role and Relative Effectiveness of Fiscal and Monetary Policies.

Unit-III: Open Economy Model: 15-18 L

Open Economy Macroeconomics- Trade Balance, Exchange Rates and International Monetary System: Mundell-Fleming Model: Analysis of Fiscal , Monetary and Trade Policies under Imperfect Capital Mobility and Perfect Capital Mobility with Fixed and Flexible Exchange Rate Systems.

Unit-IV: Inflation, Meaning, Types and Its Control: 15-18 L

Classical, Keynesian and Monetarist Approaches to Inflation and Policies to Control Inflation; Phillips Curve Analysis; Expectation Augmented Phillips Curve Analysis; Natural Rate of Unemployment Hypothesis. Role of RBI in Inflation Control, Credit Control and Economic Stability.

Unit-V: Determination of Output and Employment: 15-18 L

New Classical Macroeconomics – The New Classical Critique of Keynesian Micro Foundations. The Real Business Cycle Theory; Rational Expectations- Solution of a Simple Macroeconomic Model with Rational Expectations and Economic Interpretation.

Course Outcomes:

On successful completion of the course the students are expected to

1. Have deeper knowledge of classical, Keynesian, Neo-classical and post Keynesian Macroeconomic views.
2. apply the subject knowledge in understanding the Macroeconomic dynamics both in a closed and open economy.

Books & References:

- Errol D’ Souza, Macroeconomics, Person Education.
- Richard. T. Froyen, Macro Economics: Theories and Policies, Pearson Education.
- P. Edgmond, Macroeconomics, PHI, New Delhi.
- Gregory Minkiw, Macroeconomics, CBS Publishers, New Delhi.
- Robert J Gorden, Macroeconomics, Harper Collins.
- Dasgupta, A. K., Macroeconomics Analysis, New Delhi.
- Ahuja, H. L., Advanced Macroeconomic Theory (Hindi), S. Chand Publication, New Delhi.
- Rana, K. C. & Verma, K. N., Macro Economic Analysis (Hindi), Vishal Publishing Company, Jalandhar.

Paper- 2.3: ECO-523: Statistical Methods

Course Objectives

This paper specifically designed with the goal of equipping students with the skills to use statistical techniques in varied disciplines. The paper also aims to acquaint the students with the techniques of elementary research.

Contact Hours/Week	: 06 Hours	Maximum Marks	: 150 Marks
Duration of Examination	: 03 Hours	Continuous Assessment	: 50 Marks
		Semester Assessment	: 100 Marks

Each paper contains 150 marks for regular and Non-Collegiate students. Continuous assessment of marks 50 are divided into 30 marks for midterm test and 20 marks for Seminars/project report/presentation for regular student. While Continuous assessment of marks 50 are divided into 30 marks for report writing and 20 marks for Viv-voce for Non-Collegiate students.

Note: The syllabus is divided into five independent units and question paper will be divided into two sections:

- **Section-A** will carry 20 marks with 01 compulsory question comprising 10 short answer type questions taking two questions from each unit. Each question shall be of two marks.

- **Section-B** will carry 80 marks with equally divided into five long answer type questions. Paper setter shall be advised to set two questions from each unit and students are instructed to attempt five questions by selecting one question from each unit.

Note: Contents of each unit may be completed into 15-18 lectures or contact hours which also include revisions, seminars, internal assessments, etc.

Unit- I: Central Tendency, Dispersion and Skewness:	15-18 L
Measures of central tendency, Dispersion, Skewness, Measurement of Inequality Lorenz Curve and Gini Coefficient.	
Unit- II: Kurtosis, Correlation & Regression:	15-18 L
Kurtosis, Correlation, Simple Regression and Interpretation of Multiple linear Regression Equation.	
Unit- III: Time Series, Index Number & Probability:	15-18 L
Analysis of Time Series and Curve Fitting, Index Numbers Probability, Mathematical Expectation.	
Unit- IV: Probability Distribution, Sampling & Hypothesis Testing:	15-18 L
Probability Distributions (Binomial , Poisson, and Normal); Sample, Sampling and Survey Methods, Testing of Hypothesis.	
Unit- V: Different types of Test:	15-18 L
Application of Z, t F & X^2 tests, Association of Attributes, Analysis of Variance.	

Course Outcomes

On successful completion of the course, students will be able to

1. Understand statistical tools which are frequently used in social sciences research such as statistical averages, estimation, hypothesis testing, Regression & correlation, concept and use of probability theory.
2. Understand theoretical distribution and their significance and sampling techniques.
3. Students will be able to analyse primary and secondary data and draw inferences from the datasets.

Books & References:

- S.P. Gupta: Statistical Methods, Sultan Chand & Sons, New Delhi.
- Kailas Nath Nagar: Sankhyiki ke Mool Tatva (Hindi), Meenakshi Prakashan, Meerut.
- A. L. Nagar & R. K. Das: Basic Statistics, Oxford University Press, New Delhi.
- D. R. Agarwal: Quantitative Methods, Vrinda Publication.

Paper- 2.4: ECO-524: Public Economics –II

Course Objectives:

1. To provide the students with thorough analytical understanding to analyse Public Debt, Indian Tax System and Budget, Fiscal Federalism, Public Enterprises and Tax Reforms in India.
2. To critically analyse fiscal policy/finance and its implications in Indian Economy.

Contact Hours/Week	: 06 Hours	Maximum Marks	: 150 Marks
Duration of Examination	: 03 Hours	Continuous Assessment	: 50 Marks
		Semester Assessment	: 100 Marks

Each paper contains 150 marks for regular and Non-Collegiate students. Continuous assessment of marks 50 are divided into 30 marks for midterm test and 20 marks for Seminars/project report/presentation for regular student. While Continuous assessment of marks 50 are divided into 30 marks for report writing and 20 marks for Viv-voce for Non-Collegiate students.

Note: The syllabus is divided into five independent units and question paper will be divided into two sections:

- **Section-A** will carry 20 marks with 01 compulsory question comprising 10 short answer type questions taking two questions from each unit. Each question shall be of two marks.
- **Section-B** will carry 80 marks with equally divided into five long answer type questions. Paper setter shall be advised to set two questions from each unit and students are instructed to attempt five questions by selecting one question from each unit.

Note: Contents of each unit may be completed into 15-18 lectures or contact hours which also include revisions, seminars, internal assessments, etc.

Unit- I: Public Debt: 15-18 L

Theory of public debt– sources, effects, burden and its management, loans and saving as sources of finance for development. Internal and external public debt of India.

Unit- II: Fiscal Policy: 15-18 L

Fiscal policy – neutral and compensatory fiscal policy; Functional finance; Fiscal policy in developing countries; Fiscal policy for stabilization– automatic and discretionary stabilizers. Built in flexibility, Interdependence of fiscal and monetary policies, Balanced budget multiplier, Anti-inflationary policy.

Unit- III: Indian Tax System & Budget: 15-18 L

Indian tax system – salient features, major taxes, main trends in the revenue of the central and state governments in India, Non – tax revenue, Union budget of India, Major trends in public expenditure in India (growth and composition), Problem of budget deficit and FRBM Act.

Unit- IV: Fiscal Federalism & Public enterprises in India: 15-18 L

Fiscal federalism – theory and problems, Problems of centre state financial rotations in India, Criteria for resource transfer from the centre to states, Finance commissions and devolution of resources to states, Pricing policy in public enterprises, disinvestment and privatization of Public enterprises in India.

Unit- V: Recent Tax Reforms in India: 15-18 L

Salient features of the Indian Tax System, major taxes, main trends in the revenues of the Central and State Governments in India. Major Changes in the tax structure with special reference to India - GST : meaning, concepts, slabs; Opportunities and challenge; GST Council - structure and major functions, Non-tax revenues..

Course Outcomes:

1. Provides in-depth knowledge on range of issues related to public finance and public choice.
2. The students would learn of the features of the federal structure and financial relationship among them.
3. This enables the students to analyse the budgets of government of India.
4. It will help students to critically analyse the fiscal reforms and policy choices of the government in developed and developing countries.

Books Recommended:-

- R.A. Musgrave and P.B. Public Finance in Theory and practice, New York McGraw-Hill.
- R.A. Musgrave: Theory of Public Finance McGraw-Hill.
- S. Ganguli: Public Finance, The World Press Private Limited.
- John Callis and Phillip Jones, Public Finance and Public Choice, Oxford University Press.
- Harvey Rosen, Public Finance, McGraw Hill Publications.
- David N. Hyman, Public Finance – A Contemporary Applications of Theory to Policy, Thomson South Western.
- R.K. Lekhi, Public Finance, Kalyani Publishers.
- Chelliah and Kelkar Committee Reports.
- Prem Prakash Sharma : Principle of Public Finance, Hindi Granth- Academy, Jaipur (Hindi)