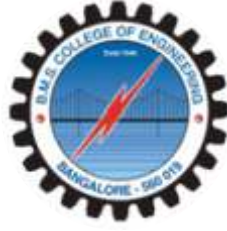


BMS COLLEGE OF ENGINEERING, B'lore -19
[Autonomous institute under VTU, Affiliated to VTU]

**DEPARTMENT OF ELECTRONICS &
COMMUNICATION ENGINEERING**

**ANNUAL
ACTIVITY REPORT
2016 - 2017**





BMS COLLEGE OF ENGINEERING, B'lore -19
[Autonomous institute under VTU, Affiliated to VTU]

**DEPARTMENT OF ELECTRONICS
& COMMUNICATION ENGINEERING**

Department Vision:

To emerge as a Centre of Academic Excellence in Electronics, Communication and related domains through Knowledge acquisition and Knowledge dissemination meeting the global needs and standards.

Department Mission:

Imparting quality education through state of the art curriculum, conducive learning environment and Research with scope for continuous improvement leading to overall professional Success.



From the HoD's desk.....!!

The Department of Electronics and Communication has made progressive strides during the last four decades in all spheres of education and research with its streamlined methodology. The department strives to equip students to be life-long learners, to develop technical, analytical and critical skill necessary to meet the real world developmental needs and contribute to social betterment. The Department offers a comprehensive education, thereby preparing the students to emphasize the role of engineers to find innovative solutions to some of the development challenges through applied research; graduates, who are better prepared to meet the needs of industry, government and their communities. The Departments' mix of practical and theoretical experiences and our commitment to academic and ethical excellence cultivate outstanding Electronics engineers who are highly sought after for both higher education and employment. The alumni of the department are well placed in academia, NGOs, government, private sector. In addition to the UG and three PG programmes the department also provides unique opportunities for aspiring doctoral students.

We provide a very informal atmosphere between faculty and students. ECE department has always been known for creating an ambience where scholarship flourishes. Faculty members of our department are not only engaged in cutting edge technology research but are also very passionate about teaching. The department faculty are involved in a number of research projects independently and in collaboration with industry and as part of international research networks and partnerships. As BMS College of Engineering grows in stature and quality, our department aspires to considerably expand its research and teaching activities in new directions, and welcome all initiatives and support which would help us work towards that goal.

Dr. G. Poornima



BMS COLLEGE OF ENGINEERING BENGALURU -19

Department of Electronics & Communication Engineering

REPORT ON DEPARTMENT ACTIVITIES 2016-17

MAY-2016

May 03, 2016: Five Faculties visited "ThinQbator", CISCO, Bangalore.

May 10, 2016: Smt. Poornima G, Dr. Prerana Gupta Poddar, Smt. Suma M.N, Dr. Arathi R. Shankar, Sri Narayana T. Deshpande & Dr. Jayanthi K. Murthy attended Workshop on Wireless System Design - Goint Beyond Simulation.

May 14, 2016: Smt. Shaila V. Hegde and Dr. Kiran Bailey attended Four Week AICTE approved FDP on Use of ICT in education for online and blended learning by IIT, Bombay.

May 18, 2016: Dept. of Electronics and Communication Engineering conducted five days Value Added Course on Data Structures - Algorithms and Applications. This course was organized and conducted by Dr. KP Lakshmi.

May 23, 2016: Mr. Harish V. Mekali conducted field test of BMS - IOT module on Community based water purification plant at Binkadakatti, Asundi, Hulkoti & Gadag.

May 30, 2016: Dr. Kiran B+ailey, Mrs. K. Sujatha, Dr. H.R. Bhagyalakshmi, Dr. Poornima G, Mrs. Ashwini V, Dr. A. Meera & Mrs. Prapulla attended One week National Workshop on Advances in Industrial / Process Automation and Control'

JUNE-2016

June 3, 2016: Department of Electronics & Communication Engineering organized National Conference on "Networking, Embedded and Wireless Systems (NEWS 2016) from June 3-4, 2016



June 6, 2016: Sri K.R. Sudhindra, faculty, Department of Electronics & Communication Engineering was deputed as Deputy Chief Coordinator for VTU Digitization Center, Regional Office, Bengaluru from June 6 - July 30, 2016

June 6, 2016: Mrs. Ashwini V. & Mr. K.N. Madhusudhan attended One week FDP on Micro-Nano Sensor FOR Health Monitoring at M.S. Ramaiah Institute of Technology

June 13, 2016: Department of Electronics & Communication Engineering organized Workshop on "Advances in Verification Methodologies" for II Semester M.Tech (Electronics and VLSI & Embedded system) students from June 13-15, 2016 under TEQIP II

June 16, 2016: Dr. D. Seshachalam was invited to work as member of Dept. Academic Board (DAB) in Electronics Dept. of Walchand College of Engineering, Sangli.

June 29, 2016: Dr. R. Jayagowri & Dr. Kiran Bailey attended IESA - Thought Leadership Forum - Advantest organized by IESA - Cloud Testing Service (CTS).

June 6, 2016: Dr. K.P. Lakshmi attended a three day International Workshop on Cloud Computing & Cyber Physical System organized by Cloud Computing Innovation Council of India in collaboration with National Institute of Standards and Technology (NIST), us Dept. of Commerce.



JULY-2016

July 11, 2016: Dr. Jayagowri attended one week Workshop on Modeling and Simulation of Thin Film Devices conducted by RV College of Engg.,

July 18, 2016: Mr. Prakash R, Instructor & Mr. Umesh R, Asst. Instructor attended Workshop on "A Practical approach: Communication Systems and Microwave Devices" at R.V. College of Engineering, Bangalore.

July 18, 2016: Dr. Veena M.B. & Smt. Lalitha S. attended Short-Term Course on Spectral Analysis of Networks sponsored by AICTE at IIT, Kharagpur.

July 20, 2016: Mrs. Bhagyalakshmi L, Foreman & Mrs. PreethuDevaiah attended Workshop on "Electronics Lab Equipment: Operation & Troubleshooting. At MSRIT, Bangalore

July 25, 2016: ECE Dept. organized one week Faculty development Program on EMI and EMC in Electronic Systems. Dr. Gunashekar, Retd. IISc., & Dr. N.C. Joshi, STQC were the resource persons.

AUGUST-2016

August 1, 2016: Department of Electronics & Communication Engineering organized Finishing School on VLSI Physical Design from August 1-6, 2016 under Centre of Excellence, TEQIP II.



August 24, 2016: Dr. Veena M.B. attended One day session on IBM Bluemix Cloud Computing at Shangri La, Bangalore

August 24, 2016: DivyaGuruswamy has secured the distinction as Winners in 50M, 200M & 100M Breast Stroke Inter Collegiate Inter Zone Tournament organized by VTU held at Global Academy of Technonology, Bangalore



August 04, 2016: Dr. Lakshmi K.P. attended one day symposium on "TRIZ Utsava - 2016" at Royal Orchids, Bangalore.

August 16, 2016: Department of Electronics & Communication Engineering organized Industrial visit to Nokia Networks (LTE & VOLTE Lab) for VII semester students.

Semester Electronics & Communication Engineering represented India in the World Snooker Championship 2016 (Under 21) organized by Belgium Billiards Snooker Association, Belgium from August 18-25, 2016. She has won Bronze Medal in the above said World Snooker Championship

August 24, 2016: Diganth P. secured third place in 400 M. Med. Relay in the Inter Collegiate Inter Zone Tournaments 2016-17 organized by VTU at Global Academy of Technology, Bangalore.

August 25, 2016: Department of Electronics & Communication Engineering organized Industrial visit to Nokia Networks (LTE-A & VOWIFI Lab) for VII semester students



August 29, 2016: Dr. D. Seshachalam attended MOCK Workshop conducted by MLRIT at Hyderabad

SEPTEMBER-2016

September 3, 2016: Department of Electronics & Communication Engineering organized Extension Lecture on "Raspberry Pi for IOT" (talk on Basics of Raspberry Pi & Linux Fundamentals) for Under Graduate students. The lecture was delivered by Mr.V.Rakesh, UI and UX Designer, MCFadyen Solutions, Bengaluru and Mr.R.Vandan, Associate Software Developer, Robert Bosch Engg. & Business Solutions Ltd., Bengaluru

September 4, 2016: Department of Electronics & Communication Engineering organized Extension Lecture on "Raspberry Pi for IOT" (talk on Basics of PYTHON Programming & Raspberry Pi for IOT) for Under Graduate students. The lecture was delivered by Mr.V.Rakesh, UI and UX Designer, MCFadyen Solutions, Bengaluru and Mr.R.Vandan, Associate Software Developer, Robert Bosch Engg. & Business Solutions Ltd., Bengaluru

September 07, 2016: Sanan A participated in CHRISPO-FEST 2016 organized by Christ University, Bangalore & won the RUNNER UP position.



September 15, 2016: Mr. Harish V. Mekali was appreciated by Rural Medical Service Society, Hulikoti, for his cooperation in the Project - "Cloud based remote monitoring system for R.O. Water Purification Plant" which was developed under the guidance of Dr. Arun Patil, Additional Director, Agadi Sunrise Hospital.

September 19, 2016: Kum. Yashu B.M. and Hima C P has secured the distinction as Winners in Yoga in Inter Collegiate Inter Zone Competition conducted by VTU. September 23, 2016: In PHASE SHIFT - 2016, 6 Events were conducted from Department of Electronics and Communication Engineering.

OCTOBER-2016

October 1, 2016: Alumni Meeting-Reunion of Class of 1986 (Electronics Engg.)

October 15, 2016: Mr. Bharatg Keshavamurthy presented paper titled Hardware-in-Loop Simulation of a White- F1 System utilizing and has been selected for Best Paper Presentation Award in Session 1.4 (Wireless Communication) during the paper presentation of 5th International IEEE Conference on Wireless Networks & Embedded Systems (WECON 2016).



October 15, 2016: Dr. D. Seshachalam attended NBA Workshop at MLRITM, Hyderabad.

October 16, 2016: Yashu B.M, Hima C.P, Aravind G, Nisarga & Jammannagouda secured the distinction as Runners-up in Yoga Inter Collegiate Inter Zone Competition organized by VTU at PESITM, Shivamogga.

October 20, 2016: Goutham. Sorator has secured the distinction as Runners-up in Wrestling (57 Kgs.) in Inter Collegiate Inter Zone Competition organized by VTU held at KLS VDRIT, Haliyal at KLS VDRIT, Haliyal. October 20, 2016: Goutham G.M. has secured the distinction as Third in Judo (60 Kgs) in Inter Collegiate Inter Zone Competition organized by VTU at KLS VDRIT, Haliyal.

October 24, 2016: Divya Guruswamy of V Semester participated in All India Inter University Aquatic Championships - South Zone Competitions 2016-17 at Panjab University, Chandigarh.

NOVEMBER-2016

November 5, 2016: Department of Electronics & Communication Engineering in association with Electronics Sector Skills Council of India hosted an industry meet.

November 09, 2016: Dr. Vasundhara Patel K.S. and Dr. Kiran Bailey attended Summit on IOT conducted by IESA held at Sheraton Hotel, Bangalore.



November 10, 2016: Parthasarathy R. participated in the 2nd BRDCA International FIDE Rating Chess Tournament 2016 and scored 6.5 out of 9 rounds and secured 20 place out of 400 participants at Hotel City Centaur, Bangalore.

November 25, 2016: Class of 1985 batch of Electronics & Communication Engineering contributing Rs.1,50,000/- to the Alumni Network towards disbursement of 12 Scholarships to the students of Electronics Engineering.



DECEMBER - 2016

December 06, 2016: Dr. Jayagowri attended Cadence University Conference on Architecture to silicon to Systems: Academia role in Electronic Design and R&D at Chancery Pavilion Hotel, Bangalore

December 16, 2016: Advanced RF & Wireless Communication Lab was inaugurated in the Dept. of ECE by Col.(Retd.) H.S. Shankar, Founder Chairman & MD, Alpha Design Technologies Pvt. Ltd., & Dr. P. DayanandPai, Chairman, BMSCE, which is established in E&C Block, 3rd Floor, BMSCE.



December 19, 2016: Dr. D. Seshachalam, Dr. Sudhindra K.R. & Dr. Suma M.N. of Dept. of ECE attended Nokia University Consortium meeting at Nokia Networks, Bangalore



December 26, 2016: Dr. Kiran Bailey, Dr. Vasundhara Patel, Mrs. K. Sujatha, Dr. Meera A, Mr. Narayana T. Deshpande, Dr. Meera, Mrs. Sujatha K, Mrs. Ashwini V & Mrs. G. Prapulla attended two weeks Faculty Development Program on Graph Theory, Algorithms & Applications (under TEQIP) at BMSCE.

JANUARY-2017

January 04, 2017: Dr. Poornima G. attended 2 day Workshop for Academic Heads on Leadership and Team Building at BMSCE.

January 04, 2017: Mr. Harish V. Mekali was invited as Resource person for conducting Two day

January 09, 2017: Dr. Prerana Gupta Poddar, Dr. Suma M.N. & K.P. Lakshmi attended Tutorial on IEEE 5G Learning Series-Bangalore organized by IEEE, Bangalore at Hotel TajVivantha, Bangalore

January 23, 2017: Sri. Harish V Mekali, faculty,



Workshop on ARM7 and KEIL IIDE organized by Dept. of Computer Science, Global Academy of Technology Bangalore.

January 4, 2017:Sri.Harish V Mekali, faculty, Department of Electronics & Communication Engineering was invited as Resource person to conduct Two day Workshop on ARM7 and KEIL IIDE by Global Academy of Technology, Bengaluru

January 06, 2017:HOD - Dr. Poornima G, Faculties - Dr. Seshachalam D, Dr. Akhila S & Dr. M.N. Suma and Technical Staffs - Mrs.. L. Bhagyalakshmi& Mr. Prakash R. attended Two Days Awareness Programme on NABL Accreditation (under TEQIP) at Mechanical Engg. Seminar Hall (MESH), BMSCE from January 4-5, 2017

Department of Electronics & Communication Engineering was invited as Resource person to conduct Two days hands on Workshop ARM7 Processor and KEIL IIDE by Alva's Institute of Engineering & Technology, Moodbidri

January 28, 2017: Department of Electronics & Communication Engineering organized Seminar on "New Age Technologies - Industrial Perspective" for the pre-final and final year students of Electrical Science Cluster. Resource person was Mr.G.Srinivasan, Project Manager, M/s.Intel Co.

January 28, 2017: Department of Electronics & Communication Engineering organized a training session for the usage of INPODS tool by Mr.AbhishekBhoir at RF lab, BMSCE.

FEBRUARY-2017

February 04, 2017:Dr. K P.Lakshmi and Dr. Suma M N- Assoc Prof attended a workshop of Experts on "Approval Process 2017" at Pes College Of Engg, Mandya.February 11, 2017:Dr. Meera.A - Professor atended meeting with NBA team at NIE, MYSORE

February 11, 2017 :Electronics and Communication Engineering Department organized GATE awareness camping by Mr. Balamurugan, Regional Manager, South Gateforum and Mr. Shravan, Faculty member Gateforum in PG classroom.

February 20, 2017: IEEE Student Branch in association with Electronics and Communications organised talk on "IEEE Standards and their importance" by Mr. Muneermohammed at BMS Auditorium.

February 25, 2017:Mrs. Sujatha organized two day Workshop "Six Sense Robotics" (under TEQIP-II) BMS Auditorium & Dept. Lab in association with EDC, New Delhi The workshop was driven by Mr. Deepeshkumar Mishra Mr. Imran, Wingfotech Pvt. Ltd.



February 21, 2017: Dr. G Poornima, Dr. K S Vasundharapatel, Dr. Kiran Bailey, Sujatha K attended IESA vision Summit 2017 at Leela palace, Bangalore.



MARCH-2017

March 2, 2017: Mr. Siddappaji and Mrs. Sujatha conducted two day Workshop on Intellectual Property Rights for faculty and students (under TEQIP-II) in association with National Law School, of India University Bangalore. The workshop was driven by Dr. Kalyan C Kankanala Mr. Harikrishna Holla Mr. B Vivekanandsagar in BMS Auditorium.



March 4, 2017: Mr. Narayan T Deshpande along with Dept. of Electronics and Instrumentation conducted two day Workshop on LabVIEW-Graphical system Design platform (Under TEQIP II) In Association with NATIONAL INSTRUMENTS for UG Students.



March 11, 2017: Mr. K R Sudheendra organized an extension lecture series for VI semester students. The resource person was Mr. Sudish, NOKIA Networks at BSN Hall.

March 21, 2017: Dr. Jayanthi K. Murthy, Associate Professor- nominated as External Subject Expert for Board of studies (Telecommunication engg dept.) to revise the scheme and syllabus of 3rd to 8th semester B.E and 1st & 4th sem M.Tech Digital communication & Networking

APRIL-2017

April 1, 2017: Dr.K.P.Lakshmi, faculty, Department of Electronics Engineering was invited as Mentor for Smart India Hackathon 2017 organized by GOI-AICTE at Sri Venkateshwara College of Engineering, Bengaluru from April 1-2, 2017. The innovative problem statement submitted by Mr.AdityaKamat, Mr.KarthikRamanathan, Mr.AshwinUdayBhatkal, Mr.M.Ashwini, Mr.P.Punith Krishna and Mr.R.Kiran students of Computer Science & Engineering under the mentorship of Sri.SyedAkram, faculty, Department of Computer Science & Engineering and Dr.K.P.Lakshmi, faculty, Department of Electronics Engineering to Smart India Hackathon 2017 was selected at Grand Finale of Smart India Hackathon 2017 conducted by the Government of India from April 1-2, 2017. The selected problem statement comes under Department of Defense Production, Government of India



April 3, 2017: Dr.G.Poornima, Head, Department of Electronics Engineering was invited to deliver a talk on "Pedagogy in learning Electronics" in an Induction Program by Raja Rajeshwari College of Engineering, Bengaluru Smart India Hackathon 2017 was selected at Grand Finale of Smart India Hackathon 2017 conducted by the Government of India from April 1-2, 2017. The selected problem statement comes under Department of Defense Production, Government of India

April 13, 2017: Department of Electronics Engineering organized hands-on session using ORCAD Pspice tool. Resource Person was Mr.Manoj Kumar, Entuple Technologies Pvt Ltd., Bengaluru



April 15, 2017: Dr.D.Seshachalam, Professor, Department of Electronics Engineering was nominated as NBA Expert Member to visit Colleges in Andhra Pradesh for evaluation

April 20, 2017: Surendra HH organized Industrial visit to Nokia network labs, Manyatha Tech Park for sixth semester EC students



April 20, 2017: Department of Electronics Engineering organized Industrial visit to Nokia Network Labs for the students of 6th semester

April 5, 2017: Dr. KSVP organized a Visit to IISc, Bengaluru for second semester M.Tech VLSI students. Students visited National Nano Fabrication Centre, which is a Centre for Nano Science and Engineering (CeNSE) Unit and Aerospace engineering unit which is catering to ISRO and other space applications.



April 7, 2017: Department of Electronics Engineering organized Guest Lecture on "System Verilog for Verification" for the students of M.Tech (Electronics, VLSI & Embedded Systems). The lecture was delivered by Mr.M.Ramdas, Senior Verification Engineer/Manager, Applied Microcircuits India Pvt Ltd., Bengaluru



April 22, 2017: Department of Electronics Engineering organized Webinar on "ASIC Verification". Resource Person was Mr.P.R.Siva Kumar, CEO, Maven Silicon, Bengaluru

April 21, 2017: Department of Electronics Engineering organized Workshop on "Mixed-Signal PLL Analysis" for the students of M.Tech. (VLSI). Resource Person was Mr.M.V.Krishna Reddy, Principal Design Engineer, Cadence Design System, Bengaluru

May-2017

May 08, 2017: Dr. R Jayagowri organized an extended lecture on Concepts and Design Approaches for VLSI Physical Design for M.Tech students. Mr. Srikar Talla, Sr. Physical Design Engineer, Entuple technologies, Bangalore was the resource person. This talk was organized in Center of Excellence-VLSI, BMSCE.

May 13, 2017: Ms. Geetishree Mishra, Asst. Professor completed Ph.D final defense at VTU Regional Research Centre, Bangalore.

May 25, 2017: Dr. Kiran Bailey organized a two week workshop on "Advanced digital logic verification" for UG - 6th sem students. This workshop started on 25/5/2017 till 07/06/2017.

May 27, 2017: Mr. Siddappaji, Assoc. Professor completed Ph.D final defense on at Dayanandsagar college of Engg., Bangalore.



May 29, 2017: Department conducted frequent meetings from 29-05-2017 to 03-06-2017 as part of quality week to discuss about

- Student Academic Performance
- Student Projects
- Curriculum Relevance
- MOU and Industry Collaboration
- Research, Papers and Patents

Laboratories in the Department in Association with Industry

Sl.No.	Year of Establishment	Name of the Laboratory	Name of the Industry
1	16/12/2016	Advanced RF and Wireless Communications Lab	Keysight Technologies, "The Millenia", Second floor, Tower 'D', No. 1&2, Murphy Road, Ulsoor, Bangalore- 560008

Workshops conducted for Students

Sl.No.	Date	Title	Industry/Organization
1	02/03/2017	Workshop on Intellectual Property Rights Focusing on Patents	National Law School of India University, Bangalore
2	25/02/2017 & 26/02/2017	Six Sense Robotics	Wingfotech Pvt. Ltd.
3	04/03/2017 & 05/03/2017	Labview- Graphical System Design Platform	National Instruments

FDP/Workshops organised for Faculty

Sl. No	Date	Title	Industry/Organization
1	03/03/2017	Workshop on Intellectual Property Rights Focusing on Patents	National Law School of India University, Bangalore
2	25/07/2016	One week Faculty development Program on EMI and EMC in Electronic Systems.	Dr. Gunashekar, Retd. IISc., & Dr. N.C. Joshi, STQC were the resource persons.

Guest Lectures organized

Sl.No.	Date	Title	Industry/Organization
1	11/03/2017	LTE (4G)	Mr. Sudhish, Nokia Networks, Bangalore
2	23/09/2016	5G	Mr. Vishnu, Nokia Networks, Bangalore
3	21/09/2016	IMS and Cloud	Mr. Vishnu, Nokia Networks, Bangalore
4	16/09/2016	LTE (4G)	Mr. Sudhish, Nokia Networks, Bangalore
5	31/08/2016	Internet of Things	Mr. Vishnu, Nokia Networks, Bangalore
6	02/09/2016	Software Engineering	Mr. Manish, Nokia Networks, Bangalore
7	03/09/2016	“Raspberry Pi for IOT”	Mr.V.Rakesh, Ui and Ux Designer, MCFadyen Solutions, Bengaluru and Mr.R.Vandan, Associate Software Developer, Robert Bosch Engg. & Business Solutions Ltd., Bengaluru
8	07/04/2016	“System Verilog for Verification”	Mr.M.Ramdas, Senior Verification Engineer/Manager, Applied Microcircuits India Pvt Ltd., Bengaluru
9	07/04/2017	Software Engineering	Mr. Asiulla Khan, Nokia Networks, Bangalore
10	28/01/2017	New Age Technologies – Industrial Perspective	Mr. Srinivasan G, Intel Corporation, Bangalore

Industrial Visits:

Sl.No.	Date	Year/Semester	Name and official address of the Industry
1	25/08/2016	VI	IOT Lab, Nokia India Pvt. Ltd.
2	16/08/2016	VI	IOT Lab, Nokia India Pvt. Ltd.
3	20/04/2016	VI	Nokia Networks Lab, Nokia India Pvt. Ltd.