

CHIEFPATRON

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Dr. D.Rama Krishna, Dept. of ECE, UCE, OU

About GIAN Courses

MHRD, Govt. of India has launched an innovative program titled 'Global Initiative of Academic Network's (GIAN) in Higher Education, in order to garner the best international experience into our system. As a part of this, internationally renowned Academicians and Scientists are invited to augment the country's academic resources, accelerate the pace of quality reforms and elevate India's scientific and technological capacity to global excellence.

About Osmania University

Osmania University, established in 1917, has emerged as one of the premier institutions of higher learning in the country. It was conferred with the coveted status of "University with Potential for Excellence" in the year 2012. It epitomizes the national agenda on higher education for Access, Equity and Quality through Expansion, Inclusiveness and Excellence.

The University has a vast sprawling verdant campus of 1632 acres set in picturesque and idyllic surroundings, where diversity is valued and accepted. It owns a number of buildings of great architectural elegance and variety to enhance the beauty of the campus. Osmania University is organizing seminars, short term courses and 105- Indian Science Congress on the eve of centenary year (1917-2017).

About University College of Engineering

The University college of Engineering has the distinction of being the oldest and the biggest among the Engineering Colleges of the State of Telangana. It was established in the year 1929, eleven years after the formation of Osmania University. The College was the

College to be established in the whole of British India. The college moved to its present permanent building in the year 1947. The college was given autonomous status in 1994. The College successfully completed TEQIP-I and TEQIP-II projects with World Bank assistance. The College offers six undergraduate programs, twenty five postgraduate programs which are aimed to match current industry needs and self-employment. It also offers research programs leading to PhD in six different departments.

About Department of ECE

The Department of Electronics and Communication Engineering (ECE) was established in the year 1959. The department offers one UG program and PG program in five different specializations. The Department completed various sponsored research projects in the areas of Microwaves, VLSI, Wireless communication, GNSS, Image and Video Processing. The department also successfully implemented World Bank project IMPACT, Swiss development corporation project NETWORK, TEQIP Phase I and Phase II funded by World Bank. The Department also offers research program leading to PhD.

For Further Details Contact

Course Coordinator

Dr. L.Nirmala Devi

Associate Professor

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Call for Registration and Participation

Five Days GIAN Course

ON

Opportunities, Challenges and Research Trends in Wireless Sensor Networks

(11th December – 15th December 2017)

By

International Faculty
Prof. Mahbub Hassan

University of New South Wales, Sydney, Australia

Coordinator
Dr. L.Nirmala Devi

Organized by

DEPARTMENT OF
ELECTRONICS AND COMMUNICATION ENGG
UNIVERSITY COLLEGE OF ENGINEERING (A)
OSMANIA UNIVERSITY
HYDERABAD-500007
TELANGANA, INDIA

Overview:

Wireless Sensor Networks (WSN) has important applications such as remote environmental monitoring and target tracking. The design of a WSN depends significantly on the application and the environment, the application's design objectives, cost, hardware and system constraints, routing mechanism. Wireless sensor networks (WSN) have gained worldwide attention in recent years, particularly with the proliferation of Micro-Electro-Mechanical Systems technology which has facilitated the development of smart sensors and miniaturized sensors. The sensor miniaturization, with limited processing and computing resources are inexpensive compared to traditional sensors. Now a days, Sensor miniaturization is only possible because of the current state of the art in nanotechnology.

Advancement in nanotechnology has made it possible to manufacture sensors, circuits and devices measuring only nanometer in size. This development is creating an extraordinary opportunity to observe, interact and optimize physical systems from the very bottom. Wireless communication and networking at nanoscale, however, faces new challenges not encountered in conventional sensor networks. For example, nanoscale antenna call for wireless communication in the Terahertz band, which encounters new path loss and noise phenomena posing significant challenges for many target applications of such, networking. Nanoscale computing and communication is a new and rapidly growing field of research promoting collaboration between wireless networking, nanotechnology and other fundamental disciplines. The objective of this course is to present the opportunities, challenges and a survey of recent advancement of this new and growing inter-disciplinary field.

Who can Participate: Registration is open to:

- i) Faculty members working in Engineering Colleges.
- ii) Executives, Engineers and Researchers from manufacturing, service and government organizations including R&D laboratories.
- iii) Students and Research Scholars from reputed academic institutions and technical institutions.

How to Register:Stage-1 Visit the GIAN website at <http://www.gian.iitkgp.ac.in/GREGN/index> and create login User ID and Password. Fill up the blank registration form and do web registration by paying **Rs 500/-** online through **Net Banking / Debit / Credit** card. This provides him/her with life time registration to enroll in any number of the GIAN courses offered.

Stage-2:

Course Registration(Through GIAN Portal):

Log in to the GIAN portal with the user ID and password created. Click on 'Course Registration' option given at the top of the registration form. Select the Course titled **“Opportunities, Challenges and Research Trends in Wireless Sensor Networks”** from the list and click on 'Save' option. Confirm your registration by Clicking on '**Confirm Course**'.

Selection and Mode of Payment

Selected candidates will be intimated through Email. They have to remit the necessary course fee to the Bank as per the details given below.

Account Name	PRINCIPAL UCE OU COORDINATOR GIAN
Account Number	37072716197
Bank	State Bank of India
Branch	OsmaniaUniversity,Hyderabad
IFSC Code	SBIN0020071
MICR Code	500002342

Course Fees:

Participants from abroad	USD 500
Participants from industry/ research organizations	Rs 6000/-
Participants from academic institutions	Rs 3000/-
Student participants from India	Rs 1000/-

Last Date for Registration: 30th November 2017

Course Faculty: Prof. Mahbub Hassan



Prof. Mahbub Hassan is a Full Professor in the School of Computer Science and Engineering, the University of New South Wales, Sydney, Australia. He recently served as Distinguished Lecturer of IEEE (COMSOC) for 2013 to 2016. He

delivered keynote and invited speeches at several international conferences and worked as Visiting Professor at Washington University in Saint Louis, Osaka University, Japan and University of Nantes, France. He was a tutorial speaker at IEEE ICC 2016, IEEE WPMC 2014, IEEE ICC 2012, and IEEE VTC 2011. He is currently an Editor of IEEE Communications Surveys and Tutorial and has previously served as Guest Editor for Elsevier Nano Communications Network, IEEE Network and IEEE Communications Magazine. He has served in TPC and organizing committee of numerous international conferences and currently serving in the TPC of the newly established ACM NANOCOM conference. He has co-authored three books, one US patent, and over 150 refereed articles. His book “High performance TCP/IP Networking” has been used in more than 90 universities in America, Europe and Asia.

Course Coordinator: Dr. L.Nirmala Devi



Dr. L.Nirmala Devi received her B.E, M.E and Ph.D degrees in Electronics and Communication Engineering from the Department of Electronics and Communication Engineering, University College of Engineering (Autonomous), Osmania University, Hyderabad, India.

She is currently working as an Associate Professor in Department of Electronics and Communication Engineering, Osmania University. She has teaching experience of more than 16 Years in subjects like Digital Signal Processing, Analog Communication, Digital Communication, Adaptive Signal Processing and Wireless Networks. Her research interests include Ad-hoc networks, wireless communication, wireless sensor networks and Signal Processing. Currently, she is working on various research projects sponsored by Ministry of Electronics and Information Technology (MeITY), Government of India, New Delhi, Department of Science & Technology (DST) and UGC