

**BHARATHIDASAN GOVERNMENT COLLEGE FOR WOMEN
(AUTONOMOUS)**

PUDUCHERRY. 605003



**UG and UG (Hons.) Degree Programme in
Economics**

**Curriculum & Syllabus
(NEP 2020)**

**Effective From
2023-'24**

**Mahatma Gandhi Road, Muthialpet,
Puducherry. 605003**

**BHARATHIDASAN GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)
PUDUCHERRY**

Minutes of the Department of Economics Board of Study Meeting

The Department of Economics Board of Study convened at 10.00 A.M on 11th September 2024 via Google Meet link: <https://meet.google.com/gnf-mpbx-dvb> to discuss the incorporation of the undergraduate programme under NEP 2020.

The following members were present:

Sl.No.	Name & Designation	Address	Position	Signature
1	Dr.K.Marcelline Marie Christine Associate Professor & HoD	Department of Economics, BGCW, M.G. Road, Muthialpet,Puducherry.3 marcellinemarie02@gmail.com 9486828352	Chairman	
2	Dr. Gorakh Chawla, Assistant Professor	Department of Economics, BGCW, M.G. Road, Muthialpet,Puducherry.3 chawlagorakh@gmail.com 9443984708	Member	
3	Dr.N.Umarani, Assistant Professor	Department of Economics, BGCW, M.G. Road, Muthialpet,Puducherry.3 raniuma006@gmail.com 9750118554	Member	
4	Dr.S.Selladouraitchy, Assistant Professor	Department of Economics, BGCW, M.G. Road, Muthialpet,Puducherry.3 adhava01@gmail.com 9789388058	Member	
5	Mr. Kajor Mal Meena, Assistant Professor	Department of Economics, BGCW, M.G. Road, Muthialpet,Puducherry.3 Kajumeena11@gmail.com 9829149117	Member	
6	Dr. Joel Basumatary, Assistant Professor	Department of Economics, BGCW, M.G. Road, Muthialpet,Puducherry.3 joesinghbasumatary@gmail.com 6000494467	Member	
7	Mr.Shivkumar Harishchandra Shinde, Assistant Professor	Department of Economics, BGCW, M.G. Road, Muthialpet,Puducherry.3 skumarindia2020@gmail.com 7588636040	Member	
8	Mrs. Revathi. A Assistant Professor (STC)	Department of Economics, BGCW, M.G. Road, Muthialpet,Puducherry.3 janani.revathi@gmail.com 9865327555	Member	
9	Dr. Tirouppavai Assistant Professor (STC)	Department of Economics, BGCW, M.G. Road, Muthialpet,Puducherry.3 drptpavai@gmail.com 9364560913	Member	
10	Mrs. B. Meera Assistant Professor (STC)	Department of Economics, BGCW, M.G. Road, Muthialpet,Puducherry.3 meeranathanbgcw@gmail.com 8903976677	Member	

Sl.No.	Name & Designation	Address	Position	Signature
11	Dr. G. Palanisamy Assistant Professor (STC)	Department of Economics, BGCW, M.G. Road, Muthialpet, Puducherry.3 vgpsamy@gmail.com 9486366448	Member	
12	Dr. T. Sudha Associate Professor	Department of Economics, Bharathidasan University, Trichirappalli. sukeer99@gmail.com 9003795359	Member (Subject Expert)	
13	Dr. A. Idhayathulla Associate Professor	PG and Research, Department of Economics, Jamal Mohammed College, Trichirappalli. 620020 idhayathjmc@gmail.com 9443424425	Member (Subject Expert)	
14	Dr. Prashant Kumar Panda, Professor & Head	Department of Economics, Pondicherry University. head.eco@pondiuni.ac.in 9488362428	Member (VC Nominee)	
15	Mrs. R. Dhanalakshmi Proprietor	Samundhereghaa Foods Puducherry. laxmiindia@yahoo.co.in	Member (Representative Related to Placement)	
16	Mrs. Revathi. A	No. 13, 5 th Cross, Dr. Radhakrishnan Nagar, Moolakulam, Puducherry. 10 janani.revathi@gmail.com 9865327555	Meritorious Alumna	

The Chairman introduced the board members and distributed an electronic copy of the rough draft of the syllabus for their review and input. The members were tasked with providing suggestions, recommendations, modifications, and approval for the 2023-'24 and 2024-'25 student batches.

The following decisions were reached and actions taken:

1. Finalized the course structure for the B.A Economics and B.A Economics (Honours) Program.
2. Approved the syllabi for the 2023-'24 and 2024-'25 student batches and beyond.
3. Incorporated the Board's suggestions for Skill Enhancement Courses into the syllabi to foster enriched human capital.
4. Unanimously approved the framework of the syllabi, including the Discipline Specific Courses (Major) and Discipline Elective/Allied Courses (Minor).
5. Approved the inclusion of courses from MOOC and other UGC-approved LMS platforms.

All decisions and actions have been documented and appended herewith. The Google Meet ended at 12.00 Noon.

B.A. Economics Syllabus
National Education Policy 2020
For UG and UG (Hons) Degree Programme

1. PROGRAMME OUTCOME (PO).

The Bachelor of Arts degree aim to provide students with a broad-based education that emphasizes critical thinking, communication skills, and a deep understanding of the chosen field of study. The general outcomes include broad knowledge base, critical thinking and analytical skills, effective communication, research competence, cultural and ethical awareness and career and life skills. Thus the B.A. graduates are prepared for both professional and academic challenges.

2. PROGRAMME SPECIFIC OUTCOME (PSO)

The B.A. Economics programme equips student with a comprehensive understanding of economic theories, principles, and their applications in real world contexts. Graduates are expected to achieve Economic Theoretical Knowledge, Quantitative and Analytical Skills, Critical Thinking and Problem Solving, Global and Local Economic Understanding, Communication and Research Skills and Career Readiness. This programme fosters intellectual growth and prepares students to engage effectively with the challenges of the modern economy.

The B.A (Honours) Economics programme besides giving broad understanding of economics emphasizes depth research, and specialization, making it more suitable for students seeking advanced academic or professional careers in economics.

3. COURSE OUTCOME

MAJOR DISCIPLINARY COURSES

MJD 1 & MJD 3 MICRO ECONOMICS

The course outcome of Microeconomics is to enable students to understand fundamental economic principles such as demand and supply, consumer behavior, and market structures. It equips them with analytical skills to assess how individuals and firms make decisions and the effects of government policies on markets.

MJD 2 & MJD 5 MACRO ECONOMICS

Macroeconomics helps students comprehend broad economic concepts like GDP, inflation, unemployment, and fiscal and monetary policies. It prepares them to analyze national and global economic trends and evaluate the impact of policy decisions on economic growth and stability.

MJD 4 MATHEMATICAL METHODS FOR ECONOMICS

The course equips students with essential mathematical tools like calculus, linear algebra, and optimization to analyze economic models and solve real-world economic problems. It enhances their ability to apply quantitative methods, critically evaluate economic theories, and improve decision-making.

MJD 6 STATISTICAL METHODS FOR ECONOMICS

The course enables students to understand and apply statistical tools for analyzing economic data. It develops skills in correlation and regression analysis, Index Numbers allowing students to interpret data, make informed decisions, and critically evaluate economic relationships.

MJD 7 ENVIRONMENTAL ECONOMICS

The course helps students understand the economic principles related to environmental issues and policies. It equips them to analyze environmental problems, assess the costs and benefits of environmental policies, and provide sustainable solutions for managing natural resources and addressing climate change.

MJD 8 INTRODUCTION TO INTERNATIONAL ECONOMICS

The course provides students with an understanding of key concepts in global trade and finance. It enables them to analyze trade patterns, international economic policies, exchange rates, and effects of globalization, preparing them to assess the economic relationships between countries and the impact of international economic transactions.

MJD 9 DEVELOPMENT ECONOMICS

The outcome of the course is to equip students with an understanding of the principles and theories of economic development, analyze the challenges and strategies for sustainable growth, and apply this knowledge to assess policies aimed at improving economic well-being in developing regions.

MJD 10 BASIC ECONOMETRICS

The course outcome is to enable students to understand and apply fundamental econometric techniques for analyzing economic data, interpret empirical results, and evaluate the effectiveness of economic models in real-world scenarios.

MJD 11 INTERNSHIP

This course is to provide students with practical, hands-on experience in their field of study, develop professional skills and workplace competencies, and enhance their understanding of industry practices and career opportunities.

MJD 12 LABOUR ECONOMICS

Enable students to understand labour market dynamics, wage determination, employment policies, and labour productivity, and prepare them to analyze labour issues and policy impacts.

MJD 13 INDUSTRIAL ECONOMICS

Students will gain insights into market structures, firm behavior, and industrial policies, equipping them to evaluate competition, market power, and regulatory frameworks.

MJD 14 AGRICULTURAL ECONOMICS

The course helps to understand the economic principles governing agricultural production, resource use and rural development enabling them to analyze agricultural policies, market trends and food security.

MJD 15 MONETARY ECONOMICS

The course is to make students learn the role of money, banking systems, and monetary policy in the economy, enabling them to analyze inflation, interest rates, and the impact of central bank decisions.

MJD 16 HISTORY OF ECONOMIC THOUGHT

The course explores the evolution of economic ideas and theories from classical to contemporary school of thought, developing critical thinking and economic issues and their historical context.

MJD 17A PUBLIC FINANCE

Students gain knowledge of government revenue, expenditure and fiscal policies equipping them to analyze taxation, public debt and the impact of fiscal decisions on the economy.

MJD 17B INTERNATIONAL TRADE AND FINANCE

The course provides students with thorough understanding of global trade theories, policies and their impact on economic development. It enhances their knowledge of exchange rates, balance of payments and the role of international financial institutions.

MJD 18 RESEARCH METHODOLOGY

The course develops essential skills in designing and conducting research, including data collection, analysis, and interpretation, preparing them for rigorous academic and professional research projects.

MJD 19 ADVANCED THEORIES OF ECONOMIC GROWTH

The course explores complex models of economic growth such as endogenous and exogenous growth theories focusing on the roles of technology, human capital and innovation. It helps students to critically analyze factors driving long- term economic expansion and assess the impact of policy decisions on growth outcomes in different economies.

MJD 20 INDIAN ECONOMY – ISSUES & POLICIES

Students gain an in-depth understanding of the major issues facing the Indian Economy such as poverty, inequality, unemployment and regional disparities. They will study the effectiveness of various economic policies and reforms in addressing these challenges equipping them to critically evaluate India's economic development strategies and policy interventions.

MAJOR - ADVANCED MACRO ECONOMICS

The course explores complex macroeconomic models including those related to inflation, unemployment and fiscal and monetary policy. This equips them with the tools to critically analyze national and global economic trends and policy impacts.

MAJOR – ECONOMICS OF HEALTH AND EDUCATION

Students will understand the economic principles underlying the health and education sectors focusing on resource allocation, policy challenges and human capital development. It prepares them to assess the efficiency and equity of health and education systems.

MAJOR – URBAN ECONOMICS

The course concentrates on the economic dynamics of cities, including land use, housing markets and urban policy. It develops the ability to evaluate urbanization trends, city planning and the challenges of managing urban growth.

MINOR DISCIPLINARY COURSES

MID 1 REGIONAL ECONOMICS

The paper explores the economic disparities between regions focusing on factors influencing regional development, location theory and regional policy interventions. It also equips them to analyze and design policies aimed at reducing regional disparities.

MID 2 SOCIETY AND ECONOMY

This course introduces students about the basic economic sociology, how economic processes work for the wellbeing of the society and allocation of the natural resources according to the need of the human society. Economy & Society seek to study the growth of economic inequality and pressing socio-economic issue. It also helps in understanding how socio-economic problems need social and economic action and thus investigates how economic processes are taking place.

MID 3 BANKING AND INSURANCE

The course gives insights to the functioning of banking systems, financial markets and insurance mechanisms, understanding their roles in economic stability and risk management. Students will be prepared to evaluate financial products, regulatory frameworks and the impact of financial institutions on the economy.

MID 4 POPULATION STUDIES

The course studies population dynamics including fertility, mortality and migration and their effects on economic growth, labour markets and social policies. It helps them to analyze demographic trends and their implications for economic development and public policy.

MID 5 WOMEN AND DEVELOPMENT

The course examines the role of women in economic development focusing on issues such as labour participation, education and access to resources. It prepares them to assess the effectiveness of development policies aimed at empowering women and reducing gender inequality.

MID 6 ECONOMICS OF TOURISM

Students will understand the economic impact of tourism on local, national and global economies focusing on demand, supply and policy in the tourism sector. This helps them to evaluate tourism's role in economic development and sustainable growth.

MID 7 GENDER STUDIES

The course explores the social, economic and political dimensions of gender focusing on issues of inequality and empowerment. It equips them to analyze gender-based disparities and advocate for policies promoting gender equity.

MID 8 ADVANCED MICRO ECONOMICS

The course helps students master core concepts of consumer behavior, production theory and market structures, evaluate market efficiency, strategic interactions, and policy interventions and conduct independent research and effectively communicate microeconomic insights.

SKILL ENHANCEMENT COURSES

SEC 1 HUMAN RESOURCE MANAGEMENT

Students will learn the principles and practices of managing human capital including recruitment, training, performance management and labour relations. It prepares them to effectively manage and develop workforce in various organizational settings.

SEC 2 FUNDAMENTALS OF ENTREPRENEURSHIP

Students will explore the basic concepts of starting and running a business focusing on innovation, risk management and business planning. This equips them with the skills needed to launch and manage entrepreneurial ventures.

SEC 3 ECONOMICS OF CO-OPERATIVE SOCIETIES

The course will make students understand the functioning, principles and economic role of cooperative societies in promoting collective ownership and community-based development. It enables them to evaluate the impact of cooperatives on economic empowerment and social welfare.

MULTI DISCIPLINARY COURSES (Offered to students of other departments)

MLD 1 ECONOMICS FOR COMPETITIVE EXAMINATIONS

The course aims to equip students with foundational knowledge in micro and macroeconomics, public finance and international trade. By covering essential concepts the course prepares students for various competitive exams while deepening their understanding of economic policies and practices.

MLD 2 UNDERSTANDING ECONOMICS

The outcome is to provide students with a foundational grasp of the basic principles of economics including microeconomic concepts such as consumer behavior and market equilibrium and an introduction to production structures and macroeconomic functioning. It will equip students with analytical skills to understand the core mechanism of economic systems and their practical applications.

MLD 3 BASIC ECONOMIC CONCEPTS AND MEASUREMENT

The outcome is to help students understand essential economic concepts like measurement of economic indicators, consumer behavior and market structures. The course emphasizes the importance of economic measurement helping students develop clear understanding of how to assess economic health and performance across various macroeconomic variables.

4. COURSE GUIDELINES

- Updating the course on the basis of new researches and discoveries.
- Covering the main currents in economics which would give wide opening to the students to choose the area of study in Post Graduate and Research Level.
- Providing academic flexibility to the students by offering options.
- Encouraging the students to pursue for various academic and professional careers.

5. REGULATIONS

Undergraduate degree programmes of either 3- or 4-years duration, with multiple entry and exit points and re-entry option with appropriate certifications such as:

- A UG Certificate after completing 1 year (2 Semesters) of study in the chosen fields.
- A UG diploma after 2 years (4 Semesters) of study.
- A bachelors' degree after a 3-years (6 Semesters) of study.
- A 4-years bachelors' degree (Honours) after eight semesters programme of study. If the student completes a rigorous research project in their major area(s) of study in the 4th year, bachelors' degree (Honours with research).

TYPES OF COURSES

1. Major Disciplinary Courses (MJD)
2. Minor Disciplinary Courses (MID)
3. Multi - Disciplinary Courses (MLD)

4. Ability Enhancement Courses (AEC)
5. Skill Enhancement Courses (SEC)
6. Value Added Common Courses (VAC)
7. Internships and Community service-based projects
8. Research Project work for 4-years Honours Degree

MULTI - DISCIPLINARY COURSES (MLD) – (9 CREDITS)

1. Natural Sciences
2. Physical Sciences
3. Mathematics and Statistics
4. Computer Science/ Applications
5. Data Analysis
6. Social Sciences
7. Humanities
8. Commerce and Management
9. Library Science
10. Media Sciences etc.

ABILITY ENHANCEMENT COURSES (AEC) - (8 CREDITS)

1. English
2. MIL (Tamil / Hindi / French)

SKILL ENHANCEMENT COURSES (SEC) – (9 CREDITS)

Courses aimed at imparting practical skills, Hands-on training, soft skills etc. to enhance the employability and entrepreneurship of the students. The course may be designed as per the students need and available Institutional resources.

VALUE ADDED COMMON COURSES (VAC) – (8 CREDITS)

1. Understanding India
2. Environmental Sciences/Education
3. Digital and Technological Solutions
4. Health, Wellness, Yoga Education, Sports and Fitness

INTERNSHIPS

1. Summer Internship (2 Credits) – (Community Engagement and Service)
2. Winter Internship (4 Credits) – (Internship in an Industrial organisation/Training centres/Research Institutions)

RESEARCH PROJECTS - (12 CREDITS)

Students may be given necessary guidance by the Faculty Members in identifying the Research Problems, Conduct of Study and preparation of a Project Report.

MAJOR DISCIPLINARY COURSES (MJD) (60 CREDITS FOR 3 YEARS DEGREE, 80 CREDITS FOR UG (HONS))

Discipline Specific Courses.

MINOR DISCIPLINARY COURSES (MID) (24 CREDITS FOR 3 YEARS DEGREE, 32 CREDITS FOR UG (HONS))

Allied/ Elective subjects to the major Discipline. It may be disciplinary/Inter-disciplinary.

LEVEL OF COURSES

Courses are coded based on the learning outcomes, level of difficulty and academic rigour. The Coding structure is as follows:

- 0-99 – Pre-requisite course with no credits
- 100-199 – Foundation or Introductory Courses
- 200- 299 – Intermediate level Courses
- 300 – 399 – Higher level Courses
- 400- 499 – Advanced Courses

COURSE DISTRIBUTION

S.No	Category	No. of Courses		Credits for a Course	Total Credits	
		3 - Years Degree	4– Years Degree		3- Year Degree	4 – Years Degree
1.	Major Disciplinary Courses (MJD) – 14+1 (Winter internship 4 Weeks)	15	20	4	60	80
2.	Minor Disciplinary Courses (MID)	6	8	4	24	32
3.	Multi - Disciplinary Courses (MLD)	3	3	3	09	09
4.	Ability Enhancement Courses (AEC)	4	4	2	08	08
5.	Skill Enhancement Courses (SEC)	3	3	3	09	09
6.	Value Added Common Courses (VAC)	4	4	2	08	08
7.	Summer Internship – Community Engagement	1	1	2	02	02
8.	Research Projects	-	1	12	-	12
	or Additional Major Courses	-	3	4	-	-
Total		36	44 or 46		120	160

COURSE DISTRIBUTION - SEMESTER WISE

Semester	MJD	MID	MLD	AEC	SEC	VAC	Total
I	1	1	1	1 (Eng/Lang)	1	1 & 2	7
II	1	1	1	1	1	3 & 4	7
III	2	1	1	1	1	-	6
IV	3	1	-	1	Community Engagement	-	6
V	3	1	-	-	Winter Internship (MJD)	-	5
VI	4	1	-	-	-	-	5
VII	3	2	-	-	-	-	5
VIII	2	Research Project (or) 3 MJD Courses					3 or 5

LEVELS AND CREDITS FOR EACH SEMESTER

Semester	Levels	UG 3 Years Degree	UG 4 Years (Hons.) Degree
I	100	20	20
II	100	20	20
III	200	20	20
IV	200	20	20
V	300	20	20
VI	300	20	20
VII	400	-	20
VIII	400	-	20
Total		120	160

COURSE STRUCTURE FROM THE BATCH 2024-'25 ONWARDS**SEMESTER – I****Level - 100**

S.No	Category	Course Code	Course Title	Credits	Lecture/Tutorial Hours
1	MJD 1		Micro Economics - I	4	4+1
2	MID 1		Regional Economics	4	4+1
3	MLD 1		Economics for Competitive Examinations	3	3+1
4	AEC 1		English - I	2	2+2
5	SEC 1		Human Resource Management	3	3+1
6	VAC 1		VAC 1 – Environmental Studies	2	2+2
7	VAC 2		VAC 2 – Understanding India	2	2+2
Total				20	30

SEMESTER - II**Level - 100**

S.No	Category	Course Code	Course Title	Credits	Lecture/Tutorial Hours
1	MJD 2		Macro Economics - I	4	4+1
2	MID 2		Society and Economy	4	4+1
3	MLD 2		Understanding Economics	3	3+1
4	AEC 2 (Eng/Lang)		Language - I (T/F/H)	2	2+2
5	SEC 2		Fundamentals of Entrepreneurship	3	3+1
6	VAC 3		VAC 3 – Digital Technology Education	2	2+2
7	VAC 4		VAC 4 – Health, Wellness, Yoga Education, Sports & Fitness	2	2+2
Total				20	30

SEMESTER – III**Level-200**

S.No	Category	Course Code	Course Title	Credits	Lecture/Tutorial Hours
1	MJD 3		Micro Economics – II	4	4+1
2	MJD 4		Mathematical Methods for Economics	4	4+1
3	MID 3		Banking & Insurance	4	4+1
4	MLD 3		Basic Economic Concepts & Measurement	3	3+1
5	AEC 3 (Eng/Lang)		English - II	2	2+2
6	SEC 3		Economics of Co-operative Societies	3	3+1
Total				20	27

SEMESTER - IV**Level - 200**

S.No	Category	Course Code	Course Title	Credits	Lecture/Tutorial Hours
1	MJD 5		Macro Economics – II	4	4+1
2	MJD 6		Statistical Methods for Economics	4	4+1
3	MJD 7		Environmental Economics	4	4+1
4	MID 4		Population Studies	4	4+1
5	AEC 4 (Eng/Lang)		Language – II (T/F/H)	2	2+2
6	Project		Summer Internship (Community Engagement)	2	6
Total				20	30

SEMESTER – V**Level - 300**

S.No	Category	Course Code	Course Title	Credits	Lecture/Tutorial Hours
1	MJD 8		Introduction to International Economics	4	4+1
2	MJD 9		Development Economics	4	4+1
3	MJD 10		Basic Econometrics	4	4+1
4	MJD 11		(Winter Internship – Industrial Training)	4	6
5	MID 5		Women and Development	4	4+1
Total				20	26

SEMESTER - VI**Level - 300**

S.No	Category	Course Code	Course Title	Credits	Lecture/Tutorial Hours
1	MJD 12		Labour Economics	4	4+1
2	MJD 13		Industrial Economics	4	4+1
3	MJD 14		Agricultural Economics	4	4+1
4	MJD 15		Monetary Economics	4	4+1
5	MID 6		Economics of Tourism	4	4+1
Total				20	25

SEMESTER – VII**Level - 400**

S.No	Category	Course Code	Course Title	Credits	Lecture/Tutorial Hours
1	MJD 16		History of Economic Thought	4	4+1
2	MJD 17		Public Finance	4	4+1
			International Trade and Finance		
3	MJD 18		Research Methodology	4	4+1
4	MID 7		Gender Studies	4	4+1
5	MID 8		Advanced Micro Economics	4	4+1
Total				20	25

SEMESTER – VIII**Level-400**

S.No	Category	Course Code	Course Title	Credits	Lecture/Tutorial Hours
1	MJD 19		Advanced Theories of Economic Growth	4	4+1
2	MJD 20		Indian Economy – Issues & Policies	4	4+1
5	Research Project (or) 3 Major Disciplinary Courses		1. Advanced Macro Economics	12	15
			2. Economics of Health & Education		
			3. Urban Economics		
Total				20	25

PEDAGOGICAL STYLE

1. Lecture Classes
2. Tutorial Classes
3. Seminar Classes
4. Internships
5. Project Work
6. Community Engagement

Every semester shall have a minimum of 20 credits.

ELIGIBILITY

Senior Secondary School Leaving Certificate or Higher Secondary (12th Standard) Certificate obtained from Universities/ State Educational Boards.

EVALUATION

All credit courses will be evaluated based on a total of 100 marks, distributed as follows:

- Internal Assessment 25 marks
- End Semester Examination 75 marks

Breakup of Internal Assessment Marks:

For all credit courses, the internal assessment 25 marks will be broken down as follows:

- Mid-Semester Exam 20 marks
- Attendance 5 marks

Summer Internship/Community Engagement:

- | | |
|--|----------|
| 1. Identifying the problem/Topic Selection | 20 Marks |
| 2. Survey/Data Collection | 20 Marks |
| 3. Analysis, Consolidation and Report Submission | 30 Marks |
| 4. Presentation and Viva voce | 30 Marks |

Winter Internship/Industrial Training:

- | | |
|---|----------|
| 1. Attendance | 20 Marks |
| 2. Observational Reports Submission/Certificate | 80 Marks |

Internal Test Scheme

- Mid-Semester Exams: Conducted during the 8th or 9th week from the start of classes.
- Duration of the Exam: 1 Hour 30 Minutes (90 Minutes)

MARKS FOR ATTENDANCE

- Below 75% 0 marks
- 75% to 80% 1 mark
- 80% to 85% 2 marks
- 85% to 90% 3 marks
- 90% to 95% 4 marks
- 95% to 100% 5 marks
- A minimum of 70% attendance is required to be eligible to appear in the end-semester exam.
- Attendance Below 70%: Eligible for the Examination with condonation Fee.
- Attendance Below 60%: Not eligible to appear for the Examination.

CRITERIA FOR PASS MARKS

(Minimum Pass Marks)

- Internal Assessment: No minimum pass marks required.
- End Semester Exams: Minimum pass marks are 30 out of 75.
- Overall Pass Marks: A combined minimum of 40 marks out of 100 (including Internal Assessment and End Semester Exams) is required to pass the course.

END SEMESTER EXAMINATION SCHEME - THEORY SUBJECTS

- Total Marks: 75 marks
- Section A: $10 \times 2 = 20$ Marks (10 out of 12 Questions to be answered)
- Section B: $5 \times 5 = 25$ Marks (5 out of 8 questions to be answered)
- Section C: $3 \times 10 = 30$ Marks (3 Out of 5 Questions to be answered)

Major Disciplinary Course (MJD) 1
MICRO ECONOMICS I

Semester: I
Credits: 4

UNIT I: INTRODUCTION

Nature and Scope of Micro Economics – Importance and Limitations of Micro Economics – Micro Statics – Micro Dynamics – Comparative Statics – Concept of Equilibrium – Partial vs. General Equilibrium – Price Mechanism.

UNIT II: CONSUMER BEHAVIOR

Utility Analysis – Cardinal Approach – Demand and Law of demand – Derivation of demand curve – ordinal Approach – Indifference Curve – Consumer Equilibrium – Price, Income and Substitution Effect (Hicks & Slutsky) – Comparison of Cardinal and Ordinal – Consumer's Surplus.

UNIT III: ELASTICITY

Elasticity of Demand – Types of Elasticity – Measurement of Elasticity of Demand – Practical Applications – Factors determining Elasticity of Demand – Law of Supply – Elasticity of Supply.

UNIT IV: PRODUCTION FUNCTION

Basic ideas relating to production function – Factors of Production – Land and Capital – Capital Formation – Labour and Organization – Division of Labour and Specialization – Functions of Entrepreneurs.

UNIT V: THEORIES OF PRODUCTION

Laws of Production – Law of Variable Proportions – Returns to Scale – Economies of Scale – Isoquants and Producer's Equilibrium – Cobb-Douglas Production Function.

Suggested Readings:

1. Ahuja.H.L : "Principles of Micro Economics", Chand & Co. Ltd., New Delhi.
2. Jhingan. M.L: "Micro Economic Theory", Vrinda Publications (P) Ltd., Delhi.
3. Koutsoyianous. A: "Modern Micro Economics", Tata McGraw Hill.
4. Stonier A.W. and Hague D.C: "A Text Book of Economic Theory", ELBS & Long Man Group, London.
5. Trivedi D. N: "Micro Economic Theory and Policies", Tata McGraw Hill Education Pvt. Ltd., New Delhi.

**Minor Disciplinary Course (MID) 1
REGIONAL ECONOMICS**

Semester: I

Credits: 4

UNIT I: CONCEPTS

Definition – Scope and Importance of Regional Economics - Different Types of Region - Indicators of Regional Development.

UNIT II: REGIONAL ECONOMIC DEVELOPMENT

Economic development and regional disparities - Indicators of regional disparities - Backwardness and regional imbalances in India - Regional dimensions of Indian plans.

UNIT III: LOCATION OF FIRMS AND SPATIAL PRICE THEORY

Locational interdependence - Hotelling theory - Price equilibrium in geographically separated and interlinked markets - Market area boundaries - Reilly's law - Spatial monopoly - Price discrimination under monopoly - Spatial monopolistic competition.

UNIT IV: TECHNIQUES OF REGIONAL ANALYSIS

Regional and interregional input-output analysis - Attraction model - Gravity model - Shift-share analysis - People prosperity vs. Place prosperity.

UNIT V: REGIONAL ECONOMIC PLANNING

Formulation of interregional objectives - Consistency between national and regional objectives - Regional policy measures - Importance of Agriculture, Industry, Physical infrastructure and Social Sector in regional economic development.

Suggested Readings:

1. Chand, M. and V.K. Puri (1983): "Regional Planning in India", Allied Publishers, New Delhi.
2. Richardson, H.W. (1969): "Regional Economics", Weidenfield, M. and Nicolson, London.
3. Hoover, E.M. (1974): "An Introduction to Regional Economics", Alfred A. Knopf, New York.
4. Isard, W. (1960): "Methods of Regional Analysis", MIT Press, Cambridge, Mass.
5. Nair, K.R.G. (1982): "Regional Experience in a Developing Economy", Wiley-Eastern, New Delhi.
6. Brahmananda, P.R. and V.R.Panchmukhi (Eds.) (2001): "Development Experience in the Indian Economy: Inter-State Perspectives", Bookwell, Delhi.

**Interdisciplinary/Multidisciplinary Minor (MLD) 1
(Offered for students of other Departments)**

ECONOMICS FOR COMPETITIVE EXAMINATIONS

Semester: I

Credits: 3

UNIT I: BASICS OF MICRO ECONOMICS

Consumer Behaviour – Utility Analysis – Cardinal and Ordinal Utility – Demand – Elasticity of Demand – Supply – Cost and Revenue.

UNIT II: BASICS OF MACRO ECONOMICS

Concepts of National Income – Inflation – Deflation – Stagflation.

UNIT III: OVERVIEW OF MACRO ECONOMIC POLICIES

Monetary policy – Fiscal policy - Instruments.

UNIT IV: BASICS OF PUBLIC FINANCE

Tax revenue – Direct tax – Indirect tax – Non tax revenue – Capital Receipts – Revenue Receipts – Expenditure – Revenue expenditure – Capital expenditure – Plan expenditure – Non-plan expenditure – Development expenditure – Non development expenditure – Budget – Revenue Deficit – Fiscal Deficit.

UNIT V: BASICS OF INTERNATIONAL TRADE

Balance of Payments – BoP and BoT - Current Account – Capital Account - Financial Account.

Suggested Readings:

1. Ahuja.H.L: "Principles of Micro Economics", Chand and Company Ltd., New Delhi.
2. Jhingan.M.L: "Micro Economic Theory", Vrinda Publications Ltd., Delhi.
3. M.L.Jhingan: "Macro Economics", Vrinda Publications.
4. Musgrave, R.V and P.B. Musgrave: "Public Finance in Underdeveloped Countries", McGraw Hill Ltd., New Delhi.
5. J.M.Mithani: "International Economics", Himalaya Publishing House, Mumbai.

Skill Enhancement Course (SEC) 1
HUMAN RESOURCE MANAGEMENT

Semester: I
Credits: 3

UNIT I: HUMAN RESOURCE MANAGEMENT

Human resource management – Concept of Human Resource – Nature and scope of Human Resource Management – Objectives - Organization and Functions of HR and Personnel Department.

UNIT II: HUMAN RESOURCE PLANNING

Meaning - Process of Human Resource planning – Job analysis – Recruitment and selection – Drafting Resume - Introduction to interview – Interview Preparation - Human resource information system – Orientation programs – Incentives and rewards to employees.

UNIT III: HUMAN RESOURCE DEVELOPMENT

Human Resource development – Training and Development - Methods, evaluation of training and development programs, career development – Promotion and Transfer.

UNIT IV: THEORIES OF MOTIVATION

Theories of motivation – Maslow's hierarchy needs – Herzberg's two factor model – Motivational pattern – Application of motivation concepts.

UNIT V: LEADERSHIP, COMMUNICATION AND COUNSELLING

Nature of leadership behavior and leadership style – Employee participation – Benefits of participation – Employee communication process – Communication systems – Employee counseling and types.

Suggested Readings:

1. Micheal V.P (1998): "Human Resources Management and Human Relations", Himalaya Publishing house, New Delhi.
2. M. N .Rudrabasavaraj (1998): "Cases in Human Resources Management", Himalaya publishing house, New Delhi.
3. H. John Bernardin and Richard W.Beatty (1984): "Performance appraisal: assessing human behavior at work", Kent Bosten.
4. George T. Milkovich and John W. Boudreau (1998): "Personal Human Resources Management: A diagnostic approach", Ed. Plano, TX business publications.
5. Aswathappa: "Human Resource Management", Tata McGraw Hill, New Delhi, 2010.

Value Added Course (VAC) 1
ENVIRONMENTAL STUDIES
(For Compulsory to UG Course Students)

Semester: I
Credits: 2

UNIT I: MULTIDISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES

Definition, Scope and Importance – Need for Public Awareness – Environmental Ethics – Issues and possible solutions – Environment Protection Act.

UNIT II: NATURAL RESOURCES, RENEWABLE AND NON-RENEWABLE RESOURCES

Forest Resources: Use and Over-exploitation – Deforestation – Timber Extraction – Water Resources: Use and Over-utilization of surface and ground water, floods, drought, dams – Benefits and Problems – Food Resources: World Food Problems, changes caused by agriculture and overgrazing, effects of modern agriculture – Energy Resources: Renewable and non-renewable energy sources, use of alternate energy sources – Land Resources: Land as a resource, land degradation, soil erosion and desertification.

UNIT III: ECOSYSTEMS

Concept of an ecosystem – Structure and function of an ecosystem – Energy Flow in the ecosystem – Food Chains, Food Webs and Ecological Pyramids – Characteristic features, structure and function of Forest Ecosystem, Grassland Ecosystem, Desert Ecosystem, Aquatic Ecosystem.

UNIT IV: BIODIVERSITY AND ITS CONSERVATION

Introduction – Definition: genetic, species and ecosystem diversity – Bio-geographical classification of India – India as a mega diversity nation – Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic values – Hot-spots of biodiversity – Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts – Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.

UNIT V: ENVIRONMENTAL POLLUTION

Definition, cause, effects and control measures of: Air Pollution, Water Pollution, Soil Pollution, Noise Pollution, Thermal Pollution, Nuclear Hazards – Solid Waste Management: Causes, effects and control measures of urban and industrial wastes – Disaster Management: Floods, earthquake, cyclone and landslides.

Suggested Readings:

1. Odum, E.P., Barrett G., W., (2011): "Fundamentals of Ecology", 5th edition, Cengage Learning. ISBN-13:978-8131500200.
2. Sharma, P.D (2011): "Ecology and Environment", Rastogi Publications, ISBN-13:978-8171339655.

Value Added Course (VAC) 2
UNDERSTANDING INDIA
(For Compulsory to UG Course Students)

Semester: I
Credits: 2

Unit I: Geography of India

- India on the map of the world and its neighbouring countries.
- Geographical diversities.

Unit II History of India

- India's Freedom Struggle.
- An introduction to Indian knowledge systems.

Unit III: Communicating Culture

- Oral narratives: Myths, tales and folklore.
- Introduction to the Tribal Cultures of India.

Unit IV: Indian Social Structure

- Continuity and change of the Indian Social Structure: Caste, Community, Class and Gender.

Unit V: Understanding Indian Polity

- The evolution of State in India: Nature and origin.
- Interpreting India: Traditional, Modern and Contemporary.
- Constitution as a living document.

Suggested Readings:

1. Ramesh Dutta Dikshit, *Political Geography: Politics of Place and Spatiality of Politics*, Macmillan Education, 2020.
2. Deshpande C. D., 1992: *India: A Regional Interpretation*, ICSSR, New Delhi.
3. Johnson, B. L. C., ed. 2001. *Geographical Dictionary of India*. Vision Books, New Delhi.
4. Mandal R. B. (ed.), 1990: *Patterns of Regional Geography – An International Perspective*. Vol. 3 – Indian Perspective.
5. Tirtha, Ranjit 2002: *Geography of India*, Rawat Publs., Jaipur & New Delhi.
6. Pathak, C. R. 2003: *Spatial Structure and Processes of Development in India*. Regional Science Assoc., Kolkata.
7. Tiwari, R.C. (2007) *Geography of India*. Prayag Pustak Bhawan, Allahabad 12.
8. Sharma, T.C. (2013) *Economic Geography of India*. Rawat Publication, Jaipur.
9. Bose D. M., S. N. Sen and B. V. Subbarayappa ed. (1971) *A Concise History of Science in India*, Indian National Science Academy, New Delhi.
10. Chandra, Bipan, Amales Tripathi & Barun De (1972), *Freedom Struggle*, National Book Trust, New Delhi.
11. Husain, S. Abid. (2003). *The National Culture of India*, National Book Trust, New Delhi.
12. Kapoor, Kapil and Avadesh Kumar Singh ed. (2005), *Indian Knowledge Systems*, 2

Volumes, DK Printworld, New Delhi.

13. Mohanta, Basant Kumar and Vipin Kumar Singh ed. (2012), *Traditional Knowledge System and Technology in India*, Pratibha Prakashan
14. Stuart H. Blackburn, "The Folk Hero and Class Interests in Tamil Heroic Ballads", *AsianFolklore Studies*, Vol. 37, No. 1 (1978), pp. 131-149.
15. Beatrix Hauser, "From Oral Tradition to "Folk Art": Reevaluating Bengali ScrollPaintings", in *Asian Folklore Studies*, Vol. 61, No. 1 (2002), pp. 105-122.
16. Komal Kothari, "Myths, Tales and Folklore: Exploring the Substratum of Cinema" pdf.
17. Singh, Y. (1968). Caste and Class : Some Aspects of Continuity and Change. *Sociological Bulletin*, 17(2), 165–186.
<https://doi.org/10.1177/0038022919680205>
18. Singh, Y. (1986). *Modernization of Indian Tradition: A Systemic Study of SocialChange*. India: Rawat Publications.
19. Gupta, D. (2000). *Interrogating caste: understanding hierarchy and difference in Indiansociety*. India: Penguin Books.
20. Rege, S. (1996). *Caste and Gender: The Violence Against Women in India*. Italy:European University Institute.
21. Madhav Khosla. *The Indian Constitution*. New Delhi, Oxford University Press, 2012.
22. Ramachandra Guha. *Makers of Modern India*. Cambridge, Mass., The Belknap Press ofHarvard University Press, 2013.
23. Thapar, Romila. *Indian Cultures as Heritage: Contemporary Pasts*. London, SeagullBooks, 2021.
24. Venkataraghavan Subha Srinivasan. *The Origin Story of India's States*. Penguin RandomHouse India Private Limited, 25 Oct. 2021.
25. J Sai Deepak. *India That Is Bharat : Coloniality, Civilisation, Constitution*. New Delhi,Bloomsbury, 2021.

Major Disciplinary Course (MJD) 2
MACRO ECONOMICS I

Semester: II
Credits: 4

UNIT I: INTRODUCTION

Nature and Scope of Macro Economics – Micro Economics Vs. Macro Economics – Importance of Macro Economics – Economic Models – Variables – Relationships – Statics – Comparative Statics and Dynamics – Stock and Flow.

UNIT II: NATIONAL INCOME

Meaning – Concept of National Income – GNP, GDP, NNP, NI, PI, DPI, PCI – Methods – Difficulties – Significance – Circular Flow of Income in Two and Four Sector Model – National Income and Economic Welfare.

UNIT III: CLASSICAL THEORY

The Classical Theory of Output and Employment – Say's Law – Pigou's Effect – Criticisms of Classical Model – Classical Dichotomy.

UNIT IV: KEYNESIAN THEORY

The Principle of Effective Demand – Aggregate Demand Function – Aggregate Supply Function – Determination of Under Employment Equilibrium – Determinants of Aggregate Demand – Government and Aggregate Demand.

UNIT V: CONSUMPTION FUNCTION

Psychological Law of Consumption – APC - MPC – Determinants of Consumption – Theories of Consumption – Absolute Income Hypothesis – Relative Income Hypothesis – Life Cycle Hypothesis – Permanent Income Hypothesis.

Suggested Readings:

1. M.L. Jhingan: "Macro Economic Theory", Vrinda Publications.
2. D.N. Dwivedi: "Macro Economics: Theory and Policy", Tata McGraw Hill Publications.
3. Gregory Mankiw: "Principles of Macro Economics", Cengage Learning India Pvt.Ltd.

Minor Disciplinary Course (MID) 2

SOCIETY AND ECONOMY

Semester: II

Credits: 4

UNIT I: NATURE AND HUMAN SOCIETY

Social Economics - Human and society - Geographical distributions – Basic needs of Human - Scarcity / abundance of land and water - Contestations over resources - Evolution of culture - Culture as the foundation for socio-economic structures.

UNIT II: SYSTEM OF RESOURCES ALLOCATION AND USE

People and their Systems of allocation and use - Land, Water, agriculture and production and ideas of demand and supply of resources and the resultant production of goods.

UNIT III: SOCIAL INSTITUTIONS AND ACCESS TO RESOURCE

Functions of villages - Caste, class, family, kinship, and their role by women and individual's access to resources, occupation, and remuneration, and ability to participate in market for their needs and produce.

UNIT IV: STATE, MARKET AND RESOURCE ALLOCATION

Emergence of State, Market, and Access to Productive resources, education and employment and the resultant livelihood patterns of people – Access by Indian women.

UNIT V: SOCIO-ECONOMIC ISSUES AND REMEDIES

Poverty, Housing, Illiteracy, Unemployment, Food Supplies - Child labour, gender inequality – Socio-economic welfare programmes – Women Empowerment Programmes - Role of Economist and remedies to issues.

Suggested Readings:

1. Knowles, R and Wareing, J (1996): "Economic and Social Geography", Rupa & Co, Delhi.
2. Guha, Ramachandra (2011) (edited): "Social Ecology", Oxford University Press, New Delhi.
3. Ludden, David E (1993): "Peasant history in South India", Oxford University Press, Delhi,
4. Lakshmi Narasu, P (2003): "A Study of Caste, Asian Educational Services", New Delhi.
5. Moon, Vasant edited Writings and Speeches of Dr. B.R. Ambedkar Volumes 1, 2, 5 and 7, Education Department, Government of Maharashtra.
6. Deshpande, Satish. (2004): "Contemporary India: Sociological Perspectives", New Delhi: Sage Publications.
7. Harriss, John. (1982): "Capitalism and Peasant Farming: Agrarian Structure and Ideologies in Northern Tamil Nadu", New Delhi: OUP.
8. Barbara Harriss White (2003): "India Working: Essays on Economy and Society", Cambridge University Press.
9. Mosse, David: "The Rule of Water: Statecraft, Ecology and Collective Action in South India", Oxford University Press, New Delhi, 2003.
10. Ludden, David E (1978a): "Ecological Zones and the Cultural Economy of Irrigation in Southern Tamilnadu", Journal of South Asian Studies, New Series Vol. I, No. 1.

**Interdisciplinary/Multidisciplinary Minor MLD 2
(Offered for students of other Departments)**

UNDERSTANDING ECONOMICS

**Semester: II
Credits: 3**

UNIT I: EXPLORING SUBJECT MATTER OF ECONOMICS

Meaning of Economics - Nature and Scope of Economics, Positive vs. Normative economics - Methods of economic analysis - Economic systems – Basic Economic problems - Basic concepts of Economics.

UNIT II: BASIC BUILDING BLOCKS OF ECONOMICS

Meaning and scope of Microeconomics - Theory of consumer behavior - wants, characteristics and classification of wants - Concept of utility - Law of diminishing Marginal Utility and - consumer surplus.

UNIT III: EQUILIBRIUM PRICE AND MARKET EQUILIBRIUM

Demand and Supply curve - Equilibrium price meaning - Determinants of market equilibrium - Concepts of elasticity – Elasticity of Demand – Elasticity of Supply.

UNIT IV: PRODUCTION AND MARKET STRUCTURE

Factors of production - Land, Labor, Capital and Organization - Opportunity cost and Production Possibility Curve - Introduction to market Forms and structure.

UNIT V: WORKING OF AN ECONOMY

Meaning of Macroeconomics - Circular flow of Income – Basic concept of Keynesian Economics - Measurement of key Macro Economic variables - National Income, Price, Inflation and Employment.

Suggested Readings:

1. Case, K. E., Fair, R.C. & Oster, S. E. (2017): "Principles of Economics", 12th edition, Pearson.
2. Mankiw, N. G. (2018): "Principles of Economics", 8th edition, Cengage.
3. Stiglitz, J.E. & Walsh, C.E. (2006): "Principles of Economics", 4th Edition, W.W. Norton & Company.
4. Hayne, P. (1998): "Economic Way of Thinking", Prentice Hall.

Skill Enhancement Course (SEC) 2
FUNDAMENTALS OF ENTREPRENEURSHIP

Semester: II
Credits: 3

UNIT I: INTRODUCTION

Concepts – Entrepreneurship – meaning of entrepreneur – types of entrepreneur – Discovering an opportunities – Decision making – Wealth based theories, knowledge based theories and Technology based Theories – Role of Entrepreneurs on Economic growth and development.

UNIT II: ECONOMIC ASPECT OF BUSINESS IDENTIFICATION

Method of Project Identification and Selection - Ventures and Start-ups – Sources of Finance – Environmental Skimming , Pitfalls in assessing and identifying business opportunities.

UNIT III: FEASIBILITY ANALYSIS OF THE PROJECT

Feasibility analysis: Product, Firm, Industry, Financial, Technical and Operational Feasibility – importance of Feasibility Analysis.

UNIT IV: BUSINESS PLAN AND BUSINESS PROPOSAL

Meaning – types of business plan and Business proposal – Formulating business plan and projects – difference between business plan and business proposal – importance of business plan – Errors in formulating Business plan and projects.

UNIT V: PROBLEMS OF ENTREPRENEURS AND INSTITUTIONAL SUPPORT

Common problems of Entrepreneurs in developing countries – Problems of women entrepreneurs, rural entrepreneurs in India – Role of Institutions in Entrepreneurial development :Industrial Finance Corporation of India – The Industrial Credit and Investment Corporation of India – The Industrial Development Bank of India – District Industrial Centre .

Suggested Readings:

1. Simon C.Prket: “The Economics of Entrepreneurship”, Cambridge University Press.2nd Edition, 2018.
2. Robert D.Hisrich, Michael P. Peters. Dean A. Shepherd and Sabyasachi Sinha: “Entrepreneurship”, McGraw Hill.11th Edition, 2020.
3. David H Holt: “Entrepreneurship – New Venture”, Creation.Person Education, 1st Edition, 2016.
4. Norman Scarborough and Jeffrey Cornwall: “Essentials of Entrepreneurship and small business management”, Pearson Education. 8th Edition.2016.

VALUE ADDED COURSE VAC 3
DIGITAL TECHNOLOGY
(University Common Syllabus)

Semester: II
Credits: 2

Unit No.	Course Content	Hours
Theory Component		
Unit I	Introduction & Evolution of Digital Systems. Role & Significance of Digital Technology. Information & Communication Technology & Tools. Computer System & its working, Software and its types. Operating Systems: Types and Functions. Problem Solving: Algorithms and Flowcharts.	7
Unit II	Communication Systems: Principles, Model & Transmission Media. Computer Networks & Internet: Concepts & Applications, WWW, Web Browsers, Search Engines, Messaging, Email, Social Networking. Computer Based Information System: Significance & Types. E-commerce & Digital Marketing: Basic Concepts, Benefits & Challenges.	7
Unit III	Digital India & e-Governance: Initiatives, Infrastructure, Services and Empowerment. Digital Financial Tools: Unified Payment Interface, Aadhar Enabled Payment System, USSD, Credit / Debit Cards, e-Wallets, Internet Banking, NEFT/RTGS and IMPS, Online Bill Payments and PoS. Cyber Security: Threats, Significance, Challenges, Precautions, Safety Measures, & Tools, legal and ethical perspectives.	7
Unit IV	Emerging Technologies & their applications: Overview of Cloud Computing, Big Data, Internet of Things, Virtual Reality,	7
Unit V	Emerging Technologies & their applications: Blockchain & Cryptocurrency, Robotics, Machine Learning & Artificial Intelligence, 3-D Printing, Digital Signatures.	7
Practical Component		
Practice	1. Operating System Installation and configuration 2. Application Software Installation and configuration 3. Hardware understanding and minor troubleshooting 4. Networking, cabling, configuration	10
Recommended Learning Resources		
Print Resources	Pramod Kumar, Anuradha Tomar, R. Sharmila, "Emerging Technologies in Computing - Theory, Practice, and Advances", Chapman and Hall / CRC, 1st Edition, 2021, eBook ISBN: 9781003121466. https://doi.org/10.1201/9781003121466. V. Rajaraman, "Introduction to Information Technology", PHI, 3rd Edition, 2018, ISBN-10: 9387472299, ISBN-13: 978-9387472297. 3. E. Balagurusamy, "Fundamentals of Computers", Tata Mc GrawHill, 2nd Edition, 2011, ISBN: 9780071077880. 4. Behrouz A. Forouzan, "Data Communications and Networking", McGraw Hill, 4th Edition, 2007, ISBN 978-0-07-296775-3. 5. Rajkumar Buyya, James Broberg, and Andrzej Goscinski, "Cloud Computing-Principals and Paradigms", Wiley, 2011, ISBN: 978-0-470-88799-8. 6. Stuart Russel and Peter Norvig, "Artificial Intelligence - A Modern Approach", Pearson Education, 3rd Edition, 2010, ISBN- 13: 978-0-13 -604259-4.	

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| | <ol style="list-style-type: none">7. Samuel Greengard, "Internet of Things", The MIT Press, 2015, ISBN: 9780262328937, https://doi.org/10.7551/mitpress/10277.001.0001.8. C.S.V. Murthy, "E- Commerce – Concept, Models &Strategies", Himalaya Publishing House, 2015, ISBN: 8178662760.9. Hurwith, Nugent Halper, Kaufman, "Big Data for Dummies", Wiley & Sons, 1st Edition, 2013, ISBN-13: 978-1118504222. |
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PONDICHERRY UNIVERSITY

DPES: VALUE ADDED COURSE FOR 3 & 4 YEAR UG

HEALTH & WELLNESS, YOGA EDUCATION, SPORTS AND FITNESS

Credits: 2

Learning Objectives:

- Describing Health & Wellness programs and services offered, how to access them, and their value to their well-being.
- Learn that principles of nutrition are all important parts of overall wellness.
- To learn the basic concept of wellbeing.
- Demonstrate how to get healthy and stay healthy using multiple strategies.
- Identify healthy behaviors and practices that help to avoid and reduce health risks.
- Yoga education to practice mental hygiene.
- Yoga education to integrate moral values
- Yoga education to possess emotional stability.
- Learn the physical fitness management.

UNIT-I HEALTH & WELLNESS

Define and differentiate health and wellness - Components of health wellness and their relationship between physical activity - Local, demographic, societal issues and factors affecting health and wellness.

Diet and nutrition for health & wellness - Essential components of balanced diet for healthy living with specific reference to the role of carbohydrates, proteins, fats, vitamins & minerals - malnutrition, under nutrition and over nutrition.

UNIT-II MANAGEMENT OF HEALTH AND WELLNESS

Meaning & importance of various dimensions of wellness. Relationship of physical fitness in achieving wellness. Drugs, doping and wellness. Role of diet and exercise in health management.

UNIT-III YOGA EDUCATION

Meaning and definition of yoga and its aims and objectives - Basic principles of yoga and its importance in our daily life - Yoga for mental attitude - Mind, body, breath and emotional level for higher plan of living.

UNIT-IV YOGA PRACTICES

Types and limbs of yoga - Yoga postures – Asana - Breathing Practices – Pranayama - Relaxation-Meditation - Mudra.

UNIT-V FITNESS ACTIVITIES

Types of fitness activities - Outdoor activities – Basic movement patterns. Indoor activity – Aerobics/Dance Fitness, Resistance Training for fitness.

Reference:

1. Physical Activity and Health by Claude Bouchard, Steven N. Blair, William L. Haskell. 2. Mental Health Workbook by Emily Attached & Marzia Fernandez, 2021.
2. Mental Health Workbook for Women: Exercises to Transform Negative Thoughts and Improve WellBeing by Nashay Lorick, 2022
3. Lifestyle Diseases: Lifestyle Disease Management, by C. Nyambichu & Jeff Lumiri, 2018.

PONDICHERRY UNIVERSITY

DPES: VALUE ADDED COURSE FOR 3 & 4 YEAR UG

HEALTH & WELLNESS, YOGA EDUCATION, SPORTS AND FITNESS

Credits: 2

4. Physical Activity and Mental Health by Angela Clow & Sarah Edmunds, 2013.
5. The Fitness Mindset by Brian Keane
6. Health Promotion: Mobilizing Strengths to Enhance Health, Wellness, and Well-being [1 ed.] F.A. Davis Company.
7. Yoga RX: A Step-by-Step Program to Promote Health, Wellness, and Healing for Common Ailments, Broadway.
8. Advanced Hatha Yoga: Classic Methods of Physical Education and Concentration [1 ed.], Inner Traditions.
9. Yoga and Physical Education, National Council of Educational Research and Training (NCERT), India.
10. Wealth First: Winning at Weight Loss and Wellness.
11. Administration of Health and Physical Education Programme. Bucher, Charles A.
12. Treaties of Hygiene and Public Health, Ghosh, B.N.
13. Principles of Public Health Administration 2003, Hanlon, John J.
14. The School Health and Health Education, Turner, C.E.
15. Health Education (National Education Association of U.T.A.), Moss et. al.
16. The School Health Education (Harber and Brothers, New York), Nemir A.
17. Nutrition Encyclopedia, edited by Delores C.S. James, The Gale Group, Inc.
18. The Stone Age Health Programme: Diet and Exercise as Nature Intended. Angus and Robertson, Boyd-Eaton S. et al (1989)
19. Stress, How Your Diet can Help: The Practical Guide to Positive Health Using Diet, Vitamins, Minerals, Herbs and Amino Acids, Thorons, Terras S. (1994).

Major Disciplinary Course (MJD) 3
MICRO ECONOMICS II

Semester: III
Credits: 4

UNIT I: COST AND REVENUE

Types of Costs – Short Run and Long Run Cost Curves – Revenues – Average and Marginal Revenues – Relation between AR and MR Curves – AR, MR and Elasticity – Conditions for Equilibrium of a Firm.

UNIT II: MARKET STRUCTURE AND EQUILIBRIUM - I

Perfect Competition – Characteristics – Equilibrium of a Firm – Short Run and Long Run – Imperfect Competition – Price and Output Determination under Monopoly – Price Discrimination and Measure of Monopoly Power – Control and Regulation of Monopoly.

UNIT III: MARKET STRUCTURE AND EQUILIBRIUM - II

Monopolistic Competition – Features of Monopolistic Competition – Price and Non-Price Competition – Group Equilibrium – Oligopoly – Features of Collusive Oligopoly – Price Leadership – Kinked Demand Curve.

UNIT IV: THEORY OF DISTRIBUTION - I

Marginal Productivity Theory of Wages – Types of Wages – Theories of Wages – Rent – Ricardian Theory and Modern Theory of Rent – Quasi-rent.

UNIT V: THEORY OF DISTRIBUTION – II

Interest – Loanable Fund Theory and Keynes Liquidity Preference Theory – Profit – Gross and Net Profit – Innovation, Risk and Uncertainty Theories.

Suggested Readings:

1. Koutsoyiannis.A (2010): “Modern Micro Economics”, Tata McGraw Hill.
2. Ahuja. H.L., (2012): “Principles of Micro Economics”, Chand and Company Ltd, New Delhi.
3. Jhingan. M.L., (2010): “Micro Economic Theory”, Vrinda Publications (P) Ltd., Delhi.
4. Stonier A.W., and Hague D.C.: “A Text Book of Economic Theory”, ELBS & Long Man Group, London.
5. Trivedi D.N.: “Micro Economic Theory and Policies”, (3rd edition), Tata McGraw Hill Education Private Ltd., New Delhi.

Major Disciplinary Course (MJD) 4
MATHEMATICAL METHODS FOR ECONOMICS

Semester: III
Credits: 4

UNIT I: INTRODUCTION

Elementary Algebra – Linear and Non-Linear Equations – Sets and Set Operations – Functions and Graphical Representations – Slope and Intercept – Straight Line and its applications.

UNIT II: DERIVATIVE OF A FUNCTION

Rate of Change and Derivative – Rules of Differentiation for a function of one variable – Applications in Total, Average and Marginal functions – Higher order differentiation – Differential Calculus of two variables – Partial and Total Differentiation.

UNIT III: OPTIMIZATION

Maxima and Minima of one variable – Point of Inflexion – Maxima and Minima of two variables – Consumer's Equilibrium – Cardinal Utility Approach and Indifference Curve Approach – Producer's Equilibrium – Elasticity of Demand – Relationship between TR, AR, MR and Elasticity.

UNIT IV: MATRICES AND DETERMINANTS

Matrices – Concepts and Types – Matrix Algebra – Transpose – Determinants and its properties – Inverse – Solution to system of equations using Matrix Inversion Method and Cramer's Method – Input-Output Model – Concepts and Solution for Equilibrium output in a two-industry model.

UNIT V: INTEGRATION

Rules of Integration – Definite Integration – Application of Integration in Economics: Cost functions and Revenue functions – Consumer and Producer Surplus.

Suggested Readings:

1. Alpha C. Chiang & Kevin Wainwright: "Fundamental Methods of Mathematical Economics", McGraw Hill Companies, Inc.
2. Bose.D: "An Introduction to Mathematical Economics", Himalaya Publishing House, Mumbai.
3. Geoff Renshaw: "Maths for Economics", Oxford University Press.
4. Knut Sydsaeter, Peter J. Hammond: "Mathematics for Economic Analysis", Prentice Hall.

Minor Disciplinary Course (MID) 3

BANKING AND INSURANCE

Semester: III

Credits: 4

UNIT I: INTRODUCTION

Bank - Meaning and definition – Origin and growth of Banking in India - Types of commercial banks in India - Functions of RBI- Functions of commercial bank - Types of deposits- Banker and customer relationships – Meaning, definition & functions of Investment Banking, Microfinance institutions, Payment Banks, Small Finance banks.

UNIT II: BANKING LENDING

Types of advances - Principles of sound lending - Concept and Classification of NPA - Remedies to NPA - Process and Limitations of Multiple Credit Creation - RBI Credit Control Instruments.

UNIT III: INTERACT BANKING

Meaning, Merits and Demerits of – Home banking - Mobile banking - Virtual banking - E-payment – Biometric card - Smart card - ATM card - Debit Card - Credit card –IMPS- NEFT- RTGS – UPI - ECS (credit/debit) - E-money - Electronic purse - Digital cash - MICR.

UNIT IV: NEGOTIABLE INSTRUMENTS

Meaning, definition & characteristics of Promissory note, Bill of Exchange, Cheque - Meaning and types of Crossing and Endorsement – Concept of holders in due course.

UNIT V: RISK AND INSURANCE

Basic concept of risk - risk assessment and transfer -Types of business risk -Meaning, definition & characteristics of Insurance- Types of Insurance - Basic principles of Insurance -Utmost good faith - Insurable Interest - Indemnity - Economic Function - Proximate Cause -Subrogation and contribution – Power and functions of IRDA - Bancassurance.

Suggested Readings:

1. Agarwal O.P.: “Banking and Insurance”, Himalaya Publishing House.
2. Satyadevi C. (2009): “Financial Services: Banking and Insurance”, S. Chand & Company Ltd.
3. Suneja H.R.: “Practical and Law of Banking”, Himalaya Publishing House.
4. Sayers, R.S. (1978): “Modern Banking”, (7th Edition), Oxford University Press, Delhi.
5. Bharati Pathak (2009): “The Indian Financial System”, Pearson Education Publication New Delhi.
6. Bhole, L.M. (2000): “Indian Financial System”, Chugh Publications, Allahabad.
7. Machiraju, M.R. (1999): “Indian Financial Systems”, Vikas Publishing House, New Delhi.
8. Mathur B.S: “Co-operation in India”, Sahitya Bhawan, Agra 1991.
9. Patnaik Umesh(1992): “Introduction to Cooperation Management”, Kalyani Publisher N.Delhi.
10. Kulkarni K.R.: “Theory and Practice of Cooperation in India and Abroad- I, II, III”.

Interdisciplinary/Multidisciplinary Minor 3
(Offered for students of other Departments)
BASIC ECONOMIC CONCEPTS AND MEASUREMENT

Semester: III
Credits: 3

UNIT I: INTRODUCTION TO ECONOMICS

Economic problems and household management - Scope of economics - Economic systems - Optimization with constraints in economic analysis.

UNIT II: ECONOMIC PRINCIPLES AND FOUNDATIONS

Basic principles of economics - Microeconomics vs. Macroeconomics - Normative vs. Positive Economics.

UNIT III: CONSUMER ANALYSIS IN MICRO ECONOMICS

Basic concepts and measurement: Utility, tastes and preferences, types of goods - Income, wealth, prices of goods and services - Utility maximization – Elasticity concepts.

UNIT IV: PRODUCER ANALYSIS AND MARKET STRUCTURES

Basic concepts and measurement: Labour, Capital, technology - Factor productivity, revenue, cost, profit, returns to scale - Economies and diseconomies of scale - Different market structures and forms.

UNIT V: MACROECONOMIC CONCEPTS AND INDICATORS

Measurement of standard of living and national income accounting - Circular flow of income - Major socioeconomic indicators and cost of living indicators - Key macroeconomic variables: Saving, investment, interest rate, money, inflation, balance of payments, foreign exchange rate.

Suggested Readings:

1. Abel, Bernanke and Croushore: "Macroeconomics", Pearson Education, 8th Edition, 2013.
2. Case, K.E. and Fair, R.C: "Principles of Economics", Pearson Publisher, 8th Edition, 2013.
3. Dornbusch, R., Fischer, S. and Startz, R: "Macroeconomics", Tata McGraw Hill, 12th Edition, 2018.
4. Samuelson and Nordhaus: "Economics", TATA McGraw Hill, 20th Edition, 2019.

Skill Enhancement Course (SEC) 3
ECONOMICS OF CO-OPERATIVE SOCIETIES

Semester: III
Credits: 3

UNIT I: INTRODUCTION

Origin of Co-operative Movement - Meaning and Definition of Co-Operation – Features of Co-Operation - Manchester Co-Operative Principles - Meaning and Need of Cooperative Audit - Role of State in the Development of Co-Operative Movement - International Co-Operative Alliance (ICA) - Organization and Functions.

UNIT II: CO-OPERATIVE CREDIT STRUCTURE IN INDIA

Primary Agricultural Credit Co-operative Societies - District Central Co-operative Banks - State Co-operative Bank - Urban Co-operative Banks - Functions and Importance.

UNIT III: CO-OPERATIVE MARKETING IN INDIA

Need and Importance of Co-operative Marketing in India - Problems and Remedies of Co-operative Marketing - NAFED – Objectives and Functions.

UNIT IV: CO-OPERATIVE PROCESSING SOCIETIES IN INDIA

Role of Co-operative processing societies in rural development - Sugar Co-operatives, Dairy Co-operatives - Problems and Remedies - Women Empowerment through Co-operative Processing Societies.

UNIT V: ROLE OF NATIONAL INSTITUTIONS IN CO-OPERATIVE MOVEMENT

National Bank for Agricultural and Rural Development (NABARD) - National Co-operative Development Corporation (NCDC) - National Co-operative Union of India (NCUI) - Role and Importance.

Suggested Readings:

1. Bedi R.D: "Theory, History and Practice of Co-operation", Loyal Book Depot, Meerut.
2. Dutt and Sundaram: "Indian Economy", S. Chand and Company, New Delhi.
3. Dr. C. N. Sontakki: "Co-operative Development", Sheth Publication Mumbai.
4. Hajela T. N: "Principles, Problems and Practice of Co-operation", Shivalal Agarwal Publication, Agra.
5. Mathur B.S: "Co-operation in India", Sahitya Bhavan, Agra.
6. Mukhi H. R.: "Co-operation in India and Abroad", R. B. Publications.
7. Dr. Memoria C.B & Saksena R. D: "Co-operation in India", KitabMahal Allahabad.
8. Karve D.G: "Co-operation: Principles and Substance", Gokhale Institute of Politics and Economics, Studies Series 54.

Major Disciplinary Course (MJD) 5
MACRO ECONOMICS II

Semester: IV
Credits: 4

UNIT I: INVESTMENT FUNCTION

Meaning – Types – Autonomous and Induced – Determinants of Investment – Marginal Efficiency of Capital and Rate of Interest – Factors Influencing MEC – Criticism.

UNIT II: MULTIPLIER

Meaning – Working – Leakages – Importance – Types - Employment Multiplier – Foreign Trade Multiplier – Balanced Budget Multiplier.

UNIT III: SUPER MULTIPLIER

Simpler Accelerator – Working of Accelerator – Leakages Effect.

UNIT IV: IS - LM MODEL

Goods Market Equilibrium – IS Curve – Shift in IS Curve – Money Market Equilibrium – LM Curve – Shift in LM Curve – Simultaneous Equilibrium of Goods and Money Market Equilibrium – Criticism.

UNIT V: KEYNESIAN ECONOMICS AND UNDER DEVELOPED ECONOMIES

Causes and Nature of Unemployment in Under Developed Countries – Unrealistic Assumptions made in Keynesian Theory – Keynesian Multiplier and Under Developed Countries – Relevance of Keynesian Theory of Growth in Under-Developed Countries.

Suggested Readings:

1. M.L. Jhingan: "Macro Economic Theory", Vrinda Publications.
2. D.N. Dwivedi: "Macro Economics: Theory and Policy", Tata McGraw Hill Publications.
3. Gregory Mankiw: "Principles of Macro Economics", Cengage Learning India Pvt. Ltd.
4. Vaish M.C. (2000): "Macro Economic Theory", Wiley Eastern Ltd., New Delhi.
5. Mithani, D.M., (1981): "Macro Economic Analysis and Policy", Oxford & IBH, New Delhi.

Major Disciplinary Course (MJD) 6
STATISTICAL METHODS FOR ECONOMICS

Semester: IV
Credits: 4

UNIT I: INTRODUCTION

Definition – Scope and Limitations – Data: Quantitative and Qualitative – Nature of Data: Time Series, Cross-Section and Panel – Sources of Data: Primary and Secondary – Methods of Collecting Data: Census and Sampling – Diagrammatic and Graphical Representation of Data.

UNIT II: MEASURES OF CENTRAL TENDENCY AND DISPERSION

Measures of Central Tendency: Mean – Median – Mode – Geometric Mean – Harmonic Mean – Merits and Demerits of Measures of Central Tendency - Absolute and Relative Dispersion - Range – Quartile Deviation – Mean Deviation – Standard Deviation – Lorenz Curve.

UNIT III: CORRELATION AND REGRESSION

Concept of Correlation – Types of Correlation – Coefficient of Simple Correlation – Properties – Karl Pearson's Correlation Coefficient – Spearman Rank Correlation – Regression Analysis – Regression Lines – Regression Equation X on Y and Y on X.

UNIT IV: TIME SERIES ANALYSIS

Definition – Components of Time-Series – Measurement of Trend – Semi-Average - Moving Average – Method of Least Squares.

UNIT V: INDEX NUMBERS

Meaning – Uses – Types – Weighted Index Numbers : Laspeyre's – Passche's – Fisher's – Problems in constructing Index Numbers – Special Purpose Index Number: Consumer Price Index.

Suggested Readings:

1. Anderson, D.R., et.al.(2018): "Statistics for Business & Economics", 13th edition, Cengage.
2. Doane, D & Seward, L.(2022): "Applied Statistics in Business and Economics", 7th edition, McGraw Hill.
3. Gupta, S.C & Kapoor, V.K.(2020): "Fundamentals of Mathematical Statistics", 12th edition, Sultan Chand & Sons.
4. Pillai, R.S.N & Bagavathi (2018): "Statistics Theory and Practice", S Chand and Company Limited.

Major Disciplinary Course (MJD) 7
ENVIRONMENTAL ECONOMICS

Semester: IV
Credits: 4

UNIT I: ECONOMICS AND ENVIRONMENT

Nature and significance of Environmental Economics – Definition and Scope of Environmental Economics – Market System and the environment – Welfare and environment – Economics of externalities.

UNIT II: ENVIRONMENTAL PROBLEMS

Population and Urbanization - Industrialization and Environment – Air Pollution, Water Pollution, Noise Pollution – Energy use and environment problems – Environmental degradation.

UNIT III: CLIMATE CHANGE

Climate Change, Green House Effect, Global Warming, Depletion of Ozone Layer -Acid Rain Impact on Human Community and Agriculture and Human Health Issues.

UNIT IV: ENERGY

Definition - Sources of energy and their Classification - Renewable and Non-renewable Sources of energy - Conventional and Non-Conventional energy resources - Direct and Indirect energy- Atomic energy - Energy scenario in India.

UNIT V: POLICY MEASURES FOR POLLUTION CONTROL

Prevention - Control Abatement of Pollution - Environmental Legislation - Indicators of Sustainable Development – Indian Environment Policies & Performance – Pollution Control Boards and their functions.

Suggested Readings:

1. Lodha, S.L (ed.)(1991): “Economics of Environment”, Publishers, New Delhi.
2. Charler. D. Kolstad (2000): “Environmental Economics”, Oxford University Press, New York.
3. M.Karpagam(2013): “Environmental Economics”, Sterling Publishers, New Delhi.
4. S.Sankaran(2012): “Environmental Economics”, Margham Madras.
5. N.Rajalakshmi and Dhulasi Birundha(1994): “Environomics”, Economic Analysis of Environment Allied Åhmadabad (346).
6. Varadarajan and S.Elagovan(1992): “Environmental Economics”, Speed, Chennai.
7. The Hindu Survey of Environment Annual Reports.

Minor Disciplinary Course (MID) 4

POPULATION STUDIES

Semester: IV

Credits: 4

UNIT I: INTRODUCTION

Population study and demography - Relation with other disciplines - Crude birth and death rates, age specific birth and death rates, standardized birth and death rates - Study of Fertility - Total Fertility Rate, Gross Reproduction Rate, and Net Reproduction Rate — Study of marital status.

UNIT II: THEORIES OF POPULATION

Theories of Population - Malthus, Optimum theory of population and Theory of Demographic Transition - Historical evidence of population growth in developed and developing countries.

UNIT III: SOURCES OF DEMOGRAPHIC DATA AND ANALYSIS

Sources of Demographic data in India: Census - Civil registration system and Demographic surveys - National Family Health Survey 1 and 2 - Relative merits and demerits.

UNIT IV: POPULATION PROJECTION

Techniques of population projection - Concept of stationary, stable and quasi-stationary population - Aging of population in India - Changes in family structure and old age security - Salient features of Population Censuses of 1971, 1981, 1991, 2001 and 2011.

UNIT V: POPULATION POLICY

Evolution of population policy in India - Shift in policy focus from population control to family welfare and to women empowerment - Demographic status and household behavior – Education women's autonomy and fertility- Population, health, poverty and environment linkage in India - Migration - Urbanization - The New population Policy.

Suggested Readings:

1. Agarwal, S.N. (1985): "India's Population Problem", Tata McGraw-Hill, Bombay.
2. Bhende, A. and T.R. Kanitkar (1982): "Principles of Population Studies", Himalaya Publishing House, Bombay.
3. Agarwala, U.D. (1999): "Population Projections and their Accuracy", B.R. Publishing Corporation, New Delhi.
4. Bogue, D. J. (1971): "Principles of Demography", John Wiley, New York.
5. Bose, A. (1996): "India's Basic Demographic Statistics", B.R. Publishing Corporation, New Delhi.
6. Census of India, Government of India, Various Reports, New Delhi.
7. Choubey, P.K. (2000): "Population Policy in India", Kanishka Publications, New Delhi.
8. Misra, B.D. (1980): "An Introduction to the Study of Population", South Asian Publishers, New

COMMUNITY ENGAGEMENT AND SERVICE

Semester: IV

Credits: 2

UNIT I: UNDERSTANDING RURAL SOCIETY AND INSTITUTIONS

Introduction to Rural Society: Social, Economic, Political, and Cultural Aspects – Engagement Mechanisms: Schools, Health Centres, Panchayat, Self-Help Groups (SHGs).

UNIT II: MAPPING RESOURCES AND MANAGING DISASTERS

Mapping Natural and Human Resources - Disaster Preparedness – Risk Reduction roles and responsibilities – Rehabilitation: Physical and Psychological Aspects.

UNIT III: PROMOTING COMMUNITY HEALTH AND PROFESSIONAL INTERVENTIONS

Awareness Campaigns: Health & Hygiene, Rights, Policies and Programmes – Addressing Corruption – Engaging Public, Private and Non-governmental Organizations

UNIT IV: ENGAGING IN PRACTICAL FIELDWORK

Practical Details: Continuous Engagement in Rural Communities – Issue-based Workshops for Resource Management and Emergency Response – Ongoing Disaster Risk Reduction Programs.

UNIT V: DEVELOPMENT AND POLICY INTEGRATION

Interactive Awareness Programmes with Community Experts and Village Leaders on PRA – Interactive Community Consensus on Village Development Planning.

Suggested Readings:

1. Thomas Nixon Carver (2016), *"Principles of Rural Economics"*, Ginn and Company
2. Frank Ellis and H.Ade Freeman (2005), *"Rural Livelihoods and Poverty Reduction Policies"*, Routledge.
3. Study material available at: <http://www.mgncre.org/pdf/Rural%20Engagement%20Material.pdf>

Practicum Details

Every Saturday or continuously for two weeks, students are expected to be engaged in the rural community to take up the following activities for developing field perspective on rural resource management, issue-based work and complex emergencies. The students are mandatorily required to engage in on-going Disaster Risk Reduction/Response programmes in the respective locations.

1. Interactive Awareness programs with community experts and village leaders with PRA.
2. Interactive community exercise with community experts and village leaders on Village Development Planning.
3. Involving students in the literacy programmes of selected village.
4. Conducting training programmes with Self-Help Groups and government officials for training in different vocations and developing skills.
5. Conducting information collection, collation and use (Data Management) workshops with the help of school resources of the selected villages and Self Help Groups.
6. Identifying the committees and establishing the committees with the help of village level officers.
7. Establishing village networks with the help of village level officers and district officials.
8. Conducting / facilitating health camps and campaigns.
9. Reporting the health concerns of the villagers, drainage system of the village and health habits of the villagers to the concerned authorities and facilitating address of these concerns.
10. Organizing orientation on preparing a system for community plantation management

and community water management.

11. Creating awareness about the climatic change hazards in the villagers and inputs on how to address the same.

12. Organizing awareness programmes relating to water, soil fertility management, energy management.

Assessment

1. This is a two credit add-on course, with one-hour theory class and one practical class of two hours per week for one semester

2. Focus will be on engaging in study and capacity building for promoting the rural community resilience to disaster risks and climate change and assumption of eco responsibility.

3. The emphasis is more on the practical orientation of the student.

Major Disciplinary Course (MJD) 8
INTRODUCTION TO INTERNATIONAL ECONOMICS

Semester: V
Credits: 4

UNIT I: BASIC CONCEPTS

Importance and Subject Matter of International Economics – Absolute Advantage Theory – Comparative Advantage Theory – Heckscher-Ohlin Theory - Exchange Rate Systems – Fixed & Flexible.

UNIT II: TERMS OF TRADE

Different Measures of Terms of Trade – Factors Affecting the Terms of Trade – Secular Deterioration of Terms of Trade.

UNIT III: TRADE POLICIES AND ISSUES

New Economic Policy 1991 – LPG - Free Trade vs. Protection – Trade Barriers – Tariff and Non-Tariff Barriers – Effective of Tariff and Quota – International Capital Flows – Classification – FDI - Significance and Role of Foreign Capital – Outsourcing and Multinational enterprises.

UNIT IV: BALANCE OF PAYMENT AND ADJUSTMENTS

Balance of Trade and Balance of Payment – Balance of Payments on Current and Capital Account – Equilibrium and Disequilibrium of Balance of Payments – Reasons and Adjustment Mechanisms.

UNIT V: INTERNATIONAL MONETARY SYSTEM

Gold Standard – Bretton Woods System and its Breakdown - International Liquidity - International Monetary Institutions – IMF, IBRD and WTO.

Suggested Readings:

1. M.L. Jhingan: "International Economics", Vrinda Publications.
2. Francis Cherunilam: "International Economics", Tata McGraw-Hill Publications.
3. Dominic Salvator: "International Economics", Wiley India.
4. Mannur, H.G., (2012): "International Economics", Vikas Publishing House Pvt. Ltd.
5. Paul Krugman and Maurice Obstfeld (2010): "International Economics: Theory and Policy", Pearson Education low-price edition distributed in India by Addison Wesley Longman.

Major Disciplinary Course (MJD) 9
DEVELOPMENT ECONOMICS

Semester: V
Credits: 4

UNIT I: BASIC CONCEPTS OF DEVELOPMENT

Economic Growth and Development - Obstacles to Economic Growth - Growth Indicators in Indian Context - National Income, Per capita Income, GDP its relevance in measuring Economic Growth.

UNIT II: DEVELOPMENT INDICES

Alternative measures of development – Human Development Index - Gender-based development index - International poverty Index - Global Hunger Index - GNH Index - Capital formation- Types merits & demerits of Techniques of production.

UNIT III: THEORIES OF DEVELOPMENT - I

Growth theories and their relevance – Karl Marx - Schumpeter Theory of Innovation - Balance Vs. Unbalanced Growth Theories - Hirschman and Nurkse theories - Lewis Unlimited Supply of Labour Theory of growth.

UNIT IV: THEORIES OF DEVELOPMENT -II

Harrod-Domar Model - Rosenstein Rodan's Big Push Theory - Rostow's Stages of Economic growth - Models of Dualism - Inclusive economic growth models.

UNIT V: INDIAN ECONOMIC DEVELOPMENT

Indian Development Experiences – Problems and issues of development – Inequality, access education, unemployment, urbanisation, transport and network, judicial and political power, and patterns of socio-economic cultural, and political exclusions and development outcomes.

Suggested Readings:

1. Karnati Lingaiah: "Economic growth and Development", S.Chand & Co.Ltd.
2. Michael P.Todaro and Stephen Smith: "Economic Development", Pearson.
3. M.L. Jingham: "The Economics of Development and Planning", Vrinda Publications Pvt. Ltd.
4. Simon Kuznets (1966): "Economic Growth, Rate structure and Spread", Yale University Press.
5. Adam Szirmai (2005): "Dynamics of Socioeconomic Development - An introduction", Cambridge.
6. Amartya Kumar Sen: "Growth Economics", Penguin Harmondsworth.
7. Gerald Meir (2003): "Leading Issues in Economic Development", Oxford University Press.
8. A.P. Thirwall (1994): "Growth and Development", ELBS.
9. Richard Peet and Elaine Hartwick (1999): "Theories of Development", New York: Guilford Press.
10. Polanyi, Karl. (1944): "The Great Transformation", Sussex: Beacon Press.

Major Disciplinary Course (MJD) 10
BASIC ECONOMETRICS

Semester: V
Credits: 4

UNIT I: NATURE AND SCOPE OF ECONOMETRICS

Meaning of Econometrics – Relationship between Statistics, Mathematics and Economics – Economic and Econometric models – The aim and methodology of Econometrics – Statistical vs. Deterministic Relationship – Correlation, Regression, and Causation – Terminology and Notation - Scaling and Units of Measurement - Significance of the Stochastic term.

UNIT II: SIMPLE LINEAR REGRESSION MODEL

Specification of the model - Functional forms of the regression model - Ordinary Least Squares (OLS) Estimation - Assumptions of OLS Methods - Properties of OLS estimators - Estimation of the parameters - Gauss-Markov theorem.

UNIT III: MULTIPLE LINEAR REGRESSION MODEL

Statistical Inferences - Theory of estimation and Testing of Hypotheses - Individual and Joint - Confidence intervals - Chi-square, z, t- and F-distributions - ANOVA - Level of significance - Types of error - One tail and two tail tests – Forecasting - Goodness of fit - R^2 and adjusted R^2 - Interpretation of regression coefficients.

UNIT IV: VIOLATIONS OF CLASSICAL ASSUMPTIONS

Violations of Classical Assumptions: Nature, Consequences, Detection and Remedial Measures of Multicollinearity – Heteroscedasticity - Autocorrelation.

UNIT V: ECONOMETRIC MODELLING

Model Specification and diagnostic testing - Omission of a relevant variable, inclusion of irrelevant variable - Tests of specification errors.

Suggested Readings:

- 1 D. N. Gujarati and D.C. Porter: “Basic Econometrics”, McGraw Hill, 4th edition, International Edition, 2009.
- 2 Christopher Dougherty: “Introduction to Econometrics”, Oxford University Press, 3rd edition, Indian Edition, 2007.
- 3 Green, William H.: “Econometrics Analysis”, 6th Edition, Prentice Hall.2008.
- 4 Stock, James H. and Mark, W. Watson (2006): “Introduction to Econometrics”, Second Edition, (Addison-Wesley series in Economics).
- 5 Wooldridge, J.: “Introductory Econometrics: A Modern Approach”, 2015, Nelson Education.
- 6 Johnston J. and Dinardo, J.: “Econometric Methods”, 4th Edition, McGraw-Hill 1997.

Minor Disciplinary Course (MID) 5
WOMEN AND DEVELOPMENT

Semester: V
Credits: 4

UNIT I: INTRODUCTION

Concepts – Gender and Sex - Gender Equity – Gender Inequality – Gender Planning – Gender mainstreaming – Gender Budget – Gender Audit – Women and Development as an Inter-disciplinary subject.

UNIT II: GENDER ISSUES IN THE CONTEMPORARY WORLD

Invisibility in women's work – Missing women – Gender discrimination in Education, Health, Employment, politics and decision making – Gender violence and harassment – Economic inequalities – wage differences - Informalisation and casualization in women's work.

UNIT III: WOMEN EMPOWERMENT AND WOMEN DEVELOPMENT

Meaning of women empowerment – Nature and scope of women empowerment – Importance of women empowerment – The pillars of women empowerment: Education, Training, Networking and Support – History of women empowerment in India – Role of women's rights in women empowerment – Women empowerment programs in India.

UNIT IV: NATIONAL MACHINERIES FOR WOMEN'S DEVELOPMENT

Ministry of Women and Child Development – National Commission for Women – Central Social Welfare Board – Rastriya Mahila Kosh – State Commission for Women – Vishakha Committee.

UNIT V: WOMEN DEVELOPMENT IN PUDUCHERRY

Women status in Puducherry – Understanding Demographic indicators related to gender in Pondicherry: sex ratio, Literacy rate, Life Expectancy Rate, Maternal Mortality rate, Infant mortality rate, and Labour Force Participation rate – Role of child and women development department in Puducherry: Kulavilakku Scheme and Balika Samrithi Yojana.

Suggested Readings:

1. Gita Sen and Canen Crown: "Gender and Class in Development Experiences", Routledge.
2. Lourdes Benerla and Savithri Biswanath: "Gender and Development: Theoretical, Empirical and Practical Approaches".
3. Meler G.M and Rauch J.E (2007): "Leading Issues in Economic Development", Oxford University Press, New Delhi.

Major Disciplinary Course (MJD) 12
LABOUR ECONOMICS

Semester: VI
Credits: 4

UNIT I: INTRODUCTION

Meaning – Characteristics – Types of Labour – Labour Economics as a separate Discipline – Classical, Neo-Classical, Marxism and Institutionalism.

UNIT II: HUMAN CAPITAL

Meaning – Education and Labour Market – Theory of Human Capital – Relation between earning, schooling, education, training and human capital.

UNIT III: WAGE DETERMINATION

Theories of wages – Determination of wages under Monopsony and Bilateral Monopoly – Wage Policy in India.

UNIT IV: LABOUR UNIONS

Meaning – Theories of Trade Union – Functions of Trade Union – Disputes – Causes of Disputes – Effects of Disputes – Settlement of Disputes.

UNIT V: GLOBALIZATION OF LABOUR

Globalization – Hereditary occupations and possibility of labour mobility – Theories of migration – Characteristics and determinants of migration – Globalization and its impact on Labour – International Labour Organization (ILO).

Suggested Readings:

1. Dr. B. P. Tyagi: "Labour Economics and Social Welfare", Jai Prakash Nath & Co., Meerut.
2. Don Bellante and Mark Jackson: "Labor Economics: Choice in Labor Markets", ISBN 0-07-004399-X, McGraw Hill, Inc.
3. Peter Fallon & Donald Verry: "The Economics of Labour Markets", Heritage Publishers, New Delhi.
4. T.N. Bhagoliwal: "Economics of Labour and Industrial Relations", Sahitya Bhawan, Agra.

Major Disciplinary Course (MJD) 13
INDUSTRIAL ECONOMICS

Semester: VI
Credits: 4

UNIT I: INDUSTRIES AND DEVELOPMENT

Basic concepts of industrial economics - Rationale of industrialization - Need, importance, and role of industries in economic development - Industry and agriculture sector linkages - Industrial development: experience of developed and developing countries.

UNIT II: INDUSTRIAL ENTREPRENEURS

Concepts and definition of industrial entrepreneurs - Types, characteristics and functions of entrepreneurs - Role of entrepreneurs in economic development - Concept of women entrepreneurs - Role of women entrepreneurs in industrial development- Rural entrepreneurship development in India - Startups; Stand-Up - Problems and remedies of industrial entrepreneurs.

UNIT III: INDUSTRIAL FINANCE

Concept of Industrial Finance - Sources of Industrial Finance - Institutional finance to entrepreneurship development - Role, and types of institutional finance - Importance of finance to industrial development - Functions of IFCI, IDBI, SIDBI, ICICI, SFCs, SIDC, and commercial banks in industrial development - Financial supports for startups and stand-Up - Problems of industrial finance in India.

UNIT IV THEORIES OF INDUSTRIAL LOCATION

General determinants of industrial location: technical factors, economic and infrastructural factors - Theories of industrial location: The Central Place theory, Renner's theory, Rawstron's principles, Weber's theory, the market area theory of Tord Palander.

UNIT V: RECENT INDUSTRIAL DEVELOPMENT AND ISSUES IN INDIA

Trend of industrial location in India - Recent trends in industrial growth in India - growth performance of major industries - Development and problems of small-scale industries in India - Micro, Small and Medium Enterprises (MSMEs) in India - Public Sector Undertakings (PSUs) and Private Sector in India - Effects of liberalization on industrial development in India - Role of MNCs in industrial development - Sick industries and remedies - New Industrial policy of India: Code on Wages (2019), The Industrial Relations code (2020), and Occupational Safety, Health and Working Conditions Code (2020).

Suggested Readings:

1. Parker. C. Simon (2009): "The Economics of Entrepreneurship", Cambridge University Press, New York.
2. Anil Kumar (2003): "Entrepreneurship Development", New Age International, New Delhi.
3. Debasish Biswas & Chanchal Dey (2021): "Entrepreneurship Development in India", Routledge, New York.
4. Ahluwalia, I.J. (1985): "Industrial Growth in India", Oxford University Press, New Delhi.
5. Brahmananda, P.R. and V.R. Panchamukhi (Eds) (1987): "The Development Process of the Indian Economy", Himalaya Publications

6. Barthwal, R.R. (1992), Industrial Economics: An Introductory Text Book, Wiley Eastern Ltd. New Delhi.
7. Cherunilam, F. (1994), Industrial Economics: Indian Perspective, (3rd Edition), Himalaya Publishing House, Mumbai
8. Kuchhal, S.C. (1980), Industrial Economy of India (5th Edition), Chaitanya Publishing House, Allahabad.
9. StartupIndia, Ministry of commerce and industry, Government of India. Website: <https://www.startupindia.gov.in/>
10. Stand-Up India, Government of India. Website: <https://www.standupmitra.in/>
11. The Industrial Relations Code, 2020, Ministry of Law and Justice, Government of India. Link: https://labour.gov.in/sites/default/files/ir_gazette_of_india.pdf
12. Code of wages, 2019, Ministry of Labour & Employment. Link: https://labour.gov.in/sites/default/files/the_code_on_wages_as_introduced.pdf
13. The Occupational Safety, Health and Working Conditions Code, 2020, Ministry of Labour and Employment, Government of India. Link: <https://labour.gov.in/whatsnew/occupational-safety-health-and-working-conditions-code-2020-no-37-2020>

Major Disciplinary Course (MJD) 14
AGRICULTURAL ECONOMICS

Semester: VI
Credits: 4

UNIT I: BASIC CONCEPTS AND PRINCIPLES

Agricultural economics – Meaning, nature and scope - Basic concepts – Marginal returns, yield gap, returns to scale, economies of scale, technology - Traditional vis-a-vis modern agriculture - Role and importance of agriculture in economic development.

UNIT II: AGRICULTURAL GROWTH IN INDIA

Agricultural Infrastructure – physical, social, and institutional - Agricultural growth in India and sub-sectors since independence - Structural changes - Sources of growth and instability in Indian agriculture - Agricultural revolution – green, white, blue, brown, yellow, pink.

UNIT III: FARM MANAGEMENT

Farm Management vis-a-vis Production Economics - Farm management decisions - Economic principles of farm management - Types of farming - Farming systems - Farm planning, budgeting and financing.

UNIT IV: AGRICULTURAL PRODUCTION

Factors of production – Types of inputs and resource services - Input subsidies - Introduction to production and cost function - Derivation of supply from cost curve - Risk and uncertainty in agricultural production - Agriculture-Industry linkage.

UNIT V: PUBLIC DISTRIBUTION AND POLICIES

Agricultural markets – Types and functions - Food grains procurement – Operational mechanism, institutions involved, and policy implications - Public distribution system and food security – Objectives and mechanism - Food Security Act - Food security programs and schemes - Government regulation and legislation.

Suggested Readings:

1. Dantwala ML (1992): "Indian Agricultural Development since Independence: A Collection of Essays", South Asia Books.
2. Drummond EH and Goodwin JW (2010): "Agricultural Economics", Pearson Education Limited.
3. Ghatak S and Ingersent K (1984): "Agriculture and Economic Development", Prentice Hall / Harvester Wheatsheaf.
4. Heady E (1968): "Economics of Agricultural Production and Resource Use", Prentice-Hall, Inc.
5. Jhota SS and Kapoor TR (2009): "Fundamentals of Farm Business Management", Kalyani Publishers.
6. Kahlon AS and Tyagi DS (1983): "Agricultural Price Policy in India", Allied Publishers Pvt. Ltd., New Delhi.

Major Disciplinary Course (MJD) 15
MONETARY ECONOMICS

Semester: VI
Credits: 4

UNIT I: INTRODUCTION

Evolution of money - Concept of money and its functions: Primary, Secondary, and tertiary functions - Kinds of money - Monetary standards and Gresham's Law - Role of money in a modern economy - Advantages over Barter system - Monetary policy: output stabilization and inflation control.

UNIT II: THEORIES OF MONEY AND ITS VARIANTS

Meaning and value of money - Fisher's Quantity theory of money (Cash Transaction Approach) - The Cambridge equations (The Cash balance approach): Marshall, Robertson, Pigou, Keynes equations.

UNIT III: DEMAND AND SUPPLY OF MONEY

Demand for money: Classical, Keynesians and Friedman's approach - Post Keynesians views: Tobin's and Baumol's analysis - Understanding interest rate behaviour: real and nominal interest rate - Supply for money: Components and its determinants - H theory of money supply - Money multiplier and money supply: concepts and determinants, Credit creation.

UNIT IV: INFLATION AND UNEMPLOYMENT

Inflation: Meaning, Types of inflation: Demand pull and Cost Push - Consequences and Remedial Measures - Inflation and Unemployment trade-off: Phillips Curve, Rational Expectations, Lucas Critique, NAIRU and Okun's Law - Business Cycles: Phases, Causes and Control.

UNIT V: CONDUCT OF MONETARY POLICY IN INDIA

Central Bank: Its functions and monetary policy - Overall monetary policy framework: Instruments, Targets, and objectives - Monetary Policy Transmission: Money versus Credit view - Channels of monetary transmission - Monetary operating procedure - Liquidity management and OMOs - Challenges in the conduct of monetary policy - Adoption of inflation targeting by RBI and the role of Monetary Policy Committee (Recent recommendations of MPC).

Suggested Readings:

1. Mishkin, Frederic (2008): "The Economics of Money, Banking and Financial Markets", 7th edition, Pearson edition Wesley, New York.
2. Pierce D G and P. J. Tysome (1985): "Monetary Economics: Theories, Evidences and Policy", 2nd edition, Butterworths, London.
3. Reserve Bank of India: Report on Currency and Finance, Various Issues.
4. Lewis, M. K. and Mizan, P.D: "Monetary Economics", Oxford University Press.
5. Gupta, S.P. (1994): "Monetary Economics", S. Chand and Company, New Delhi.
6. Jhingan M.L. (2015): "Monetary Economics", S. Chand and Company, New Delhi.

Minor Disciplinary Course (MID) 6
ECONOMICS OF TOURISM

Semester: VI
Credits: 4

UNIT I: INTRODUCTION TO TOURISM ECONOMICS

Tourism: Definition – Meaning - Nature and Scope of Tourism - Fundamental concepts - Tourist, Travelers, Visitors, Transit visitors and Excursionist - Tourism Development and National Economy - Contribution to GDP - Importance of Tourism Industry in India.

UNIT II: DEMAND AND SUPPLY ASPECTS OF TOURISM

Nature of Demand: Factor Influencing Tourism Demand - Trends in Tourism - Supply Trends in Tourism - Economic Impacts of Tourism: Income and Employment - Foreign Exchange, Socio - Cultural Impacts of Tourism - Cultural Exchange among Nations and International Understandings - Impact of Tourism on Ecology and Environment.

UNIT III: INFRASTRUCTURE AND FORMS OF TOURIST TRANSPORTATION

Tourism Infrastructure – Types, Forms and Significance – Accommodation – Forms and Types – Tourist Transportation – Air, Surface, Rail and Water in India.

UNIT IV: TOURISM MARKETING

Core Concepts in Marketing: Product Market - Tourism Forecasting – Product life Cycle - Hotel - Resort - Home Stay - Travel Agencies and Other Tourism Related Services – Challenges and Strategies.

UNIT V: TOURISM POLICY AND PLANNING

Role of Government - Public and Private Sector - State and Local Tourism Organization - Tourism policy - Investment Opportunities and Government Policy (Hotel and Tourism Industry) - Sources of Funding.

Suggested Readings:

1. Vanhove, N: "The Economic of Tourism Destination", Oxford: Elsevier Butter Worth.
2. Mishra S, N. and Sadual S. K (2008): "Basics of Tourism Management", Excel Books, New Delhi.
3. Chattopadhyay, K (1995): "Economic Impact of Tourism Development – An Indian Experience", Kanishka Publishers, Delhi.
4. Seth, P. N and S. Bhat (1993): "An Introduction to Travel & Tourism", Sterling Publishers, New Delhi.
5. Krishnan, K. K (2001): 'Managing Tourist Destination, Development, Planning, Marketing, Policies', Kanishka Publishers, New Delhi.
6. Bhatia, A. K (1991): "Tourism Development – Principles & Practice", Sterling Publishers Pvt. Ltd. New Delhi.
7. Prasad, V. V. V and V. B. T. Sundari (2009): "Travel & Tourism Management", Excel Books, New Delhi.

Major Disciplinary Course (MJD) 16
HISTORY OF ECONOMIC THOUGHT

Semester: VII

Credits: 4

UNIT I: INTRODUCTION

Early period, Nature and Importance of History of Economic Thought – Ancient Economic Thought: Aristotle, Plato – Medieval Economic Thought: Mercantilism, Physiocrats – Main characteristics.

UNIT II: CLASSICAL PERIOD

Adam Smith – David Ricardo – Thomas R. Malthus – German Romantics and Socialists – Sismondi, Karl Marx – Economic ideas of J.B.Say – J.S.Mill – Historical School: Senior, List.

UNIT III: MARGINALIST PERIOD

Precursors of Marginalism: Cournot, Thunen, Gossen – Marginalist Revolution: Jevons, Walras and Menger-Bohm-Bawerk, Wicksell and Fisher – Rate of Interest: Wicksteed and Weiser – Distribution – Marshall as a great synthesizer – Pigou Welfare Economics – Schumpeter – Role of Entrepreneur and Innovations.

UNIT IV: MODERN THOUGHT

J.M. Keynes and his contributions to Treatise of Money – The General Theory of Employment, Interest and Money - Post Keynesian Economics : Alfred Eichner, Philip Arestis.

UNIT V: INDIAN ECONOMIC IDEAS

Early Economic Thought: Kautilya, Valluvar – Modern Economic Thought: Naoroji, Ranade, R.C.Dutt, Gokhale, J.K.Metha and M.N.Roy – Economic Thought of Gandhi: Village, Swadesi, Place of machine and labor, Cottage Industries, Trusteeship – Early approaches to planning – Cooperation as a strategy – Contributions of Vakil, Gadgil and VKRV Rao – Economic Thought of Dr. B.R.Ambedkar.

Suggested Readings:

1. Bhatia H.L (1994): "History of Economic Thought", Vikas Publishing House, New Delhi.
2. Ganguli B.N (1977): "Indian Economic Thought: A Nineteenth Century Perspective", TMH, New Delhi.
3. Roll Eric: "History of Economic Thought", Faber & Faber.
4. Seshari G.B (1997): "Economic Doctrines", B.R.Publishing Corporation, New Delhi.

Major Disciplinary Course (MJD) 17 A
PUBLIC FINANCE

Semester: VII
Credits: 4

UNIT I: INTRODUCTION

Nature and Scope of Public Finance - Role of Government in Economic Activity - Musgrave's three functions of Government: Allocation, Distribution, and Stabilization - Types of Goods in Economics: Public Goods, Private goods, Merit goods, and club goods - Public provision of public goods, merit goods, and club goods - Market failure: concept of market failure, causes of market failure, Government's role in market failure - Government Failure.

UNIT II: TAXATION

Sources of public revenue - Direct and Indirect taxes - Types of taxes - Canons of taxation - Theories of taxation: Ability to Pay Theory of Taxation, Benefit Principles of Taxation (Lindhal), and Principle of Maximum Social Advantage - Taxable Capacity - Impact, Incidence, and Shifting of Taxation - Taxes and deadweight loss - Characteristics of a good tax system.

UNIT III: PUBLIC EXPENDITURE

Causes of Rising Public Expenditure - Theories of public expenditure: Wagner's Law, Peacock-Wiseman's hypothesis, and Samuelson's theory of public goods.

UNIT IV: FISCAL DECENTRALIZATION

Rationale for decentralization: economic, administrative, and political - Assignment of taxes and expenditure between various tiers of a federal government - Rationale and role of local governments - Need, objectives, and design of federal fiscal transfers.

UNIT V: FISCAL DEFICITS AND DEFICIT FINANCING

Basics of Government Budget - Concept of Deficits - Concept of Deficit Financing - Need and Impact of Deficit Financing - Monetarist vs. Keynesian views on deficit financing - Public Debt: Implications on growth, inflation, and interest rate.

Suggested Readings:

1. Goode, Richard (1986): "Government Finance in Developing Countries", Brooking Institution Press.
2. Jha.R. (1998): "Modern Public Economics", Rutledge, London.
3. Musgrave.R.A.and P.B Musgrave (1976): "Public Finance in Theory and Practice", McGraw Hill, Kogakusha, Tokyo.
4. Atkinson, A.B and J.E Stiglitz (1980): "Lecture on Public Economics", MH Newyork.
5. Herber, B.P (1967): "Modern Public Finance", Richyard D.Irwin, Homewood.
6. Bagchi, Amaresh (edited): Readings in Public Finance, Oxford University Press.
7. Kennedy, M. Maria John (2013): "Public Finance", PHI, India.
8. Goods and Services Tax, Government of India. Website: <https://www.gst.gov.in/>

**Major Disciplinary Course (MJD) 17 B
INTERNATIONAL TRADE AND FINANCE**

Semester: VII

Credits: 4

UNIT I: INTERNATIONAL TRADE AND DEVELOPMENT

Basis of International Trade - International trade and economic growth - Effect of economic growth on international trade - Role of developing countries in international trade - Globalization and International trade.

UNIT II: GAINS FROM TRADE AND TRADE BARRIERS

Gains from trade - Distribution of gains-trade strategies: outward and inward oriented trade strategies - Trade barriers: tariff and non-tariff barriers - International capital flows – Classification – Significance and role of foreign capital - Outsourcing and Multinational enterprises.

UNIT III: BALANCE OF PAYMENTS AND ADJUSTMENT

Concepts and definition of Balance of Payments - Balance of trade and balance of payments - Accounting methods - Overall balance of payments - Equilibrium and disequilibrium in the balance of payments - Causes and types of disequilibrium - Balance of payments adjustment mechanism – Automatic BoP adjustment - Expenditure switching policy - Expenditure changing policy - Other methods of BoP adjustment mechanism.

UNIT IV: INTERNATIONAL FINANCIAL MARKET

International Financial market System - Foreign Exchange Market, Eurocurrency Market, Eurocredit Market, Eurobond Market, and International Stock Markets.

UNIT V: INDIA'S INTERNATIONAL TRADE & POLICY

State of India's export in the international market - Trend of international trade of India - Direction and composition of India's international trade - Trade deficit scenario of India - New economic policy and India's trade - Recent trade policies - Problem of Indian trade-suitable solutions - Trade Barriers - Goods and Services tax and its impact on India's trade - Recent scenario of India's export and import.

Suggested Readings:

1. Krugman. P.R, and Obstfeld (2006): "International Economics", Addison Wesley, USA.
2. Carbaugh.R.J (2014): "International Economics", 12th Edition, South-Western, USA.
3. Barbara Ingham (2015): "International Economics", Prentice Hall, England.
4. Dominic Salvatore, (2019): "International Economics", Wiley.
5. GoI, Annual Reports, Ministry of Commerce and Industries, Various issues.
6. Katsioloudes. M.I and Hadjidakis. S (2007): "International Business: A Global Perspective", Elsevier, UK.
7. Cherunilam.F (2016): "International Economics", McGraw-Hill, New Delhi.
8. Steven Husted & Michael Melvin (2013): "International Economics", Pearson, New York.
9. Thomas A. Pugel (2020): "International Economics", McGraw-Hill, New York.

Major Disciplinary Course (MJD) 18
RESEARCH METHODOLOGY

Semester: VII

Credits: 4

UNIT I: INTRODUCTION TO RESEARCH

Meaning, objectives and motivations in research - Characteristics and limitations of research - Components of research work - Criteria of good research - Research process - Types of Research - Difference between Research Methods and Research Methodology.

UNIT 2: RESEARCH DESIGN

Definition, essentials and types of research design - Errors and types of errors in research design - Formulation of Research Problem: Identification and operationalization of the Research problem - Significance of Literature Review - Research Gaps - Development of working hypotheses - Relationship between Research Questions and Hypotheses - Formulation of Research Objectives - Preparation of Research Design - Investigation in Availability of Information or Data.

UNIT 3: MEASUREMENT, SCALING AND SAMPLING

Variables in Research - Different measurement scales - Data Collection methods: primary and secondary data - Construction of Questionnaire, Meaning of Questionnaire, Reliability and Validity; Personal Interviews; Group Interviews; Triangulation; Case Studies - Data collection & Sampling - Types of Sampling - Sampling Procedure - Choice of Sampling Technique - Sample size determination.

UNIT 4: RESEARCH METHODS AND DATA ANALYSIS

Quantitative methods: use of secondary data - Qualitative Methods: the case study methods, Participant observation - Interview methods: open and closed, structured and unstructured interviews, focused group discussions - Process documentation - Analysis of quantitative and qualitative data – Interpretation - Data Preparation: Univariate analysis (frequency tables, bar charts, pie charts, percentages), Bivariate analysis: Cross tabulations and Chi-square test, and Multivariate statistical techniques.

UNIT 5: RESEARCH REPORT WRITING

Research report - Contents of Research Report - Executive Summary - Report writing: Formulating and arranging concepts and ideas, Formulating arguments, Substantiating Arguments with Evidence, Data, Notes and References, Bibliography - Report writing steps - Quality of a good Research Report - Ethical issues in Research: Code of Ethics in Research; Ethics and Research Process - Importance of Ethics in Research.

Suggested Readings:

1. Bhattacharjee, A. (2012). "Social Science Research: Principles, Methods, and Practices" Textbooks Collection. Book 3. http://scholarcommons.usf.edu/oa_textbooks

2. Creswell, J.W. and Creswell, J.D. (2017). Research design: Qualitative, quantitative, and mixed methods approaches. Sage publications.
3. Don Ethridge (2004), "Research Methodology in Applied Economics: Organizing, Planning and Conducting" Second Edition, Blackwell Publishing.
4. Fink, A., (2009). Conducting Research Literature Reviews: From the Internet to Paper. Sage Publications
5. Gibaldi, Joseph (2009). "MLA Handbook for writers of Research Papers", Modern Language Association of America 7th edition.
6. Glenn L. Johnson (1986) Research methodology for economists: philosophy and practice, Macmillan
7. John Creswell (2013) "Research Design: Qualitative, Quantitative, and Mixed Methods Approaches, SAGE Publications, Inc; Fourth Edition
8. Johnson, Steven A. Greenlaw (2005) "Doing Economics: A Guide to Understanding and Carrying Out Economics Research, South-Western College Pub; 1 edition
9. Kagel, JH and Roth, AE (1995) The Handbook of Experimental Economics, Princeton University Press, Princeton.
10. Kothari, C.R.(2004). Research methodology: Methods and techniques. New Age International
11. Kothari, CR and Gaurav Garg (2013) Research Methodology: Methods and Techniques, New Age International Publishers.
12. Krishnaswamy, K.N. (2006). Management Research Methodology: Integration of Principles, Methods and Techniques. Pearson Education India

Minor Disciplinary Course (MID) 7
GENDER STUDIES

Semester: VII
Credits: 4

UNIT I: INTROUDUCTION TO GENDER STUDIES

Meaning – Understanding Sex and Gender – Nature and Scope – Evolution of Gender Studies – Importance of Gender Studies- Society and gender discrimination – Gender and Economic Development

UNIT II: GENDER AND LABOUR MARKET

Men's work and women's work – Invisibility in women's work – Labour Market Participation Rate – Factors affecting female entry in labour market – Gender issues in Indian Labour Market.

UNIT III: GENDER AND DECISION MAKING

Reasons for differences in Decision making between Men and women in the areas of Education, Health, Economic, Political and Social institution – Need for Institutional support in women development.

UNIT IV: CONTEMPORARY ISSUES IN GENDER STUDIES

Gender based violence: Structure – Forms – Types – Violence against women - Gender based Cyber Crimes - Social media and gender.

UNIT V: GENDER DEVELOPMENT POLICIES AND GOVERNANCE

Sustainable Development Goals and Gender Development – Social Securities and Property Rights – Gender Planning and Gender Budgeting – Women Empowerment Programs in India.

Suggested Readings:

1. Jacobson J.P (2007): "The Economics of Gender", Blackwell Publication, USA.
2. Momsen J (2010): "Gender and Development", Routledge, USA.
3. Goodman J (Edited, 2012): "Global Perspectives on Gender and Work", Rowman & Littlefield Publishers, Inc., U.K.
4. www.icar-cowa.org.in
5. www.womenink.org
6. www.womenstudies.in
7. www.journal.sagepub.com

Minor Disciplinary Course (MID) 8

ADVANCED MICRO ECONOMICS

Semester: VII

Credits: 4

UNIT I: ADVANCES IN DEMAND THEORY

Recent Developments in Demand Theory - Pragmatic Approach - Constant Elasticity of Demand Function - Dynamic Demand Function-Lagged Adjustment and Interrelated Markets - Cobweb Model - Linear Expenditure Systems - Indirect Utility Function.

UNIT II: MODERN UTILITY ANALYSIS AND RISK

Modern Utility Analysis - Neumann-Morgenstern Utility Theory - Friedman-Savage Hypothesis Economics of Uncertainty and Risk - Individual Behavior towards Risk - Expected Utility and Certainty Equivalence Approaches - Risk and Risk Aversion.

UNIT III: PRICING METHODS AND THEORY OF FIRM

Pricing Strategies and Theories - Alternate Pricing Strategies - Full Cost Pricing and Average Cost Pricing - Controlled or Administered Pricing - Minimum Support Price- Limit Pricing and Public Utility Pricing - Limit Pricing Theory (Bains Version) - Elements of Social Cost-Benefit Analysis.

UNIT IV: MANAGERIAL THEORIES

Managerial Discretion and Enterprise Models - Baumol's Sales Revenue Maximization Model - Williamson's Model of Managerial Discretion- Marris Model of Managerial Enterprise -Behavioral Models - Cyert and March's Behavioral Model.

UNIT V: ECONOMICS OF INFORMATION AND SEARCH

Economics of Information - Principles of Information Asymmetry - Adverse Selection - Signaling and Screening - Principal-Agent Problems - Moral Hazard-Search and Transaction Costs - Economics of Search (Adaptive Search) - Efficient Market Hypothesis - Stochastic Models of Inventory Demand - Search and Transaction Costs.

Suggested Readings:

1. Varian, H.R. (2019): "Microeconomics Analysis", W.W. Norton.
2. Mas-Colell, A., Whinston, M. D. & Greene, J. R. (1995): "Microeconomic Theory", OUP.
3. Pindyck, R. S. & D. Rubinfeld (2018): "Microeconomics", 9th edition, Pearson.
4. Koutsoyiannis, A. (1979): "Modern Microeconomics", Palgrave Macmillan.
5. Henderson, J.M. & Quandt, R.E. (1980): "Microeconomic Theory: A Mathematical Approach", 3rd Edition, McGraw-Hill.
6. Layard, P.R.G. & Walters, A.A. (1978): "Microeconomic Theory", McGraw Hill.
7. Sen A. (2006): "Microeconomics: Theory and Application", Oxford University Press.
8. Baumol, W.J (1979): "Economic Theory and Operations Analysis", Prentice Hall.

Major Disciplinary Course (MJD) 19
ADVANCED THEORIES OF ECONOMIC GROWTH

Semester: VIII

Credits: 4

UNIT I: CLASSICAL THEORIES OF GROWTH

Economic growth and development: conceptual issues and indicators - Classical theories of economic growth: Adam Smith and David Ricardo – Harrod-Domar Model.

UNIT II: NEO-CLASSICAL THEORIES OF GROWTH

Solow Model of growth - Preferences, Technology, and Demographics, Optimal growth, Steady State equilibrium - Transitional dynamics and uniqueness of equilibrium - Neoclassical growth in discrete time - Technological change and neoclassical model - Role of policies on Growth.

UNIT III: ENDOGENOUS GROWTH THEORIES AND ECONOMIC DEVELOPMENT - I

First-generation models of endogenous growth: AK Model with physical and human capital -Two sector AK model - Growth with externalities - Endogenous Technological Change: Modelling technological change - Models of Schumpeterian growth - Directed technological change.

UNIT IV: ENDOGENOUS GROWTH THEORIES AND ECONOMIC DEVELOPMENT - II

Broad overview of theories of development – Structural Change and Economic Growth: Unbalanced growth-demand and Supply side - Structural transformation - Agricultural productivity and industrialization.

UNIT V: POLITICAL ECONOMY OF GROWTH

Institutions - Political Economy and Growth - Impact of Institutions on Long-run development - Distributional conflict and economic growth in a simple society - Distributional conflict and competition - Inefficient economic institutions - A First Pass - Political Institutions and Economic Growth - Political regimes and economic growth - Political institutions and growth-enhancing policies - Dynamic trade-offs - Understanding endogenous political change.

Suggested Readings:

1. Barro, Robert J. and Xavier Sala-i-Martin (2004): “Economic Growth”, Prentice-Hall of India Pvt. Ltd.
2. Debraj Ray (2010): “Development Economics”, Princeton University Press.
3. Acemoglu, Daron (2009): “Introduction to Modern Economic Growth”, Princeton University Press.
4. Michael P. Todaro and Stephen C. Smith (2015): “Economic Development”, Pearson Publication.
5. Thirlwall A.P (2011): “Economics of development”, Palgrave Macmillan.
6. Sen, Amartya (1970): “Growth Economics”, Penguin Harmondsworth.

Major Disciplinary Course (MJD) 20
INDIAN ECONOMY – ISSUES AND POLICIES

Semester: VIII

Credits: 4

UNIT I: INDIAN ECONOMIC POLICY AND PERFORMANCE

Broad Economic policy regime of the pre-reform period - Central planning – Import substitution and Domestic industrial policy – Green Revolution – Social control and nationalization of banks – Socioeconomic outcomes of pre-reform policies.

UNIT II: INDIAN ECONOMY: GROWTH AND PERFORMANCE

Overall economic growth - Sectoral diversification - Broad-based industrial structure - Self-sufficiency in food - Augmentation of domestic savings - Implications of TRIPS, TRIMS, GATS and New EXIM policy - Impact of WTO on various aspects of Indian Economy - BoP crisis of 1991 and comprehensive economic reforms since 1990s - Liberalization, Privatization and Globalization, and macroeconomic outcome - Creating of SEZ - coming of MNCs - Retail trade reforms, and its impact on economy.

UNIT III: INDIAN ECONOMIC EXPERIENCES DURING REFORM PERIOD

Structural transformation and sectoral diversification of the Indian economy – Financial development, saving mobilization and economic growth in India - Public Sector disinvestment - Foreign Direct Investment and its trends - Dynamics of Manufacturing and Service Sector - MSME and its competitiveness among the MNCs - Increasing share of Service Sector to GDP.

UNIT IV: MNCs DURING REFORM PERIOD

Multinational Companies and performance - Balancing large corporates and small scale enterprises in manufacturing - Nature of jobs during reform period - Jobless growth - Wealth inequalities - Geographical concentration of MNCs and regional disparities - Population distribution and migration - Pattern of wages and cost of living - Pattern and trends of employment in the informal sector.

UNIT V: CURRENT CONCERNS AND ISSUES

Poverty eradication and income inequality – Sectoral Issues: Problems and challenges in Indian agriculture – Doubling farmers' income - Crop diversification - Pattern of land uses – MSP and marketing agri-products – Small landholding and low productivity – Indian industry – Reforms and industrial productivity – Issues on labor market reforms – Services sector revolution and sustainability issues –Economic crises and their impact - Macroeconomic analysis of the Covid-19 impact on the Indian economy - Major policy announcements - Recent Economic survey and Union budget - RBI's monetary policy and contemporary policy issues .

Suggested Readings:

1. Basu, Kaushik (2016): "An Economist in the Real World", Penguin-Viking.
2. Bhagwati, Jagdish and N and Charles W Calomiris, (2008) ed: "Sustaining India's Growth Miracle", Stanza.
3. Government of India, Economic Surveys, various issues.
4. Ahluwalia. I.J. and I.M.D Little (Eds) (1999): "India's Economic Reforms and Development", Oxford University Press, New Delhi.
5. Bardhan, P.K. (1999): "The Political Economy of Development in India", Oxford University Press, New Delhi. 38.

Major
ADVANCED MACRO ECONOMICS

Semester: VIII
Credits: 4

UNIT I: REVIEW OF MACROECONOMIC DEBATES

Exploring the Roots of Historical Debates in Macroeconomics – Classical vs. Keynesian - Keynesian vs. Monetarists - New-Classical vs. New-Keynesian.

UNIT II: CONCEPTS OF RATIONAL BEHAVIOUR

Rational Expectation and Lucas Supply function - Neutrality of money - Policy Ineffective Theorem – Lucas Critique - Rational Expectation and Implications of Monetary Policy.

UNIT III: DYNAMIC MACROECONOMIC MODELS – I

The Solow Model and the Central Questions of Growth Theory - Infinite-horizon and Overlapping-generations Models - Ramsey–Cass–Koopmans Model - Dynamics of the Economy - Balanced Growth Path - Effects of Fall in the Discount Rate and Government Purchases.

UNIT IV: DYNAMIC MACROECONOMIC MODELS – II

Diamond Model - Household Behavior and Dynamics of the Economy - Possibility of Dynamic Inefficiency - Role of Government - Real Business Cycle Theory - Baseline Real-Business-Cycle Model - Household Behavior - Solving the Model in the General Case and Implications.

UNIT V: RECENT ADVANCEMENTS IN MACROECONOMIC POLICIES

Time Inconsistency and the Debate over Rules vs. Discretion - Taylor's Rule and monetary policy - Theory of Inflation Targeting - Issues relating to inflation targeting.

Suggested Readings:

1. Mankiw, N. G. (2022): "Macroeconomics", 11th edition, Macmillan Learning.
2. Froyen, R. T. (2013): "Macroeconomics: Theory and policies", 10th edition, Pearson.
3. D'Souza, E. (2012): "Macroeconomics", 2nd edition, Pearson.
4. Levačić, R. & Rebmman, A. (1982): "Macroeconomics: An Introduction to Keynesian – Neoclassical Controversies", Macmillan.
5. David Romer (2018): "Advanced Macroeconomics", 5th edition, McGraw-Hill.
6. David, G Pierce and Peter J Tysome (1985): "Monetary Economics: theories, evidence and policy", Butter worths.

Major
ECONOMICS OF HEALTH AND EDUCATION

Semester: VIII
Credits: 4

UNIT I: ROLE OF HEALTH AND EDUCATION IN HUMAN DEVELOPMENT

Meaning – Nature and Scope of Health Economics and Economics of Education – Importance – Education and Health in Poverty Alleviation – Health and Education outcomes and their relationship with macroeconomic performance.

UNIT II: MICROECONOMIC FOUNDATIONS OF HEALTH ECONOMICS

Demand For Health – Uncertainty and Health Insurance Market – Alternative Insurance Mechanism – Market failure and rationale for public intervention – Equity and Inequality.

UNIT III: EVALUATION OF HEALTH PROGRAMS

Indicators of Health – Primary Health Care Centres - Costing – Cost Effectiveness and Cost-Benefit Analysis – Burden of Disease.

UNIT IV: EDUCATION INVESTMENT IN HUMAN CAPITAL

Evaluation of Rate of Return to Education – Private and Social – Quality of Education – Signaling or Human Capital – Theories of Discrimination – Gender and caste discrimination in India.

UNIT V: OVERVIEW OF EDUCATION AND HEALTH SECTORS IN INDIA

Health Outcomes – Health Systems – Health Financing – Literacy rates – School Participation – School Quality Measures.

Suggested Readings:

1. William Jack (1999): "Principles of Health Economics for Developing Countries", World Bank Institute Development Studies.
2. World Development Report, Investing in Health, the World Bank.
3. Ronald G. Ehrenberg and Robert S. Smith (2005): "Modern Labour Economics: Theory and Public Policy", Addison Wesley.

Major
URBAN ECONOMICS

Semester: VIII
Credits: 4

UNIT I: INTRODUCTION TO URBAN ECONOMICS

Definition and Scope of Urban Economics – The process of Urbanization – Definition of Urban Area – Causes of Urbanization – Migration & Urbanization - Models of Urban Development & Planning – The economics of intra-urban location decisions – Residential and Industrial locations – Semi urban areas – Special Townships.

UNIT II: LAND RENT AND LAND-USE PATTERNS

Monocentric city – Labour and transportation costs – Urban sprawl – Diversity – Income segregation – Demand for Public goods – Neighborhood externalities – Neighborhood choice model – Education Production Function – Causes & Consequences of segregation – Urban growth control.

UNIT III: URBAN TRANSPORTATION

Auto congestion – Congestion tax – Air Pollution – Vehicle Collisions – Mass transit – Public policies to internalize the externalities from autos – Individual modal choice decisions – Effects of urban form on mode choice.

UNIT IV: URBAN LABOUR MARKETS

Developed and Developing Countries – Informal Sector – Segmentation and Hierarchy – Dualism – Impact of Globalization – Urbanization without labour absorption in India.

UNIT V: URBANIZATION IN INDIA

Factors influencing growth of Urban Population – Urban Development Policy in India – Policies and Programs under plans – Jawaharlal Nehru National Urban Renewal Mission (JNNURM).

Suggested Readings:

1. Arthur O'Sullivan (2012): "Urban Economics", McGraw Hill Irwin (8th Edition).
2. Edward Glaeser (2011): "Triumph of the City", The Penguin Press.
3. Jan K Brueckner (2011): "Lectures on Urban Economics", MIT Press.
4. Enrico Moretti (2013): "The new Geography of Jobs", Mariner Books.