

## SHORT TERM COURSE

on

# GEO INFORMATION SCIENCE AND TECHNOLOGY

DURATION - 6 MONTHS



**Dr.R.Satheesh Centre for Remote Sensing & GIS**  
(supported under NNRMS-SC-T programme of Govt. of India led by ISRO)  
**School of Environmental Sciences**  
**Mahatma Gandhi University**

## MAHATMA GANDHI UNIVERSITY AND SCHOOL OF ENVIRONMENTAL SCIENCES

Mahatma Gandhi University is one of the premier institutions for higher learning in India. It was founded on 2nd October 1983, the 115th birth anniversary of Mahatma Gandhi, Father of the Nation, by an Act of Government of Kerala. Today, it stands foremost among the developing generation of Indian Universities., incredible in academic pursuits, modern facilities, prolific in new methods, ideas and a host to distinguished scholars.

With the objective of consolidating the existing efforts and to pay focussed attention to the frontier areas of environmental sciences, University has established the School of Environmental Sciences in 1995 as a Centre of learning for advanced studies in different branches of Environmental Sciences.



## DR.R.SATHEESH CENTRE FOR REMOTE SENSING AND GIS

Dr. R. Satheesh Centre for Remote Sensing and GIS (formerly known as the Centralized Remote Sensing and GIS Facility, renamed after the first Co-ordinator of the Facility and Reader of the School, late Dr. R. Satheesh), the first of its kind in a university in Kerala is established by the University as a 'Centre of Excellence' in the field of Remote Sensing and GIS applications with technical and financial support from the Indian Space Research Organization (ISRO), Dept.of Space, Govt. of India under the National Natural Resources Management System, Sub Committee on Technology and Training (NNRMS-SC-T) Programme as a joint venture of the University and ISRO. The facility was inaugurated by Dr. G. Madhavan Nair, former Chairman, ISRO on March 15, 2003.

## OUR LOCATION

The university campus is in the Priyadarsini Hills, Athirampuzha 13 kilometers from Kottayam Railway Station and 4 kilometers from Ettumanoor. To reach the campus take the deviation from M.C. Road at Ettumanoor or Gandhi Nagar. The nearest airport is Cochin International Airport situated at Nedumbassery, Cochin which is about 80 km away. Private buses to Ernakulam starting from the Nagampadom bus stand at the northern end of the railway platform at Kottayam stop at the university. It is located 13 km away from the city of Kottayam.



## GEO INFORMATION SCIENCE AND TECHNOLOGY

Geomatics is a comprehensive term applied to the Geoinformation Science and Technology - the powerful combination of various spatial and data processing technologies namely:

Remote Sensing, Photogrammetry, Mapping and Surveying, GPS, Information and Communication Technology (ICT) and GIS.





## THE STRUCTURE AND CONTENT

The course is designed by experts to provide sufficient knowledge and advanced training in the field of RS, GIS and GPS. The theoretical and practical modules consist of fundamental concepts of Remote Sensing, Digital Image Processing, GIS, GPS, Database Design, Computer and ICT, Information Analysis and modelling.

The courses highlights on various application fields like, Natural Resource Management, Utilities Management, Urban and Regional Planning, Land or Urban Information Systems and Municipal GIS, Customisation and Application Software Development.

## THE COURSE MODULES

- Mapping Concept- Geodesy
- Geographical Information System (GIS)
- Remote Sensing
- Digital Image Processing
- Global Navigation Satellite Systems and GPS Survey
- Total station survey
- AutoCAD
- Project Work



## TARGET GROUP AND ELIGIBILITY

Graduates / Post Graduates and researchers/scholars in Biology, Physics, Chemistry, Geology, Geography, Ecology, Environmental Science and Management, Agriculture, Forestry, Architecture, Town and Country planning, Civil engineering, Electronics, Computer Science, Mathematics, Community Medicine, Commerce and Management can apply. Working professionals and senior and middle level officials from corporate bodies, government departments, agencies, NGOs, local self-governments and researchers and academicians from universities, colleges and institutions can participate the training as sponsored candidates.

## DURATION AND PERIODICITY

The duration of the course is 6 months (24 weeks) comprising of theory, practical and project work. There will be two batches in a year commencing in March and September every year.

## FEE STRUCTURE

Prior Registration: Rs.1, 000/-

Course Fee :Rs. 36,000/- (Include prior registration fee and can fee and can remit in 2 instalments.)

Caution Deposit : Rs. 1,500/- (Refundable)

## EVALUATION AND CERTIFICATION

The participants will be evaluated through internal assessment, final examination for theory and viva- voce for the project work. Participants will be graded based on the marks gained and the successful candidates will be issued proficiency certificates. be issued proficiency certificates.

## HOW TO APPLY

The application form and details can be had from the office of the School on payment of Rs. 100/- as DD drawn in favour of the The Director, School of Environmental Sciences, Mahatma Gandhi University payable at State Bank of Travancore, M.G. University Campus Branch either through post or as cash directly in person or downloaded from the website [www.sesmgmu.ac.in](http://www.sesmgmu.ac.in). The completely filled application form along with the registration fee of Rs 150/- as DD drawn in favour of Director, School of Environmental Sciences, Mahatma Gandhi University should be mailed to the [The Co-ordinator, Dr. R. Satheesh Centre for Remote Sensing and GIS, School of Environmental Sciences, Mahatma Gandhi University, Priya Darshini Hills P. O., Kottayam - 686 560, Kerala, India. Mob: 9446767451](#) Those who want to reserve their seats while applying itself should send a single DD of Rs.1,250/- (100 + 150 + 1000); Rs. 1,000/- is the amount that is paid from the course fee in advance to book the seat, provided the qualifications are matching with the requirement. This arrangement is due to the admission policy of 'First-Come First Serve'

## SPECIAL FEATURES AND FACILITIES

- Qualified and well experienced faculties with expertise in different areas of Geoinformation Science and Technology.
- Ample hands-on experienced in real-time projects.
- Well equipped state-of-the-Art facilities laboratory housed with ground truth and interpretation equipments and high performance graphic workstations, PCs and Servers and powerful industry standard software packages.
- High quality and exhaustive training materials.
- Lectures from invited faculties, regular workshops and seminars.
- Training organized with technical support from ISRO, Bangalore under the National Natural Resources Management System (NNRMS).



## CONTACT US

**THE CO-ORDINATOR**  
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