

Post-Graduation Diploma in Rural Development (PGDRD)

Programme Code: 04PGD001

PROGRAMME OBJECTIVE

The structure of the Post-Graduation Diploma in Rural Development (PGDRD) Programme is designed to produce post graduates diploma in rural development and relative subjects with rigorous practical, analytical and research based skills, which are exceptionally well-equipped to go onto Diploma in rural development or employment in industrial, academic and the public service. The PGDRD programme provides:

- To analyze the rural based problems.
- To impart knowledge about various practical tools employed to study rural problems.
- The objective of this course is to understand Medicinal Plant Production Techniques and Extraction of natural products as well agricultural practices, farm enterprises and traditional medicinal system.
- To study some of the basic properties of the rural development for appropriate solution of rural problem.
- To demonstrate the basic concepts of Lac cultivation, Sericulture, Mushroom production, Bee keeping and rural technology.
- To understand Entrepreneurship and Agri Business Technology.
- To gain knowledge of modern techniques, theory and observational results in relative topics
- To explain the different craft tradition of India.
- To understand research and knowledge of different parts of research.
- To promote research culture and an environment that encourages the student's originality and creativity in their research.
- Skills to enable the student to critically examine the background literature relevant to their specific fields.

PROGRAMME OUTCOMES

- Updation and confidence in subjects.
- Development of orientation.
- Participation in the field of scientific laboratory, research centre.
- Value added achievements.
- Promotion in higher education.
- Useful in competing the national level examination as NET, SLET, CSIR, Gate, JEST, CAT, MAT, etc.

PROGRAMME SPECIFIC OUTCOMES

- Understanding the scientific temperaments of rural development.

- Enhancing the advance concepts.
- Updation with relevant scenario in field of rural technology.
- Knowledge and application of modern equipments.
- Preliminary knowledge of research.
- Especially jobs in research centers.
- Critical thinking of a problem.
- Preparation of self-employability.
- Capacity building for entrepreneurship.

Course Code: 4MPGDRD101

Course Name: Rural Development – Indian Context

Course Objective

- Students will understand the rural society in India and their dimensions.

Course Outcome

Students will be able to understanding of

- Rural society in India
- Rural development administration
- Agricultural extension services
- Rural social structure

Course Code: 4MPGDRD102

Course Name: Rural Development Programme

Course Objective

- Students will understand the rural development programmes in India and natural resource management.

Course Outcome

Students will be able to understanding of

- Poverty alleviation programmes
- Rural employment programmes
- Basic rural infrastructures
- Natural resource and environment management practices

Course Code: 4MPGDRD103

Course Name: Rural Development Planning and Management

Course Objective

- Students will understand the rural development planning and management and project appraisal.

Course Outcome

Students will be able to understanding of

- Rural development planning
- Project appraisal
- Project monitoring and evaluation
- Voluntary actions

Course Code: 4MPGDRD104

Course Name: Rural Social Development

Course Objective

- Students will understand the women empowerment, Child development programme and social legislation and policies.

Course Outcome

Students will be able to understanding of

- Role of women in rural development
- Health and nutrition of rural children
- Women empowerment
- Development of scheduled
- Social legislations

Course Code: 4MPGDRD105

Course Name: Rural Health Care

Course Objective

- Students will understand the rural health care system, sanitation programmes and health education in rural society.

Course Outcome

Students will be able to understanding of

- Health status in rural India
- Different health delivery systems

- Child health programme and sanitation
- Rural health care services

Course Code: 4MPGDRD106

Course Name: Communication and Extension in Rural Development

Course Objective

- Students will understand the communication techniques and extension management.

Course Outcome

Students will be able to understanding of

- Communication principles and techniques
- Communication channels used in rural development
- Rural extension methods

MASTER OF SCIENCE (M. Sc. – Rural Technology)

PROGRAMME CODE: 04PGR008

PROGRAMME OBJECTIVE

The structure of the M.Sc. (Rural Technology) Programme is designed to produce post graduates of rural technology and relative subjects with rigorous practical, analytical and research based skills, which are exceptionally well-equipped to go onto Masters in rural technology, or employment in industrial, academic and the public service. The M.Sc. (Rural Technology) programme provides:

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- To impart knowledge about various practical tools employed to study rural problems.
- The objective of this course is to understand Medicinal Plant Production Techniques and Extraction of natural products as well agricultural practices, farm enterprises and traditional medicinal system.
- To study some of the basic properties of the rural development for appropriate solution of rural problem.
- To demonstrate the basic concepts of Lac cultivation, Sericulture, Mushroom production, Bee keeping and rural technology.
- To understand Entrepreneurship and Agri Business Technology.
- To gain knowledge of modern techniques, theory and observational results in relative topics
- To explain the different craft tradition of India.
- To understand research and knowledge of different parts of research.
- To promote research culture and an environment that encourages the student's originality and creativity in their research.
- Skills to enable the student to critically examine the background literature relevant to their specific fields.

PROGRAMME OUTCOMES

- Updation and confidence in subjects.
- Development of orientation.
- Participation in the field of scientific laboratory, research centre.
- Value added achievements.
- Promotion in higher education.
- Useful in competing the national level examination as NET, SLET, CSIR, Gate, JEST, CAT, MAT, etc.

PROGRAMME SPECIFIC OUTCOMES

- Understanding the scientific temperaments of rural development.

- Enhancing the advance concepts.
- Updation with relevant scenario in field of rural technology.
- Knowledge and application of modern equipments.
- Preliminary knowledge of research.
- Especially jobs in research centers.
- Critical thinking of a problem.
- Preparation of self-employability.
- Capacity building for entrepreneurship.

Course Code: 6SMRT101

Course Name: Sustainable Rural Technology for Livelihood Improvement

Course Objective

- Students will understand the Lac cultivation, Sericulture, Mushroom production, Bee keeping and other aspect of livelihood improvement for sustainable.

Course Outcome

Students will be able to understanding of

- Basic concepts of Lac cultivation
- Basic concepts of Sericulture
- Production techniques of Mushroom
- Bee keeping practices
- Basic concepts of rural technology

Course Code: 6SMRT102

Course Name: Rural Development – Programmes

Course Objective

- Students will understand the different Govt. programme and schemes for rural development.

Course Outcome

Students will be able to understanding of

- Different Govt. Schemes & programme.
- History and future prospect of Rural development
- Natural resource management practices
- Basic services and infrastructure in rural area.

Course Code: 6SMRT103

Course Name: Sustainable Livelihood in Agriculture

Course Objective

- The use of biological method and organic farming systems for sustainable crop production.

Course Outcome

Students will be able to understanding of

- Basics of sustainable agriculture
- Elements of agroforestry
- Organic farming
- Technical evolution of cultivation practices
- Improvisation of crop production

Course Code: 6SMRT104

Course Name: Rural Community Engagement: Appraisal and Action for Rural Development Planning & Voluntary Action

Course Objective

- The basic objective of this course is to get rural community Engagement and participatory learning technique.

Course Outcome

Students will be able to understanding of

- PRA technique for community engagement.
- Working pattern of NGO's
- Social mapping
- Rural extension programmes

Course Code: 6SMRT201

Course Name: Research Methodology and Statistics in Rural Technology

Course Objective

- The basic objective of this course is to get familiar with Research Methodology and Statistics.

Course Outcome

Students will be able to understanding of

- Statistics tools and apply in research

- Data interpretation
- Data presentation
- Report writing
- Research design
- Literature survey
- Research trends in rural technology

Course Code: 6SMRT202

Course Name: Entrepreneurship and Agri Business Technology & Management

Course Objective

- The objective of this process is to introduce the Entrepreneurship and Agri Business Technology & Management

Course Outcome

Students will be able to understanding of

- Entrepreneurship and Agri Business Technology.
- Institutional Intervention and Capacity building for Agri Business Entrepreneurship
- Project Management for Agri Business
- Agri-Business Plan

Course Code: 6SMRT203

Course Name: Indigenous Art and Its Management

Course Objective

- Students will understand the Craft traditions of India.

Course Outcome

Students will be able to understanding of

- Different craft tradition of India.
- Making processes and techniques of bell metal craft (Dhokara art/ Ghardwa art), tribal iron art, wooden art, terracotta art and bamboo art.
- R & D at rural art.
- Role of govt. as well as NGO's in development of rural artisans.

Course Code: 6SMRT204

Course Name: Application of ICTS & Remote Sensing in Rural Technology

Course Objective

- The objective of this course is to learn the fundamentals of remote sensing and ICT

application.

Course Outcome

Students will be able to understanding of

- The basic concepts of remote sensing and ICT application.
- Geographical Information Systems (GIS)
- Global Positioning System Applications in Rural Technology
- Remote Sensing Applications in Rural Technology
- Internet for Information and communication
- Green Technology and Social Networks for Agricultural Development

Course Code: 6SMRT301

Course Name: Rural Infrastructural Engineering

Course Objective

- The basic objective of this course is to get familiar with Rural Infrastructural Engineering.

Course Outcome

Students will be able to understanding of

- Rural Infrastructural Engineering technique
- Application of Infrastructural Engineering
- About building materials
- Surveying and leveling
- Wooden and fabrication works

Course Code: 6SMRT302

Course Name: Soil and Water Conservation Engineering

Course Objective

- The basic objective of this course is to get familiar with Soil and Water Conservation technique.

Course Outcome

Students will be able to understanding of

- Soil and water engineering
- Soil and water conservation technique.
- Watershed management
- Irrigation pattern
- Renewable and non-renewable energy sources

- Energy crops

Course Code: 6SMRT303 (Elective –I)

Course Name: Medicinal Plant Production Techniques and Extraction

Course Objective

- The basic objective of this course is to get familiar with Medicinal Plant Production Techniques and Extraction.

Course Outcome

Students will be able to understanding of

- Medicinal plant cultivation
- Natural product extraction
- Propagation of medicinal plant
- Legislation and policies for crude drug marketing
- Market potential of medicinal plant
- Importance of different medicinal plant

Course Code: 6SMRT304 (Elective –I)

Course Name: Dairy Management and Products

Course Objective

- The basic objective of this course is to get familiar with Dairy Management and Products

Course Outcome

Students will be able to understanding of

- Dairy management
- Dairy technology
- Dairy engineering
- Value addition of dairy products
- Animal husbandry
- Dairy markets and co-operatives

Course Code: 6SMRT306 (Elective –II)

Course Name: Food Science Technology & Value Addition in Natural Product

Course Objective

- The basic objective of this course is to get familiar with Food Science Technology & Value Addition.

Course Outcome

Students will be able to understanding of

- Food Science Technology
- Value Addition of edible products
- Meal planning
- Nutrient value of food
- Food preservation techniques
- Rural cottage industries and food markets

Course Code: 6SMRT307 (Elective –II)

Course Name: Introduction to Horticulture

Course Objective

- The basic objective of this course is to get familiar with Introduction to Horticulture.

Course Outcome

Students will be able to understanding of

- Basics of horticulture
- Cultivation and cropping system of horticultural crop
- Propagation methods
- Horticultural tree plantation
- Agro-horti climatic region in Chhattisgarh

Course Code :6SMRT401 (Elective –III)

Course Name: Rural Social Development

Course Objective

- The basic objective of this course is to get familiar with Rural social development.

Course Outcome

Students will be able to understanding of

- Rural social development
- Policies and social legislations for Child
- Rural women empowerment
- Social status of women in Indian society
- Legislations of women

Course Code: 6SMRT402 (Elective –III)

Course Name: Communication and Extension in Rural Development

Course Objective

- The basic objective of this course is to get familiar with Rural development.

Course Outcome

Students will be able to understanding of

- Communication techniques for rural development
- Extension services
- Communication management practices
- Use of print media in rural development

Course Code: 6SMRT404 (Elective –IV)

Course Name: Rural Health Care

Course Objective

- The basic objective of this course is to get familiar with rural health care.

Course Outcome

Students will be able to understanding of

- Rural health care programme
- Communicable diseases in rural area
- Sanitation and hygiene
- Health educations

Course Code: 6SMRT405 (Elective –IV)

Course Name: Rural Energy Resources

Course Objective

- The basic objective of this course is to get familiar with Rural Energy Resources.

Course Outcome

Students will be able to understanding of

- Rural energy resources
- Rural energy sectors
- Bio-gas technology
- Solar energy
- Bio fuels and biodiesel

DOCTOR OF PHILOSOPHY (Ph. D – Rural Development)

PROGRAMME CODE: PH.D001

PROGRAMME OBJECTIVE

The structure of the Ph. D (Rural Technology) Programme is designed to produce post graduates of rural technology and relative subjects with rigorous practical, analytical and research based skills, which are exceptionally well-equipped to go onto Masters in rural technology, or employment in industrial, academic and the public service. The Ph. D (Rural Technology) programme provides:

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PROGRAMME OUTCOMES

- Updation and confidence in subjects.
- Development of orientation.
- Participation in the field of scientific laboratory, research centre.
- Value added achievements.
- Promotion in higher education.

PROGRAMME SPECIFIC OUTCOMES

- Understanding the scientific temperaments of rural development.
- Enhancing the advance concepts.
- Updation with relevant scenario in field of rural technology.

- Knowledge and application of modern equipments.
- Preliminary knowledge of research.
- Especially jobs in research centers.
- Critical thinking of a problem.
- Preparation of self-employability.
- Capacity building for entrepreneurship.

Course Code: 5010153701

Course Name: Rural Technology

Course Objective

- Ph. D scholars will understand the Lac cultivation, Sericulture, Mushroom production, Bee keeping and other aspect of livelihood improvement for sustainable.

Course Outcome

Students will be able to understanding of

- Basic concepts of rural technology
- Sustainable development
- Indigenous technical knowledge
- Sustainable agriculture development

Course Code :5010112801

Course Name: Research Methodology and Statistics in Rural Technology

Course Objective

- Ph. D scholars will understand the research in rural technology, research design formulating and data interpretation in research.

Course Outcome

Students will be able to understanding of

- Research pattern in rural technology
- Formulating research deign
- Data collection and sampling method in rural technology
- Effective report writing

Course Code: 5010112802

Course Name: Research and Publication Ethics

Course Objective

- The objective of the course is to enable Ph.D scholars to understand about the publication

ethics and publication misconduct and to create the awareness.

Course Outcome

Students will be able to understanding of

- After learning this subject scholars will be able to understand the concepts and process of research and aware about the publication ethics and publication misconduct