DURATION AND PERIODICITY

The duration of the course is 3 months (12 weeks) comprising of theory, practical and project work. There will be four batches in a year commencing in January, April, July and October every year.

DURATION AND PERIODICITY

Prior Registration: Rs.10, 000/- (This amount will be adjusted with first instalment fee)
Course Fee :Rs. 45,000/- (Include prior registration fee which can remit in 2 instalments.)
Caution Deposit : Rs. 5,000/- (Refundable)

EVALUATION AND CERTIFICATION

The participants will be evaluated through internal assessment, final examination for practical, 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.

HOW TO APPLY

The application form and details can be downloaded from the website www.sesmgu.ac.in.The completely filled application form along with Demad Draft worth Rs. 2500/- (Rs. 500- Application fee + Rs.2000- Registration fee; the amount paid (Rs.2000/-) will be adjusted with first installment of the fee payment). DD should drawn in favour of Director, School of Environmental Sciences, Mahatma Gandhi University should be posted to the address **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 Demand Draft worth Rs.10,500/- along with the application form (Rs. 500- Application fee + Rs.10000- Registration fee). This arrangement is due to the admission policy of 'First-Come First Serve'. Fee once paid will not be refundable.

SPECIAL FEATURES AND FACILITIES

- Qualified and well experienced faculties with expertise in different areas of Advanced Surveying and Drafting.
- 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.

THE CO-ORDINATOR
Dr. R. SATHEESH CENTRE FOR REMOTE SENSING AND GIS
School of Environmental Sciences
Mahatma Gandhi University
P. D. Hills P. O., Kottayam -686560
Ph: 0481-2732120, 2732620
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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 Goverment 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.

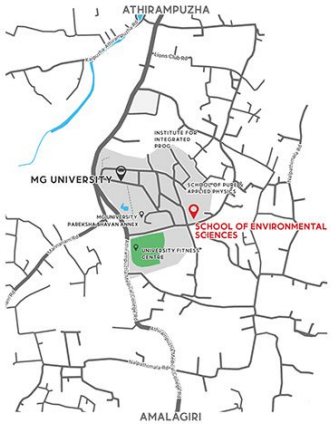
Mahatma Gandhi University has been reaccredited with an A++ grade by the National Assessment and Accreditation Council (NAAC) in the fourth cycle with a CGPA score of 3.61. MGU is the first University in Kerala to achieve A++ in the fourth cycle of reaccreditation.

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 fromEttumanoor. 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.



ADVANCED SURVEYING AND DRAFTING

Advanced surveying and drafting is a specialized field within civil engineering and land surveying that involves the use of advanced techniques, technologies, and methodologies to gather precise measurements and create detailed maps, plans, and drawings. This discipline goes beyond basic surveying and drafting principles to tackle complex projects and address specific challenges in various industries such as construction, infrastructure development, urban planning, environmental management, and resource exploration.

THE STRUCTURE AND CONTENT

Module I — Fundamentals of Surveying

- Definition, principle, various types of surveying
- Unit conversions
- Scales used in surveying
- Source of errors
- Surveying equipments and accessories
- Area calculations
- Applications

Module II — Surveying with conventional instruments

- Chain survey
- Survey using Tape
- Theodolite survey
- Levelling

Module III — Advanced survey with Total Station

- Introduction
- Station setup
- Topographic survey
- Setout
- Column Alignment and setout
- Remote Height
- Reference Line
- Contour Survey

Module IV — Advanced Survey with DGPS

- Introduction to DGPS
- Working Principle
- Receiver setup
- Topographic survey
- Site Detailing
- Area survey
- Contour survey

Module V — AutoCAD

- Basics of AutoCAD
- Site plan drawing
- Layer creation
- Commands drawing objects constructing and editing 2D geometry
- Contour map
- Area calculation

Module VI — Project Work

***LiDAR and UAV/Drone Based Surveying Modules can also studied on additional fee payment**

TARGET GROUP AND ELIGIBILITY

M.Tech/B.Tech/Diploma holders in Civil, Architects, Urban Planners, mining, Mechanical and Electronics Engineers.

ITI holders in Civil, Draftman, Surveying.

Graduates in any discipline from a recognized university can be applied.

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.