

**REFRESHER COURSE
ON
NATURAL RESOURCE MANAGEMENT FOR RURAL
DEVELOPMENT**

(10th March 2014 to 30th March 2014)

**Organised by UGC - Academic Staff College
Guru Ghasidas Vishwavidyalaya, Bilaspur (CG) 495009**

AIMS AND OBJECTIVES

Natural resources (land, water, biodiversity and genetic resources, biomass resources, forests, livestock and fisheries) – the very foundation of human survival, progress and prosperity, have been degrading fast, and the unprecedented pace of their erosion is one of the root causes of the agrarian crisis that the country is facing. The demographic and socio-economic pressures notwithstanding, the unmindful agricultural intensification, over use of marginal lands, imbalanced use of fertilizers, organic matter depletion and deteriorating soil health, extensive diversion of prime agricultural lands to non-agricultural uses, misuse and inefficient use of irrigation water, depleting aquifers, saline of fertile lands and water logging, deforestation, biodiversity loss and genetic erosion, and climate change are the main underlying causes. There is a growing recognition that the challenges in the development and management of rural areas globally are due to a multitude of social, economic, political and ecological factors. Understanding and dealing with this complex and multi-layered reality therefore requires interdisciplinary analyses and innovative solutions. The present course emphasised the comprehensive integrated development of multiple natural resources, situation specific and need-based development of individual resources and integrated crop-livestock-fish-biomass farming system based management of natural resources, especially in rain fed areas.

Course Brief : The present course contain the three module. The brief area of module are as follows -

Module : 1 Natural resources and their issues

- Degrading Natural Resources and the Agrarian Crisis like land, soil, water, biodiversity, agricultural genetic resources, forests, livestock etc.
- Watershed development and its management
- Irrigation - types, source and design of various irrigation canals
- Rural waste management
- Sustainable Development of Livelihoods
- Reliable Database and Soil and Land Mapping
- Critical analysis of various rural development program like MMP, CADP, DPAP, DDP, HAOP, IRDP, MREP, RLEGP, JRY, TRYSEM, DWERA, CAPART, MANERGA, NRHM, ASHS, etc

Module : 2 Forest and Energy Resources

- Source & classification of energy
- Energy requirement in rural and urban areas

- production techniques of various natural products viz lac, mushroom, api-culture, mulberry and non-mulberry sericulture, vermi-culture
- Ethno botany and indigenous traditional drugs
- Horticulture and floriculture
- Medicinal Plants - cultivation techniques, collection and processing
- Assessment of herbal medicine
- Aromatic plants - extraction, cultivation and management
- Natural product management : (grasses, bamboos, canes, tanes, gums, resins and edible foods)

Module :3 New Strategies And Approaches For Management of Natural Resources

- Organizational and management reforms
- Monitoring and evaluation process
- Strengthening Information System
- Economic and financial incentives and fund flow
- Decentralization and professionalism
- Sustainable development of common property resources
- Common property resources rights and their realization

How to apply

Interest candidate may apply through the enclosed proforma. The duly filled application should be reach the course director on or before 5th March 2014

Eligibility

Application should be a post graduate in any discipline of natural resources / environment / agriculture or allied science and working as Assistant professor / Scientist / Technical Officer or equivalent / Research scholar in SAUs / Central University / Deemed university / General University and colleges / Krishi Vigyan Kendra and Government organisation. TA/DA and accommodation charges will be borne by candidate / sponsored organisation

Number of seats : 20

Important Dates

Last date of application submission : 5th March 2014
Intimation of selection : 6th March 2014
Confirmation by participants : 8th March 2014
Course commencement : 10th March 2014

About the Department of Rural Technology

The Department of Rural Technology and Social Development is established in the year 2001 with an aim to carry out teaching & research activities for overall development of rural artisans. The indigenous knowledge of the rural people has been utilized by the department for creation of need-based technologies for sustainable rural development. Presently, the department runs professional and job oriented Bachelor, Master and Doctoral Degree courses related to Rural Technology. The primary motive behind running these courses is to facilitate appropriate development of science and need-based technology for rural areas. The department runs in its existing building with constructed area of 543 square meter and has an its extension with constructed area of 869 square meter to

be furnished in near future. The department has established new EDUSAT classroom and successfully organized two training programs last year jointly with Indian Institute of Remote Sensing, Dehradun. Several advanced scientific instruments are available in the department, which have been used in research as well as in conducting project work of undergraduate and post graduate students. New Accelerated Solvent equipment (ASE 150) has been installed for innovative research in the field of medicinal plants. New remote sensing GIS softwares ERDAS 2011, ArcGIS, and 21st century GIS were purchased for remote sensing laboratory work and research.

Academic Staff College

The relentless efforts of university for achieving academic excellence have been recognized at national level, the UGC has Sanctioned Academic Staff College to this University in March 2009. Academic Staff College has developed the vision, mission and set goals and objectives aligned to UGC ASC guidelines / norms. The ASC, GGv envisages to propagate the values of quality education and train the teachers to become intellectually enlightened, morally upright, emotionally balanced, socially committed, patriotic, eco-friendly and accomplished, and sensitive to the demands and the needs of the students in their journey towards achieving the goals and objectives of higher education. Academic Staff College is effectively functioning to cater the needs both of technical and non technical staff of Universities / Colleges.

The ASC has introduced innovative ways to communicate the participant and resource persons for rapid dissemination of information about scheduled trainings. The participants and resource persons came from different part of the country. ASC has conducted needful exercises to maintain the quality of training programme.

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