Application for Permission to Attend

Conferences/Seminars/Workshops/FDP and Paper Presentation

| 1. Name of the staff | : Vcera | D | Savanth |
|----------------------|---------|---|---------|
|----------------------|---------|---|---------|

2. Designation and department : Asst , Arof.

3. Name of the conference derrinar/FDP : Foss 487 for Natural Resources typot.

4. Type of conference (national/state level) : National level - Short Jelm Course

5. Place of conference : Benjalulu

6. Date of conference : 27 - 31 may 2019

. Title of the paper submitted

Mention the items enclosed ;

a. copy of the brochure (Yes / No)

b. copy of invitation letter (Yes / No)

c, acceptance letter (Yes / No)

9. Rough estimate of expenditure (total)

a. Registration fees . Through Mou

b. Bus/trainvair fare NIL

10. Details of previous workshop attended : NIL

Date: 25 Hay 2019

Signature of the applicant

6 rein

Recommendation of the HOD

Dept. of Civil Engineering

Alva's Institute of Engg. & Technology Mijar, Moodbidri - 574 225 Signature of the Principal

PRINCIPAL

Aivo's institute of Engg. & Technology Mijar, MOODBIDRY - 574 225, D.K



Centre for Continuing Education

(OIP Programme - Sponsored by AICTE)

Indian Institute of Science, Bengaluru — 560012, Karnataka, India Ph: 080-22932491, 22932247 Fax: 080-23600911

E-mail: office.cce@iisc.ac.in, so.cce@iisc.ac.in

Website: http://cce.iisc.ac.in



QIP SHORT TERM COURSE ON "FREE & OPEN SOURCE GEOSPATIAL TECHNOLOGIES (FOSS4G) FOR NATURAL RESOURCES MANAGEMENT"



27-31 MAY 2019

Introduction

Capacity building under QIP initiative. The demand for spatio-temporal data analysis has gained momentum with the government's push for digital India. There is lack of professionals in these disciplines, particularly of those with a vast knowledge of the practical utilization of these technologies. This necessitates knowledge augmentation of in-service professionals particularly of teaching faculty in colleges and universities.

Course Objective: Knowledge augmentation (advancements in spatial informatics, remote sensing data analysis, modelling and Geo Visualisation) for in-service professionals.

Course Contents:

Geographical Information Systems: Introduction, Historical development, from the real world to GIS, basic data models, Geo-references and co-ordinate systems, basic spatial analysis and modeling, GIS implementation and project management, GIS issues and prospects.

GIS Perspectives: Environmental research, the state of GIS for environmental research, the state of GIS for environmental problem-solving, GIS and environmental modeling.

Understanding the scope of FOSS4G: Its relationship to environmental modeling and natural resources management.

Data models and data quality: problems and prospects.

GIS in environmental modeling: Hydrological modeling, urban dynamics, biological/ecological modeling, disaster management and risk modeling.

Principles of Remote Sensing: Spectral characteristics of earth's surface, spatial date pre-processing, classification, accuracy assessment, land use land cover analysis, change detection, biophysical modeling.

and GIS integration: Applications to resources inventorying, monitoring and management. Ground truth date. Digital Remote sensing image processing image classification.

Concept of environment: Economic benefits of remote sensing the geographical uses of remote sensing, sensors for environmental monitoring.

Applications of Remote Sensing: Water in environment in environment, soil and landforms, urbanization, design of Smart Cities, Ecology, Conservation and resource management, Land/land cover dynamics, Urban sprawl analysis, Hazards and disasters, Coastal zone management. Case studies would highlight the application of these concepts in natural resources management.

Selected participants would learn basic concepts of GIS, remote sensing data classification, integration of remote sensing information with GIS, database development and if time permits spatial data modelling and geo-visualisation, geo-server, etc.

Lectures Lectures will be delivered by Institute faculty members and guest faculty (IIT, IIIT-B, IIIT-H, IIRS, GOOGLE ENGINE). Sessions - 60% lectures and 40% hands on training (selected participants need to bring laptop with mouse)

FOSS4G Course Co-ordinator:

Dr. T.V. Ramachandra (tvr@iisc.ac.in), FIE, FNIE obtained Ph.D. in Ecology and Energy from Indian Institute of Science. At present, Coordinator of Energy and Wetlands Research Group (http://ces.iisc.ernet.in/energy), at Centre for Ecological Sciences (CES). He is a recipient of Energy Engineer award (2018, 2009) of Association of Energy Engineers (USA), Satish Dhawan Young Scientist Award, 2007 of Karnataka State Government, Rotary Exemplars 2017- Citizen Extraordinaire award (Rotary Club of Bangalore), Karnataka State Parisara Award, 2017-18, GoK, Khadri Achuathan Memorial Samvahana Award (Environment) 2018, on World Communicators Day by PRCI. TVR's research interests are in the area of Geoinformatics, landscape dynamics and modelling, aquatic ecosystems, Western Ghats ecology, energy systems, renewable energy, energy conservation, energy planning, environmental engineering education research and curriculum development at the tertiary level. He has published over 305 research papers in reputed peer reviewed international and national journals, 62 book chapters, 333 papers in the international and national symposiums as well as 18 books. His publications are archived at: https://scholar.google.co.in/citations?hl=en&user=Woh1fa8AAAAJ, https://www.researchgate.net/profile/T V Ramachandra/publications; http://ces.iisc.ernet.in/foss;

Eligibility:

The course is meant for teachers of engineering colleges recognized by All India Council for Technical Education (AICTE) who send their applications through proper channel. There is no course fee for them. Selected teachers will be paid TA at actuals subject to the limit of Three tier AC train/bus fare by the shortest route from the place of work to Bengaluru and back. However, the maximum TA payable is Rs.3000/-. They will be provided with a daily allowance of Rs.500/- (for 5 days only) towards boarding and lodging as per QIP rules, and will be supplied with the course material. The lodging charges will be Rs.300/- per day. Local participants will be paid DA @ Rs.150/- per day for 5 days. The total number of seats are limited to 70 for applying and 35 candidates will be selected for the course.

In addition, non-sponsored AICTE approved college teachers and other self-support teachers, scientists from research labs, practicing engineers from industries and other interested are eligible. They should pay the fees online along with the application as under.

Faculty: 10000+18% GST INR

Government Agencies: 10000+18% GST INR Industry Participants: 15000+18% GST INR Students (maximum 5): 10000 + 18% GST INR

They will be entitled to participate in the course and receive the course material. Single room accommodation is available on the Institute campus at the Hoysala House. The participants have to request in advance along with the registration form for such accommodation. The lodging charges will be Rs.1000/-+18%GST per day for self-support college teachers and Rs.1500+18%GST per day for Industry /Government/NGO participants / consultants, subject to availability of accommodation.

Course fee [with accommodation (if required) charges] to be paid online along with the application @ http://iisc.online/qip/home.html

For More Details Contact

Fees

Section Officer
Centre for Continuing Education
Indian Institute of Science

Bengaluru – 560012

Ph: 080 - 2293 2055/ 2293 2491/ 2360 0911

Email: so.cce@iisc.ac.in, office.cce@iisc.ac.in

Apply online at:

http://iisc.online/qip/home.html





27 - 31 MAY 2019

Apply @ http://iisc.online/qip/home.html

Co-ordinator

Dr. T V Ramachandra
Energy & Wetlands Research
Group, CES TE15
Centre for Ecological Sciences
Indian Institute of Science
Bangalore 560012
E Mail: tvr@iisc.ac.in;

energy.ces@iisc.ac.in http://ces.iisc.ernet.in/energy Tel: 080-22933099 / 22933503

Last Date to Apply: 9 May 2019

Intimation of Selection
@ http://cce.iisc.ernet.in

13 May 2019



CENTRE FOR CONTINUING EDUCATION INDIAN INSTITUTE OF SCIENCE BENGALURU – 560012



CERTIFICATE

This is to certify that

VEENA D SAVANTH

has participated in a short-term course on

"Free and Open Source Geospatial Technologies (FOSS4G) for Natural Resource Management"

during 27 - 31 May 2019

Under the Quality Improvement Programme of All India Council for Technical Education, New Delhi

Dr. T V Ramachandra
COURSE CO-ORDINATOR

Prof. G Narayanan CO-ORDINATOR, QIP

Prof. G L Sivakumar Babu CHAIRMAN, CCE



ALVA'S EDUCATION FOUNDATION (R.) MOODBIDRI - 574 227, D.K.

No.: DEBIT / CREDIT VOUCHER Date 13 Huy 2019 Savanth SI.No. Particulars College Code Debit (₹) Credit (₹) a b Registration 1. AIET PAID Through 400 C TA ADA 800 x2 = 1600) - 1 -1600 200 d Loo x 5 = 1000/ ₹e PAYABLE / RECEIVABLE

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| | 54B, Jan 27- | 31 Hery 2019 | 3 | | *********** |
| Prepared by | PRINCIPAL | A.O. Auth | odised by R | Receiver's / Remitter's | Signature |

TOTAL

2 600 200

Mijar, Moodbildri - 574 225, Mya's Institute of Engg. & Technology Mijar, Moodbildri - 574 225, Mya's Institute of Engg. & Technology Mijar, Moodbildri - 574 225