Registration Form

TEQIP III Sponsored

Four Day Workshop

On

Drone Technology

19th July 2019 to 24th July 2019

1. Name:
2. Department:
3. Mailing Address:
4. Educational Qualification:
5. Email Id:
6. Mobile No:
7. Signature & date:

Signature of the Head of the Department
(With Seal)

Objectives of the Course:

- To understand basic drone technologies and appreciate their futuristic applications
- To analyze popular inventions on drone and convert the ideas into student projects.
- To bridge the gap between industry and Academia.

Outcomes

- Students would have acquired problem formulating skills and awareness of necessary tools.
- Students would identify the areas to carry out project work .
- Students would be aware of challenging problems which can be taken up for research.

Participation

UG, PG Students, Research Scholars and faculty members.

About Registration

A refundable amount of Rs. 300/- need to be deposited as registration fee.

Important Date

Last date for registration: 15th July 2019.

For More Details, You May Please Coordinators:

1. Dr. Prakash D B, Dept. of EEE
   Ph: +91-9480235493
2. Dr. Arjun M, Dept. of EEE
   Ph: +91-9902169213
3. Prof. Balachandra K, Dept. of TCE
4. Prof. T Anusha Lalitha, Dept. of TCE
   B.M.S.College of Engineering, Bengaluru
5. Prof. Atul Sarojwal, Dept of EEE
   F.E.T M.J.P Rohilkand University, Bareilly

IEEE PES Power & Energy Society® BMSCE STUDENT CHAPTER

IEEE SSIT SOCIETY ON SOCIAL IMPLICATIONS OF TECHNOLOGY

BMS College of Engineering Bangalore

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Organized

By

Dept. of Electrical & Electronics Engg.
&
Dept. of Electronics &Telecommunication Engg.

In Association with

F.E.T M.J.P Rohilkhand University,

CONVENORS

Dr. P. MEENA
Professor & Head, Dept. of EEE

Dr. B. KANMANI
Professor, & Head, Dept. of E&T

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Dr. B.S Ragini Narayan, Donor Trustee
Dr. P. Dayananda Pai, Chairman, BMSCE

Advisors

Dr. B. V. Ravishankar, Principal, BMSCE
Dr. Ravishankar Deekshit, Vice Principal, BMSCE

Topics to be covered:

- Basic drone technologies and futuristic applications
- analysis of popular inventions on drone
- Introduction to Model-Based Design with Simulink
- Simulink and hardware integration
- MATLAB and Simulink for Drones

About BMS College of Engineering

The BMS College of Engineering (BMSCE) was founded by a great visionary and philanthropist Late Sri. B. M. Sreenivasaiah (BMS) in the year 1946. After the demise of the founder, Sri.B.S.Narayan the illustrious son of the Founder took over the reins of the College. Under his able leadership, the college grew from strength to strength. BMSCE is the first engineering college established in the country (pre independent India) by a private enterprise. The college is an aided institution (by Government of Karnataka) and affiliated to Visvesvaraya Technological University (VTU). BMSCE offers 13 UG, 16 PG &15 Research programs. The College became an autonomous institution under VTU in the year 2008-09. In the year 2011, BMSCE was recognized as a QIP Centre in Engineering & Technology by All India Council for Technical Education (AICTE). The College is one among the 14 Engineering Colleges in the State qualified for Phase-2 of the Technical Education Quality Improvement Programme (TEQIP), a world bank sponsored project. BMSCE is the only partner institution from India along with the other universities located in Chile, China, Germany and USA for the Melton Foundation, USA.

About the Department of EEE

The Department of Electrical Engineering was established in 1946 and subsequently emerged as Department of Electrical and Electronics Engineering. The Department has the distinction of having its graduates known worldwide for their contributions and accomplishments in varied domains. The focus of the department is to equip students with capabilities through a wide exposure to all aspects facilitating their development as professionals. This enables them to adapt to the societal needs and the progressive technological requirements. The department receives grants from Govt. of Karnataka and offers an undergraduate program B.E, Electrical and Electronics, with a sanctioned intake of 60. The department is NBA Accredited under Tier I of Washington Accord and has a Student Faculty Ratio of 14:8:1.The department offers M.Tech, program in Power Electronics which started in 1991 with a sanctioned intake of 18 which is also NBA Accredited. It has a research Centre under VTU since 2003. It is a recognized AICTE QIP Research Centre since 2012, AICTE NDF (National Doctoral Fellowship Scheme) Research Centre since 2018. The number of awarded Ph.Ds. till date is 11 and currently 15 research scholars are pursuing their research in various domains.

About the Department of T&E

The Department of Telecommunication Engineering established in the year 1986 offers four year Under Graduate program in Telecommunication Engineering. The faculty of the department practice innovative methods in the Teaching-Learning-Process (T-L-P) that leads to effective implementation of Outcomes-Based-Education (OBE). This quality is reflected through the department getting accredited by NBA for FIVE years in the Tier-I format (applicable for Batches graduating from 2014 to 2018). The strength of the department is the Human Resource: Dedicated faculty, necessary technical staff and enthusiastic students. The curriculum takes the student through effective usage of Modern Engineering Tools like: Matlab, LabVIEW, Multisim, Xilinx, Mentor Graphics, Code-Composer-Studio, Qualnet and HFSS simulation tools. Through the AICTE-MODROBS funding, the department is a recognized research center by VTU.

About the Workshop

Drones are being used by the world's military forces for more than a decade now. Today, with the advancement of smart phone technology, it has become easier to produce and control drones. Drones can use most of the capabilities of a smart phone application processor and associated sensors. Smart phones also have the necessary wireless and compute capabilities to connect drones. The Android operating system provides the framework, drivers and toolkits to develop sophisticated features in a drone. They can be used for many commercial applications and could become a critical part of IoT in the near future. The business opportunities and physical risks of drones will attract taxation and regulation in the near future. Drone applications in near future are going to be exploded and will touch many areas of our life. Therefore it important for students to understand drones and innovators to invent new technologies and discover new use cases. Who know in future the next Google/ Face book may be based on Drone based applications. In four days' workshop on first day need for innovations due to laws of change, basic drone technologies and futuristic applications will be covered. On second day analysis of popular inventions on drone will be covered and will be followed by idea generating sessions. In subsequent days, the tools used for programming drones are introduced followed by the modeling and demonstration of a drone built by alumnus of BMSCE.