

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

*(For Academic Session 2019-2020)*

***M. A. Economics***  
***First and Second Semester 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	Core Course	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 (30%)		Semester Assessment (70%)				
								Max. Marks	Min. Pass Marks	Max. Marks	Min. Pass Marks	Max. Marks	Min. Pass Marks	
<b>I Year I Sem.</b>	<b>Compulsory</b>	Paper-1.1	ECO-511	Microeconomic Theory - I	3 Hrs	4	-	4	30	12	70	28	100	40
		Paper-1.2	ECO-512	Macroeconomic Theory – I	3 Hrs	4	-	4	30	12	70	28	100	40
		Paper-1.3	ECO-513	Mathematical Methods for Economics	3 Hrs	4	-	4	30	12	70	28	100	40
		Paper-1.4	ECO-514	Indian Economic Development and Policy-I	3 Hrs	4	-	4	30	12	70	28	100	40
		Paper-1.5	ECO-515	Elective Core Course –A	3 Hrs	4	-	4	30	12	70	28	100	40
	<b>Electives</b>	<b>Total (I Semester)</b>			<b>15 Hrs</b>	<b>20</b>	<b>20</b>	<b>150</b>	<b>60</b>	<b>350</b>	<b>140</b>	<b>500</b>	<b>200</b>	
<b>I Year II Sem.</b>	<b>Compulsory</b>	Paper-2.1	ECO-521	Microeconomic Theory- II	3 Hrs	4	-	4	30	12	70	28	100	40
		Paper-2.2	ECO-522	Macroeconomic Theory – II	3 Hrs	4	-	4	30	12	70	28	100	40
		Paper-2.3	ECO-523	Statistical Methods	3 Hrs	4	-	4	30	12	70	28	100	40
		Paper-2.4	ECO-524	Indian Economic Development and Policy-II	3 Hrs	4	-	4	30	12	70	28	100	40
		Paper-2.5	ECO-525	Elective Core Course –B	3 Hrs	4	-	4	30	12	70	28	100	40
	<b>Electives</b>	<b>Total (II Semester)</b>			<b>15 Hrs</b>	<b>20</b>	<b>20</b>	<b>150</b>	<b>60</b>	<b>350</b>	<b>140</b>	<b>500</b>	<b>200</b>	

<b>II Year</b> <b>III Semester</b>	<b>Compulsory</b>	Paper-3.1 ECO-631	Public Economics-I	3 Hrs	4	-	4	30	12	70	28	100	40
		Paper-3.2 ECO-632	International Trade Theory	3 Hrs	4	-	4	30	12	70	28	100	40
		Paper-3.3 ECO-633	Economics of Development and Growth-I	3 Hrs	4	-	4	30	12	70	28	100	40
	<b>Electives</b>	Paper-3.4 ECO-634	Elective Core Course- C	3 Hrs	4	-	4	30	12	70	28	100	40
		Paper-3.5 ECO-635	Elective Core Course- C	3 Hrs	4	-	4	30	12	70	28	100	40
<b>Total (III Semester)</b>				<b>15 Hrs</b>	<b>20</b>	<b>20</b>	<b>150</b>	<b>60</b>	<b>350</b>	<b>140</b>	<b>500</b>	<b>200</b>	
<b>II Year</b> <b>IV Semester</b>		Paper-4.1 ECO-641	Public Economics-II	3 Hrs	4	-	4	30	12	70	28	100	40
		Paper-4.2 ECO-642	Trade Policy and International Monetary System	3 Hrs	4	-	4	30	12	70	28	100	40
		Paper-4.3 ECO-643	Economics of Development and Growth-II	3 Hrs	4	-	4	30	12	70	28	100	40
		Paper-4.4 ECO-644	Elective Core Course- D	3 Hrs	4	-	4	30	12	70	28	100	40
		Paper-4.5 ECO-645	Elective Core Course- D	3 Hrs	4	-	4	30	12	70	28	100	40
<b>Total (IV Semester)</b>				<b>15 Hrs</b>	<b>20</b>	<b>20</b>	<b>150</b>	<b>60</b>	<b>350</b>	<b>140</b>	<b>500</b>	<b>200</b>	
<b>Total (I + II + III + IV Semester)</b>				<b>60</b>	<b>80</b>	<b>80</b>	<b>600</b>	<b>240</b>	<b>1400</b>	<b>560</b>	<b>2000</b>	<b>800</b>	

## **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.

### **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 Sector.
- 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<sup>th</sup> number of year of study + n<sup>th</sup> number of semester of the programme + course number in Arabic number”*

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.

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, four teaching hours per week will carry 100 maximum marks for each paper / course.

### **Attendance:**

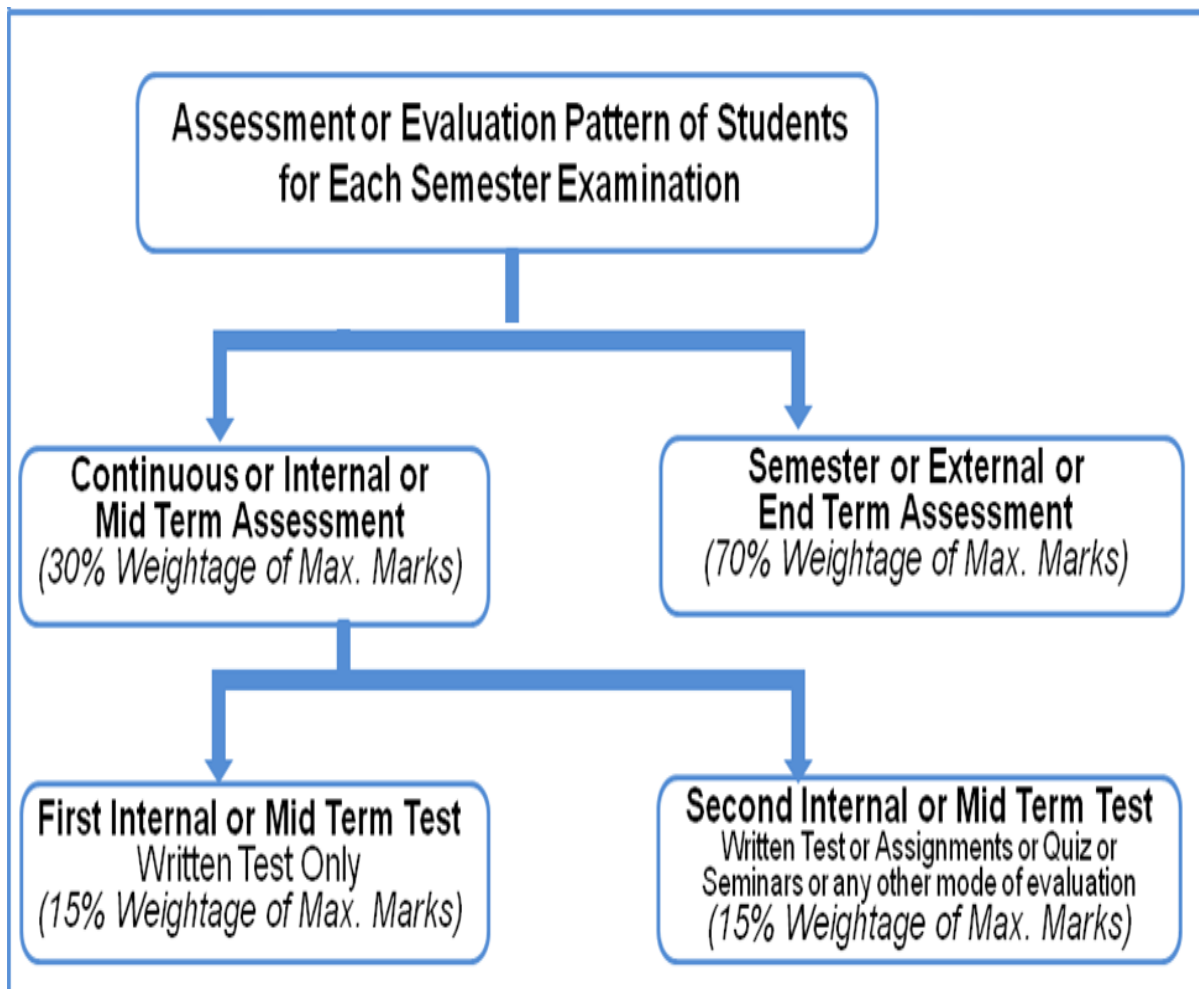
Every teaching faculty, handling a course, shall be responsible for the maintenance of Attendance Register for candidates who have registered for the course. The teacher of the course must intimate the Head of the Department at least seven calendar days before the last instruction day in the semester 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 (30% weightage of the maximum marks) and second part is semester assessment or external assessment (70% 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 (30% 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 of 15% weightage for each theory paper. 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 30% 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.

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

- (a) The semester or external or end-term assessment (70% 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 for each theory paper is divided into five independent units and question paper for each theory will be divided into three sections as mentioned below:
- **Section-A** will carry 10 marks with 01 compulsory question comprising 10 short answer type questions (maximum 20 words answer) taking two questions from each unit. Each question shall be of one mark.
  - **Section-B** will carry 25 marks with equally divided into five long answer type questions (answer about in 250 words). 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-C** will carry 35 marks with five long answer type questions comprising one compulsory question of 15 marks and four questions of 10 marks each. Students are instructed to attempt total three questions with one compulsory question (answer about in 500 words) and any two more questions (answer about in 400 words) out of remaining four questions. Paper setter shall be advised to design question paper covering from all five units.

**Question Paper Pattern:**

**(A) Continuous or Internal or Mid Term Assessment:**

30% weightage of Maximum Marks (30 Marks out of 100 Maximum Marks)

**(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...**

<b>Class</b>	<b>:</b>		<b>Max. Marks</b>	<b>:</b>	<b>15</b>
<b>Semester</b>	<b>:</b>		<b>No. of Students</b>	<b>:</b>	
<b>Subject</b>	<b>:</b>		<b>Duration of Exam</b>	<b>:</b>	
<b>Paper</b>	<b>:</b>		<b>Name of Teacher</b>	<b>:</b>	

**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

.....

5 Marks

Q. No. 2. ....

or

.....

5 Marks

Q. No. 3. ....

or

.....

5 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.

**5% weightage of Maximum 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:**

**10% weightage of Maximum Marks**

**Format**

**Department of Social Sciences**

**University of Kota**

**Kota (Rajasthan)-324 005**

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

<b>Class</b>	<b>:</b>	<b>Max. Marks</b>	<b>:</b>	<b>10</b>
<b>Semester</b>	<b>:</b>	<b>No. of Students</b>	<b>:</b>	
<b>Subject</b>	<b>:</b>	<b>Duration of Exam</b>	<b>:</b>	
<b>Paper</b>	<b>:</b>	<b>Name of Teacher</b>	<b>:</b>	

**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.** .....

**4 Marks**

**Q. No. 2.** .....

**or**

.....

**3 Marks**

**Q. No. 3.** .....

**or**

.....

**3 Marks**

**or**

**(b) Assignment:**

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

depending on

**10% weightage of Maximum Marks**

**or**

**(b) Quiz:**

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

**10% weightage of Maximum Marks**

or

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

**10% weightage of Maximum Marks**

**(B) Semester or External or End Term Assessment:**

70% weightage of Max Marks (70 Marks out of 100 Max Marks)

**Duration of Examination: 3 Hours**

**Max. Marks: 70**

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

- **Section-A** will carry 10 marks with 01 compulsory question comprising 10 short answer type questions (maximum 20 words answer) taking two questions from each unit. Each question shall be of one mark.
- **Section-B** will carry 25 marks with equally divided into five long answer type questions (answer about in 250 words). 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-C** will carry 35 marks with five long answer type questions comprising one compulsory question of 15 marks and four questions of 10 marks each. Students are instructed to attempt total three questions with one compulsory question (answer about in 500 words) and any two more questions (answer about in 400 words) out of remaining four questions. Paper setter shall be advised to design question paper covering from all five units.

**SECTION-A**

**Q. 1.**

**Unit-I**

(i) ..... **1 Mark**

(ii) ..... **1 Mark**

**Unit-II**

(iii) ..... **1 Mark**

(iv) ..... **1 Mark**

**Unit-III**

(v) ..... **1 Mark**

---

(vi) ..... 1 Mark

**Unit-IV**

(vii) ..... 1 Mark

(viii) ..... 1 Mark

**Unit-V**

(ix) ..... 1 Mark

(x) ..... 1 Mark

**SECTION-B**

**Unit-I**

Q. 2. .... 5 Marks

or

..... 5 Marks

**Unit-II**

Q. 3. .... 5 Marks

or

..... 5 Marks

**Unit-III**

Q. 4. .... 5 Marks

or

..... 5 Marks

**Unit-IV**

Q. 5. .... 5 Marks

or

..... **5 Marks**

**Unit-V**

**Q. 6.** ..... **5 Marks**

or

..... **5 Marks**

**SECTION-C**

**Unit-I**

**Q. 7.** ..... **15 Marks**

**Unit-II**

**Q. 8.** ..... **10 Marks**

**Unit-III**

**Q. 9.** ..... **10 Marks**

**Unit-IV**

**Q. 10.** ..... **10 Marks**

**Unit-V**

**Q. 11.** ..... **10 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:

<b>Description of Marks Obtained</b>	<b>Division / Result</b>
<ul style="list-style-type: none"> <li>• 80% and above marks in a paper.</li> </ul>	Distinction in that paper.
<ul style="list-style-type: none"> <li>• A candidate who has secured aggregate 60% and above marks</li> </ul>	First Division
<ul style="list-style-type: none"> <li>• A candidate who has secured aggregate 50% and above but less than 60% marks</li> </ul>	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).

..... X ..... X ..... X .....

## **Semester -I**

### **Compulsory Core Courses**

#### **Paper- 1.1: ECO-511: Microeconomics Theory -I**

Contact Hours/Week	: 04 Hours	Maximum Marks	: 100 Marks
Duration of Examination	: 03 Hours	Continuous Assessment	: 30 Marks
		Semester Assessment	: 70 Marks

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

- **Section-A** will carry 10 marks with 01 compulsory question comprising 10 short answer type questions (maximum 20 words answer) taking two questions from each unit. Each question shall be of one mark.
- **Section-B** will carry 25 marks with equally divided into five long answer type questions (answer about in 250 words). 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-C** will carry 35 marks with five long answer type questions comprising one compulsory question of 15 marks and four questions of 10 marks each. Students are instructed to attempt total three questions with one compulsory question (answer about in 500 words) and any two more questions (answer about in 400 words) out of remaining four questions. Paper setter shall be advised to design question paper covering from all five units.

*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- Laffer Curve. 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 International Price Discrimination and Peak – load pricing. Two-Part Tariff. Monopolistic Competition. Bilateral Monopoly.

**Books Recommended:**

- 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: Macroeconomics Theory -I**

Contact Hours/Week	: 04 Hours	Maximum Marks	: 100 Marks
Duration of Examination	: 03 Hours	Continuous Assessment	: 30 Marks
		Semester Assessment	: 70 Marks

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

- **Section-A** will carry 10 marks with 01 compulsory question comprising 10 short answer type questions (maximum 20 words answer) taking two questions from each unit. Each question shall be of one mark.
- **Section-B** will carry 25 marks with equally divided into five long answer type questions (answer about in 250 words). 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-C** will carry 35 marks with five long answer type questions comprising one compulsory question of 15 marks and four questions of 10 marks each. Students are instructed to attempt total three questions with one compulsory question (answer about in 500 words) and any two more questions (answer about in 400 words) out of remaining four questions. Paper setter shall be advised to design question paper covering from all five units.

*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.

**Books Recommended :**

- 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**

Contact Hours/Week	: 04 Hours	Maximum Marks	: 100 Marks
Duration of Examination	: 03 Hours	Continuous Assessment	: 30 Marks
		Semester Assessment	: 70 Marks

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

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

- **Section-B** will carry 25 marks with equally divided into five long answer type questions (answer about in 250 words). 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-C** will carry 35 marks with five long answer type questions comprising one compulsory question of 15 marks and four questions of 10 marks each. Students are instructed to attempt total three questions with one compulsory question (answer about in 500 words) and any two more questions (answer about in 400 words) out of remaining four questions. Paper setter shall be advised to design question paper covering from all five units.

**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 of a Function; Limit, Continuity and Differentiability of Real Valued Function; 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 and Differential 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: I-O Model, L.P.G. and Game Theory: 15-18 L**

Input-Output Model, Linear Programming (graphical and simplex methods) and Game Theory.

**Books Recommended :**

- 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. Madhani: 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: Indian Economic Development and Policy-I**

Contact Hours/Week	: 04 Hours	Maximum Marks	: 100 Marks
Duration of Examination	: 03 Hours	Continuous Assessment	: 30 Marks
		Semester Assessment	: 70 Marks

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

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

- **Section-B** will carry 25 marks with equally divided into five long answer type questions (answer about in 250 words). 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-C** will carry 35 marks with five long answer type questions comprising one compulsory question of 15 marks and four questions of 10 marks each. Students are instructed to attempt total three questions with one compulsory question (answer about in 500 words) and any two more questions (answer about in 400 words) out of remaining four questions. Paper setter shall be advised to design question paper covering from all five units.

**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: Resources of India: 15-18 L**

Natural Resource in India – land, Water, Forest and Minerals, Population – Size, Composition; Quality and Growth Trends Characteristics of Indian Population through Recent Census, Population Policy and Economic Effects of Population Pressure.

**Unit- II: Major Problem of India: 15-18 L**

Poverty, Unemployment and Human Development Index; Its Measure, Latest HDI Report. Human Development during Plan Period – Appraisal of Government Measures, India's Human Development Record in Global Perspective.

**Unit- III: Agricultural Development in India: 15-18 L**

Agricultural Development in India; Institutional Aspects- Land Reforms, Green Revolution, Technological Aspects – Agricultural Inputs and Shifts in Production Function, Agricultural Cost and Price Policy.

**Unit- IV: Agricultural Marketing and Credit in India: 15-18 L**

Agricultural Marketing and Credit, Food Policy and Security, Subsidy and Public Distribution System, Capital Formation in Indian Agriculture, Problems in Agriculture – A Need for Second Green Revolution.

**Unit- V: Industrial Development in India: 15-18 L**

Industry – Strategy of Industrial Development and Industrial Policy; Reforms, Small Scale and Cottage Industries, Reservation Policy Relating to Small Scale Industries, Sources of Industrial Finance-Banks, Share Market, Insurance Companies, Pension Fund, Non Banking Sources and FDI, Role of Foreign capital for Direct Investment and Portfolio Investment, Public Sector Reforms, Privatization and Disinvestment.

**Books & References:**

- Dutt and Sundram: Indian Economy, S. Chand (Latest Ed) (Hindi and English), New Delhi.
- A.N. Agrawal: Indian Economy, New Age International Pub. (P) Letd, (Latest Ed) (Hindi and English), New Delhi
- Laxmi Narayan Nathurmka: Bhartiya Arthshastra, College Book House, (Latest Ed), Jaipur.
- Mishra & Puri: Indian Economy, Himalaya Publishing House (Latest Ed (Hindi and English), Mumbai.
- Economic Survey (Latest), MOF, GOI, New Delhi. & Download PDF from (<https://www.finmin.nic.in/>)
- Monthly Bulletins RBI, Mumbai. & Download PDF from <https://www.rbi.org.in/>
- 12<sup>th</sup> Five Year Plan, Planning Commission & Download PDF from <http://planningcommission.gov.in/>

**Elective Core Courses- A**

The candidate is required to select any one elective course from the following:

**Paper- 1.5: ECO-515 (A-01): Mathematical Economics- I**

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Contact Hours/Week	: 04 Hours	Maximum Marks	: 100 Marks
Duration of Examination	: 03 Hours	Continuous Assessment	: 30 Marks
		Semester Assessment	: 70 Marks

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

- **Section-A** will carry 10 marks with 01 compulsory question comprising 10 short answer type questions (maximum 20 words answer) taking two questions from each unit. Each question shall be of one mark.
- **Section-B** will carry 25 marks with equally divided into five long answer type questions (answer about in 250 words). 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-C** will carry 35 marks with five long answer type questions comprising one compulsory question of 15 marks and four questions of 10 marks each. Students are instructed to attempt total three questions with one compulsory question (answer about in 500 words) and any two more questions (answer about in 400 words) out of remaining four questions. Paper setter shall be advised to design question paper covering from all five units.

*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: Theory of Consumer Behavior-I: 15-18 L**  
Theory of Consumer Behavior-Nature of a Utility Function; Properties of an Indifference Curve; Maximization of Utility; Demand Functions: Ordinary and Compensated; Price and Income Elasticity. Elasticity Relations In Demand Analysis and Restrictions on Demand Functions; Slutsky Equation – n-Commodity Case, Elasticity Form and Important Results.

**Unit- II: Theory of Consumer Behavior-II: 15-18 L**  
Income and Leisure – Derivation of Labour Supply Function and its Properties; Linear Expenditure System- Properties and Derivation of Linear Demand Function; Homogeneous and Homothetic Utility Functions; Indirect Utility Functions- Properties, Derivation, Roy’s Identity and Derivation of Direct and Inverse Demand Functions; Consumer’s Surplus.

**Unit- III: Theory of Firm: 15-18 L**  
Theory of Firm- Production Function, Properties of a Well Behaved and Homogeneous Production Function: Cobb Douglas and CES Production Functions, Product Curves, Output Elasticity of Factor Input, Isoquant, Elasticity of Substitution of a Homogeneous Production Function- Linearly Homogeneous. Cobb- Douglas, CES Production Function and Special Cases of CES Production Function. Expansion Path Optimization Behavior of a Firm- Constrained Cost Minimization, Constrained Output Maximization and Profit Maximization.

**Unit- IV: Input Demand and Cost Functions: 15-18 L**  
Input Demand Functions– Properties and Derivation of Producer’s Input Demand Functions (through profit maximization); Cost Functions – Properties and Derivation of Short Run and Long Run Cost Functions (through profit maximization).

**Unit- V: Perfect Competition: 15-18 L**  
Determination of Optimum Plant Size; Perfect Competition- Market Demand, Producer Demand, Supply Functions (Short Run and Long Run), External Economies and Diseconomies, Commodity Market Equilibrium Under Perfect Competition (Short Run and Long Run), Differential Cost Conditions and Rent, Effects of Taxes on Optimum Output Level , Supply Function and Price Level.

**Note : Use of non- programmable calculator is permitted.**

**Books Recommended:**

- J.M. Henderson and R.L. Quandt: Micro Economic Theory: A Mathematical Approach, McGraw- Hill, London.
- R. G. D. Allen: Mathematical Economics, Macmillan
- B. C. Mehta: Mathematical Economics: Micro Economic Models, Sultan Chand & Sons, New Delhi.
- Alpha C. Chiang: Fundamental Methods of Mathematical Economics, McGraw- Hill, Kagakusha, Tokyo.

**Paper- 1.5: ECO-515 (A-02): Demography – I**

Contact Hours/Week	: 04 Hours	Maximum Marks	: 100 Marks
Duration of Examination	: 03 Hours	Continuous Assessment	: 30 Marks
		Semester Assessment	: 70 Marks

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

- **Section-A** will carry 10 marks with 01 compulsory question comprising 10 short answer type questions (maximum 20 words answer) taking two questions from each unit. Each question shall be of one mark.
- **Section-B** will carry 25 marks with equally divided into five long answer type questions (answer about in 250 words). 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-C** will carry 35 marks with five long answer type questions comprising one compulsory question of 15 marks and four questions of 10 marks each. Students are instructed to attempt total three questions with one compulsory question (answer about in 500 words) and any two more questions (answer about in 400 words) out of remaining four questions. Paper setter shall be advised to design question paper covering from all five units.

*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 Demography and Population Theories: 15-18 L**

Introduction to Population Study and Demography; Its Nature and Scope; Relationship with other Disciplines; Basic Demographic Concepts; Components of Population Change; Demographic Transition and Optimum Theory of Population; Historical Population Trend in Developed and Developing Regions.

**Unit- II: Demographic Data and Census: 15-18 L**

Sources of Demographic Data (with details of items on which it collects data): Census of India. Vital Registration System, Sample Registration System, National Sample survey Organization, National Family Health Survey and District Level Household Survey.

**Unit- III: Different Demographic Terms: 15-18 L**

Determinants and Consequences of Age- Sex structure of Population; Demographic Dividend; Basic Fertility Terms, Concepts and Data, Concept of Morbidity, Measures of Morbidity: Incidence and Prevalence Rates.

**Unit- IV: Diseases, Migration and Fertility: 15-18 L**

Meaning and Measure of Burden of Diseases; Epidemiological Transition. Concept of Migration and Mobility, Types of Migration, Census Definition of Migrants. Measurement of fertility- Total Fertility



Rate, Analysis of Total Fertility Rate, Gross Reproductive Rate, Net Reproductive Rate; Fertility Transition in India.

**Unit- V: Demographic Techniques of Analysis: 15-18 L**

Techniques of Analysis: Crude Birth and Death Rates, Age Specific Birth and Death Rates, Infant Mortality, Child Mortality, Maternal Mortality, Standardized Birth and Death Rates.

**Books Recommended:**

- Bhende, Asha A. and Tara Kanitkar (2004): Principles of Population Studies, Chapter-08, Himalaya Publishing House, Mumbai.
- Jacob S. Siegel and David A. Swanson (2004): The Methods and Materials of Demography. 2<sup>nd</sup> Edt. Chapters 1,2,3,7,9,10, Elsevier Science, USA.
- J. Weeks (2005): Population: An Introduction to Concepts and Issues, Wordsworth Learning, (9<sup>th</sup> Edt), Singapore.
- Pathak, K. B. and F. Ram (1998): Techniques of Demographic Analysis, Chapter 4 & 8, Himalaya Publishing House, Mumbai.
- Srinivasan K. (1998): Basic Demographic Techniques and Applications, Chapter 4, Sage Publications, New Delhi.
- National Family Health Surveys.
- United Nations, (1973): The Determinants and Consequences of Populations Trends, Vol.- I, Page No 50. Chapter 7, Population Studies, New York.
- United Nations , World Population Ageing, 1950-2050.

**Paper- 1.5: ECO-515 (A-03): Agricultural Economics - I**

Contact Hours/Week	: 04 Hours	Maximum Marks	: 100 Marks
Duration of Examination	: 03 Hours	Continuous Assessment	: 30 Marks

Semester Assessment : 70 Marks

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

- **Section-A** will carry 10 marks with 01 compulsory question comprising 10 short answer type questions (maximum 20 words answer) taking two questions from each unit. Each question shall be of one mark.
- **Section-B** will carry 25 marks with equally divided into five long answer type questions (answer about in 250 words). 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-C** will carry 35 marks with five long answer type questions comprising one compulsory question of 15 marks and four questions of 10 marks each. Students are instructed to attempt total three questions with one compulsory question (answer about in 500 words) and any two more questions (answer about in 400 words) out of remaining four questions. Paper setter shall be advised to design question paper covering from all five units.

*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 of Agricultural Economics: 15-18 L**

Introduction: Nature and Scope of Economics of Agriculture : Specificities of Farm Organization and Agricultural Production and Markets; Inter-sector Linkages of Agriculture [Backward and Forward Linkages and Feedback Effects].

**Unit- II: Agriculture and Economic Development: 15-18 L**

Role of Agriculture in Economic Development: Contribution of Agriculture to Economic Development; Historical Perspective [Experience of England, United States, Australia, Latin America, Soviet Russia, Japan and India]; Declining Role of Agriculture and Dilemmas of Development.

**Unit- III: Agricultural Production Function:**

**15-18 L**

Agricultural Production: Uniqueness of Agricultural Production; Various Types of Factor- Product, Factor- Factor and Product- Product Relations; Cobb- Douglas and CES Production Functions. Role of Farm Size and Structure in Equilibrium, Productivity, and Return to Scale. Sources and Barriers to Agricultural Development.

**Unit- IV: Agricultural Transformation, Products and Supply:**

**15-18 L**

Agricultural Transformation: Schultz Theory of Transformation of Traditional Agriculture, Agricultural Transformation: Indian Experience. Products, Characteristics of Supply of farm Products, Supply Response of Farm Products; Role of Price and Non- Price Factors in Inducing Aggregate Supply, Empirical Supply Response Functions and Evidence.

**Unit- V: Risk and Uncertainty in Agriculture:**

**15-18 L**

Risk and Uncertainty in Agriculture: Nature and Types of Risks and Uncertainties in Agriculture, Public Policies and Farm Level Measures to Reduce Risk and Uncertainties. Demand for and Supply of Farm Products; Characteristics of Demand For Farm Products; Quantity and Quality Components of Demand for Food, Forecasting of Demand for Food.

**Books recommended:**

- Bruce L. Gardener and Gordon C. Rausser (Eds.): Handbook of Agricultural Economics, Vol.- IA , Agricultural Production, Amersterdam, Elsevier Sciences B.V., 2002.
- Bruce L. Gardener and Gordon C. Rausser (Eds): Handbook of Agricultural Economics, Vol.-IB, Marketing, Distribution and Consumption, Amersterdam, Elsevier Sciences B.V., 2002.
- Bruce L Gardener and Gordon C. Rausser (Eds.): Handbook of Agricultural Economics, Vol.- 2A, Agricultural and Its External Linkages, Amersterdam, Elsevier Sciences B.V., 2002.
- Bruce L. Gardener and Gordon C.,Rasser (Eds.): Handbook of Agricultural Economics, Vol.- 2B, Agricultural and Policy, Amersterdam, Elsevier Sciences B.V., 2002.
- Eicher Karl and Lawrence Witt (Eds.): Agriculture and Economic Development, New York McGraw Hill Co., 1964.
- Ghatak Subrata and Ken Ingersent : Agriculture and Economic Development, Harvester Press Ltd., London, 1984.
- Southworth Herman and Bruce Johnston (eds): Agricultural Development and Economic Growth , Cornell University Press, New York , 2011.
- Tsakok, Isabelle (2011): Success in Agricultural Transformation: What It means and What Makes It Happen, Cambridge University Press, New York, 2011.

**Paper- 1.5: ECO-515 (A-04): Industrial Economics - I**

Contact Hours/Week	: 04 Hours	Maximum Marks	: 100 Marks
Duration of Examination	: 03 Hours	Continuous Assessment	: 30 Marks
		Semester Assessment	: 70 Marks

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

- **Section-A** will carry 10 marks with 01 compulsory question comprising 10 short answer type questions (maximum 20 words answer) taking two questions from each unit. Each question shall be of one mark.
- **Section-B** will carry 25 marks with equally divided into five long answer type questions (answer about in 250 words). 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-C** will carry 35 marks with five long answer type questions comprising one compulsory question of 15 marks and four questions of 10 marks each. Students are instructed to attempt total three questions with one compulsory question (answer about in 500 words) and any two more questions (answer about in 400 words) out of remaining four questions. Paper setter shall be advised to design question paper covering from all five units.

*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 of Industrial Economics: 15-18 L**

Industrialization and Development. Interdependence of Industrial Sectors; Backward and Forward Linkages: Location of Industries, Theories and Measures of Industrial Localization (Sargent F. & A. Weber) Localization of Industries in India. Industrial project Selection Criteria.

**Unit- II: Industrial Enterprise and Profit Maximization Models: 15-18 L**

Modern Corporation Enterprise. Size and Ownership Structure of Industrial Enterprise. Dominant Position of Corporate and its Characteristics issue of Separation of Ownership from Management and Control Models Alternative to Profit Maximization. Bamol, Williamson, Marries, Cyert and March.

**Unit- III: Different Market Structures and Sellers Concentration: 15-18 L**

Monopoly Power and Oligopolistic Market Structure; Measures of Sellers Concentration. Determination of Sellers Concentration: Economies of Scale. Barriers to Entry, Mergers, Size and Growth of Markets.

**Unit- IV: Market Conduct Under Oligopoly: 15-18 L**

Market Conduct under Oligopoly: Rivalry and Collusive Conduct. Dominant Firm Behavior and Potential Competition. Limit Price and Contestable Markets. Non- Price Competition with reference to Adverting.

**Unit- V: Market Performance: 15-18 L**

Market Performance: Allocative Efficiency. Market Structure and Profitability. Productive Efficiency and Sub-optimal Capacity. Allocative Versus Productive Efficiency.

**Books Recommended :**

- Barthwal R. R.: Industrial Economics: An Introductory Textbook, Wiley Eastern Limited , New Delhi.
- Cohen K. L. & Cyert R. M.: Theory of the Firm, Prentice Hall.

**Paper- 1.5: ECO-515 (A-05): Indian Banking System**

Contact Hours/Week	: 04 Hours	Maximum Marks	: 100 Marks
Duration of Examination	: 03 Hours	Continuous Assessment	: 30 Marks
		Semester Assessment	: 70 Marks

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

- **Section-A** will carry 10 marks with 01 compulsory question comprising 10 short answer type questions (maximum 20 words answer) taking two questions from each unit. Each question shall be of one mark.
- **Section-B** will carry 25 marks with equally divided into five long answer type questions (answer about in 250 words). 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-C** will carry 35 marks with five long answer type questions comprising one compulsory question of 15 marks and four questions of 10 marks each. Students are instructed to attempt total three questions with one compulsory question (answer about in 500 words) and any two more questions (answer about in 400 words) out of remaining four questions. Paper setter shall be advised to design question paper covering from all five units.

*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 of Indian Banking System:**

**15-18 L**

Indian Banking System as on the eve of bank Nationalization, Structure and Development of commercial banks in India since 199. Branch Expansion Programme and Policy. Deposit Mobilization and Sectoral Allocation of Bank Credit.

**Unit- II: Social, Mass Banking and Financial Sector Reforms:**

**15-18 L**

Concept of Social and Mass banking. Priority Sector Advances and Advance to the Neglected Sections of the Society. Financial Sector Reforms- Context, need and objectives. Implementations of the Narsimham Committee recommendations, Issues in Financial Reforms.

**Unit- III: Rural Banking and NABARD:**

**15-18 L**

Rural Banking – Overall Structure and review of the contribution of major credit cooperatives, Commercial Banks and Regional Rural Banks including NABARD.

**Unit- IV: Human Resource Development:**

**15-18 L**

Human Resource Development – Present and future HRD needs for bank employees in India. Recruitment, Training and Appraisal of Bank Employees, Khandelwal Committee Recommendations on Human Resource in Public Sectors Banks.

**Unit- V: Reserve Bank of India:**

**15-18 L**

The Reserve Bank of India – Functions and Role .Autonomy of the RBI. Liquidity Management, Monetary Policy- Goals, Targets and Indicators. RBI' s Monetary Policy- Objectives and Techniques. Impact of RBI'S Monetary Policy on Economic Growth and Price Stability.

**Books Recommended:**

- S.B. Gupta : Monetary Planning for India (latest Ed.)
- K. Rao: Management of Commercial Banks.
- L.M. Bhole : Impacts of Monetary Policy.
- Harendra Badhav (ed.): Challenges to Indian Banking Competition. Globalization and Financial Markets Macmillan.
- N.S. Yher: Non-Performing Advances in Banks, Skylark, New Delhi.
- Report of the Committee (Narsimhan) on the Financial System, Nov., 1991.
- Raghuram Rajan Committee Report on Financial Sector Reforms, Planning Commission, New Delhi.

- R.B.I. Report on trend and Progress of Banking in India (Latest Edition).
- Hanson and Kathuria (ed.): A financial Sector for the 21<sup>st</sup> Century, Oxford. University Press.
- Y.V. Reddy, Monetary and Financial Sector Reforms in India, UBSPD. New Delhi.

## **Semester -II**

### **Compulsory Core Courses**

#### **Paper- 2.1: ECO-521: Microeconomics Theory -II**

Contact Hours/Week	: 04 Hours	Maximum Marks	: 100 Marks
Duration of Examination	: 03 Hours	Continuous Assessment	: 30 Marks

Semester Assessment : 70 Marks

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

- **Section-A** will carry 10 marks with 01 compulsory question comprising 10 short answer type questions (maximum 20 words answer) taking two questions from each unit. Each question shall be of one mark.
- **Section-B** will carry 25 marks with equally divided into five long answer type questions (answer about in 250 words). 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-C** will carry 35 marks with five long answer type questions comprising one compulsory question of 15 marks and four questions of 10 marks each. Students are instructed to attempt total three questions with one compulsory question (answer about in 500 words) and any two more questions (answer about in 400 words) out of remaining four questions. Paper setter shall be advised to design question paper covering from all five units.

*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, Edgeworth, 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 and Recent Developments Including Sylos-Labini's Model. Behavioral Model of the Firm.

#### **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.

**Books Recommended:**

- 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- 2.2: ECO-522: Macroeconomics Theory –II**

Contact Hours/Week	: 04 Hours	Maximum Marks	: 100 Marks
Duration of Examination	: 03 Hours	Continuous Assessment	: 30 Marks
		Semester Assessment	: 70 Marks

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

- **Section-A** will carry 10 marks with 01 compulsory question comprising 10 short answer type questions (maximum 20 words answer) taking two questions from each unit. Each question shall be of one mark.
- **Section-B** will carry 25 marks with equally divided into five long answer type questions (answer about in 250 words). 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-C** will carry 35 marks with five long answer type questions comprising one compulsory question of 15 marks and four questions of 10 marks each. Students are instructed to attempt total three questions with one compulsory question (answer about in 500 words) and any two more questions (answer about in 400 words) out of remaining four questions. Paper setter shall be advised to design question paper covering from all five units.

*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.

**Books Recommended:**

- 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**

Contact Hours/Week	: 04 Hours	Maximum Marks	: 100 Marks
Duration of Examination	: 03 Hours	Continuous Assessment	: 30 Marks
		Semester Assessment	: 70 Marks

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

- **Section-A** will carry 10 marks with 01 compulsory question comprising 10 short answer type questions (maximum 20 words answer) taking two questions from each unit. Each question shall be of one mark.
- **Section-B** will carry 25 marks with equally divided into five long answer type questions (answer about in 250 words). 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-C** will carry 35 marks with five long answer type questions comprising one compulsory question of 15 marks and four questions of 10 marks each. Students are instructed to attempt total three questions with one compulsory question (answer about in 500 words) and any two more questions (answer about in 400 words) out of remaining four questions. Paper setter shall be advised to design question paper covering from all five units.

*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<sup>2</sup> tests, Association of Attributes, Analysis of Variance.

**Book recommended:**

- 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: Indian Economic Development and Policy-II**

Contact Hours/Week	: 04 Hours	Maximum Marks	: 100 Marks
Duration of Examination	: 03 Hours	Continuous Assessment	: 30 Marks

Semester Assessment : 70 Marks

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

- **Section-A** will carry 10 marks with 01 compulsory question comprising 10 short answer type questions (maximum 20 words answer) taking two questions from each unit. Each question shall be of one mark.
- **Section-B** will carry 25 marks with equally divided into five long answer type questions (answer about in 250 words). 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-C** will carry 35 marks with five long answer type questions comprising one compulsory question of 15 marks and four questions of 10 marks each. Students are instructed to attempt total three questions with one compulsory question (answer about in 500 words) and any two more questions (answer about in 400 words) out of remaining four questions. Paper setter shall be advised to design question paper covering from all five units.

*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: Foreign Trade:** **15-18 L**  
Foreign Trade: Salient features, Trends, Composition, Direction and Organization, Trade Reforms, liberalization and Recent Trade Policy.

**Unit- II: MNCs, W.T.O. & B.O.P.:** **15-18 L**  
MNCs and their Impact on Indian Economy, WTO – Issues and its Impact on Indian economy, India’s Balance of Payment Position in Recent Years.

**Unit- III: Planning In India:** **15-18 L**  
Economic Planning: Goals, Achievements and Shortcomings of Planned Development, Planning and the market. Planning Commission and NITI Ayog; Decentralized Planning: Constitutional Obligations and Panchayati Raj Institutions. Balwant Rai Mehta Committee and Ashok Mehta Committee, Financial Aspects of 73<sup>rd</sup> and 74<sup>th</sup> Constitutional Amendments.



**Unit- IV: National Income & Major Problems of Indian Economy: 15-18 L**

National and Per Capita Income – Growth pattern and trends, Aggregate and Sectoral Composition and Change therein, Regional Distribution, Income inequalities in – India. Problem of Subsidy. Black Money/ Parallel Economy, Poverty, Unemployment & Governmental efforts for their Solution.

**Unit- V: Infrastructure & Reforms of Indian Economy: 15-18 L**

Infrastructure Development in India- Physical Infrastructure [Power, Transport, Communication and Irrigation] and Social Infrastructure [Health and Education]; New Economic Policy- LPG and Second Phase of Economic Reforms, SEZs.

**Books & References:**

- Dutt and Sundram: Indian Economy, S. Chand (Latest Ed) (Hindi and English), New Delhi.
- A.N. Agrawal: Indian Economy, New Age International Pub. (P) Letd, (Latest Ed) (Hindi and English), New Delhi
- Laxmi Narayan Nathurmka: Bhartiya Arthshastra, College Book House, (Latest Ed), Jaipur.
- Mishra & Puri: Indian Economy, Himalaya Publishing House (Latest Ed (Hindi and English), Mumbai.
- Economic Survey (Latest), MOF, GOI, New Delhi. & Download PDF from (<https://www.finmin.nic.in/>)
- Planning Commission & Download PDF from <http://planningcommission.gov.in/>
- Uma Kapila: Indian Economy, Academic Foundation.

**Elective Core Courses- B**

The candidate is required to select any one elective course from the following:

**Paper- 2.5: ECO-525 (B-01): Mathematical Economics- II**

Contact Hours/Week	: 04 Hours	Maximum Marks	: 100 Marks
Duration of Examination	: 03 Hours	Continuous Assessment	: 30 Marks
		Semester Assessment	: 70 Marks

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

- **Section-A** will carry 10 marks with 01 compulsory question comprising 10 short answer type questions (maximum 20 words answer) taking two questions from each unit. Each question shall be of one mark.
- **Section-B** will carry 25 marks with equally divided into five long answer type questions (answer about in 250 words). 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-C** will carry 35 marks with five long answer type questions comprising one compulsory question of 15 marks and four questions of 10 marks each. Students are instructed to attempt total three questions with one compulsory question (answer about in 500 words) and any two more questions (answer about in 400 words) out of remaining four questions. Paper setter shall be advised to design question paper covering from all five units.

*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: Equilibrium: 15-18 L**

The Existence and Uniqueness of Equilibrium – The Stability of Equilibrium, Static Stability- Marshallian and Walrasian Stability Conditions and Dynamic Stability- Lagged Adjustment- the Cobweb Model.

**Unit-II: Price and Output Equilibrium Under Different Market Structure: 15-18 L**

Monopoly- Maximization of Profit and Sales Revenue, Price Discrimination: Market Discrimination and Perfect Discrimination, Multi- Plant Monopolist, Effect of Various Taxes on Output and Price of a Monopoly Firm, Bilateral Monopoly; Monopolistic Competition Equilibrium: Short Run and Long run; Duopoly and Oligopoly Market Models: The Cournot Solution, the Collusion Solution, the Cournot Solution, Stakelberg Solution, the Market Share Solution and the Kinked Demand Curve Solution Models

**Unit- III: Macroeconomic Models:**

**15-18 L**

Macroeconomic Models- Keynesian Theory of Income Determination and Derivation of Different Multipliers, Employment and Output Determination with Fixed and Flexible Prices: IS-LM and AD-AS Models. Fleming-Mundell Open Economy Model, Trade Cycles: Multiplier-Accelerator Interaction Models of Samuelson and Hicks;

**Unit- IV: Growth Models and Linear Programming:**

**15-18 L**

Growth Models : Harrod – Domar Model, Neoclassical Models of Solow & Meade; Kaldor’s Model. Linear Programming- Simplex Method: Problem of Degeneracy and Mixed Constraints, Duality Theorems, Complementary Slackness Conditions. Application of Linear Programming in Economics.

**Unit- V: Input-Output Models and Game Theory:**

**15-18 L**

Input-Output Analysis-Concepts of Static, Dynamic Closed and Open Input- Output Models, Hawkins- Simon Conditions of Viability, Determination of Gross Output , Price and Value Added in Open Input- Output Model, Determination of Gross Output in Closed Input-Output Model; Theory of Games- Two-Person, Constant Sum Games, Zero-Sum Game, Maximin and Minimax, Dominant Strategies, Pure and Mixed Strategies Saddle Point Solution. Linear- Programming Formulation of a Matrix Game and Conversion of Game Theory into Linear Programming.

**Note: Use of Non- Programmable Calculator is permitted.**

**Books Recommended:**

- J.M. Henderson and R.L. Quandt: Micro Economic Theory: A Mathematical Approach, McGraw- Hill, London.
- R. G. D. Allen: Mathematical Economics, Macmillan
- B. C. Mehta: Mathematical Economics: Micro Economic Models, Sultan Chand & Sons, New Delhi.
- Alpha C. Chiang: Fundamental Methods of Mathematical Economics, McGraw- Hill, Kagakusha, Tokyo.
- R. G. D. Allen: Macroeconomic Theory: A Mathematical Treatment, McGraw- Hill, London.
- Michael K. Evans: Macroeconomic Activity: Theory, forecasting and Control.
- David Romer : Advanced Macroeconomics , McGraw- Hill, Singapore.

**Paper- 2.5: ECO-525 (B-02): Demography- II**

Contact Hours/Week	: 04 Hours	Maximum Marks	: 100 Marks
Duration of Examination	: 03 Hours	Continuous Assessment	: 30 Marks
		Semester Assessment	: 70 Marks

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

- **Section-A** will carry 10 marks with 01 compulsory question comprising 10 short answer type questions (maximum 20 words answer) taking two questions from each unit. Each question shall be of one mark.
- **Section-B** will carry 25 marks with equally divided into five long answer type questions (answer about in 250 words). 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-C** will carry 35 marks with five long answer type questions comprising one compulsory question of 15 marks and four questions of 10 marks each. Students are instructed to attempt total three questions with one compulsory question (answer about in 500 words) and any two more questions (answer about in 400 words) out of remaining four questions. Paper setter shall be advised to design question paper covering from all five units.

*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: Demographic Theories:** **15-18 L**  
Malthusian Theory of Population, Population as 'Limits to Growth' and as 'Ultimate Source'. Characteristics of Indian Population through Recent Census.

**Unit- II: Life Table:** **15-18 L**  
Life table: Basic concepts of life Table; Types and Forms of Life Table; Construction of Life Tables based on Age- Specific Death Rates. Conventional Approach of life Table Construction; Concept and Need for Model life Tables.

**Unit- III: Poverty, Population Policy and Child Survival:** **15-18 L**  
Poverty in India- Absolute and relative; analysis of poverty in India; population policy of India. Mosley and Chen's Framework for Child Survival: Bogart's Proximate Determinants of Fertility

**Unit- IV: Population Projection:** **15-18 L**  
Concept and uses of Population Projection, Methods of Interpolation, Extrapolation using Gompertz Curves; Concepts and Measures of Population Ageing ; Implications of Population Ageing on Labor Force Retirement and Work Participation among Elderly , Implication for Government Expenditure for pension.

**Unit- V: Gender Issues and Population Policy of India:** **15-18 L**  
Gender Issues: Understanding Gender, Gender Inequalities, Gender Differentials in Nutrition and Health, Employment and Property Inheritance and Female Headship; Modern Theories of Population and Development: Pessimistic and Neutralist View; National Population Policy, 2000; National Rural Health Mission.

**Books Recommended:**

- Bhende, Asha A. and Tara Kanitkar (2004): Principles of Population Studies, Chapter-08, Himalaya Publishing House, Mumbai.
- Jacob S. Siegel and David A. Swanson (2004): The Methods and Materials of Demography. 2<sup>nd</sup> Edt. Chapters 1,2,3,7,9,10, Elsevier Science, USA.
- J. Weeks (2005): Population: An Introduction to Concepts and Issues, Wordsworth Learning, (9<sup>th</sup> Edt), Singapore.

- Pathak, K. B. and F. Ram (1998): Techniques of Demographic Analysis, Chapter 4 & 8, Himalaya Publishing House, Mumbai.
- Srinivasan K. (1998): Basic Demographic Techniques and Applications, Chapter 4, Sage Publications, New Delhi.
- National Family Health Surveys.
- United Nations, (1973): The Determinants and Consequences of Populations Trends, Vol.- I, Page No 50. Chapter 7, Population Studies, New York.
- United Nations , World Population Ageing, 1950-2050.
- F. Ram and K.B Pathak (1998): Techniques of Demographic Analysis, (Chapters 2 & 3), Himalya Publishing House , Mumbai.
- Preston, S.H., Patrick Heuveline and Michel Guillot (2001): Demography: Measuring and Modeling Population Process, (Chapters 2,3 &4), Blackwell Publishers, Oxford UK.
- Shryock, Henry S. Jacob Siegel and Associates (1980): The Methods and Materials of Demography, Vol.2, Fourth printing ( revised), US Department of Commerce, Washington DC, pp. 389-393, Chapter 14.
- Jacob S. Siegel and David a. Swanson (2004): The Methods and Materials of Demography, Second Edition, Chapters 1,2,3,7,9 & 10, Elsevier Science USA.
- John Weeks (2005): Population: An Introduction to Concepts and Issues, Wordsworth Learning, 9th Edition, Singapore.
- Basu. Alaka M., (1992): Culture , the Status of Women and Demographic Behaviour, Oxford University, New York.
- Dyson, Tim and Mick Moore, (1983): “On Kinship Structure, Female Autonomy and Demographic Behavior in India” Population and Development Review Vol.- 9(1). pp. 35-60.
- Birdsall, Nancy, Kelley. Allen C. and Sanding, Striven W.(2001): Population Matters: Demographic Change, Economic Growth and Poverty in the Developing World, Chapters 2,4 and 5, Oxford University Press.
- Peabody, J.W: Rahman. H. Omar; Gertolor, Paull. J; Hann, Joyce. (1999): Policy and Health Implication for Development in Asia, Cambridge University Press, Cambridge.

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**Paper- 2.5: ECO-525 (B-03): Agricultural Economics - II**

Contact Hours/Week : 04 Hours      Maximum Marks : 100 Marks  
Duration of Examination : 03 Hours      Continuous Assessment : 30 Marks

Semester Assessment : 70 Marks

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

- **Section-A** will carry 10 marks with 01 compulsory question comprising 10 short answer type questions (maximum 20 words answer) taking two questions from each unit. Each question shall be of one mark.
- **Section-B** will carry 25 marks with equally divided into five long answer type questions (answer about in 250 words). 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-C** will carry 35 marks with five long answer type questions comprising one compulsory question of 15 marks and four questions of 10 marks each. Students are instructed to attempt total three questions with one compulsory question (answer about in 500 words) and any two more questions (answer about in 400 words) out of remaining four questions. Paper setter shall be advised to design question paper covering from all five units.

*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: Agricultural Finance:**

**15-18 L**

Agricultural Finance: Financial Characteristics of Agriculture, Imperfect Information [Agency Relationship, Adverse Selection, and Moral Hazard] and Enforcement Problems in Credit Markets: Segmented Rural Credit Markets, Resolving Information and Incentive Problems; Managing Borrowers' Credit Risks; Agribusiness and Trade Financing; and Rationale for Government Intervention in Rural Credit Markets. Structure and Functioning of Rural Credit Market in India.

**Unit-II: Agricultural Market-I:**

**15-18 L**

Agricultural Markets: Nature, Types and Problems of Agricultural Commodity Markets; Marketing Margins. Determinants; and Evaluation of Marketing Efficiency. Institutional and Organizations in Agricultural markets [Farmers Cooperatives, Marketing Orders, Marketing Boards and Trading Enterprises].

**Unit-III: Agricultural Market-II:**

**15-18 L**

Horizontal Structure of Agricultural Marketing, Vertical Market Relationships, Instability in Agricultural Markets, Price Stabilization and Social Benefits, Storage and Market Stabilization, Role of Commodity Futures and Options in Stabilization.

**Unit-IV: Food Securities and International Trade:**

**15-18 L**

Food Security and International Trade: Concept, Threat, Indicators and Mechanism to Food Security: Food Assistance Programs [both Domestic and International]. Main Features of International Trade in Agricultural Commodities, Domestic Agricultural and Trade Policies of Developed Countries and Their Impact on World Trade.

**Unit-V: GATT, World Trade Organization and Indian Agricultural Development :**

**15-18 L**

Agriculture in GATT Negotiations and WTO. Recent Developments in Indian Agriculture; Indian Agricultural Development Strategy Since Independence. Opportunities and Challenges [Expectations, Performance, and

Emerging Constraints and Potentials] for Indian Agriculture in the Post Reform Period. National Agricultural Policy (Latest) and the Agricultural Development Strategy in the Latest Five Year Plan.

### **Books Recommended:**

- Besley, Timothy: “How Do Market Failures Justify Interventions in Rural Credit Markets?” The World Bank Research Observer, Vol. 9 No. 12. Bruce L. Gardener and Gordon C. Rausser (Eds.): Handbook of Agricultural Economics Vol. 1- A: Agricultural Production. Amersterdam, Elsevier Science B. V., 2002.
- Bruce L., Gardener and Gordon C. Rausser (Eds.): Handbook of Agricultural Economics, Vol. 1-B: Marketing, Distribution and Consumption. Amersterdam. Elsevier Science, B.V., 2002.
- Bruce L. Gardender and Gordon C. Rausser (Eds.): Handbook of Agricultural Economics Vol. 2-A: Agricultural and Its External Linkages, Amersterdam , Elsevier Science, B. V., 2002.
- Bruce L. Gardener and Gordon C. Rausser (Eds): Handbook of Agricultural Economics Vol.2-B: Agricultural and Policy, Amersterdam , Elsevier Science B.V., 2002.
- Ghatak Subrata and Ken Ingersent: Agriculture and Economic Development, Harvester Press Ltd., London, 1984.
- Government of India: Five Year Plant (Latest), Planning Commission, Government of India, New Delhi.
- Government of India: National Agricultural Policy, Ministry of Agriculture, Government of India, New Delhi (Latest).
- Hoff Karla and Joseph E. Stiglitz: “Introduction : Imperfect Information and Rural Credit Markets – Puzzles and Policy Perspective” The World Bank Economic Review, Vol. 4, No.3 (1990).
- World Bank : Rejuvenating Indian Agriculture, Washington, World Bank.

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**Paper- 2.5: ECO-525 (B-04): Industrial Economics - II**

Contact Hours/Week	: 04 Hours	Maximum Marks	: 100 Marks
Duration of Examination	: 03 Hours	Continuous Assessment	: 30 Marks
		Semester Assessment	: 70 Marks

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

- **Section-A** will carry 10 marks with 01 compulsory question comprising 10 short answer type questions (maximum 20 words answer) taking two questions from each unit. Each question shall be of one mark.
- **Section-B** will carry 25 marks with equally divided into five long answer type questions (answer about in 250 words). 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-C** will carry 35 marks with five long answer type questions comprising one compulsory question of 15 marks and four questions of 10 marks each. Students are instructed to attempt total three questions with one compulsory question (answer about in 500 words) and any two more questions (answer about in 400 words) out of remaining four questions. Paper setter shall be advised to design question paper covering from all five units.

*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: Industrialization in India:**

**15-18 L**

Policy goal of Industrialization in India . Nature of Industrial data for Organized Industry. Major Classification of the organized Industry : Employment Size and Ownership Structure.

**Unit- II: Industrial Growth and Development in India:**

**15-18 L**

Pattern of Industrial Growth and Changes in Industrial Structure in India Since 1951. Factors affecting Industrial Location. Regional Imbalances in Industrial Development in India and Government Policy for Balanced Regional Development of Industry.

**Unit- III: Market Structure:**

**15-18 L**

Market Structure and R & D. Allocative Efficiency and Capacity Utilization Indian Industry; Productivity Growth, FDI and Acquisition of Technology in India.

**Unit- IV: Industrial Reforms:**

**15-18 L**

MRTP and Nature of Concentration of Indian Industry. Liberalization and Privatization in Indian Industry.

**Unit- V: Merger, Takeovers and Industrial Development in Rajasthan :**

**15-18 L**

Mergers and Takeovers. Competition Policy and Consumer Protection in India. Industrial Development in Rajasthan.

**Books Recommended :**

- Barthwal R. R.: Industrial Economics An Introductory Textbook, Wiley Easton Limited, New Delhi.
- Cohen K.L. & Cyert R. M: Theory of the Firm. Prentice Hall.
- Scherer, F. M. & Ross David: Industrial Market Structure and Economic Performance, Boston Houghton, Mifflin, Company.
- Hay.. D. A. and Morris D. J.: Industrial Economics: Theory and Evidence , Oxford University Press.
- Shepherd W. J.: The Economics of Industrial Organization (3<sup>rd</sup> Ed.), Princeton Hall, Englewood Cliffs, New Jersey.
- Martin Stephen: Advanced Industrial Economics, Blackwell Publishers Limited, UK.

- Bain J. S.: Industrial Organization (2<sup>nd</sup> ed.), University of California.
- Caves, R. : American Industry: Structure, Conduct Performance, Princeton Hall.
- Wildsmith, S.: Managerial Theories of The firm.
- Devine P. J. & Others: Introduction to Industrial Economics, George Allen and Unwin.
- Nayyar, Deepak (ed.): Industrial Growth and Stagnation, Oxford University Press.

### **Paper- 2.5: ECO-525 (B-05): Indian Financial System**

Contact Hours/Week	:	04 Hours	Maximum Marks	:	100 Marks
Duration of Examination	:	03 Hours	Continuous Assessment	:	30 Marks
			Semester Assessment	:	70 Marks

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

- **Section-A** will carry 10 marks with 01 compulsory question comprising 10 short answer type questions (maximum 20 words answer) taking two questions from each unit. Each question shall be of one mark.
- **Section-B** will carry 25 marks with equally divided into five long answer type questions (answer about in 250 words). 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-C** will carry 35 marks with five long answer type questions comprising one compulsory question of 15 marks and four questions of 10 marks each. Students are instructed to attempt total three questions with one compulsory question (answer about in 500 words) and any two more questions (answer about in 400 words) out of remaining four questions. Paper setter shall be advised to design question paper covering from all five units.

*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 Indian Financial System:**

**15-18 L**

Financial System –Meaning, Structure and Functions of Financial System. Financial System and Economic Development. Financial Intermediaries and Financial Markets.

#### **Unit-II: Money Markets:**

**15-18 L**

Money Market – Designation, Nature and Role of Money Market in the Economy. Indian Money Market – Call Money Market, Treasury Bills Market, Commercial Bill Market , Markets for Commercial Paper and Certificate of Deposits.

#### **Unit-III: Government Security Markets:**

**15-18 L**

Government Security Market – Nature and Organization of Government Security Market, Volume and Composition of Issues. Secondary Market Transactions, Prices and Yield. Implications of Monetary Policy, Recent Development in Government Security Market.

#### **Unit-IV: Industrial Security Market:**

**15-18 L**

Industrial Security Market- Organization and Structure. Listing, Trading and Settlement. Primary and Secondary Market. Drawbacks of Indian Stock Market . Recent Development in Industrial Security Market.



**Unit-V: Market for Future , Option and Discount :**

**15-18 L**

The Discount Market. Discount and Finance House of India and Securities Trading Corporation of India. Market for Futures, Options and Other Financial Derivatives.

**Books Recommended:**

- S.B. Gupta : Monetary Planning for India (latest Ed.)
- K. Rao: Management of Commercial Banks.
- L.M. Bhole : Impacts of Monetary Policy.
- Harendra Badhav (ed.): Challenges to Indian Banking Competition. Globalization and Financial Markets Macmillan.
- N.S. Yher: Non-Performing Advances in Banks, Skylark, New Delhi.
- Report of the Committee (Narsimhan) on the Financial System, Nov., 1991.
- Raghuram Rajan Committee Report on Financial Sector Reforms, Planning Commission, New Delhi.
- R.B.I. Report on trend and Progress of Banking in India (Latest Edition).
- Hanson and Kathuria (ed.): A financial Sector for the 21<sup>st</sup> Century, Oxford. University Press.
- Y.V. Reddy, Monetary and Financial Sector Reforms in India, UBSPD. New Delhi.