

Course Code	Course Name	Credits
26EC603	RURAL ECONOMICS AND AI PLANNING	04

Course Objectives

- To study the rural economics and AI relevance.
- To study the rural development programme and AI in planning
- To analyse the rural infrastructure and rural industries in India
- To examine the rural poverty scenario and unemployment
- To study the rural debts and institutional and non-institutional sources and AI application.

Learning Outcomes

Upon successful completion of this course it is intended that a student will be able to:

- AI relevance in rural economy.
- Understand the rural development programmes and planning
- Understand the issues related to rural infrastructure and Govt. policies for rural development.
- Understand the poverty and unemployment measurement and policies for recommendation.
- Understand about rural indebtedness and AI related tools for financial inclusion.

Unit 1 – Rural Economics and Introduction to AI (12Hrs)

Rural Economics- Meaning, nature, scope and importance, features of rural economy, size and structure of rural economy, causes of rural backwardness; rural development: meaning, concept, determinant factors of rural development. Meaning of AI and its relevance in the rural economics, Ethical considerations in AI rural economics applications.

Unit 2 –Rural Development Program and AI in Planning (12Hrs)

Rural Development Program- Meaning, Scope, Significance, Functions; Need of Rural Development Programs and Planning: Planning process, multi-level planning, District Planning, Grassroots level planning, role of Panchayat in Rural planning and Development. AI in policy analytics and decision support system

Unit 3 – Rural Infrastructure and Rural Industrialization (12Hrs)

Rural Infrastructures- Meaning, Classification, Importance; Educational and Health infrastructure; Rural Transport, Communication and Electrification. Importance of Rural Industrialization, Cottage Industries, Policies and Programs for Rural Industries; Handloom and Handicrafts; MSME functionalities, problems and prospects.

Unit 4 – Rural Poverty and Rural Unemployment (12Hrs)

Rural Poverty- types, consequences and estimation; Head count ratio, Poverty Gap Ratio, AK Sen's Index and Multidimensional Poverty Index, Government schemes and policies to combat rural poverty. Rural Unemployment; types, magnitude and recent Government policies on rural unemployment. labour migration; causes and impact on rural economy.

Unit 5 –Rural Indebtedness, Rural Credit and AI (12Hrs)

Rural Debt and its consequences and measures- Sources of Rural Credit; Micro credit, SHG-bank linkages program and rural credit; Role of AI in improving access to credit, AI credit scoring and financial inclusion.

Reference Books:

1. Desai, S.S.M. "Fundamental of Rural Economics" Himalaya Publishing House, Mumbai.
2. Ganguli, N.N. "Problems of Rural India" Mittal Publications, New Delhi.
3. Madupati,B (2024). Leveraging AI for rural development, International Journal of core Engineering and Management, Vol.07 (9). ISSN No.2348-9510

Websites and eLearning Sources:

1. <https://www.msuniv.ac.in/images/distance%20education/learning%20materials/>
2. <https://www.grafiati.com/en/literature-selections/rural-economics/>
3. https://www.researchgate.net/publication/5044929_The_Rural_Economy_in_a_New_Centur

COs and Bloom's Taxonomy Mapping – 26EC603

Course Outcomes	On successful completion of this course, students will be able to	BTL
CO1	Remembering the scope of rural economics and determinants of rural development, understand the AI application	K1, K2,K3
CO2	Applying the knowledge of components of rural economics in rural development program and planning with AI assistance	K3,K4
CO3	Analyze the different schemes and programs of rural development particularly to rural infrastructure and rural industries and their problems in implementation	K3,K4
CO4	Evaluate and assess the causes of poverty and unemployment, evaluate the impact of schemes and programs policies implemented so far on alleviating and rural unemployment.	K4,K5
CO5	Create a necessary input to build their institutional capabilities to commit themselves for development of rural institutions with adoption of AI in credit.	K6

BTL (Bloom's Taxonomy Level) - K1 – Remembering, K2 – Understanding, K3- Applying, K4 – Analyse, K5- Evaluate and K6 - Create

Relationship Matrix – 26EC603

Course Outcomes	Programme Outcomes (POs)						Programme Specific Outcomes (PSOs)					Mean Score of Cos
	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	2	2	3	2	3	2	2	2	2	2	3	2.81
CO2	2	3	3	2	2	3	2	2	2	2	3	2.36
CO3	2	2	3	2	2	3	2	3	3	2	3	2.27
CO4	3	2	2	2	3	2	3	2	2	2	2	2.27
CO5	2	3	3	3	2	3	2	3	2	2	2	2.25
Total												2.39

Mean Score: 3- High, 2- Medium/Moderate, 1-Low

