

Department of Economics Don Bosco College, Maram

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Don Bosco College, (Autonomous) Maram P.O. Maram Bazar, Senapati District, Manipur – 795015

Syllabus for B.A. Economics (Honours) Under Choice Based Credit System (CBCS)

Prepared by

Board of Studies Department of Economics

Don Bosco College, (Autonomous) Maram April (2021 onwards)

DON BOSCO COLLEGE (AUTONOMOUS), MARAM

SYLLABUS FRAMEWORK

OUR MISSION

To achieve this, Don Bosco College will make every effort to help the students:

- a. To live and make a harmonious blend of faith and culture.
- b. To become men and women of right principles and values.
- c. To strive continually after excellence in every field.

d. To be selfless in the service of their fellowmen in order to bring about social justice, and to make education more relevant, practical and useful for life.

OUR VISION

Integral and personalized education of the youth through a blend of faith and culture to become persons of right principles who will strive after excellence in every field and through selfless service bring about social justice.

OUR OBJECTIVES

We follow the distinctive educational philosophy and method of Don Bosco to equip the young people with all skills needed for their insertion into the world of work.

- A preferential option for young people who are less privileged.
- A balanced blending of culture, religion, science, education, technology, professional ethics and integrity of life.
- A family atmosphere in the campus characterized by the accompanying presence of educators among and with the students.
- An educative style based on Reason, Religion and Loving Kindness.
- Special attention to the formation of educators.
- Focus on quality education through promotion of research mentality and use of technology.
- Empowerment of Tribal Women.

Preface

Economics is a study of economic problems of a people living in a community or region. An individual faces a number of problems in his daily life. But all of them cannot be said to be economic in nature. Some are economic in nature while others may be political, social, religious, moral etc. the economic problem relates to the resources in men, material and time which satisfy our wants are unfortunately limited in supply in relation to demand.

The department of Economics was established in 2006 with dedicated and dynamic faculty members in Don bosco College Maram, Manipur. *The first Semester hons (V sem)* exam was appeared in 2013-14 and got 6 ranks in the university examination. *Seventy-four* (74) students were admitted as Economics Hons in the academic session 2018-19 in the Department of Economics. It is with Accordance to the first option given by students and their Marks in the Semester I to III Semester University Exam. This batch had the maximum ranks of the University Exam getting all the 13 ranks in 2019-20. The department has dedicated four Faculty members with specialization in various fields in the study of economics. The following are the Vision and Mission of the Department.

Vision:

- 1. To increase the employability and competitiveness of learners
- 2. To promotes the research activities, innovation and knowledge sharing

Mission:

• Educate under graduate & Post Graduation students with the knowledge of current challenging economy, providing job awareness through surveys and proper training for various Competitive exams (Economic Investigators, Compilers, Indian Economic Services and others banking and finance)

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SI. No	Name of the Member	Official Address	Designation
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Board of Studies in Economics Don Bosco College, (Autonomous), Maram

<u>ACKNOWLEDGMENT</u>

At the very outset, I glorify to the God of knowledge for giving the gracious inspiration and wisdom to all the family members, Faculty, Staff and Management of Don Bosco College, Maram in achieving the status of 'Autonomy' granted by the University Grants Commission (UGC). It is an incredible milestone in the field of higher education for the college, community, the general public, government and the State as a whole.

The faculty members of the department also would like to place sincere gratitude and acknowledgment to all the esteemed members of the Board of Studies especially Prof. Ksh. Jhaljit Singh, Head of the Department of Economics, Manipur University, Dr Lucy Jajo Shimray., Department of Economics, DM University, and Dr. Th. Ibotombi, Department of Economics, DM University for their valuable guidance and support.

I also thank the faculty members of the department Sh. Ronikumar, Ramthar thanglen, KJ Kala and Dr. Ashokumar for their valuable contribution and the time sacrifice for the completion of the syllabi.

Date: Place:

> Dr. H. Imobi Singh Chairman, BOS Department of Economics, Don Bosco College (Autonomous) Maram

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Graduate Attributes

On completion of the course students are expected to have acquired the skills of aptitude ability, critical thinking, rational enquiry, effective communication, and exploring the relationship between past, present and Future Economic trend.

The attributes expected from the graduates of B.A. Economics (Honours) are:

- **1.** Conceptual Knowledge of economics which is suitable for various public services in India and outside the country
- 2. Familiarity with the significant patterns of development and knowledge of development
- 3. Student can share the Idea of Indian economic development
- **4.** Ability to carefully read a complex economic ideas and thoughts, understands its argument as well as critically analyses the same.
- 5. Identification of pattern of changes and continuity vis-à-vis issues of current economic variables.
- **6.** Respect for basic human values and ideals of equality, freedom, respect for diversity, and other constitutional values.
- 7. Skill of picking up disparate sets of information from varied sources and weaving them into coherent prose with a view to reveal identifiable patterns of development.
- **8.** Capability to assume leadership roles and apply the above-mentioned attributes in various fields.

PROGRAMME OUTCOMES: POs

- 1. Ability to carefully read a complex economic ideas and thoughts understands its argument as well as critically analyses the same.
- 2. Graduates will exhibit professional ethics and capability of working in modern complex economy.
- 3. Graduates with acquired skills and enhanced knowledge will be employable/ become entrepreneurs or will pursue higher Education.
- 4. Graduates with acquired knowledge of modern tools and communicative skills and will be able to contribute effectively as team members.
- 5. Conceptual Knowledge of economics which is suitable for various public services in India and outside the country

PROGRAMME SPECIFIC OUTCOMES (PSOs) In BA ECONOMICS

On completion of the Programme, Graduates in economics will be able to; 1. Define and explain the concepts, laws, principles and theories in Economics.

2. Demonstrate and interpret the applications of programmes and policies in Economics and the Economy.

3. Apply basic quantitative techniques and modern tools in research for economic and social development.

4. Experiment and analyse the knowledge of the subject in financial skills, managerial skills, and innovative ideas with ethical values.

5. Compare and contrast the domestic and international finance and economic relations on par with global competitiveness.

I. Courses under CBCS

A. Core Course

To acquire a degree in BA Economics (Honors) a student of the department must study fourteen (14) Core Courses (CC) – two each in semester (1) and (2), three each in semesters (3) and (4), and two each in semesters (5) and (6). All these courses are compulsory papers with 6 credit each – theory exam will be five (5) credits each and one (1) credit each for tutorial/internal assessment.

B. Discipline Specific Elective

The student also needs to take four **Discipline Specific Elective Courses (DSE)**. DSE papers are elective and out of the fourteen offered; students have to take any four – two each in 5 and 6 semesters. These are all of six credits each.

C. Generic Elective Courses

Students are also required to take four interdisciplinary General Elective Courses (GE). GE papers are elective, and students can take four courses offered in cognate disciplines by the different departments in the college. They have to opt for one course in each of the semesters 1, 2, 3 and 4. The Department of Economics lists four (4) GE papers in its Honours curriculum. These are of six credits each and open to enrolment for honors students from other disciplines.

D. Skill Enhancement Courses (SEC)

Students are expected to take two discipline centered Skill Enhancement Courses (SEC). There are two SEC courses offered by the Department of Economics in semesters 3 and 4. Students are required to opt for one SEC paper in each of these semesters. These are of four credits each.

E. Ability Enhancement Compulsory Courses (AECC):

Additionally they must also take two Ability Enhancement Compulsory Courses (AECC), one each in semesters 1 and 2. The AECC courses, are of four credit each. This courses are related to personality and general understanding. The two courses are: AECC 1, English/ Communication, and AECC 2, Environmental Science (EVS).

		A. Core Courses (14)		
Semester	Course Code	Name of the Course	Credit	Hours
			(6 Each)	Per
			````	week
First Semester	ECC 101	Indian economic Development		5
	ECC 102	Microeconomics -1		5
			5+1	5
Second Semester	ECC 201	Micro economics –II	5+1	5
	ECC 202	Macro economics- I		5
Third Semester	ECC 301	Statistics for Economics	5 +1	5
Third Demoster	ECC 202	A grigultural Economica	5 1 1	5
	ECC 502	Agricultural Economics		5
	ECC 303	Macro economics II		5
Fourth Semester	FCC 401	Mathematical Economics	5+1	5
I ourtil Semester	ECC 402		5+1	5
	ECC 402	Political Economy		5
	ECC 403	Money and Financial Markets		5
Fifth Semester	ECC 501	Public Finance	5+1	5
	ECC 502	Environmental Economics		5
Sixth Semester	ECC 601	Econometrics	5+1	6
	ECC 602	<b>Development Economics</b>		6
				0

# **Programme Structure**

# A. Ability Enhancement Course (AEC) Compulsory – 2 Papers, Credit – 2 each: English/Environmental Science

Semester	Course Code	Name of the Course	Credit
First	ECA 101	English	2
Second	ECA 201	Environmental Science	2

# B. Discipline Specific Elective Course – DSE, Course – 2 each (5th& 6th Semester), Credit – 6 each.

Semester	Course Code	Name of the Paper	Credit	Hours
				Per Week
Fifth	ECD 501	International Economics	6	5
	ECD 502	Population Studies	6	5
Sixth	ECD 601	Economics of Health and	6	5
	ECD 602	Infrastructure Project Work	6	5

C. Generic Elective Course (GEC), Course – 4, 1 each (1st, 2nd, 3rd, 4th Semester), Credit – 6 each

Semester	Course Code	Name of the Course	Credit	Hours
				per
				Week
First	ECG 101	Principle of Economics	6	4
Second	ECG 201	Indian Economy	6	4
Third	ECG 301	Money, Banking and Public Finance	6	4
Fourth	ECG 401	Quantitative Methods for Economic Analysis	6	4

# **D.** Skill Enhancement Courses (SEC) Any Two Papers, Credits,-2 each, 2 Classes

Semester	Course Code	Name of the Course	Credit	Hours per
				Week
Third	ECS 301	Survey and Data analysis	2	4
Fourth	ECS 401	ResearchMethodologyandComputerapplication	2	4

#### **Question paper outline:**

#### DON BOSCO COLLEGE (AUTONOMOUS), MARAM GUIDELINES FOR QUESTION PAPER SETTING (2021 onwards)

Bloom's taxonomy is a set of three hierarchical models (cognitive, affective, psychomotor or sensory domain). The first model Cognitive domain is used to classify ones educational learning into different levels of complexity as represented below.

- **1. Remember Recognizing and recalling facts**
- 2. Understand Understanding what the facts mean
- 3. Apply Applying the facts, rules, concepts and ideas
- 4. Analyze Breaking down information into component parts
- 5. Evaluate Judging the value of information or idea
- 6. Create Combining parts to make a new whole

LEVELS	DEFINITION	KEY WORDS	SAMPLE
			QUESTIONS
Remembering Level (Lower Order Thinking SKills) LOTS	Recognition or Recalling relevant knowledge from long time learning	Define, Name, Identify, List, state, quote, locate, show	What happen after? How many? What is this? Can you name the plant? who are you? Which is true or false?
<b>Understanding Level</b> (Lower Order Thinking SKills) LOTS	Explaining ideas or concept - (Making sense of what you learnt)	Interpret, Cla ssify, Summaries, explain, Distinct, Describe, Paraphrase, restate, Associate, Report, Discuss,	Can you write in your own words? What was the main idea? How would you explain this? What you think it is right? What would happen if see has not been here? Who was the key? Can you write the outline of this?
Applying Level (Higher order of thinking skill) HOTS	Using information in another familiar situation - (Use the knowledge gained in new ways)	Implement, Calculate, Use, Apply, Carry out, Demonstrate, Determine, Compute, Experiment, Examine Change, Discover, Modify, Predict, Solve	Do you know another incident/ place where it happened? Can you group it? Which factor you will change if you were there? From the information given: can you develop a set information? Which milk is said to be a balance diet?

#### A. BASIC INFORMATION NEEDED TO SET A QUESTION PAPER ACCORDING TO THIS COGNITIVE LEVEL

	1		
Analysing Level	Breaking information	Outline, Classify,	Categorize the given
(Higher order of	into parts and	Breakdown, Analyse,	question? Examine the
thinking skill)	understand how part is	Illustrate, Infer, Select,	fundamental
HOTS	related to one another	Group, Organize,	difference? Which
		Arrange, Inspect,	event would have not
		Reconstruct, Compare,	happened? Why did
		Contrast, Criticize,	this occur? What was
		Examine, Corelate,	this problem? Which
		Diagram Based	event would have not
			occurred? What object
			float on objects of
			water? How does rust
			form?

#### **B. GENERAL NORMS TO BE FOLLOWED IN FRAMING QUESTIONS**

- 1. Include questions from all the levels.
- 2. Question from first levels are considered as low order questions (LOTS)
- 3. Major issue that is pointed out in traditional question setting is quality of the question is clustered around LOTS that is first two levels.
- 4. The latest examination reforms suggests that it is good practice to restrict questions from LOTs less than 40% and include more from HOTS.
- 5. This bloom taxonomy provides filter evaluator in framing quality questions from LOTS and HOTS.

SLNO	Details		Marks
I.	One Marks Oues	stion	$01 \ge 5 = 05$
II.	Answer briefly a	ny five of	02 x 5 = 10
	the following qu	estions	
	(Total 7 Question	ns) – 2	
	Marks		
III.	Answer any five	of the	05 x 5 = 25
	following question	ons	
	(Total 7 Questions) – 5		
	Marks		
IV.	Answer any three	e of the	$10 \ge 3 = 30$
	following question	ons	
	(Total 5 Questions) – 10		
	Marks		
	<b>Fotal</b>		70 Marks

#### C. Question Pattern

5x5=25m

- D. Guidelines for answering the questions for various test/exam:
  - a. For very short answer of 1marks (10-20 words) concepts/definition/meaning and clarity
  - b. For short answer of 2 marks (20-30 words) concept/understanding/application
  - c. For short answer of 5 marks (100-120 words) explain/discuss
  - d. For essay type answer of **10 marks (200-250 words**) including introduction, contents and explanation, illustration, diagram, comments and conclusion

#### **E.** Sample question:

#### **DBC** Autonomous, Maram

<b>BA Sem I Economics</b>	F M-70
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#### **Introductory Microeconomics (ECC 102)**

#### Give very short answer to the following question: 1x5=5m

1.	Define scarcity in economics.	1m
2.	Give the statement of law of supply	1m
3.	What do you meant by $e_p < 1$ ?	1m
4.	Make a point of difference between fixed and variable cost.	1m
5.	What is anti-thrust policy?	1m

Answer in Short: answer any five (100-120 words)

#### Answer any five questions from the following (20-30) 2x5=10

6.	What are the areas of the study of Microeconomics?	2m
7.	Differentiate between inductive method and deductive method in economics.	2m
8.	What is price control?	2m
9.	Explain any two properties of indifference curve.	2m
10.	Drive the backward bending labour supply curve from the indifference curve.	2m
11.	Write the relationship between AC and MC.	2m

12. List out the different forms of market. Which one is more applicable in present economy?

13. Explain the salient features of basic competitive model.	5m
14. Draw and explain the demand curve.	5m
15. Distinguish clearly homogeneous and differentiated goods	5m
16. Clearly explain with diagram the consumer's and producer's surplus.	5m
17. What is income effect? How is it different from substitution effects?	5m
18. Make a hypothetical cost schedule. (The total cost combinations of TFC,	TVC and also
find out MC and ATC)	5m
19. What is revenue? Clearly differentiate the nature of AR and MR curve und	ler perfect
competition and monopoly.	5m

20.	Long answer: answer any three (250-300 words)10x3. What is economic system? Explain the various economic system	= <b>30</b> s prevailing in the
	present competitive world.	3+7=10m
21.	. Make a difference between Demand and supply. Explain the fact	ors determinants of
	demand.	2+8=10m
22.	. What is budget line? Discuss the consumer's equilibrium with th	e help of indifference
	curve technique.	2+8=10m
23.	. Draw the U-shaped LAC curve. Explain the reason for falling co	st in the first portion of
	the U-shaped.	2+8=10m
24.	Analyze the price and output determination under monopoly in	n the short run.
		10

10m

#### BA 1stSemester Paper: ECC 101 Title of the paper: Indian Economy

#### **Objectivity of the Course (CO):**

- 1. It aims to provide a basic understanding of the Indian economy.
- 2. To know the challenges in the path of economic development and provide a solution.
- 3. It can provide the material relationship with the outside world.
- Unit1: National income concepts, composition and trends, characteristic of Indian economy, India as a mixed Economy, changing nature of Indian economy from controlled to liberalized economy 20m
- Unit II: Natural resources, Population and economic growth, theory of demography transition, features of Indian population, environment and development: Issues and interrelationship 20m
- Unit III: State of Agriculture and its allied activities, land reforms, objectives and significance. Green revolution 20m
- Unit IV: Industrialization and industrial development in India, MSMEs, problems of large scale industries, new industrial policy 20m
- Unit V:Indian foreign trade: Composition and direction, planning in India, objectives,<br/>Poverty and unemployment, structural adjustment programme20m

#### Reading:

- 1.Ramesh singh Indian Economy-2018-MC Grawhill education publisher.
- 2.S.K.Misra Indian Economy-2015-Himalaya publishers.
- 3. Uma Kapila Indian Economy-2019-Academic Foundation.
- 4. Economic Survey, Government of India, various issues

#### Relationship matrix for Course outcomes, Programme outcomes /Programme Specific Outcomes BA Sem I: Indian Economy :ECC 101

Course outcome CO	Progra	amme O	utcome	s (POs)		Program	nme Spec	cific Outc	omes (PS	Os)	Mean Score of Cos
	<b>PO1</b>	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	3	3	3	3	3	3	2	2	3	3	2.8
CO2	2	3	3	3	3	2	3	2	3	2	2.7
CO3	2	3	3	3	3	2	3	2	3	3	2.7
				Mean o	overall s	score: H		2.7			

## BA SEM I : Paper: ECC 102

#### **Title of the paper: Microeconomics-1**

## **Objectivity of the Course (CO):**

- 1. It aims to provide a basic understanding concept, the behavior of an economic agent, namely, a consumer, a producer, a factor owner, firm etc.
- 2. The price fluctuation in a market and partial equilibrium framework along with micro economic theories.
- 3. It can give the micro foundation of the studies in economics

**Unit-I:** What is microeconomics? Importance, Scope and method of economics; the economic problem: scarcity and choice; the concept of opportunity cost; the question of what to produce, how to produce and how to distribute output; science of economics; institutions for allocating resources; the basic competitive model; prices, positive versus normative analysis, economic theory and models, nature of economic reasoning; deductive and inductive method; Demand and Supply curve. 20 marks (15 periods)

**Unit -II:** Demand function-Cardinal utility approach-laws of cardinal utility analysis- law of diminishing marginal utility- law of equi-marginal utility; equilibrium of the consumer through cardinal utility analysis. Ordinal utility analysis of demand; Properties of indifference curves; consumer's equilibrium; income effect- substitution effect; Revealed preference theory-Hick's logical ordering theory of demand;

20marks (15 periods)

Unit -III: The theory of production: Production Function- production with one variable factor- Law of variable proportions- three stages of production, Production function with two variable factor. Cobb-Douglas production function, Laws of production - Laws of returns to scale. Optimum Factor Combination-Iso-cost line- Least-cost combination of factors, Cost Analysis- Technological Efficiency versus economic efficiency- the concepts of costs: AC and MC. 20marks (15 periods)

Unit-IV: Introduction to market structure- Perfect competition: assumption, short and longrun equilibrium of the firm and industry; Monopoly, assumption short and long-run equilibrium of the monopolist. 20marks (15 periods)

**Unit -V:** Price discrimination: meaning, assumption, and effects of price discrimination, price discrimination and elasticity of demand; Equilibrium of the firm under monopolistic competition, product differentiation and demand curve: Chamberlin's theory of monopolistic competition; Oligopoly; Non-collusive models; Oligopoly: Cournot's duopoly model; Kinked demand Curve model.

20marks (15 periods)

References

- 1. Ahuja, H. L. (2010): Advanced Economic Theory, S. Chand & Co., New Delhi .
- 2. Dwivedi (2008), Microeconomics: Theory and Applications (Second Edition), Dorling Kindersley (India) Pvt. Ltd.
- 3. Koutsoyiannis A (1982): Modern Micro Economics, McMillan.
- 4. Sen, Anindya (1999): Microeconomic Theory and Applications, Oxford University, Press, New Delhi.
- 5. Varian. H. (2000), Micro Economic Analysis, W.W. Norton, New York.

#### Relationship matrix for Course outcomes, Programme outcomes / Programme Specific Outcomes

Course outcome CO	Program	mme O	utcom	nes (PO	s)	Prograr	Programme Specific Outcomes (PSOs)					
	PO1	PO2	Po3	<b>PO4</b>	Po5	PSO1	PSO2	PSO3	PSO4	PSO5		
CO1	3	3	3	3	3	3	3	2	3	2	2.8	
CO2	3	2	3	2	3	3	3	2	2	2	2.5	
CO3	3 3 3 3 3						3 3 2 3 2					
				Mean	overa	ll score					2.7	

#### BA sem I : Micro economics I: ECC 102

#### Generic Paper ECG 101 Principles of Economics

# **Objective of the Course(CO):**

- 1. This course aims to introduce the students the basic concepts and Principles of Economics.
- 2. The course will give the student the ideas and the laws of microeconomics and macroeconomics.
- 3. They can learn the consumption psychology and saving function.
- Unit I: Micro and Macro economics, demand curve and supply curve Theory of demand, Marginal utility analysis, indifference curve 20marks (10 periods)
- Unit II: Concepts of cost and Revenue, Isocost and Isorevenue, Isoquants and Equilibrium of a firm, 20marks (10 periods)
- Unit III: Forms of markets and its characteristics, price and output determination under monopoly, perfect competition, Monopolistic completion, duopoly and oligopoly, kinked demand model 20marks (10 periods)
- Unit IV: classical economic foundation, Say's law of markets, its implication, IS-LM curve Neo-classical synthesis of money market and product markets.

20marks (10 periods)

Unit V: National income, circular flow of national income, equilibrium determination of national income and employment, consumption function, saving function, MPC, APC, APS and MPS

20marks (10 periods)

# References

- 1. Ahuja, H. L. (2010): Advanced Economic Theory, S. Chand & Co., New Delhi .
- 2. Dwivedi (2008), Microeconomics: Theory and Applications (Second Edition), Dorling Kindersley (India) Pvt. Ltd.
- 3. Koutsoyiannis A (1982): Modern Micro Economics, McMillan.
- 4. Rana and Verma (1981), Macroeconomic Analysis, Vishal Publishing House, New Delhi 7th edition, 2011.

5. Dwivedi, D.N. (2001), Macroeconomics: Theory and Policy, Tata McGraw Hill Publishing Company Limited, New Delhi.

Relationship matrix for Course outcomes, Programme outcomes /Programme Specific Outcomes

Course outcome CO	Progra	ogramme Outcomes (POs)					Programme Specific Outcomes (PSOs)					
	PO1	PO2	Po3	PO4	Po5	PSO1	PSO2	PSO3	PSO4	PSO5		
CO1	3	2	3	3	3	3	2	2	3	3	2.7	
CO2	3	2	3	3	3	3	2	2	3	2	2.6	
CO3     3     2     3     3     3						3	3	2	3	3	2.7	
				Mean	overa	all score		2.6				

# BA sem I: Principles of Economics: ECG 101

# BA. II Sem

# Title of the paper: Microeconomics-II

# Paper: ECC 201

# **Objective of the Course (CO):**

- 1. It aims to provide an overview of basic concepts of different productivity
- 2. To understand the theories of distribution and there by understanding the fundamentals of welfare economics.
- 3. To analyze the working of general and partial equilibrium.

**Unit-I:** The marginal productivity theory of distribution, price and employment of factor Inputs; competitive factor market – demand for a factor input when one variable/several variables are available. Equilibrium in competitive factor market; factor Markets with monopsony power, market with monopoly power. 20marks (15periods)

**Unit-II:** General equilibrium analysis—The Walrasian the two factor two commodity, two Consumer general equilibrium system (2x2x2) model. Static properties of a general Equilibrium State, general equilibrium and allocation of resources, prices of Commodities and factors, factor ownership and income distribution. 20 marks (15 periods)

**Unit-III:** Measuring social welfare— Pareto criterion, value-judgment, concept of social welfare function, the Bergson social welfare function, Kaldor-Hicks compensation principle, welfare maximization and perfect competition. 20 marks (15 periods)

**Unit-IV:** Externalities and public goods; negative and positive externalities; market failure and ways of correcting market failure, externalities and common property resources, tragedy of commons, public goods and efficiency. 20 marks (15 periods)

**Unit-V:** Market with asymmetric information, quality uncertainty, market for lemons; marketsignalling, problems of adverse selection, guarantees and warrantees; moral hazard, the principal agent problem in private and public enterprises. 20 marks (15 periods)

# **Reading list:**

- AKoutsoyannis : Modern Microeconomics(Macmillan). 1.
- 2. A.L.Ahuja : Advanced EconomicTheory. 3.
  - H.RVarian : IntermediateMicroeconomics.
- Robert S. Pindyck, D.L. Rubifield& P.L. Mehta, Microeconomics pearson latest 4. edition.

#### Relationship matrix for Course outcomes, Programme outcomes / Programme Specific Outcomes

Course outcome CO	Progra	mme O	utcom	nes (PO	s)	Program	nme Speci	ific Outco	omes (PSC	Ds)	Mean Score of Cos
	PO1	PO2	Po3	PO4	Po5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	3	2	3	3	2	3	2	3	3	3	2.7
CO2	3	2	3	3	2	3	2	2	3	2	2.6
CO3	03 3 2 3 3 2						2	2	3	3	2.6
				Mean	overa	all score					2.6

#### BA sem II: Microeconomics II :ECC 201

Title of the paper: Macroeconomics -1

ECC 202

# **Objective of the Course (CO):**

- 1. This course aims to introduce the students to the basic concepts of Macroeconomics.
- 2. Macroeconomics deals with the aggregate economy. This course discusses the preliminary concepts associated with the determination and measurement of aggregate macroeconomic variable like savings, investment, GDP
- 3. Money, theories of inflation, and the balance of payments.

**Unit I:** Origin, Concepts of Macro Economics, Scope and Subject Matter of Macroeconomics; Circular Flow of Income in two, three and four sector economy; Measurement of National Income; National income and economic welfare.

20marks (15 periods)

**Unit II:** Understanding Say's law of market, classical theory of employment and Keynes objection to the classical theory; demonstrate the principle of effective demand and income determination. Consumption function, relationship between APC and MPC, consumption and income, concept of multiplier 20marks (15 periods)

**Unit III:** Studies IS-LM Neo-classical synthesis of money market and product markets, the relationship between investment andsavings, investment multiplier, meaning of MEC and MEI. Aggregate demand and Aggregate supply, determination of national income, theories of interest rate. 20marks (15 periods)

**Unit-IV:** Illustrate the meaning of inflation, deflation, stagflation and reflation; identify different kindsof inflation, causes and effects of inflation on different sectors of the economy and different measurestocontrolinflation. Function of money, high poweredmoney, monetary and paper system; illustrate various version of quantity theory of money. 20 marks (15 periods)

**Unit V:** Concepts of economic growth; distinguish between economic growth and technical progress. One sector growth model; Growth theories; Harrod- Domar and Solow's growth model;Kaldor growth model; 20marks (15 periods)

## **READING LIST:**

- 1. Dornbusch, Fischer and Startz, Macroeconomics, McGraw Hill, 11th edition, 2010.
- 2. N. Gregory Mankiw. Macroeconomics, Worth Publishers, 7th edition, 2010.
- 3. Andrew B. Abel and Ben S. Bernanke, Macroeconomics, Pearson Education, Inc.
- 4. Rana and Verma (1981), Macroeconomic Analysis, Vishal Publishing House, New Delhi 7th edition, 2011.
- 5. Dwivedi, D.N. (2001), Macroeconomics: Theory and Policy, Tata McGraw Hill Publishing Company Limited, New Delhi.
- 6. Ackley, G., (1978), Macroeconomic: Theory and Policy, Macmillan, New York.
- 7. Romer, D.L., (1996), Advanced Macroeconomics, McGraw Hill Publishing Company Ltd. New Delhi.
- 8. M.LJhinghan, Macroeconomics theory, Vrinda Publication P LT-Delhi.

#### Relationship matrix for Course outcomes, Programme outcomes /Programme Specific Outcomes

Course outcome CO	Progra	mme O	outcom	nes (PO	s)	Program	Ds)	Mean Score of Cos			
	PO1	PO2	Po3	PO4	Po5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	3	2	3	3	2	3	2	2	3	3	2.6
CO2	3	3	3	3	2	3	2	2	3	2	2.6
CO3     2     3     3     3     2						3	2	2	3	2	2.5
		•	•	Mean	overa	all score		2.5			

#### BA sem II: Macroeconomics I: ECC 202

Generic BA 2nd Sem

Paper ECG 201

# **Indian Economy**

# **Objectivity of the Course(CO):**

- 1. It aims to provide a basic understanding of the Indian economy.
- 2. India is a developing economy and there are so many challenges in the path of economic development.
- 3. To understand resources and material for development

Unit1: National income concepts, composition and trends, characteristic of Indian economy, India as a mixed Economy, changing nature of Indian economy from controlled to liberalized economy 20marks (10 periods)

Unit II: Natural resources, Population and economic growth, theory of demography transition, features of Indian population, environment and development: Issues and interrelationship 20marks (10 periods)

Unit III: State of Agriculture and its allied activities, land reforms, objectives and significance. Green revolution 20marks (10 periods)

Unit IV: Industrialization and industrial development in India, MSMEs, problems of large scale industries, new industrial policy 20marks (10 periods)

Unit: Indian foreign trade: Composition and direction, planning in India, objectives, Poverty and unemployment, structural adjustment programme 20marks (10 periods)

#### **Reading:**

1. Ramesh singh-Indian Economy-2018-MC Grawhill education publisher.

2. S.K.Misra-Indian Economy-2015-Himalaya publishers.

3.Uma Kapila-Indian Economy-2019-Academic Foundation.

4. Economic Survey, Government of India, various issues

Relationship matrix for Course outcomes, Programme outcomes / Programme Specific Outcomes

Course outcome CO	Progra	mme O	utcom	nes (PO	s)	Prograr	Programme Specific Outcomes (PSOs)					
	PO1	PO2	Po3	PO4	Po5	PSO1	PSO2	PSO3	PSO4	PSO5		
CO1	3	3	3	3	3	3	2	2	3	3	2.8	
CO2	2	3	3	3	3	2	3	2	3	2	2.7	
CO3 3 3 3 3 3						2	3	2	3	3	2.7	
				Mean	n overa	all score?	2				2.7	

# BA sem II: Indian Economy: ECG 201

#### **BA III rd SEM**

#### ECC 301

#### **Title of the paper: Statistics for Economics**

#### **Course Objective (CO):**

- 1. The aim of the course is to provide basic inputs of applied statistics and application of statistical tools in economics.
- 2. It sets a necessary foundation for the econometrics courses within the Honours programme.
- 3. The familiarity with probability theory will also be valuable for courses in advanced microeconomic theory.
- UnitI:Nature and scope of Statistics, why study statistics in economics, Relationship<br/>between statistics and economics20marks (15 periods)
- Unit II:Collection and Presentation of data, Measures of Central Tendency, Measures of<br/>Dispersion20marks (15 periods)
- Unit III: Probability: Concepts of Sample Space and Events, Probability of an Event; Addition and Multiplication Theorems; Conditional probability and Independence of Events – Bayes Rule; Concept of a random variable; Probability Distribution, Joint Marginal and Conditional Distribution, Binomial distribution and Normal distribution, Laws of large numbers and central limit theorem. 20marks (15 periods)
- Unit IV: Correlation and Regression analysis: Pearsonian Coefficient of Correlation, Rank Correlation, Correlation Vs Causality, Simple Linear Regression, Interpretation of regression parameters, Method of Least Square, Derivatives of Normal Equations, Time Series Analysis: Components of a time Series; 20marks (15 periods)
- Unit V:Index Numbers: Problems in the construction of Index Numbers, Uses of Index<br/>Numbers, Fixed base and Chain base indices, Base Shifting, Splicing, Consumer<br/>price Index, Wholesale Price Index, Agricultural production index; Index number<br/>for deflating other Series.20marks (15 periods

#### **Reading List:**

- 1. S. C. Gupta (1982): Fundamentals of Statistics, Himalaya Publishing House, Bombay.
- 2. S. P. Gupta (2000): Statistical Methods, S. Chand & Company, New Delhi.
- 3. B. N. Gupta (1992): Statistics Theory and Practice, SahityaBhavan, Agra.

- 4. Goon AM, M. K. Gupta and B. Dasgupta (1975): Fundamentals of Statistics, Vol.1, The World Press, Ltd, Calcutta.
- 5. Nagar, A.L. and R. K. Das (1996): Basic Statistics, Oxford University Press, New.
- 6. Devore, J. (2012). Probability and statistics for engineers, 8th ed. Cengage Learning.
- 7. Larsen, R., Marx, M. (2011). An introduction to mathematical statistics and its applications. Prentice Hall.
- 8. Miller, I., Miller, M. (2017). J. Freund's mathematical statistics withapplications, 8th ed. Pearson

#### Relationship matrix for Course outcomes, Programme outcomes / Programme Specific Outcomes

Course outcome CO	Progra	mme O	utcom	nes (PO	s)	Prograr	nme Spec	ific Outco	omes (PSC	Ds)	Mean Score of Cos
	PO1	PO2	Po3	PO4	Po5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	2	2	3	3	1	3	3	3	1	2	2.3
CO2	1	2	2	3	2	2	2	3	3	2	2.2
CO3	3 2 2 2 3 2						2	3	2	1	2.1
				Mean	overa	all score					2.2

#### BA sem III : Statistics for Economics: ECC 301

**BA III sem** 

AGRICULTURAL ECONOMICS

ECC 302

(CO)

- 1. To know the subject matter of agricultural economics
- 2. Agricultural development in India
- **3.** Agricultural finance and marketing

UNIT I: Nature and Scope of Agricultural Economics, Agricultural development - A prelude to industrialization - Role of agriculture in Indian Economy - Agricultural development under Five Year Plans – Productivity in agriculture - Causes for low productivity and suggestive measures. 20marks (15 periods

UnitII : Structural and Institutional changes in agriculture New agriculture strategy - New Economic policy and agriculture –Mechanisation Advantages and Limitations - Farm size and efficiency - Land Reforms -Measures - Progress - Suggestions for improvement. 20marks (15 periods

UnitIII : Agricultural Finance and Agencies-Capital formation in agriculture - Sources of Agricultural Finance – Rural indebtedness - causes of Debt relief activities - Role of Rural credit institutions. 20marks (15 periods

Unit IV: Agricultural Marketing-Present state of agricultural Marketing - Role and Functions of efficient marketing-system - Marketable surplus - Agricultural price policy - Regulated Markets - Cooperative marketing - Procurement and Public distribution. 20marks (15 periods

Unit V: Problem of Agricultural Labour - causes for poor conditions of agricultural labour-Problem of Unemployment and under employment - Government measures. 20marks (15 periods

References:

1. Bishop & Toussanit - Introduction to Agr. Eco. Analysis Toppan Com., Ltd.,

- 2. Dhingra I.C. Indian Economy S.Chand& Com.
- 3. Mellor J.W. The Eco Agricultural Eco Analysis Toppan Com.,L

#### Relationship matrix for Course outcomes, Programme outcomes /Programme Specific Outcomes

Course outcome CO	Progra	mme O	utcom	nes (PO	s)	Program	Programme Specific Outcomes (PSOs)					
	PO1	PO2	Po3	PO4	Po5	PSO1	PSO2	PSO3	PSO4	PSO5		
CO1	2	2	2	2	3	3	3	2	2	1	2.2	
CO2	2	2	3	3	1	2	3	2	2	2	2.2	
CO3     2     3     3     2     2						2 3 2 3 3					2.5	
				Mean	overa	all score					2.3	

BA sem III: Agricultural Economics: ECC 302

# Title of the paper: Macroeconomics – II

ECC 303

# **Objective of the Course(CO):**

- 1. The paper equips the students to understand macro trends in different variables and
- 2. Systemic facts and latest theoretical developments for empirical analysis.
- 3. Macroeconomics knowledge in policy measures and development

**Unit-I:** Equilibrium and Disequilibrium Analysis: The real balance effect and Patinkin's rehabilitation of classical theory. Effective demand, notional demand and involuntary unemployment – price and quantity flexibility – sources of non-instantaneous price adjustment. Re-interpretation of Keynes. 20Marks(15periods)

Unit-II: Keynes' psychological law of consumption — implications of the law; short-run and long-run Consumption function; Empirical evidence on consumption function; Incomeconsumption Relationship — absolute income, relative income, life cycle and permanent income hypotheses. 20 marks (15 periods)

**Unit-III:** Classical, Keynesian and Monetarist approaches to inflation; Structuralist theory of inflation; Philips curve analysis-short run and long run Philips curve -Tobin's modified Philips curve; Adaptive expectations and rational expectations; Policies to control inflation. 20 marks (15 periods)

**Unit-IV:** Monetarism- Rational expectations- views of Mutt, Wallace, R.E.T Sargent and Lucas. Supply side economics- supply shocks, stagflation-wedge model- Laffer curve.

Kaleckis pricing model- Small Menu Cost Model – Wage contract model. Marks (15 periods)

**Unit-V:** The theory of economic policy, - target and Instrumental variables, policy lags. Monetary policy – Rules Vs Discretion, Monetary targeting and inflation.Fiscal policy, Okun's Law – Growth Vs Stability and Macroeconomic policy during reform period.

20 marks (15 periods)

# **Reading List**

- 1. Abel, Andrew, Ben Bernanke and Dean Croushore (2011). Macroeconomics. 7th Edition. Prentice Hall, New Delhi.
- 2. Ackley, G. (1978). Macroeconomics Theory and Policy. London: Macmillan.
- 3. Bain, Keith and Peter Howells (2003). Monetary Economics: Policy and Its Theoretical Basis. New York: Palgrave.
- 4. Branson, W. H.(2007). Macroeconomics Theory and Policy. East West Press Private Ltd.
- 5. Dornbusch, Rudiger, Stanley Fischer, Richard Startz (2011). Macroeconomics 11th Edition New York: McGraw Hill .
- 6. Edgmand, M. R. (1985). Macroeconomics Theory and Policy. New Delhi: Prentice Hall.
- 7. Friedman, Milton & Walter W. Heller (1969). Monetary vs Fiscal Policy.New York: WW Norton and Company.
- 8. Froyen, Richard T. (2013)Macroeconomics Theory and Policies 10th Edition. New Delhi: Pearson.
- 9. Mankiw, N. Gregory. (2009) Macroeconomics. 7th Edition New York: Worth Publishers.
- 10. Patinkin, D. (1965). Money, Interest and Prices.2nd Edition. London: Harper and Row.
- 11. Snowdon, Brian and Howard R. Vane (2005). Modern macroeconomics: its origins, development and current state. Massachusetts:Edward Elgar Publishing.
- 12. Snowdon, Brian and Howard R. Vane (1997). A Macroeconomics Reader. Massachusetts: Edward Elgar Publishing

# Relationship matrix for Course outcomes, Programme outcomes /Programme Specific Outcomes

Course outcome CO	Progra	mme O	utcom	nes (PO	s)	Program	Programme Specific Outcomes (PSOs)					
	PO1	PO2	Po3	PO4	Po5	PSO1	PSO2	PSO3	PSO4	PSO5		
CO1	3	2	2	2	3	3	3	2	2	2	2.4	
CO2	3	3	3	3	2	3	3	3	2	1	2.6	
CO3	CO3     2     3     2     3     2						2 3 2 2 2					
				Mean	overa	all score		2.4				

#### BA sem III: Macroeconomics II :ECC 303

# BA 3rd SEM

#### Skill Enhancement Courses (SEC)

#### Survey and Data analysis: ECS 301

#### **Objectives:**

- 1. To train the students about the basic survey
- 2. Able to read, analyse and interpret data
- 3. To know the importance of data in Modern Economy

Unit 1:	Meaning of data, Sources of data, Data in Economics (importance and										
	contribution), Collection and presentation of data	25M									
Unit 2:	Analysis and interpretation of data, measures of	central tendency,									
	Dispersion, Correlation and regression, index numbers	25M									
Unit 3:	Survey: Pilot survey, Sample and census, types of S	ampling, tools and									
	instruments, uses of sampling	25M									
Unit 4 :	Meaning of project work, Issues/steps in writing a project, Field survey										
		25M									

#### Readings:

- 1. S. P. Gupta (2000): Statistical Methods, S. Chand & Company, New Delhi.
- 2. B. N. Gupta (1992): Statistics Theory and Practice, SahityaBhavan, Agra.
- 3. Goon AM, M. K. Gupta and B. Dasgupta (1975): Fundamentals of Statistics, Vol.1, The World Press, Ltd, Calcutta.
- 4. Nagar, A.L. and R. K. Das (1996): Basic Statistics, Oxford University Press, New.
- 5. Cocharn, W.G. : Sampling Techniques, Wiley Eastern, 3rd Edition.

#### Relationship matrix for Course outcomes, Programme outcomes / Programme Specific Outcomes

Course outcome CO	Progra	mme O	utcom	nes (PO	s)	Program	Ds)	Mean Score of Cos			
	PO1	PO2	Po3	PO4	Po5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	2	2	3	3	2	2	2	3	2	2	2.3
CO2	3	2	2	3	1	3	3	3	2	2	2.4
CO3	3	3	3	3	1	3 3 2 2					2.6
				Mean	overa	all score					2.4

#### BA sem III: Survey and data analysis :ECS 301

BA III sem Generic Money, Banking and Public Finance: ECG 301

Course objective (CO):

- 1. To understand money and financial markets
- 2. To give the basic knowledge of government finance operation
- 3. To gain the knowledge of the monetary policy

Unit-1 Money Concept, functions, measurement; theories of money supply determinations 20

Unit-II Financial Institutions, Markets, Central Banking and Monetary Policy: Functions; goals, targets 20m

Unit III Commercial Banks, Function, role of commercial banks in Economic development 20m

Unit IV Public Finance: Nature and Scope of Public Finance Fiscal Functions, Provision of social Goods, Principle of Taxation Equity: Horizontal and Vertical Equity, Incidence of Taxes Efficiency Criteria, Tax Evasion 20m

Unit VPublic Expenditure Factor Affecting Public Expenditure Wagner's Law and<br/>Peacock Wiseman Hypothesis Effects of Public Expenditure on Production, Distribution and<br/>Economic Stability, Public Borrowings : Internal and External Role of public borrowing in<br/>Mobilization of Resources Burden of External and Internal Public Debts20m

# **READINGS**:

- 1. F.J.Fabozzi,F.Modigliani,F.J.jJnes,M.G.Ferri, foundation of financial markets and institutions, pearson 3rd edition,2009
- 2. Musgrave R.A & Musgrave P.B- Public Finance in theory and practice, McGraw Hill Education, 5th edition
- 3. H.L Bhatia Public Finance
- 4. F.S.Mishkin and S.G.Eakins, financial markets and institutions, pearson education, 6th edition, 2009.

Relationship matrix for Course outcomes, Programme outcomes /Programme Specific Outcomes

Course outcome CO	Progra	mme C	)utcon	nes (PO	s)	Prograr	Ds)	Mean Score of Cos			
	PO1	PO2	Po3	PO4	Po5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	3	2	2	2	2	3	3	2	3	3	2.5
CO2	3	3	3	2	2	3	3	2	3	2	2.6
CO3	3	2	2	1	2	2 3 3 2					2.3
				Mear	n overa	all score					2.5

#### BA sem III: Money, Banking and Public Finance: ECG 301

#### **BA IV Sem Economics**

#### ECC 401

#### **Title of the paper: -Mathematical Economics**

#### **Course Objective (CO):**

- 1. This course objective is to transmit the body of basic mathematics that enables the study of economic theory at the undergraduate level, specifically the courses on microeconomic theory, macroeconomic theory, statistics and econometrics set out in this syllabus.
- 2. In this course, particular economic models are not the ends, but the means for illustrating the method of applying mathematical techniques to economic theory in general.
- 3. The level of sophistication at which the material is to be taught is indicated by the contents of the prescribed textbook.
- Unit-I: Importance of mathematics in economics, Mathematical Versus Nonmathematical Economics: Ingredients of a Mathematical Model, Variables, Constants and Parameters, Equations and Identities, Functions: Types of Functions- constant, Polynomial and Rational Functions; Matrix Algebra: Addition and Multiplication, Determinants, Inverse Matrix, Crammer's rule for Solution of Simultaneous equations
- **Unit-II:** Differentiation, The derivation of a function, Technique of differentiation; sums, products and quotients of functions; composite functions and the chain rule. Partial differentiation; Partial derivative in economics Homogeneous and homothetic functions,
- **Unit-III:** Elasticity of substitution, Maxima and Minima, saddle points, unconstrained optimization, necessary and sufficient conditions for local optima, Constrained optimization (equality constraints), The method of Lagrange multipliers, Interpretation of the Lagrange multiplier, Economic Examples
- **Unit-IV:** Integral calculus and Differential equations.
- **Unit-V:** Linear programming, the dual problem and feasible solution, simplex method.

#### **Reading List:**

1. Sydsaeter, K., Hammond, P. (2002). Mathematics for economic analysis, Pearson Educational.

- 2. Dixit (1976): Optimization in Economic Theory, OUP
- 3. Beavis & Dobbs (1990): Optimization and Stability Theory for Economic Analysis, CUP
- 4. Intrilligator (1971); Mathematical Optimization and Economic Theory, Prentice Hall.
- 5. Hadley (1960): Linear Algebra, Addision-Wesley, Massachusetts.
- 6. Chiang (2005): Fundamental methods of Mathematical Economics 4th edition, McGraw Hill Inc.
- 7. Kamien& Schwartz (1981): Dynamic Optimization, North Holland

#### Relationship matrix for Course outcomes, Programme outcomes / Programme Specific Outcomes

Course outcome CO	Progra	mme O	utcom	nes (PO	s)	Prograr	nme Speci	ific Outco	omes (PSC	Ds)	Mean Score of Cos
	PO1	PO2	Po3	PO4	Po5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	3	3	2	2	2	3	3	3	2	2	2.5
CO2	3	2	2	3	2	3	2	3	3	2	2.5
CO3	2	3	2	3	2	2	1	2.2			
				Mean	overa	all score					2.4

#### BA sem IV: Mathematical Economics:ECC 401

BA 4th Semester

Paper: ECC402

# Title of the paper: Political economy

# **Course Objective (CO)**

- 1. This course explores the systemic structures and institutions of capitalist economies and their evolution in a political economic framework.
- 2. Students will be exposed to alternative schools of thought and are expected to read some classic texts and commentaries as well as more contemporary essays on the subject.
- 3. To understand New political economy

Unit-I: Introduction: Meaning, scope and subject matter of political economy, the method Of political economy: the classical political economy, Marxian political economy: Marxian concept of mode of production; Correlation between production, Distribution, exchange and consumption. 20 marks (15 periods)

**Unit-II:** Evolution of Society, State and Economy: Emergence of socio-economic formations and the state. Feudalism as a mode of production – Salient features, class conflicts; theories of the decline and crisis of feudalism: The concept of primitive accumulation of capital — the role of foreign trade: The relationship between merchant capital and industrial revolution. 20 marks (15 periods)

**Unit-III:** Capitalism as an Evolving Economic System: Basic features, long run development under capitalism, accumulation process, technical change and crisis: The growth of monopoly capital and MNCs. 20 marks (15 periods)

**Unit-IV:** New Political economy and Economic Development: An outline of the main features of NPE: Political economy of development and underdevelopment: Metropolis – satellite relation and unequal exchange.

20 marks (15 periods)

**Unit-V:** Globalization: Meaning, Role in developing countries, case for and against globalization.Globalization and uneven development, Role of the state and markets, Capital mobility, Structural adjustment programmes and trade reforms in India.

20 marks (15 periods)

# **Reading List:**

- 1. B.N. Ghosh: Political economy: a Marxist Approach (Macmillan), 1990.
- 2. K.S.Chalam: Reading in political economy (Orient Longman).
- 3. S.S.M. Desai, MrsNirmal: Economic Systems. (Himalaya Publishing House).
- 4. SoumyenSikdar: Contemporary Issues in Globalisation (Oxford University Press).
- 5. Subroto Roy and William: Foundation of India's Political Economy.
- 6. BilapDasgupta: Structural Adjustment, Global Trade and the New Political (Vistar publication, New Delhi), 1998.

# Relationship matrix for Course outcomes, Programme outcomes /Programme Specific Outcomes

Course outcome CO	Progra	mme O	utcom	nes (PO	s)	Prograr	nme Spec	ific Outco	omes (PSC	Ds)	Mean Score of Cos
	PO1	PO2	Po3	PO4	Po5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	3	3	2	2	2	3	3	2	2	2	2.4
CO2	3	3	2	2	2	3	3	2	1	2	2.3
CO3	3	3	2	2	2	3	2	2.4			
				Mean	overa	rall score					2.4

#### BA sem IV: Political Economy:ECC 402

#### BA IV Sem ECC 403 Money and Financial Markets Course Objectives: (CO)

- 1. This course exposes students to the theory and functioning of the monetary and financial sectors of the economy.
- 2. It highlights the organization, structure and roll of financial markets and institutions. It also discusses interest rates, monetary management and instruments of monetary control.
- 3. Financial and banking sector reforms and monetary policy with special references to India are also covered.

Unit-1: Money Concept, functions, measurement; theories of money supply determinations 20M

Unit-2: Financial Institutions, Markets, Instruments and Financial Innovations

- a. Role of financial markets and institutions;
- b. Money and capital markets: organization, structure and reforms in India; 20M Unit-3: Banking system: A. Banking legislation in India: banking regulation act, 1949

B. Indian banking system: changing role and structure; banking sector reforms.20M

Unit-4 Central Banking and Monetary Policy: Functions; goals, targets ,indicators and instruments of monetary control; monetary management in an open economy ;current monetary policy of India. 20M

Unit-5 Commercial Banks in India, Functions, Importance, Credit creation and deposit 20M

# READINGS

1. F.S.Mishkin and S.G.Eakins, financial markets and institutions, pearson education,6th edition,2009.

2. M.L.Jinghan, monetary economics, vrinda publications(p)ltd, 6th edition, 2010

3. S.B.Gupta, monetary economics, S.Chand&company.pvt, 2012

4. D.Raj, monetary economics, Rajat publications, 2004

5. F.J.Fabozzi,F.Modigliani,F.J.jJnes,M.G.Ferri,foundation of financial markets and institutions, Pearson 3rd edition,2009

Relationship matrix for Course outcomes, Programme outcomes /Programme Specific Outcomes

Course outcome CO	Progra	mme O	utcom	nes (PO	s)	Program	Ds)	Mean Score of Cos			
	PO1	PO2	Po3	PO4	Po5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	3	3	2	2	2	3	2	2	3	2	2.4
CO2	3	2	2	2	3	3	3	2	3	2	2.5
CO3	2	2	3	2	2	3 3 2 3 2				2	2.4
	•	•	•	Mean	overa	all score		•			2.4

# BA sem IV: Money and financial markets : ECC 403

# BA 4th SEM (SEC) Research Methodology and Computer application: ECS 401

Course Objectives (CO):

- 1. To train the student in academic writing
- 2. To analyses the different research methods
- 3. Use of computer and its application in research

Unit 1: What is research? Types of research, Objectives of Research elements in Research work, Understanding Literature Review, Potential topics of Research in Economics 25 M

Unit 2:Research Methods in Economics, Research methods and Research Methodology,<br/>qualitative and quantitative research, Guideline for Empirical research, Inductive and deductive<br/>methods25 M

Unit 3:Research Work and Computer, relationship, Merits and Demerits, Application of<br/>Computer in Research25 M

Unit 4:MSWord, Excel and power point, Computation of ANOVA, MultipleRegression, Hypothesis testing, Ideas for Research Proposal25 m

#### Readings:

- 1. Kothari, C.R. (2004) Research Methodology, Methods and techniques, New Age International.
- 2. Ranjet Kumar (2018) Research Methodology, a step by step guide for biginners, Sage publications
- 3. Keshab Bhattarai (2015) Research methods for Economics, University of Hull Business School
- 4. Lee, S.F and Cronin, B (2018)- Handbook of Research Methods and Applications in Heterodox Economics,
- 5. Mary Renck Jalongo and Olivia N. Saracho (2016) Writing for Publications, Springer

Relationship matrix for Course outcomes, Programme outcomes /Programme Specific Outcomes

Course outcome CO	Progra	mme O	utcom	nes (PO	s)	Program	Ds)	Mean Score of Cos			
	PO1	PO2	Po3	PO4	Po5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	3	3	2	3	3	3	3	3	2	2	2.7
CO2	3	2	3	3	3	3	3	3	2	2	2.7
CO3	2	2	3	3	3	2 3 3 1					2.5
				Mean	overa	all score					2.6

#### BA sem IV: Research methodology and computer applications: ECC 401

#### **BA IV SEM Generic**

#### ECG 401

#### Title of the paper: Quantitative methods for Economic analysis

#### **Course Objective:**

- 1. The aim of the course is to provide basic inputs of statistical and mathematical tools in economics.
- 2. The emphasis will be given on basics of measures central tendency, dispersion, probability theory,
- 3. Matrix algebra, derivatives, Correlation, Regression, Time-series and Index numbers.
- UnitI: Nature and scope of Statistics, why study statistics in economics, Relationship between statistics and economics. Measures of Central Tendency, Measures of Dispersion; Matrix Algebra: Addition and Multiplication, Determinants, Inverse Matrix, 20m
- **Unit II:** Differentiation, The derivation of a function, Technique of differentiation; sums, products and quotients of functions; composite functions and the chain rule. Partial differentiation; Partial derivative in economics Homogeneous and homothetic functions, Elasticity of substitution, Maxima and Minima, saddle points, unconstrained optimization, necessary and sufficient conditions for local optima, Constrained optimization (equality constraints), The method of Lagrange multipliers, Interpretation of the Lagrange multiplier, Economic Examples. 20m
- Unit III: Probability: Concepts of Sample Space and Events, Probability of an Event; Addition and Multiplication Theorems; Conditional probability and Independence of Events – Bayes Rule; Concept of a random variable; Probability Distribution, Binomial distribution and Normal distribution, 20m
- Unit IV: Correlation and Regression analysis: Pearsonian Coefficient of Correlation, Rank Correlation, Correlation Vs Causality, Simple Linear Regression, Interpretation of regression parameters, Method of Least Square, Derivatives of Normal Equations, Time Series Analysis: Components of a time Series; 20m
- Unit V:Index Numbers: Problems in the construction of Index Numbers, Uses of Index<br/>Numbers, Fixed base and Chain base indices, Base Shifting, Splicing, Consumer<br/>price Index, Wholesale Price Index, Agricultural production index; Index number<br/>for deflating other Series.20m

#### **Reading List:**

- 1. S. C. Gupta (1982): Fundamentals of Statistics, Himalaya Publishing House, Bombay.
- 2. S. P. Gupta (2000): Statistical Methods, S. Chand & Company, New Delhi.
- 3. B. N. Gupta (1992): Statistics Theory and Practice, SahityaBhavan, Agra.
- 4. Goon AM, M. K. Gupta and B. Dasgupta (1975): Fundamentals of Statistics, Vol.1, The World Press, Ltd, Calcutta.
- 5. Chiang (2005): Fundamental methods of Mathematical Economics 4th edition, McGraw Hill Inc.
- 6. Larsen, R., Marx, M. (2011). An introduction to mathematical statistics and itsapplications. Prentice Hall.
- 7. Miller, I., Miller, M. (2017). J. Freund's mathematical statistics withapplications, 8th ed. Pearson.
- 8. Sydsaeter, K., Hammond, P. (2002). Mathematics for economic analysis, Pearson Educational.

#### Relationship matrix for Course outcomes, Programme outcomes / Programme Specific Outcomes

Course outcome CO	Progra	mme O	utcom	nes (PO	s)	Prograr	nme Spec	ific Outco	mes (PSC	Ds)	Mean Score of Cos
	PO1	PO2	Po3	PO4	Po5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	3	3	2	3	3	3 3 3 2					2.8
CO2	3	3	3	3	3	3	3	3	2	2	2.8
CO3	3	3	3	3	3	3	2	2.9			
				Mean	overa	rall score					2.8

#### BA SEM IV: Quantitative methods for Economic analysis: ECG 401

#### BA 5 th SEM Public Finance: ECC 501 Crouse objectives (CO):

- 1. Public finance is the study of government finances regarding revenue raising and spending.
- 2. The objective of the paper is to acquire the knowledge of government taxation, expenditure and its borrowing pattern.
- 3. It also aims to provide the knowledge of the centre state financial relation in India.
- **Unit I:** Public Finance, Nature and Scope of Public Finance Fiscal Functions, The principle of Maximum Social Advantage, Provision of social Goods 20M
- Unit II: Principle of Taxation Equity: Horizontal and Vertical Equity Incidence of Taxes Efficiency Criteria Tax Evasion Taxable Capacity: Absolute and Relative Taxable Capacity Factors Determining Taxable Capacity, Limit of Taxable Capacity, Features of VAT, GST, 20M

Unit III: Public Expenditure Factor Affecting Public Expenditure Wagner's Law and Peacock Wiseman Hypothesis Effects of Public Expenditure on Production, Distribution and Economic Stability, Public Borrowings : Role of public borrowing in Mobilization of Resources Burden of External and Internal Public Debts 20M

UNIT IV: Government Budget, Principle of Budget, Budget in India, performance budgeting, Manipur State Budget 20M

Unit V: Fiscal Federalism: Meaning of Fiscal Federalism, Centre State Financial Relations: Constitutional Provision in India, The Formulae for Devolution of Shareable Taxes, Grants-in-aids by the Latest Finance Commission, Fiscal Policy in India, FRBM Act and Its Implications, Local Bodies and their Financial Responsibilities 20M

#### **Suggested reading:**

- 1. Musgrave R.A & Musgrave P.B- Public Finance in theory and practice, McGraw Hill Education, 5th edition
- 2. H.L Bhatia Public Finance
- 3. Economic Survey, Government of India
- 4. Economic Survey, Directorate of Economics and Statistics, Government of Manipur

Relationship matrix for Course outcomes, Programme outcomes /Programme Specific Outcomes

Course outcome COs	Progra	mme O	utcon	nes (PO	s)	Program	nme Speci	ific Outco	mes (PSC	Ds)	Mean Score of Cos
	PO1	PO2	Po3	PO4	Po5	PSO1	PSO2	PSO3	PSO4	PSO5	Cub
CO1	3	3	2	2	2	3	2	2	2	2	2.3
CO2	3	3	2	3	2	3	3	2	1	2	2.4
CO3	3	3	3	3	2	2	2	2.6			
				Mean	overa	all score					2.4

BA SEM V: Public Finance: ECC 501

# BA 5th Semester

#### Title of the paper: Environmental Economics (ECC 502)

#### **Course objective (CO):**

- 1. This course focuses on economic causes of environmental problems. In particular, economic principles are applied to environmental questions viewed as externalities and their management through various economic institutions, economic incentives and other instruments and policies.
- 2. Methods for analyzing economic implications of environmental policy are also addressed
- 3. The valuation of environmental quality, assessment of environmental damages, and tools needed for the evaluation of projects such as cost-benefit analysis, and environmental impact assessments.
- **Unit-I:** Introduction to environment Economics: nature and scope of environment economics: Interdependence between economy and environment, issues in environmental economics, the laws of thermodynamics and environmental economics, ecosystem and biodiversity.
- **Unit-II:** Environmental problems of Climate change: command and control, choice of environmental policy instruments, criteria for policy approaches.
- **Unit-III:** Externalities and markets failure: Publics goods, common property resources and issues of property rights.
- **Unit-IV:** Renewable and non-renewable resources: Renewable and non-renewable resource extraction under monopoly and perfect competition.
- **Unit-V**: Environmental Kuznets curve and Economics of sustainable development.

#### **Reading List:**

- 1. Aldy, J. et al. (2010). Designing climate mitigation policy. Journal ofEconomic Literature, 48, 903-934.
- 2. Cropper, M., Oates, W. (1992). Environmental economics: A survey, Journal of Economic Literature, 30, 675-740.
- 3. Heal, G. (2012). Reflections defining and measuring sustainability. Reviewof Environmental Economics and Policy, 6, 147-163.
- 4. Kolstad, C. (2010). Intermediate environmental economics, 2nd ed. Oxford University Press.
- 5. Newell, R., Pizer, W., Raimi, D. (2013). Carbon markets 15 years after Kyoto: Lessons learned, new challenges. Journal of Economic Perspectives, 27, 123-46.

- 6. Perman, R., Ma, Y., McGilvray, J., Common, M. (2011). Natural resource and environmental economics, 3rd ed. Pearson Education/Addison Wesley.
- 7. Stavins, R. (ed.) (2012). Economics of the environment

#### Relationship matrix for Course outcomes, Programme outcomes /Programme Specific Outcomes

Course outcome CO	Program	mme O	utcom	nes (PO	s)	Program	nme Spec	ific Outco	omes (PSC	Ds)	Mean Score of Cos
	<b>PO1</b>	PO2	Po3	PO4	Po5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	3	3	3	3	3	3	2	2.5			
CO2	3	3	3	3	2	3	2	2	2	3	2.6
CO3	3	3	3	3	3	3	3	2.8			
				Mean	overa	ll score					2.6

#### **BA SEM V: Environmental Economics: ECC 502**

#### BA 5th SEM ECD 501 Title of the paper: International Economics Course Objective (CO):

- 1. The purpose of this course is to inform the basics of international trade theory and to examine the effects of international economic policies on domestic and world welfare.
- 2. This course develops a systematic exposition of models that try to explain the composition, direction, and consequences of international trade, and the determinants and effects of trade policy.
- 3. Although the course is based on abstract theoretical models, students will also be exposed to real-world examples and case studies.
- Unit-I: Nature and significance of International Economics, need for a separate theory of International trade, The Classical theory of trade: Adam Smith's theory of Absolute advantage, Ricardo's theory of comparative advantage and its formulation in terms of opportunity costs. 20marks (15 periods)
- Unit-II:Modern theory of trade: Hecksher-Ohlin theorem, Leontief Paradox, Factor price<br/>equalization.20marks (15 periods)
- Unit-III: Balance of Payments: Balance of Payments Accounting- Accommodating and autonomous items and their relevance to Balance of Payments equilibrium and dis-equilibrium: Exchange rates determination under Mint-Parity theory and Purchasing Power Parity theory 20marks (15 periods)
- Unit-IV:Trade Policies: Free trade versus Protection, Tariffs, Optimum Tariff, Quotas, and<br/>theory of Customs Unions. Globalization;20marks (15 periods)
- Unit-V: IMF- Objectives, Functions and achievements; GATT/WTO and developing countries. 20marks (15 periods)

# **Reading List:**

- 1. Bo-Sodersten and Geoffrey Reed: International Economics ( 3rd Edition Macmillian)
- 2. Paul.RKrugman and Maurice Obstfeld (2009): International Economics Theory and Policy (Latest edition) Pearson.
- 3. Rana and Verma: International Economics.
- 4. Jagdish N. Bhagwati, T. N. Srinivasan and ArvindPanagariya, Lectures on International Trade, MIT Press, 1998.

#### Relationship matrix for Course outcomes, Programme outcomes /Programme Specific Outcomes

Course outcome CO	Progra	mme O	utcom	nes (PO	s)	Program	nme Spec	ific Outco	omes (PSC	Ds)	Mean Score of Cos
	PO1	PO2	Po3	PO4	Po5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	3	3	3	3	3	3	3	3	2	3	2.9
CO2	3	3	3	3	3	3	3	2	2	3	2.8
CO3	3	3	3	3	3	3	3	3.0			
				Mean	overa	erall score					2.9

#### **BA sem V: International Economics: ECD 501**

# BA 5th SEM ECD 502 Title of the Paper: Population Studies Course objective (CO):

- 1. The main objective of this paper is to make the students aware of the importance of population in economic development.
- 2. The paper also enlightens the student on the quantitative and the qualitative aspects of the population through various demographic techniques.
- 3. Population theories and development analysis
- Unit-I: Meaning and Scope of Demography Population Studies and Demography Relation with other Disciplines – Size, Composition and Distribution of Population – Demographic Data Base in India: Study of Census in India; Changing characteristics and Occupational Structure of population in India.

# (20 mark 15 periods)

Unit-II: Theories of Population : Malthusian Theory – Post Malthusian Theories- Marx ideas on Population – Optimum Theory of Population – Theory of Demographic Transition; Models of Meadows, Enke, Becker and Easterlin; Population and Development.

# (20 mark 15 periods)

Unit-III:Age structure – demographic dividend and problems of young and old (ageing)<br/>populations. Population Ageing and its impact on economic development –<br/>labour, living arrangement and health.(20 mark 15 periods)

**Unit-IV:** Fertility, Mortality and Migration: Fertility - Measurement of Fertility, Factors Influencing Fertility, Fertility levels, Fertility in India. Mortality – Measurement, levels and trends in India, Infant Mortality; Life Table. Migration - Concept and Types, Factors Affecting and Theories of Migration.

## (20 mark 15 periods)

Unit-V: Structure of Population and Population Policy: Population Trends in 21st Century
Population Explosion, Age and Sex Structure. Urbanization – Rural-Urban
Population, Population, Development and Environment Linkages.Population
Policy – Meaning and Importance. (20 mark 15 periods)

#### **Reading List:**

- 1. Agarwal S.N. (1972), India's Population Problem, Tata McGraw-Hill Co., Bombay.
- 2. Bogue, D.J (1971) Principles of Demography, John Wiley, New York.
- 3. Choubey, P.K. (2000), Population Policy in India, Kanishka Publications, New Delhi.
- 4. Coals, A.J. and E.M. Hoover (1958), Population Growth and Economic Development in Low income
- 5. Gupta, J. A. (2000), New Reproductive Technogies, Women's Health and Autonomy, Indo Dutch Studies.
- 6. Novell, C. (1988), Methods and Models in Demography, Belhaven Press, London.
- 7. Srinivasan K (1998), Basic Demographic Techniques and Applications, Sage, New Delhi.

#### Relationship matrix for Course outcomes, Programme outcomes / Programme Specific Outcomes

Course outcome CO	Progra	mme O	utcom	nes (PO	s)	Program	nme Spec	ific Outco	omes (PSC	Ds)	Mean Score of Cos
	PO1	PO2	Po3	PO4	Po5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	3	3	3	3	3	3	3	2	1	1	2.5
CO2	3	3	3	3	3	3	3	3	2	2	2.8
CO3	2	3	3	3	3	3	2	2.6			
				Mean	overa	all score					2.6

#### BA sem V: Population Studies : ECD 502

#### BA 6th Semester

## **Title of the paper: Econometric Methods (ECC 601)**

#### **Course Objective (CO):**

- 1. This course introduces students to the econometric methods used to conduct empirical analysis in Economics.
- 2. The course is designed to provide the students with the basic quantitative techniques needed to undertake applied research projects.
- 3. It also provides the base for more advanced optional courses in econometrics.
- **Unit-I:** What is Econometrics? Why a separate discipline, methodology of econometrics, types, Mathematical and statistical prerequisites, nature of regression analysis, historical origin of the term regression, modern interpretation of regression, statistical versus deterministic relationship, regression versus causation, regression versus correlation.
- **Unit-II:** Two variables regression analysis, concepts of population regression function, meaning of the term linear-linearity in the variables, linearity in the parameter; stochastic specification of PRF, significance of stochastic disturbance term, sample regression function: Illustrative examples.
- **Unit-III:** Methods of ordinary-least square, the classical linear regressions model, properties of least square estimators- The Gauss- Markov theorem, the coefficient of determination- a measure of goodness of fit.
- **Unit-IV**: Multicollinearity, Heteroscedasticity and Auto-correlation: Consequence, Detection and Correction. Stochastic Regressor: Distributed lags.
- Unit-V: Simultaneous Equation System: Problem of Identification: Structural Form and Reduced Form, Observational Equivalence, Rank and Order Condition;- Limited Information Estimation: Endogeneity problem, Instrumental Variable, Omitted Variable (Indirect Least Square, 2-Stage Least Square)

#### **Reading List:**

- 1. Maddala, G S and KajalLahiri (2009), Introduction to Econometrics, John Wiley &Sons, England, 4th Edition.
- 2. Wooldridge, Jeffrey M (2009), Introductory Econometrics: A Modern Approach, South-Western Cengage Learning, USA, 4th Edition.
- 3. Johnston, Jack and John Dinardo (1997), Econometric Methods, McGraw Hill, NewYork, 4th Edition.

- 4. Gujarati, Damodar N and Dawn C Porter (2009), Basic Econometrics, McGraw Hill,New York, 5th Edition.
- 5. Kementa, J (1986): Elements of Econometrics (2nd Edition), McMillan-Maxwell, NY;
- 6. Dougherty, C. (2011). Introduction to econometrics, 4th ed. Oxford UniversityPress.
- 7. Gujarati, D. (2014). Econometrics by example, 2nd ed. Palgrave Macmillan.
- 8. Gujarati, D., Porter, D. (2010). Essentials of econometrics, 4th ed. McGraw-Hill.
- 9. Kmenta, J. (2008). Elements of econometrics. Khosla Publishing House.
- 10. Maddala, G., Lahiri, K. (2009). Introduction to econometrics, 4th ed. Wiley.
- 11. Wooldridge, J. (2014). Introduction to econometrics: A modern approach, 5thedition.

#### Relationship matrix for Course outcomes, Programme outcomes /Programme Specific Outcomes

Course outcome COs	Progra	mme C	outcom	nes (PO	s)	Program	Os)	Mean Score of Cos			
	PO1	PO2	Po3	PO4	Po5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	2	3	3	3	3	3	3	3	2	2	2.7
CO2	3	3	3	3	3	3	3	3	2	3	2.9
CO3	3	3	3	3	2	2	2	2.5			
		•	•	Mean	overa	all score	•	•			2.7

#### BA sem VI: Econometric Methods: ECC 601

BA 6th Semester

Paper: ECC 602

# **Title of the paper: Development Economics:**

# **Objective of the Course (CO):**

- 1. The course begins with a discussion of alternative conceptions of development and their measurement.
- 2. It then proceeds to aggregate models of growth and cross-national comparisons of the growth experience that can help evaluate these models.
- 3. The course ends by linking political institutions to growth and inequality by discussing the role of the state in economic development and the informational and incentive problems that affect state governance.

Unit –I: Nature and Scope of Development Economics: Economic Growth and Development and their measurement. Alternative concepts of economic Development— Human Development Approach and HDI, inclusive growth, Sustainable Development and Sustainable Development Goals (SDGs).Growth theories: Classical approach: Adam Smith, Marx, and Schumpeter, Neo- classical approach: Robinson, Solow, Kaldor and Harrod-Domar model. 20marks (15 periods)

**Unit-II:** Strategies &Economic Development: Natural resources, population and Capital Accumulation; Low level of equilibrium trap; Balanced and Unbalanced growth theory, Critical minimum effort thesis, Choice of technique- basic issues.

20marks (15 periods)

**Unit-III:** Contemporary Economic Issues: Monetary and Fiscal policy in economic development: Price policy and economic development. Inflation and growth; Unemployment, Poverty and Inequality: Concepts and their measurement.

20marks (15 periods)

**Unit-IV:** Technology Transfer and Trade Policy: Needs , significance and problems of Technology transfer, Foreign Capital and developing countries; Trade policy— Import –Substitution and Export –Promotion Strategy; WTO and Developing Countries.

20 marks (15 periods)

**Unit- V:** State, Market and planning: Role of State and Market in the Economy: Planning in a developing economy; Indicative and imperative planning, Government and market failure. 20marks (15 periods)

# **Reading List:**

- 1. M.P. Todaro & S.C. Smith: Economic Development, Pearson Education, Asia.
- 2. M.P Todaro: Economic Development in the Third World (Orient Longman).
- 3. Debraj Ray: Development Economics (Oxford University Press).
- 4. Yujiro Hayami: Development Economics From poverty to the wealth of Nations; Oxford University press.
- 5. A.P. Thirlwall: Growth and Development. With special reference to Developing Economies (Macmillian Education UK)

# Relationship matrix for Course outcomes, Programme outcomes /Programme Specific Outcomes

Course outcome CO	Progra	mme O	utcom	nes (PO	s)	Programme Specific Outcomes (PSOs)					Mean Score of Cos
	PO1	PO2	Po3	PO4	Po5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	2	3	3	3	2	3	3	1	1	2	2.3
CO2	3	3	3	3	3	3	3	2	2	2	2.7
CO3	3	3	3	3	2	3	3	2	2	2	2.6
Mean overall score											

#### **BA SEM VI: Development Economics: ECC 602**

# BA 6th sem (DSE)

# Title of the paper: HEALTH ECONOMICS: ECD 601

# **Objective of the Course (CO):**

- 1. It aims to provide an overview of basic concepts and issues relating to health economics.
- 2. It also tries to highlight the importance of health sector in the process of economic development.
- 3. Economics of health and financing of health care at micro and macro level

**Unit-I:** Introduction to Health Economics: Definition and scope of economics of health- the concept of health and health care: Uniqueness of health as a commodity, Characteristics of health market – Evolution of health economics as a separate discipline: The role of health in economic development–health as human capital- Grossman Model, determinants of health-poverty, malnutrition; Economic dimensions of health care.

20 marks (15 periods)

**Unit-II:** Micro Foundations and Issues of Health Economics: Demand and supply of health care. Demand for health care as an investment – Marginal Efficiency of Investment (MEI) and rate of return, Changes in equilibrium – Age, Wage, Education: Health Goods and Market Failure: Asymmetric Information – Uncertainty - Health Insurance – Market failure in Health Insurance Marketand rationale for public intervention; equity and inequality. 20 marks (15 periods)

**Unit-III:** Financing of Health service in India: Review of per capita and public expenditure on health services over time. An analysis of the sources of public funds for health: The need for a general health insurance, pre-payments scheme, savings-linked insurance system: The role of government financing institutions in financing health sector. 20 marks (15 periods)

**Unit-IV:** Evaluation of benefits and costs of Health services in India: Private benefits and private costs of providing health services, The failure of the market to provide essential health services, The provision of health services by the government: Benefits and costs (both private and social) of training professional manpower such as physicians, dentists, pharmacists and nurses; A review of the Indian National Health Policy and a discussion of other feasible alternatives. 20 marks (15 periods)

**Unit-V:** Indian Health sector issues: Growth in expenditure of personal health services – Characteristics of health services – healthcare problems, public's and economist's views – Analysis of demand for health services and supply of it– Rising healthcare costs, Factors affecting health – Nutritional status – Changes in morbidity pattern and trends immortality rates – Development policies, health strategy and role of non-health system – Socio-economic determinants of health status – Health foals, strategies and inter-sectoral action, Implementation of inter-sectoral programme for health – Institutional. 20 marks (15 periods)

# **READING LIST:**

- 1. Galenson W and W Pyatt, Quality of Labour and Economic Development in Certain Countries, International LabourOrganisation, Geneva, 1964.
- 2. Arrow K (1963). Uncertainty and the welfare economics of medical care. American Economic Review, 53(5):941-973.
- 3. Hammer PJ, Haas-Wilson D, Sage WM (2001). Kenneth Arrow and the changing economics of health care: "Why Arrow? Why now?" Journal of Health Politics, Policy and Law, 26(5):835-849.
- 4. Glied, S. and Smith P. C. Edtd. (2011) The Oxford Handbook of Health Economics, Oxford.
- 5. Morris, Economic Analysis of Health care, John Wiley.
- 6. Folland et al., Economics of Health and Health Care, 5th Edition, Pearson.
- 7. Henderson, Health Economics and policy, South-western Press.
- 8. Dranove, D. and Satterthwaite, M. A.(2000) "The Industrial Halfon, Larson & Russ (2010) Why Social determinants? Healthcare Quarterly, October.

Relationship matrix for Course outcomes, Programme outcomes / Programme Specific Outcomes

Course outcome CO	Progra	mme O	utcom	nes (PO	s)	Programme Specific Outcomes (PSOs)					Mean Score of Cos
	PO1	PO2	Po3	PO4	Po5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	2	3	3	3	2	3	3	1	1	2	2.3
CO2	3	3	3	3	3	3	3	2	2	2	2.7
CO3	3	3	3	3	2	3	3	2	2	2	2.6
Mean overall score											

#### BA SEM VI: Health Economics: ECD 601

# BA 6th SEM (DSE)

#### ECD 602

#### Title of the paper: Dissertation/project works

#### **Course objectives (CO):**

- 1. The aim of the paper is to make the student a creative writing in economics.
- 2. It will be the beginner course in writing research article.
- 3. Able to think, react and evaluate the various socio-economic situations.

They can undergo their project work on the following area:

- 1. Socio-economic condition of a particular community/locality
- 2. Agrarian system and rural diversification
- 3. Employment and occupations
- 4. Demography
- 5. State finance
- 6. Entrepreneur/Firm

This paper carries 100 marks (including Presentation)

#### Relationship matrix for Course outcomes, Programme outcomes /Programme Specific Outcomes

Course outcome CO	Program	mme O	utcom	nes (POs	s)	Programme Specific Outcomes (PSOs)					Mean Score of Cos
	PO1	PO2	Po3	PO4	Po5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	3	3	3	3	3	2	3	3	3	2	2.8
CO2	3	3	3	3	3	2	3	2	2	2	2.6
CO3	3	3	3	3	3	3	3	3	3	3	3.0
Mean overall score											

BA SEM VI: Dissertations/Project work: ECD 602