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**Dr. Umadevi V**,  
Associate Prof & HOD, CSE, BMSCE

**Dr. Arathi R Shankar**,  
Associate Prof & HOD, ECE, BMSCE

### FDP Coordinators:

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**Registration is Free!!!**

E - Certificates for all participants

**Last date to register: 25<sup>th</sup> July 2020**

Kindly confirm your participation by registering in the following link:

<https://forms.gle/Rrepv5MbHvAXX8fNA>

### ABOUT THE INSTITUTION

B.M.S College of Engineering (BMSCE) is the first private sector initiative in Engineering Education in India. BMSCE has completed 75 years of dedicated service in the field of Engineering Education. BMSCE was founded by late philanthropist Shri B. M. Sreenivasaiah (B.M.S) in the year 1946 foreseeing the urgent need for Technical Education in India even before Independence. He was honoured with the title "Raja Karya Prasaktha" by Maharaja of Mysore. After the demise of Shri B.M. Sreenivasaiah, the founder's dynamic and enterprising son Shri B. S. Narayan took over the reins of the College.

The college maintains high academic quality standards, the certification by the National Assessment and Accreditation Council (NAAC) and National Board of Accreditation (NBA) bearing testimony for the same. In fact it is the first few institutions in the India to be bestowed with NBA in Tier-I Format (Washington Accord) in the year 2013. The institute is accredited by National Assessment and Accreditation Council (NAAC) with highest grade of A++ in the second Cycle with a CGPA of 3.83 on a scale of 4.0. The institution is a proud recipient of TEQIP (World Bank Funded Project).

BMSCE is the only partner institution in the country with the Melton Foundation, USA which promotes cross-cultural learning for selected students along with peers from five other countries and is one of the most preferred higher educational destinations for students all across the country and also attracts students from South Asian and African countries.



**B.M.S COLLEGE OF ENGINEERING, Bengaluru-19**  
(Autonomous College under VTU)



**One week Online FDP**  
on

**"IoT and Data Analytics:  
An End-to-end  
Perspective"**

**From 27th July to 1st August 2020**

**Organized by**  
Department of Computer Science and  
Engineering  
&  
Department of Electronics and  
Communication  
B.M.S College of Engineering  
Bangalore-560019

## ABOUT CSE DEPARTMENT

Department of Computer Science & Engineering started in the year 1983 with an intake of 60 students for the undergraduate programme. The intake was increased to 90 seats in 2000, to 120 in the year 2011 and to 180 in the year 2019. UG programme of the Department was accredited from Jun-2004 to May 2007 for 3 years, Jul-2008 to Jun-2011 for 3 years, Jul-2014 to Jun-2017 for 3 years and Jul-2017 to Jun-2020 for 3 years. The department of Computer Science & Engineering also has PG programme, M.Tech (CSE) established in 1992 with an intake of 18. PG programme of the Department was accredited during Jul-2017 to Jun-2022 for 5 years. The Research Centre, Department of Computer Science & Engineering started in the year 2010 under VTU, Belgaum. The research areas of the center cover Machine learning, Cloud computing, Big data analytics, Wireless networks, Social networks analysis, Network Security, etc. Currently, there are Nine registered guides, accelerators, etc who are experts in fields like artificial intelligence, wireless networks, medical imaging accelerators, etc. There are 27 research scholars working in the research center.

## ABOUT ECE DEPARTMENT

The department of Electronics and Communication Engineering was established in 1971 with an initial intake of 60 students to the UG program and later enhanced to 180. The department offers three PG programs in the field of Electronics, Digital Communication Engineering and VLSI & Embedded Systems and is recognized as a Research Centre by Visveswaraya Technological University and for the QIP Research programs. The department has been accredited by NBA for a period of 6 years under Tier-I in 2017. With these, various programs are being offered at the UG, PG and the doctoral level. The overall objective of the department is to contribute, significantly, to the realization of the Vision and Mission of BMSCE.

## SPEAKERS

### From Cypress Semiconductor Technology India Pvt. Ltd., Bangalore

Mr. Dheeraj D Kamath, Sr. Applications Engineer  
Mr. Rakshith M B, Applications Engineer

### From HPE Solutions, Bangalore

Mr. Arup Neogi, Sr. Manager,  
Mr. Sailesh Patra, Expert System Management,  
Mr. Ravi J, Data Scientist,  
Ms. Shruthi K, Software Engineer

### From B.M.S College of Engineering, Bangalore

Dr. Sudhindra K R, Associate Professor, Dept of ECE, BMSCE  
Dr. Geetishree Mishra, Assistant Professor, Dept of ECE, BMSCE  
Mr. Vikranth B. M, Assistant Professor, Dept of CSE, BMSCE

## FDP Schedule

Date	Timings	Topics
27 <sup>th</sup> July 2020	10:00 AM to 1:00 PM	Introduction to IoT and its Architecture, Radio standards for IoT
28 <sup>th</sup> July 2020	10:00 AM to 1:00 PM	Key Challenges to consider in IoT, Cloud Platforms and Protocols, Introduction to ARM CPU Power Modes, Low Power IoT System Design with Cypress MCUs and Wi-Fi (with Hands-on session)
29 <sup>th</sup> July 2020	10:00 AM to 1:00 PM	Introduction to Security in IoT, Securing Embedded Systems using Threat Based Analysis Methodologies, Securing the IoT from Chip to Cloud (With Hands-on session)
30 <sup>th</sup> July 2020	10:00 AM to 1:00 PM	Overview of HPE strategy , HPE Solutions on IoT, AI/ML, Introduction to Smart Workplace , IoT & Edge Computing, Machine Learning vs. Deep Learning, application use case, Data Science, application of Data Science and road map to learn AI/ML
31 <sup>st</sup> July 2020	10:00 AM to 1:00 PM	HPE Solutions on IoT, AI/ML(Hands-on session)
1 <sup>st</sup> August 2020	10:00 AM to 1:00 PM	Data Analytics using R-tool, Data Analytics using Python (Google CoLab/ IBM Watson/Kaggle)