RESEARCH AND TRAINING UNIT FOR NAVIGATIONAL ELECTRONICS

AND

CENTRAL FACIILITIES FOR RESEARCH AND DEVELOPMENT

OSMANIA UNIVERSITY - HYDERABAD 500007

An Evening School on

IMAGE PROCESSING AND ITS APPLICATIONS

(Course Code: NERTU/SC/59)

4TH AUGUST – 20TH NOVEMBER 2015 (TUESDAY AND FRIDAY)

SPEAKERS

1. **Prof.P.Laxminarayana, NERTU,OU**
2. **Dr.K.Veerabhadra Rao, Sc.G(Rtd), RCI**
3. **Prof.M.V.Krishna Rao, VJIT**
4. **Mrs.P.Hema Sree, OU**

and experts from research labs working in the area of Image Processing.

Duration : 4th Aug. – 20th Nov. 2015

Two days in a week (Tue, Fri)

Time : 03.00 PM – 8.30PM

Location : NERTU & CFRD, OU.

Coordinators:

Prof.P.Laxminarayana,

Principal Scientist, NERTU, OU.

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Director, CFRD, OU.

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Registration Fee:

Rs. 4,000/- for Full Time Students

Rs. 8,000/- for Teachers

Rs. 12,000/- for Scientists/Engineers from Research Organizations/Industries

DD/Cheque should be drawn in favor of **The Director, NERTU, OU**

Last Date For Registration : 31st July 2015

Seats are limited and filled on the basis of *First Come First Served*.

Please visit for More Details & Registration: www.osmania.ac.in or www.uceou.edu or Contact Co-cordinators

Mrs.P.Hema Sree:

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Mr.B.Balanarsaiah:

battulabaluphd@gmail.com 9963977281

Course Overview and Topics to be Covered :

This evening school is intent to prepare the researchers, scientist, faculty members, PhD students, PG and UG students, those who wish to learn, improve and consolidate their skills in the area of image processing. In many situations, though the research guides/supervisors are ready to help the students, due to lack of required skills in mathematical, theoretical and programming, the students are failing to implement the suggestions given by them. Few advanced level courses taught by the senior faculty members/scientists doing research in this area and implementation of few published papers in standard journals, will help the students to acquire these skills to do their research work. This course is designed to train the students to learn the basics of Image Processing and implement few published papers in the Image processing, particularly related to SAR images, Face detection, recognition and Biomedical images and reproduce the same/similar results.

Following topics will be covered in the lectures.Digital Image Representation, Software Tools for Image Processing, Image Transforms, Spatial Filtering, Frequency Domain Transforms, Color Image Processing, Morphological Operations, Image Enhancement, Image Segmentation, Image Compression and Wavelets, Image Restoration, Object Recognition, Image Registration, Image Fusion.

Targeted Participants

Academicians, Scientists, M.E./M.Tech./M.Sc. students and Research scholars, interested to pursue research/ Ph.D. in Image Processing are expected participants. Those who have finished B.Tech. and joining M.Tech. course in the area of signal processing or communication engineering can also join this course. It is also very much useful for the junior faculty members interested to guide the students in the area of image processing for B.Tech./M.Tech. projects. This is an intensive school. The Participants are expected to solve the given assignments at home. There will be also tutorials to give the feedback to the students on the solutions to the Assignments. Grading will be given in the certificate based on the performance. Participants have to bring their own laptops for lab sessions.

About NERTU :

The ***Research and Training Unit for Navigational Electronics*** (NERTU) is established in 1982. It is the focal point for research and training in the areas of Electronic Navigation in India. Since its inception, NERTU has successfully executed/executing **48** sponsored and consultancy projects funded by DRDO, ISRO, DST, MIT, ECIL, HAL, BEL, AICTE and ASL. Currently, several projects in different areas related to navigation, signal processing and communications are in progress. It has also conducted **58** short term courses/workshops/conferences on various topics of signal processing, communications and Navigation.

About CFRD :

Osmania University has established the ***Central Facilities for Research and Development*** (CFRD) in the year 2009, with XI plan grants provided by UGC, with an area of about 75,000 sft. This facilitiy host Sofisticated and Avanced Scientific and Analytical Insturments, *e-class* room, Computation Laboratory, e-repository, auditorium, Computer Centre etc. The aim of this facility is to caters the needs of scientific community of this region by providing sophisticated and advaced research equipment and capacity building.

Interested candidates can down load the registration form from **www.osmania.ac.in or www.uceou.edu** and submit the filled application form, along with DD/Cheque, on or before **31st July 2015**, to:

The Coordinator, IP-15,
Research and Training Unit for Navigational Electronics (NERTU),
Osmania University, Hyderabad 500007