



DEPARTMENT OF GEOGRAPHY

Faculty of Earth Sciences

University College of Social Sciences & Humanities

Mohanlal Sukhadia University, Udaipur – 313 001 (Rajasthan)



APPLICATION FORM

for

**DST-NRDMS, Government of India Sponsored
National Level**

Winter School on Geospatial Technologies

GEOTECH-2016

28 NOVEMBER - 18 DECEMBER, 2016

Name (Block Letters) : _____

Designation : _____

Affiliation : _____

Date of Birth : _____ Gender: _____

Address for Correspondence : _____

Mobile* _____ E-mail*: _____

(*Please fill these fields very carefully and clearly since correspondence will be made on these mobile numbers and e-mail ids)

Academic Qualification : _____

Specialization/ Research Interests: _____

Any Degree/ Diploma/ Certificate Course in Remote Sensing & GIS ?
Yes / No (If yes, please provide relevant details.)

Any Workshop / Short Term Training Program attended on Remote Sensing & GIS Yes/No
(If yes, please provide the following details of the last program/ workshop attended.)

Name of the Program/Workshop : _____

Year : _____ Duration : _____ Place: _____

Computer Skills : Yes*/No (*Any additional Information)

How will this course be useful for you?
(Please mention the utility of geospatial technology in your academic/research/ professional field and specific requirements, if any)

Accommodation required : Yes / No

Signature of the applicant _____ Signature of forwarding authority with seal _____

Date : _____ Date: _____

Place : _____

Application form may also be downloaded from university website www.mlsu.ac.in

forwarded by the employer institution will **not** be considered. Scanned copy of the application form should reach to the Coordinator through e-mail at geotech2016.mlsu@gmail.com latest by **October 15, 2016**. The original copy should be sent through registered post so as to reach to the Coordinator latest by **October 24, 2015**.

Information regarding selection of the participants will be provided through e-mail by **October 25, 2016**.

There is no registration fee.

The programme is sponsored by DST, Government of India, New Delhi. Registered participants will be paid T.A. as per Mohanlal Sukhadia University rules.

ACCOMMODATION AND HOSPITALITY

Accommodation will be provided to outstation participants in University Guest House on twin sharing basis. The organizing institute will bear all expenses of accommodation, food, conveyance and course material during the winter school for activities related to the program.

IMPORTANT DATES

Duration of winter school : **Nov. 28 - Dec. 18, 2016**

Last date for receipt of application form : **October 15, 2016**
through E-mail

Hard copy : **October 24, 2016**

Admission notification : **October 25, 2016**

ORGANIZING COMMITTEE

Chief Patron : **Sh. Bhawani Singh Detha, I.A.S.**
Divisional Commissioner & Hon'ble Vice-Chancellor
Mohanlal Sukhadia University, Udaipur

Patrons : **Professor Vinod Agrawal**
Chairman, Faculty of Earth Sciences &
Dean, University College of Science
Professor Farida Shah
Dean, University College of Social Sciences & Humanities

Chairman : **Professor P. R. Vyas**
Head, Department of Geography & Director, CDC

Advisory Committee : **Professor Sadhana Kothari**
Deptt. of Geography & Chairman, Faculty of Education

Professor I.M. Kayamkhani
Department of Geography

Professor Monika Nagori
Chairman, Faculty of Social Sciences

Professor Harsh Bhu
Head, Department of Geology

Professor Nidhi Rai
Head, Department of Environmental Sciences

Coordinator (PI)

Professor Seema Jalan

Department of Geography

University College of Social Sciences & Humanities (UCSSH)

Mohanlal Sukhadia University, Udaipur-313001

E-mail: seemajalan1@gmail.com | Mobile: 9887643513

For admission related correspondence please mail at

geotech2016.mlsu@gmail.com



सत्यमेव जयते
Department of Science and Technology
Ministry of Science and Technology
Government of India



GEOTECH-2016

DST-NRDMS SPONSORED NATIONAL LEVEL WINTER SCHOOL ON GEOSPATIAL TECHNOLOGIES

November 28 - December 18, 2016



Organized by

DEPARTMENT OF GEOGRAPHY

Faculty of Earth Sciences

University College of Social Sciences and Humanities

Mohanlal Sukhadia University, Udaipur, Rajasthan - 313001

(NAAC Accredited 'A' Grade University)

VISION AND OBJECTIVES OF THE PROGRAM

Geospatial technology is an all pervasive state of the art technology which forms the backbone of decision making and planning at all levels worldwide. In India too, accelerated pace of growth and development has encouraged the use of geospatial technology across the public and private sectors, businesses and industries. These tools and techniques are rapidly being adopted for decision making, planning and monitoring in a wide array of fields - agriculture, irrigation, forestry, urban planning, utility management, transportation, marketing, engineering, health management, e-governance and many others. Acknowledging the import and ramified applicability of this technology creating awareness regarding the potential of geospatial technology and capacity building for utilization of Earth Observation data for natural resource management, developmental planning and societal benefit have been among the prime mandates of Department of Science and Technology (DST) as well as Indian Space Research Organization (ISRO), Government of India. Natural Resource Data Management System (NRDMS) is a flagship program of DST with key thrust on effective utilization of spatial data technologies for integrated development planning and implementation tailored to local resource base and terrain conditions at micro level, promotion of R & D in spatial data technology, technology transfer and capacity building of potential users. It has often been realized that academic institutions, particularly higher education institutions can effectively share this responsibility and reach out to wider masses.

Effective integration of geospatial technology in teaching and applied research in higher education institutions can potentially transform the students and scholars into efficient professionals capable of providing sound geospatial solutions to real world problems. Nevertheless, lack of trained faculty and funds for setting up adequate infrastructure especially purchase of expensive proprietary softwares has been a major constraint in quality education in this field. The constraints are equally relevant for various Central/ State user departments too. This winter school is a step towards filling this gap by imparting quality training to teaching faculty and Central/State government personnel/officials with prime focus on use of open source softwares so that the knowledge gained during the training is effectively implemented in trainees' home environment.

Main objectives of the school are:

- To empower the participants with fundamental understanding of the theoretical, conceptual and operational aspects of geospatial technology and their implementation in open source softwares.
- To provide exposure to the participants regarding potential applications of the technology in various fields in order to strengthen them as geospatial learners, practitioners and educators.
- Paving way for wide dissemination of the technology and to encourage its use in various stakeholder departments.

COURSE CONTENT AND ACTIVITIES

The program is an intensive course of 21 working days aimed at providing adequate exposure to geospatial technology in line with the guidelines of DST-NRDMS. It will provide a unique opportunity to interact with well known and widely experienced experts in respective fields.

Participants will learn about geospatial data sources, RS, GIS and GPS techniques, raster and vector data processing operations, recent trends viz. Web GIS, and varied applications of the technology. Theoretical discourses will be followed by practical sessions comprising hands on training in open source softwares - Quantum GIS and SAGA. Participants will be required to execute a mini real world project at the end of the program. One field visit will be conducted to provide practical exposure to the technology.

A detailed outline of course contents can be accessed at www.dst-iget.in, a unique portal of geospatial education developed jointly by DST- NRDMS and Institute of Environment Education and Research, Bharti Vidyapeeth University (BVIIEER), Pune.

ABOUT UDAIPUR CITY

Udaipur, also known as 'Venice of the East' and 'City of Lakes', is a beautiful city situated in the midst of the Aravalli ranges of Rajasthan. Endowed with rich historical and cultural heritage, natural resources and mesmerizing scenic beauty, Udaipur is one of the most sought after tourist destinations of Rajasthan. The historic city boasts of picturesque lakes, massive forts, beautiful palaces, art museums, well-laid gardens, colorful fairs and festivals. It is well known as the land of Maharana Pratap. Fatehsagar, Swaroopsagar, Pichhola and Udaisagar are some of the famous lakes of the city. Very close to the city is Jaisamand Lake which is the largest artificial freshwater lake of Asia. Many spots of great historical significance - Haldighati, Kumbhalgarh fort and Chittorgarh fort - which epitomize the valor of Mewar are located close around the city. Shreenathji temple at Nathdwara, Eklingji temple at Kailashpuri, Jain temples at Ranakpur and Mount Abu well known for their fascinating architectures and impressive structures are also located in close vicinity. West Zone Cultural Centre (WZCC) and its craft village (Shilpgram) embody the enormous diversity and aesthetics in architecture, traditional arts and cultures of west zone of India. Apart from these, the city has Udaipur Solar Observatory situated on an island in Fateh Sagar Lake. It is well connected by road, rail and air to the major cities of India, particularly Jaipur, Delhi and Mumbai. The nearest airport Dabok is 22 kilometers from the main city. The weather during the months of November and December becomes cool and pleasant with day temperature around 28°C and night temperatures around 14°C.

THE HOST UNIVERSITY

Mohanlal Sukhadia University (MLSU) (erstwhile Udaipur University) located amidst the vivid and spectacular Aravalli Hills at Udaipur, is a State University established in the year 1962. It is one of the most prestigious universities in Rajasthan excelling as a vibrant academic centre situated in the tribal belt of southern Rajasthan. The multi-faculty university imparts higher education in all streams of Science, Earth Science, Social Science, Humanities, Law, Commerce, Management and Education with 241 affiliated colleges and more than 2 lakh students. Ever since its inception the University has been striving to maintain academic excellence and presently possesses strong infrastructure with world class facilities for teaching and research. Recently, the University has been accredited as 'A' Grade University by the National Assessment and Accreditation Council (NAAC).

THE HOST DEPARTMENT

Post Graduate Department of Geography, a unit of University College of Social Sciences and Humanities (UCSSH), Mohanlal Sukhadia University, is the oldest department of Geography in the State of Rajasthan. During a period of more than 50 years of its existence and growth, it has steered the direction and pace of geographical studies and research through its innovative programs and illustrious dedicated faculty. Thrust areas of research in the department are regional planning and development, agriculture, population studies, transport and political geography, urban planning and sustainability, urban heritage conservation and geomorphology. Presently the department has four Professors and one Assistant Professor, more than 40 research fellows and scholars including 23 scholars holding PDF, JRF, SRF and RGNF sponsored by UGC and ICSSR. The department has been pioneer in integrating geo-spatial technology as a part of its undergraduate and postgraduate curriculum. In the year 2014, the GIS laboratory of the department has been upgraded to state of the art air conditioned 'Prof. A.N. Bhattacharya GIS Laboratory and Skill Development Centre'. Since 2013 students and scholars of the department have been successfully participating in basic and advanced courses in the field of geospatial technology under Distance Based Outreach Program conducted by Indian Institute of Remote Sensing (IIRS), ISRO, Department of Space, Government of India, Dehradun.

The department has successfully organized various academic events in diverse fields including geospatial technology. Recently conducted events are National Conference and 29th Annual Meet of National Association of Geographers of India, International Conference and 10th Annual Meet of Deccan Geographical Society of India, National Symposium on Urban Futurology and Sustainability, Workshop on Geospatial Technology (in collaboration with ESRI, India), GIS Awareness Workshop on Potential and Applications of Geospatial Technology (in collaboration with NIIT University, Neemrana) and Workshop on ISRO Portal Bhuvan and Bhuvan Panchayat (in collaboration with RRSC-West, Jodhpur). This training program is another step in furtherance to our commitments towards capacity building in the field of geospatial technology particularly in the tribal dominated southern Rajasthan.

WHO CAN APPLY

- University and college faculty from the field of Earth Sciences, Social Sciences, Environmental Sciences, Natural Sciences, Computer Science, Agriculture, Urban Planning, Engineering, Medical or other related disciplines, from all over the country.
- Central/State government officials from related user departments.
- Scientists/technical personnel from government research institutes.

AVAILABILITY OF SEATS AND SELECTION

The intake capacity for the winter school is limited to 20 seats. Selection of the candidates will be made on the basis of information provided by them in application forms. Basic proficiency and working skills in computers is desirable.

HOW TO APPLY

Application form may also be downloaded from the host university website www.mlsu.ac.in

The form should be completely filled in all respects and **duly forwarded by competent authority**. It may be noted that form not