LIST OF SPEAKERS

1.Dr. Baiju K.R.
(Associate Professor & Director, School of Environmental Sciences, MG University, Kottayam)

2.Dr.Shijo Joseph
(Asst. Prof. and Coordinator, Centre for Climate Resilience and Environment Management)

3.Dr.Abin Varghese
(Co-Ordinator, Rs& GIS Division, School of Environmental Sciences, Mahatma Gandhi University)

4.Dr.Sumith Satheendran
(Technical Officer, Rs& GIS Division, School of Environmental Sciences, Mahatma Gandhi University)

5.Amrutha A.S
(Technical Assistant, Rs& GIS Division, School of Environmental Sciences, Mahatma Gandhi University)

DETAILS OF ORGANIZING COMMITTEE

Patron: **Dr.Sabu Thomas** (Vice Chancellor, MG University, Kottayam)

Chairman: **Dr. C. T. Aravind Kumar** (Pro- Vice Chancellor, MG University, Kottayam)

General Convenor: **Dr. Mahesh Mohan** (Asst. Prof. School of Environmental Sciences, Mahatma Gandhi University)

Organising Secretary: **Dr.Baiju K.R** (Director, School of Environmental Sciences, Mahatma Gandhi University)

Members

1.**Dr. E. V. Ramasamy** (Professor, School of Environmental Sciences, Mahatma Gandhi University)

2.**Dr. K.N. Krishnakumar** (Course Co-ordinator, Dept. of Geology, School of Environmental Sciences, Mahatma Gandhi University)

3.**Dr.Sylas V. P.**(Asst. Professor, School of Environmental Sciences, Mahatma Gandhi University)

4.**Dr.Abin Varghese** (Co-Ordinator, Rs& GIS Division, School of Environmental Sciences, Mahatma Gandhi University)

CONTACT DETAILS

Call us : 7306222841
9446767451

Location Info

CURRICULUM
BASED WORKSHOP
ON

GEOSPATIAL INFORMATION SCIENCE AND TECHNOLOGY

FOR UNIVERSITY/COLLEGE TEACHERS

In collaboration with
Kerala State Council for Science, Technology and Environment
(KSCSTE)

SEPTEMBER 22-24, 2022

Dr.R.Satheesh Centre for Remote Sensing & GIS
(Supported under National Natural Resources Management System – NNRMS-SC-T led by ISRO, Dept. of Space, Govt. of India)
School of Environmental Sciences
Mahatma Gandhi University
Kottayam, Kerala, India - 686560

MAHATMA GANDHI UNIVERSITY, KOTTAYAM, KERALA

Mahatma Gandhi University is one of the premier institutions for higher learning in India. It was foundered 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.

The School of Enviromental Sciences, MG University has a Centralised Remote Sensing and GIS Facility which is the pioneering facility for Remote Sensing and GIS among universities in Kerala established with technical and financial support from ISRO, Department of Space, Government of India in the year 2003. The Facility aims to give advanced research and corporate training, consultancy and complete location based solutions to the academic community, Government departments/local self-governments and students. The facility is equipped with the State-of-the-Art software for GIS, Photogrammetry and Image Processing and equipments and peripherals including the powerful Graphic Workstations, PCs and Servers.

ABOUT THE PROGRAMME

The number of earth science departments (geology, geography, environmental science) in Kerala has increased tremendously in recent years. There are more than 50 earth science departments and more than 200 faculties are working at various universities/ colleges in Kerala. In each academic year, more than 1000 students are getting graduated from those departments. Geoinformatics is a cardinal area of all earth science related subjects and also covers a great opportunity for employment. Government of India declared the current decade as the Geospatial decade and giving importance to G- Governance. Hence there is an huge demand for the skilled Geospatial technologists are there. All the earth science related courses have the Geoinformatics course in their curriculum also. As its an emerging field of science many of the beginner departments don't have facilities for improving practical based knowledge in the field. So a basic training in geoinformatics will provide a thorough knowledge of fundamental concepts and data processing of GIS and remote sensing to the faculties. The present workshop envisaged to provide a basic idea and building confidence among faculties across the state to create basic idea of practical oriented Geoinformatics.

Hence the students community of the Physical system will be ultimately benefited through the programme which inturn resulted in development of the technically skilled people for the country.

MODULE

Hands on training based on free and open source softwares (QGIS) will be conducted

Topics covered:

- **Geodesy**
- **GIS: Data Input, Vector Data analysis, 3D analysis**
- **Remote Sensing: Data Sources, Layer Stacking, Image Classification**
- **GNSS: Principles, Marking Way points and Tracks, How to Process GPS data in GIS**
- **Practical sessions will be conducted only on Free- Open Source Software's (QGIS)**

WHO CAN APPLY ?

University/ College teachers of Earth Science Departments (Geology, Geography, Environmental Science)

HOW CAN APPLY ?

Applicants can remit the application fee via online mode to the following account

Director
School of Environmental Sciences
Mahatma Gandhi University
Bank Account No.: 67000886817
IFSC code: SBIN0070669

State Bank of India, MG University Campus (BranchCode: 070669) After remitting the application fee register using the following link to complete registration.

https://forms.gle/Us98qYFNUy5CPNrE8 OR

Food will be provided at the venue for regististered participants (Lunch+ Snacks). Accommodation facility can be arranged at University Guest House at the cost of the participants on prior intimation during registration. Those who have the laptops may bring the same for the training programme.

REGIESTRATION FEE - 500/-

FIRST 25 PARTICIPANTS ONLY WILL BE CONSIDERED

EXPECTED OUTCOME

Comprehend fundamental concepts and data processing of GIS with thorough practicals

Familiarize with remote sensing data acquisition and processing using image analysis tools

Training in Global Positioning System and processing of its end products by analysing spatial relationships