

**Scheme and Syllabi
for
One Year
Post Graduate Diploma in Agricultural and
Rural Development (PGDARD)**



**Department of Economics
Chaudhary Ranbir Singh University, Jind**

w.e.f. 2024-25

Scheme and Syllabi
for
Post Graduate Diploma in Agricultural and Rural Development (PGDARD)
w.e.f. Academic Session 2024-25

Semester I

Course Type	Nomenclature of Paper	Course Code	Hours/week			Marks			Total Marks	Credit
			L	T	P	Theory	Internal	Practical		
DSC-1	Agricultural Development in India	D24-ECO-101	3	1	-	70	30	-	100	4
DSC-2	Rural Economy in India	D24-ECO-102	3	1	-	70	30	-	100	4
DSC-3	Micro Finance	D24-ECO-103	3	1	-	70	30	-	100	4
DSC-4	Introductory Economics	D24-ECO-104	3	1	-	70	30	-	100	4
DSC-5	Issues in Indian Economy	D24-ECO-105	3	1	-	70	30	-	100	4
SEC-1	Fundamentals of Computer	D24-ECO-106	3	1	-	70	30	-	100	4
Total Credit=									24	

Semester II

Course Type	Nomenclature of Paper	Course Code	Hours/week			Marks			Total Marks	Credit
			L	T	P	Theory	Internal	Practical		
DSC-6	Agri-business	D24-ECO-201	3	1	-	70	30	-	100	4
DSC-7	Rural Development Programmes in India	D24-ECO-202	3	1	-	70	30	-	100	4
DSC-8	Research Methodology	D24-ECO-203	3	1	-	70	30	-	100	4
DSC-9	Natural Resources Management	D24-ECO-204	3	1	-	70	30	-	100	4
SEC-2	Digital Economy	D24-ECO-205	3	1	-	70	30	-	100	4
Total Credit=									20	

Semester - I
AGRICULTURE DEVELOPMENT IN INDIA
Course Code: D24-ECO-101

Max. Marks: 100
Time: 3 Hours

Theory Marks: 70
Internal Marks: 30

Note: There shall be nine questions in all. The first question is compulsory and contains seven short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

UNIT-I

Indian Agriculture: Meaning, nature and scope, Indian agriculture scenario, post-independence period, land reforms, land holding, green revolution agriculture & allied activities in rural development.

UNIT-II

Agricultural Policy: Agricultural policy and rural development, agricultural pattern– food crops, commercial crops, national agricultural policy.

UNIT-III

Agricultural Productivity: Trend, causes for low productivity, food production, measures to increase productivity. W.T.O and Indian agricultural challenges and priorities in the global economy, agricultural subsidies.

UNIT-IV

Agricultural Prices: Trends in agricultural prices, causes for farmers suicide problems of agricultural labourers.

Suggested Readings:

- Brahmananda, P.R. and Panchmukhi: The Development Process of Indian Economy, Himalaya Publishing House, New Delhi. Latest Edition.
- Desai, Vasant “Rural Development in India”, Himalaya Publishing House Pvt Ltd.
- Himalaya Publishing House, New Delhi. Latest Edition
- Hussain, Tahir., Tahir, Mary., Tahir, Riya “Fundamentals of Rural Development”, Dream tech Press
- Kapila, Uma “Indian Economy: Economic Development and Policy”, Academic Foundation, New Delhi
- Phougat, Sunil and Kumar, D. (2023). Principles of Agricultural Economics. Academic Publication, New Delhi.
- S.K. Mishra, V.K. Puri: Indian Economy: Its Development Experience, Himalaya Publishing House, New Delhi (Latest Edition).
- Singh, Katar and Shishodia, Anil, “Rural Development, Principles, Policies, and Management”, Sage Publications, New Delhi
- Singh, Ramesh “Indian Economy”, Mc Graw Hill
- Sundaram, Satya, I, “Rural Development”, Himalaya Publishing House Pvt Ltd.

Semester - I
RURAL ECONOMY IN INDIA
Course Code: D24-ECO-102

Max. Marks: 100
Time: 3 Hours

Theory Marks: 70
Internal Marks: 30

Note: There shall be nine questions in all. The first question is compulsory and contains seven short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-I

Indian economy: Characteristics of Indian economy; rural economy in India: nature and changing patterns; importance of agriculture & allied activities in rural development.

Unit-II

Rural infrastructure: Meaning, needs and importance, problems & challenges, role in economic development; transport, communication, electrification, drinking water and sanitation.

Unit-III

Determinants of rural development: Natural resources, human resources, capital, technology. rural-urban linkages: needs and importance; inter-state disparities in rural development.

Unit-IV

Poverty and unemployment issues in rural economy: concept, causes, challenges and remedial actions/ schemes launched by the government of India.

Suggested Readings:

- Brahmananda, P.R. and Panchmukhi: The Development Process of Indian Economy, Himalaya Publishing House, New Delhi. Latest Edition
- Deepashree: Indian Economy Performance and Policies Anno Books Pvt. Ltd., New Delhi Latest Edition
- Desai, Vasant "Rural Development in India", Himalaya Publishing House Pvt Ltd.
- Hussain, Tahir., Tahir, Mary., Tahir, Riya "Fundamentals of Rural Development", Dreamtech Press
- Kapila, Uma "Indian Economy: Economic Development and Policy", Academic Foundation, New Delhi
- S.K. Mishra, V.K. Puri: Indian Economy: Its Development Experience, Himalaya Publishing House, New Delhi (Latest Edition).
- Singh, Katar and Shishodia, Anil, "Rural Development, Principles, Policies, and Management", Sage Publications, New Delhi
- Singh, Ramesh "Indian Economy", Mc Graw Hill.
- Sundaram, Satya, I, "Rural Development", Himalaya Publishing House Pvt Ltd.

Semester - I
MICRO FINANCE
Course Code: D24-ECO-103

Max. Marks: 100
Time: 3 Hours

Theory Marks: 70
Internal Marks: 30

Note: There shall be nine questions in all. The first question is compulsory and contains seven short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

UNIT-I

Microfinance: Demand and supply of microfinance, microfinance as a development strategy and an industry, role of rural credit in development, evolution and growth of rural credit system in India, agricultural credit review committees & reports of different committees and commissions, problems & prospects.

UNIT-II

Evolution & growth of micro finance: Social security and micro-finance & livelihood approach, models of micro-finance: NABARD, GRAMEEN bank, BRAC & BANDHAN; problems & prospects of micro financing, entrepreneurship development, rural women, self-help groups

UNIT-III

Rural credit: Rural credit to non-farm sector, credit for MSMEs, role of institutions towards facilitating rural credit, role of NGO, semi government, quasi-government institutions. growth trend of micro financing towards MSMEs.

UNIT-IV

Financing agriculture & allied sectors in rural India: Evolution of agricultural credit, organisational pattern; primary agricultural credit societies (PACS): functions. management, crop loan system; district central cooperative banks - functions, management, credit policy, state co-operative banks, & co-operative movement.

Suggested Readings:

- K. G. Karmakar, Rural Credit & Self-Help Groups: Micro Finance Needs and Concepts in India, SAGE Publications Pvt. Ltd
- Nageswar Rao Katuri, Rural Credit and Micro Finance (Finance Series) Paperback – 1, 2006, ICFAI University Press
- Tanuj Kumar Bisoyi, Abhijeet, 2010: Rural Credit, Regional Rural Banks and Micro-Finance

Semester - I
INTRODUCTORY ECONOMICS
Course Code: D24-ECO-104

Max. Marks: 100
Time: 3 Hours

Theory Marks: 70
Internal Marks: 30

Note: There shall be nine questions in all. The first question is compulsory and contains seven short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

UNIT-I

Demand and supply: Concepts of demand and supply, market demand, determinants of demand, demand schedule, price, income and cross elasticity of demand, factors effecting price elasticity of demand.

UNIT -II

Utility: Meaning of utility, average and marginal utility, equi-marginal utility, definitions and properties of indifference curve, consumer's equilibrium under ordinal approach.

UNIT -III

Cost and revenue: Concepts of cost and revenue, firm's equilibrium under various market structure: perfectly competitive market and monopoly.

UNIT -IV

Basic macro-economic indicators: Basics concepts of national income accounting, inflation: types, causes and remedial measures, unemployment: types, causes and remedial measures. balance of payment.

Suggested Readings:

- Ahuja, H.L. (2006): Advanced Economic Theory, Sultan Chand and Co., New Delhi.
- Dwivedi, D. N. (2010), Principles of Economics, Vikas Publishing, Noida.
- Koutsoyiannis, A: (1979): Modern Microeconomics (2nd ed), Macmillan Press, London.

Semester - I
ISSUES IN INDIAN ECONOMY
Course Code: D24-ECO-105

Max. Marks: 100
Time: 3 Hours

Theory Marks: 70
Internal Marks: 30

Note: There shall be nine questions in all. The first question is compulsory and contains seven short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

UNIT-I

Indian economy: Characteristics of the Indian economy on the eve of independence. features and importance of agriculture sector in Indian economy.

UNIT -II

Basic economic indicators: National income, performance of different sectors trends of prices and money and its importance.

UNIT -III

Inequality and poverty: concept and meaning of inequality and poverty in India and their causes, programmes of eradicating poverty in India, industrialization and its impact on the Indian economy.

UNIT -IV

Foreign trade: Balance of payment, issues in export-import policy. structure and direction of foreign trade, foreign capital and FDI in India.

Suggested Readings:

- Brahmananda, P.R. and Panchmukhi: The Development Process of Indian Economy, Himalaya Publishing House, New Delhi. Latest Edition.
- Deepashree: Indian Economy Performance and Policies Anno Books Pvt. Ltd., New Delhi Latest Edition.
- Economic and Political Weekly: Various Issues.
- Economic Survey: Government of India. Latest Issue.
- Kapila, Uma “Indian Economy: Economic Development and Policy”, Academic Foundation, New Delhi
- Reserve Bank of India, Reports on Currency and Finance (Annual)
- S.K. Mishra, V.K. Puri: Indian Economy: Its Development Experience, Himalaya Publishing House, New Delhi (Latest Edition).

Semester – I
FUNDAMENTALS OF COMPUTER
Course Code: D24-ECO-106

Max. Marks: 100
Time: 3 Hours

Theory Marks: 70
Internal Marks: 30

Note: There shall be nine questions in all. The first question is compulsory and contains seven short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

UNIT-I

Introduction to computers: Fundamentals of computers, types and functions of hardware and software, history and evolution of computers, overview of computer systems, introduction to operating systems, basic concepts of files, directories, file management, system utilities.

UNIT-II

Microsoft office: Productivity tools, word processing (Microsoft word), spreadsheet applications (Microsoft excel), presentation tools (Microsoft power-point), document formatting, creating tables and charts, data analysis using formulas and functions, creating presentations with multimedia elements.

UNIT-III

Internet: Internet and email, internet protocols, web browsing, search engines, social media platforms, setting up email accounts, composing and sending emails, managing contacts, using attachments, email, etiquette.

UNIT-IV

Role of ICT: Applications in rural development, use of geographic information systems (GIS), data collection and management using digital tools, role of information and communication technology (ICT) in rural development, case studies and practical examples of technology impact on rural development.

Suggested Readings:

- Choudhury, S. K. (2015). *Rural Development: Concept and Recent Approaches*. Concept Publishing Company.
- Comer, D. E. (2018). *The Internet Book: Everything You Need to Know About Computer Networking and How the Internet Works*. Chapman & Hall/CRC.
- Laudon, K. C., & Laudon, J. P. (2018). *Management Information Systems: Managing the Digital Firm*. Pearson.
- Microsoft Office 365: In Practice (2019). McGraw-Hill Education.
- Norton, P. (2019). *Introduction to Computers*. McGraw-Hill Education.

Semester – II
AGRI-BUSINESS
Course Code: D24-ECO-201

Max. Marks: 100
Time: 3 Hours

Theory Marks: 70
Internal Marks: 30

Note: There shall be nine questions in all. The first question is compulsory and contains seven short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

UNIT-I

Introduction of agriculture and agri-Business: Meaning, nature and scope of agriculture, difference between farm and non-farm sector; introduction of startup & agriculture; agricultural marketing.

UNIT-II

Irrigation and agricultural technology: Green revolution, white revolution (dairy), blue revolution (fisheries), use of biotechnology and mechanical technology; sources of irrigation– progress of irrigation in India; GOBARDHAN, MILLETS SCHEME; JAL JEEVAN MISSION.

UNIT-III

Agricultural marketing and prices: Regulated marketing; co-operatives marketing – international trade of agricultural produce - WTO and agriculture; agricultural price policy: its objectives, price and income stabilization measures, minimum support price, CACP; terms of trade between agriculture and non-agricultural sector.

UNIT-IV

Agricultural finance and agro-industries: Source of agricultural finance– institutional system of agricultural finance. NABARD and Co-operative credit for agriculture sector; agro-industries: role of agro-industries in rural area, problems of rural industry, measures for development of rural industry; agro- processing industries in India: a) sugar industries b) textile industries c) horticulture and floriculture.

Suggested Readings:

- Phougat, Singh and Kumar, D. (2023). Principles of Agricultural Economics. Academic Publication, New Delhi.
- Raj, K. N. et al. (1988), Essays in Commercialization of Indian Agriculture, Oxford University Press, New Delhi.
- Sadhu A. N. & Singh Amarjit, Fundamentals of Agricultural Economics (1996), Himalaya Publishing House, Bombay.
- Soni, R. N. (2015), Leading Issues in Agricultural Economics, Vishal Publishing Co., Jalandhar.
- Thamarajakshi, R. (1994), Intersectoral Relationship in a Developing Economy, Academic Foundation, Delhi.
- Vaidhanathan, A. (1995), The Indian Economy: Crisis, Response and Prospects, Orient Longmans, New Delhi
- Wanmali, S. and C. Ramasamy (Eds.) (1995), Developing Rural Infrastructure, Macmillan, New Delhi.

Semester – II
RURAL DEVELOPMENT PROGRAMMES IN INDIA
Course Code: D24-ECO-202

Max. Marks: 100
Time: 3 Hours

Theory Marks: 70
Internal Marks: 30

Note: There shall be nine questions in all. The first question is compulsory and contains seven short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

UNIT-I

Introduction to rural development: History of rural development programmes in India: concept of rural development programmes meaning, types, agencies, indicators (parameters) of rural development.

UNIT -II

Rural development models: Changing models and approaches of rural development programmes in different plan periods through different policies and strategies programmes.

UNIT -III

Rural development programmes: Major programmes of rural development in Indian village: road, electricity, drinking water, health, family welfare sanitation, employment, housing agricultural, animal husbandry, poverty alleviation, MNREGA, clean India (Swachchha Bharat) Sarwa Shiksha Abhiyan.

UNIT -IV

Barrier of Rural Development Programmes: Cultural, social, economic political, religious, geographical, psychological, educational, physical, communicational.

Suggested Readings:

- Shanker Chatterjee - Rural Development Programmes in India
- Vidyarthi, L.P – Rise of Anthropology in India
- Vidyarthi, L.P and B.K. Rai – Tribal Culture of India
- Sharma, V. P.- Contemporary Indian Society (In the beginning of 21st Century)
- Sharma, V. P.- An Introduction to rural development in India

Semester – II
RESEARCH METHODOLOGY
Course Code: D24-ECO-203

Max. Marks: 100
Time: 3 Hours

Theory Marks: 70
Internal Marks: 30

Note: There shall be nine questions in all. The first question is compulsory and contains seven short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

UNIT-I

Introduction to research in social sciences: Objectives, significance, and limitations of research in social science, the interplay between theory and research, types of research, ethical considerations in social science research.

UNIT -II

Review of literature: Need and purpose for reviewing literature, sources of literature. hypothesis: meaning, types, and characteristics of a good hypothesis. sampling: census vs. sampling, techniques and methods of sampling, sampling, and non-sampling errors.

UNIT -III

Data collection: Meaning, types, sources, and methods of collecting data. paper writing: introduction, types of manuscripts, general instructions for authors, selection of journal, submission of manuscript. parts of papers.

UNIT -IV

Data processing: Editing, coding, classification tabulation and analysis of data. report writing: meaning, purpose, and types of reports; steps, format, and final presentation of research report. documentation: footnotes, references, and bibliography.

Suggested Readings:

- Bhandarkar PL and TS Wilkinson (2010): Methodology and Techniques of Social Research, Himalaya, New Delhi.
- Clive Seale (2004): Social Research Methods: A Reader, Routledge Student Readers Indian Print.
- Cooper D.R. and Pamela S Schindler (2013): Business Research Methods, Tata McGraw-Hill/Irwin.
- Krishnaswamy M and M Ranganathan (2014): Methodology of Research in Social Sciences, Himalaya Publishing House, New Delhi.
- Moser CA and Kalton G (1985): Survey Methods in Social Investigation, Darmouth Publishing Co. Ltd. England.
- William J. et.al. (2006): Methods in Social Research, Surjeet Publications, Delhi

Semester – II
NATURAL RESOURCES MANAGEMENT
Course Code: D24-ECO-204

Max. Marks: 100
Time: 3 Hours

Theory Marks: 70
Internal Marks: 30

Note: There shall be nine questions in all. The first question is compulsory and contains seven short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

UNIT-I

Introduction to natural resources management: Definition and scope of natural resources, classification of natural resources, significance of resource management, principles of sustainable development, global and national policies related to natural resources.

UNIT-II

Land and water resources management: Land use planning, soil conservation techniques, watershed management, irrigation methods, sustainable agricultural practices, management of freshwater resources, water quality management, impacts of climate change on water resources.

UNIT-III

Forest and wildlife resources management: Forest types and distribution, forest management practices, biodiversity conservation, wildlife habitats preservation, role of indigenous communities in management, legal and institutional frameworks.

UNIT-IV

Energy and mineral resources management: Types of energy resources, energy consumption and conservation, sustainable extraction of mineral resources, environmental impacts of mining, policies for resource management, role of technology, transition to sustainable energy systems.

Suggested Readings:

- Boyle, G., Everett, B., & Ramage, J. (2012). *Energy Systems and Sustainability: Power for a Sustainable Future*. Oxford University Press.
- Chiras, D. D. (2013). *Environmental Science: Creating a Sustainable Future* (9th ed.). Jones & Bartlett Learning.
- Cuning, E. (2017). *Forest Management and Conservation*. Wiley.
- Gleick, P. H. (2014). *Water Resources Management: A Water Management Perspective*. Island Press.
- Gupta, H. K. (2011). *Disaster Management* (2nd ed.). Universities Press.
- Owen, O. S., & Chiras, D. D. (2010). *Natural Resource Conservation: Management for a Sustainable Future* (10th ed.). Pearson.
- Tietenberg, T., & Lewis, L. (2018). *Environmental and Natural Resource Economics* (11th ed.). Routledge.

Semester – II
DIGITAL ECONOMY
Course Code: D24-ECO-205

Max. Marks: 100
Time: 3 Hours

Theory Marks: 70
Internal Marks: 30

Note: There shall be nine questions in all. The first question is compulsory and contains seven short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-I

Introduction to the digital economy: Definition and scope, historical evolution, key concepts - digitalization vs traditional economy; digital transformation of industries- retail and consumer goods, finance and fintech, healthcare and healthtech, manufacturing and industry 4.0.

Unit-II

Digital transformation: Digital technologies – big data analytics, internet of things (IOT), artificial intelligence and machine learning impact on businesses and society - changes in business models, social implications regulatory landscape - digital regulations and policies, challenges in governance

Unit-III

Role of data in the digital economy: Big data and analytics, data as an economic asset, privacy and data protection; digital platforms and ecosystems: characteristics of digital platforms, network effects and economies of scale, case studies: Amazon, Google, Facebook, Alibaba.

Unit-IV

Digital policy and future: Trends privacy and data protection, net neutrality intellectual property in the digital age; global digital economy trends – emerging technologies (blockchain, 5G) international collaborations and standards ethical considerations in the digital economy- AI ethics, social responsibility of digital businesses, future of work in the digital economy.

Suggested Readings:

- "Artificial Intelligence: A Guide for Thinking Humans" by Melanie Mitchell
- "Artificial Unintelligence: How Computers Misunderstand the World" by Meredith Broussard
- "Digital Economy: Complexity and Variety vs. Rationality" by Viktor O. Ledenyov and Dimitri O. Ledenyov
- "Digital Wars: Apple, Google, Microsoft and the Battle for the Internet" by Charles Arthur
- "Future Crimes: Inside the Digital Underground and the Battle for Our Connected World" by Marc Goodman
- "The Digital Economy: Promise and Peril in the Age of Networked Intelligence" by Don Tapscott
- "The Internet of Things: How Smart TVs, Smart Cars, Smart Homes, and Smart Cities Are Changing the World" by Michael Miller
- "The Second Machine Age: Work, Progress, and Prosperity in a Time of Brilliant Technologies" by Erik Brynjolfsson and Andrew McAfee
