

**SHORT TERM TRAINING COURSE
ON
APPLICATION OF REMOTE SENSING, GPS AND GIS TECHNIQUES
FOR
NATURAL RESOURCE MANAGEMENT
(10th March 2014 to 15th March 2014)**

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

AIMS AND OBJECTIVES

In modern era, the most versatile decision making technique for natural resource management is available as Remote Sensing (RS), Geographical Information System (GIS) and Global Positioning System (GPS). The techniques have emerged as one of with increasing applications in natural resources. The integrated application of these techniques culminates in harnessing the natural resources, to help the process of planning the integrated development. These techniques give a visual impression of the landscape that helps to make quick decision in natural resource management. It widely used in monitoring, management, planning in diverse fields of activities i.e. sustainable development, infrastructure development, disaster management, environmental monitoring, rural and urban planning etc. Remotely sensed data from satellites with the help of GPS, serve as the basic database in GIS for multi-criteria decision making in several application, viz forestry, agriculture, land use / land cover, groundwater and mineral exploration, land records, mining, wasteland management, coastal mapping and development, socio-economic, crime investigation etc.

The main objective of this course is to enhance the knowledge of participants in the field of geographic information system. The natural resource management issues are to be dealt more efficiently, effectively and convincing way by applying those technologies rather than the traditional methods of management. These system and technologies make countable efforts to identify and access the threats and difficulties of natural resources management. The course also helps to develop the level of awareness.

Course brief

The aim of the course is to enable the participants to apply RS & GIS tools and techniques needed in managing and applying in natural resources management. The participants will learn and enhance their knowledge of rectification, mapping techniques, change detection and GIS. The course covers the following modules : fundamentals of remote sensing, geo-referencing of

satellite data, mapping, natural resource inventory, change detection, application of GPS for natural resource mapping, decision support system and planning. The course is a combination of lectures and laboratory session with field visit to select sites and towards the end; the participants prepare a report, based on lessons learned from sessions.

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

Applicant 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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