

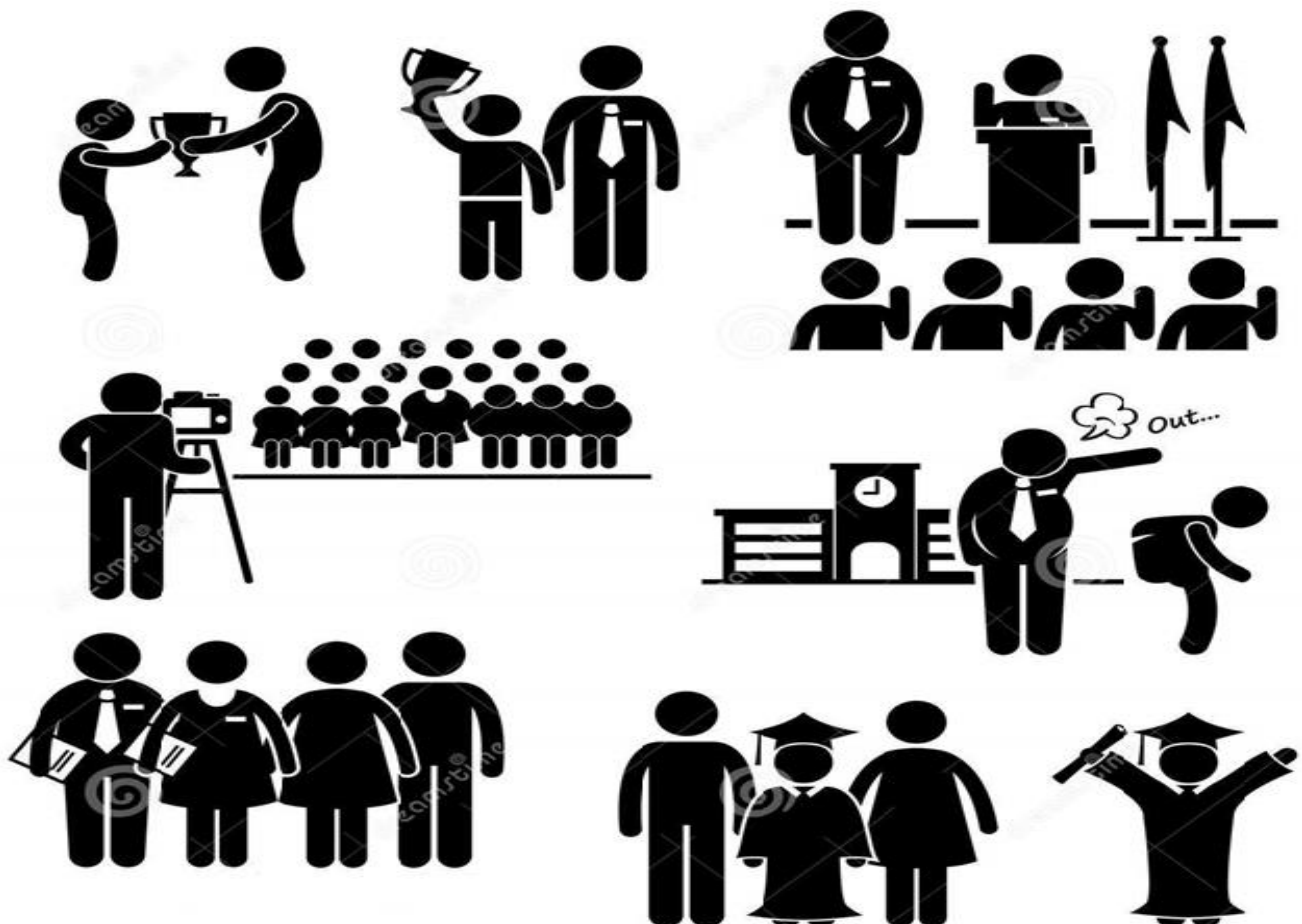


**BMS COLLEGE OF ENGINEERING, B'lore -19**  
[Autonomous Institute under VTU, Affiliated to VTU]

**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

# ANNUAL ACTIVITY REPORT

**APR 2017 – MAR 2018**



## **PROGRAM VISION**

To Emerge as a Centre Of Academic Excellence In Electronics, Communication And Related Domains Through Knowledge Acquisition, Knowledge Dissemination And Knowledge Generation, Meeting The Global Needs and Standards.

## **PROGRAM 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

## **PROGRAM EDUCATIONAL OBJECTIVES**

PEO-1: Graduates Will Professionally Progress In Electronics, Communication and Related Areas with an Inclination Towards Continuous Learning.

PEO-2: Graduates will Work in Diversified Teams of Multidisciplinary Environment

PEO- 3: Graduates will Exhibit Good Inter-Personal Skills, Adapt Themselves for Changes in Contemporary Technology

## **PROGRAM OUTCOMES**

1. **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct Investigations of Complex Problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern Tool Usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

6. **The Engineer and Society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project Management and Finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-Long Learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

### **PROGRAM SPECIFIC OUTCOMES**

**The students will be able to -**

1. Analyse and Design Electronic Systems for Signal Processing and Communication Applications.
2. Demonstrate The Conceptual Domain Knowledge With Respect To Architecture, Design, Analysis and Engineering Deployment In Data Communication and Computer Networking.
3. Identify and Apply Domain Specific Tools For Design, Analysis, Synthesis and Validation Of VLSI And Communication Systems.

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**FROM THE HODs DESK.....!!**

*The Department of Electronics and Communication Engineering 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 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 and 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 the goal.*

**Dr. Poornima, G**  
**Assoc. Prof & H o D-ECE,**  
**BMSCE, Bengaluru-19**



# BMS COLLEGE OF ENGINEERING, BENGALURU -19

DEPT. OF ELECTRONICS & COMMUNICATION ENGG.

DEPARTMENT ACTIVITY REPORT APRIL-2017 TO MARCH-2018

## APRIL - 2017

**01-04-2017 to 02-04-2017: DR. LAKSHMI K P, Assoc. Prof, participated as a mentor for Smart India Hackathon 2017 organized by GOI-AICTE. Venue: Sri Venkateshwara College of Engineering, Bangalore.**

**03-04-2017: Dr. G Poornima, HOD & Assoc. Prof, delivered a talk on "Pedagogy in learning Electronics" in an Induction Program.**



**Venue: Dept of ECE, Rajarajeshwari college of Engg., B'lore**

**05-04-2017: All the faculty and technical staff joined hands together in celebrating SriRamanavami in the department.**



**Venue: Communication lab, 1<sup>st</sup> floor, EC block.**

**05-04-2017: Visit to IISc, Bangalore- Organized by Dr. K S Vasundhara Patel, Assoc. Prof. , for MTECH VLSI second semester students.**



**Venue: 1. National Nano Fabrication Centre, Centre for Nano Science and Engineering (CeNSE) Unit: A mega budget project, Central Government has already invested 100 crores in Phase I to develop CeNSE, Now spending 100 crores again during phase II.**

**2. Aerospace engineering unit: Catering to ISRO and other space applications.**

**06-04-2017 to 07-04-2017: Dr. Arathi R Shankar and Dr. Jayanthi K Murthy, Associate professors attended Global R&D summit, organized by FICCI, Dept of Science & Technology, GOI.**

**Venue: Hotel Lalith Ashok, B'lore**

**07-04-2017: Dr. Veena M B, Assoc. Prof. Organized a Guest lecture on " System Verilog for Verification" for M.Tech students of Electronics, VLSI & Embedded systems. Mr. Ramdas M, Senior Verification Engineer / Manager, Applied Microcircuits India Pvt Ltd., Bangalore, was the resource person to deliver the lecture.**

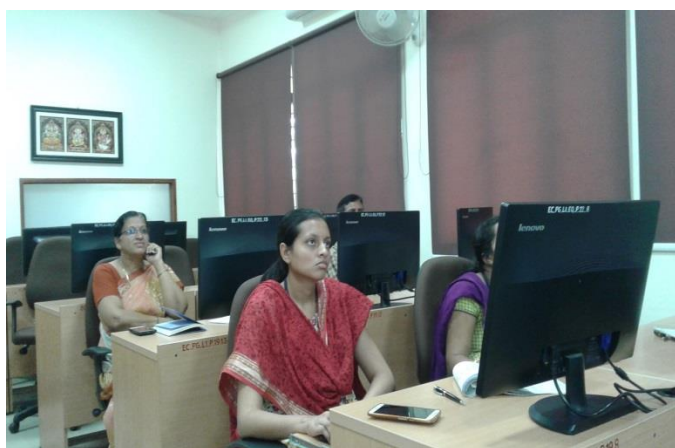
**Venue: CENTER OF EXCELLENCE - VLSI LAB.**

08-04-2017: Parents meeting was held in the department meeting hall.

08-04-2017: The following students were nominated from the department of ECE Darshan N , Govinda Gowda Prajai J shetty, Sharath M Vinayak gandage Sadhan Rudresh , Suhas G, Raghavendra Patige , Pranav S Bijapur to participate in the Open House Event of ""RISE@IIT-B".

Venue: IIT-B campus in Electronics City.

13-04-2017: Mrs. Harshitha B, Asst. Prof., Co-ordinated a hands-on session using "ORCAD Pspice tool". Mr. Manoj kumar from Entuple Technologies Pvt Ltd.,Bangalore, was the resource person to deliver the hands on session.



Venue: CENTER OF EXCELLENCE - VLSI LAB

20-4-2017 to 21-4-2017: Mr. Surendra H H , Asst. Prof., organized an Industrial visit to Nokia Network Labs for sixth semester EC students.



Venue: Nokia network labs , Manyatha tech park, Bangalore.

20-04-2017: Mr. Harish.V.Mekali, Asst. Prof., and Students Vikas Udupa, B G Keshav Prasad, Fhirdos, Chinna Viswanath, Mariam Imram and Nagasayee were felicitated on effective utilization of Impartus Lecture Capture.



Venue: Meeting Hall - Dept of ECE, BMSCE.

20-04-2017: Mr. Harish V Mekali, Asst. prof, delivered a talk on ARM processor & Keil Software for 4th semester students .

Venue: BMSITM, Yelahanka, B'lore

20-4-2017 to 22-4-2017: Dr. SUDHINDRA K R, Associate professor, delivered a talk on "Telecom Analytics"

Venue: IBM -UPES , Dehra dun

21-04-2017: Dr. K S Vasundhara Patel, Assoc. Prof. , organized a workshop on "Mixed-Signal PLL Analysis" for MTECH VLSI students.

Mr. Krishna Reddy M V, Principal design engineer, Cadence Design System, Bangalore was the resource person.

22-04-2017: Dr. K S Vasundhara Patel organized a webinar on "ASIC Verification". Mr. P R Sivakumar, CEO, Maven Silicon, Bangalore was the resource person.

23-04-2017: Dr. K S Vasundhara Patel organized a workshop on "High speed data converters for communication systems" for MTECH VLSI students. Mr. Krishna Reddy M V, Principal design engineer, Cadence Design System, Bangalore was the resource person.

Venue: CENTER OF EXCELLENCE - VLSI LAB.

**02/05/2017 - 03/05/2017:** Dr. B S Nagabhushana, Professor, was invited to be on the Local Inquiry committee for inspecting the Engineering colleges for granting continuation / Extension of affiliation.

**Venue:** Appa institute of engineering & technology, Kalaburgi, Godutai Engineering college for women, kalaburgi , KBN college of engineering, Kalaburgi

**05-05-2017:** Dr. A Meera invited to be on the Local Inquiry committee for inspecting the Engineering colleges for granting continuation / Extension of affiliation at Belagavi.

**05-05-2017:** Dr. K R Sudhindra delivered a talk on "Recent trends in Mobile communication".

**Venue:** PES College of Engg, Mandya.

**05-05-2017:** Mr. Harish V Mekali delivered a talk on Applications on ARM Processor.

**Venue:** Shridevi Institute of Engineering, Tumkur

**08-05-2017:** Dr. R Jayagowri organized an extended lecture on "Concepts and Design Approaches for VLSI Physical Design" for M.Tech students. The resource person to deliver the lecture was Mr. Srikar Talla, Sr. Physical Design Engineer, (Entuple Technologies, Bangalore.

**Venue:** Center of Excellence-VLSI

**09-05-2017:** Mr. Harish V Mekali delivered a talk on "Applications on ARM Processor".

**Venue:** BMSITM, Yelahanka, B'lore

**13-05-2017:** Ms. Geetishree Mishra, Asst. Prof., had Ph.D final defense @ VTU Regional Research Centre, Bangalore.

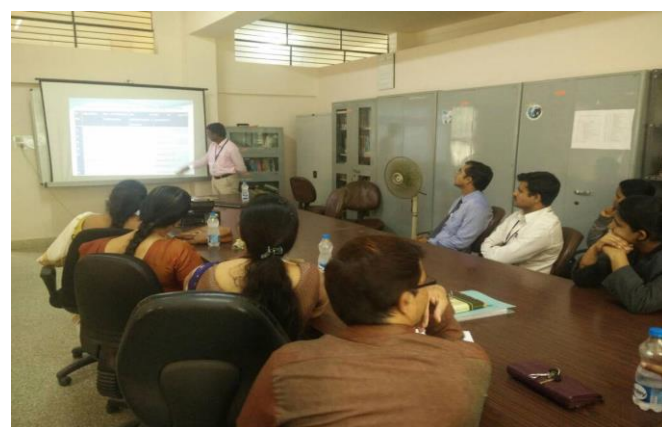
**16-05-2017:** Dr. G Poornima invited to chair a session on communications , National conference NCVCS 17 at RajaRajeshwari College of Engg, B'lore

**18-05-2017:** Dr. G Poornima invited to chair a session in National conference on Innovations & Discoveries in Engg., Technology -PionEER 17 at Vidya Vikas Institute of Engg & Technology, Mysuru

**26-05-2017:** Dr. Vasundhara Patel K S & Dr. Veena M B was invited to Chair the Session of VLSI and embedded system track in 5th National Conference on "VLSI, Communication & Computer Networks (VCCN-5)

**Venue:** AMC Engineering College (AMCEC), B'lore

**27/05/2017 :** Mr.Siddappaji, Assoc. Prof., had Ph.D final defense at Dayanandsagar college of Engg., Bangalore.



**29-05-2017:** Dr. Prerana Gupta Poddar invited as speaker for a session on "Stochastic process" and Dr. Sudhindra K R invited as speaker for a session on "Digital Signal Processing"- four day short term course on RADAR signal and data processing

**Venue:** IETE, Bengaluru.

**25/5/2017-07/06/2017:** Dr. Kiran bailey ,Asst Prof organized a two week workshop on "Advanced digital logic verification" for UG - 6th sem passed out students.



**Venue:** Center of Excellence-VLSI

## JUNE 2017

**01-06-2017:** All the technical staff of the dept. was attended a guest lecture organized by the Dept. of Mechanical Engg. on "Quality Concepts" on part of Quality week. Lecture was delivered by Mr. Venkatesh, Foreman Institute of Training, B'lore  
Venue: Seminar Hall, Dept. Of Mechanical Engg.

Dr G Poornima was invited as the chief guest for the valedictory of Short Term Course on Radar Signal and Data Processing (RSDP-17)



Venue: Institution of Electronics & Telecommunication Engineers (IETE), Bengaluru

**05-6-2017- 09-06-2017:** Mrs. Bhagyalakshmi. L, Foreman and Mr. Prakash, Instructor attended a workshop on health , laboratory and fire safety

Venue: Dept. of Chemical Engineering.

**07-06-2017:** Dr. Kiran bailey, Asst. Prof., organized a two week workshop on "Advanced digital logic verification" for UG - 6th semester passed out students and the valedictory session was held.



Venue: Center of Excellence-VLSI.

## JULY 2017

**08-07-2017 & 09-07-2017:** Mrs. Radha R C, Ms. Sanjana T, Mrs.Srevidya G K Assistant professors attended two day workshop on "Research Methodologies" organized by IEEE COMSOC & IEEE BANGALORE SECTION  
Venue: Amrita Institute of technology, Bangalore

**27-07-2017:** Dr. K.P.Lakshmi and Dr. M N Suma, Assoc. Prof., conducted a one day workshop to the final year students of all departments on 'Technical Writing and Documentation'.

Venue: Govt. Polytechnic, Channapatna



**26-7-2017:** Dr. K.P.Lakshmi and Dr. M N Suma, Assoc. Prof., Department of ECE were invited by Consortium of Electronic Industries of Karnataka - CLIK to participate in the Academia Industry Interaction.



Venue: Le Meridian, Bangalore.





## SEPTEMBER 2017

**09-09-2017:** The team CHINMAI R , KIRAN RS , MITHUN MR currently studying in 2nd year ECE, participated in the NATIONAL LEVEL ROBOTICS COMPETITION , AIRC and bagged the FIRST RUNNER UP position .



**Venue: IIT HYDERABAD in association with TechieNest**

**25-09-2017:** Orientation program for the I Sem M Tech Students (EC, DCE, VLSI) was held in Advanced RF Wireless Lab (III Floor) TCE block

## OCTOBER 2017

**26-10-2017:** The Department of ECE, BMSCE in association with Nuffic neso India, organised an event 'Holland meets Bangalore'. His Excellency Mr. Alphonsus H.M. Stoelinga, the Ambassador of Netherlands to India, Ms. Dominique Kuhling, Deputy Head of Mission, Netherlands Embassy , New Delhi and the Director of Nuffic Neso Dr. Jasmin Beverijk addressed the students of the college and encouraged them to explore the Higher education opportunities in Netherlands. The ORANGE TULIP Scholarship provided for the Asian students for pursuing their higher education was also launched on this day. The event was attended by students of UG, PG, MBA and MCA.



**28-10-2017:** Dr. Kiran bailey, Assistant professor, Mr. Muralidhar, Instructor, Mr. Sudheer Shenoy, Instructor attended a one day seminar on "Embedded System Design using FPGA"

**Venue: CoreEL TECHNOLOGIES, BANGALORE**

**27-10-2017 :** Faculty members Viz., Dr. G Poornima, Dr. A Meera , Mrs. Bhavana H T, Mrs. Sujatha. K, Dr. Kiran Bailey, Dr. Veena M B, Dr. K S Vasundhara patel, Dr. Lakshmi K P, Dr. Suma M N Dr. K R sudhindra, Dr. Akhila S, Dr. Prerana Gupta were nominated for participating in IEEE MITE 2017.

## NOVEMBER 2017

15-11-2017: Mrs. K Vijaya and Mrs. Latha H N, Asst. Profs organized an Industrial visit to Broadcom India pvt ltd ., for seventh semester students.



Venue: Broadcom ltd., Bangalore

18-11-2017: Mrs. Radha R.C, Asst. Prof organized a technical talk for UG and PG students on "Usage of Electronics in Semiconductor industry" Mr. Mallikarjun Manur, Design Engineer, Advanced Micro Devices Inc, Bangalore, was invited as resource person.

22-11-2017: Dr.Sudhindra K.R, Assoc Prof delivered a technical talk on "Radio network planning and optimization".  
Venue: VTU-PG Centre, Mysore

## DECEMBER 2017

29-12-2017: Dr. K R Sudhindra, Assoc Prof, Delivered a talk on " Innovations in Teaching and Learning Process" during the TLP workshop.  
Venue: SJCIT, Chikballapur, Karnataka.

15-12-2017 to 16-12-2017: Bagamma naragund, Prasad Ravi, Dr. Vasundhara patel K S has been awarded as the ""Best Paper Presenter"" in the International Conference ICEECCOT-2017  
Venue: GSSSIETW, Mysuru

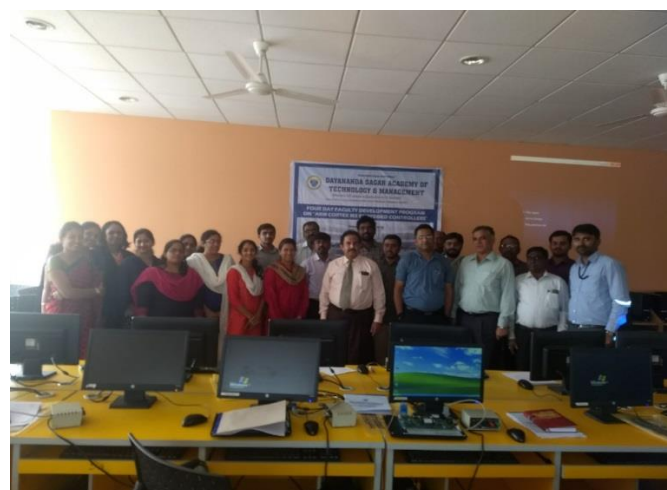
## JANUARY 2018

07/01/2018: Dr.M.N.Suma, and Dr. K.P.Lakshmi, Assoc Profs. Attended IEEE Annual General Body meeting - BMSCE IEEE student branch and was awarded 'Outstanding Branch' award for its activities and achievements.



Venue: Hotel Shangri-La, Bangalore

08-01-2018 & 09-01-2018: Mr. Harish V Mekali, Asst Prof. Delivered a talk on "ARM Cortex M3"



Venue: Dayanand Sagar Academy of Technology & Management, Bangalore

**Mr. Harish V Mekali, Asst Prof put an effort to Collaborate with an INDUSTRY NUETECH SOLAR PVT LTD and BMSIOT LAB TO FIELD.**



**24-01-2018: Mrs. Archana H R, Mrs. Harshitha Sanjana T, Asst. Profs Organised a technical talk on "Overview of SoC". The resource person was Mr. Pradeep from M/s. WaferSpace, Bangalore.**



**Venue: BSN Hall, BMSCE**

**Dr.M.N.Suma, Assoc Prof. Published an Article on "M2M communication in wireless adhoc network' in IEEE Communication society Bangalore section.**

**04-01-2018 & 05-01-2018 : Mr. Harish V Mekali, Asst Prof. Deliverd a talk on "ARM Cortex M3"**



**Venue: Cambridge Institute of technology, B'lore**

## FEBRUARY 2018

**29-01-2018 – 03-02-2018: Dr. Vasundhara Patel, Assoc Prof-VLSI One week Workshop on "Advances in Design & Verification of Digital Circuits Design" by Shruthi.B, Shana Virupaxi Uppin from VLSI Guru training institute, Bangalore.**



**Venue: ESSCI -COE VLSI lab, ECE block**

**08/02/2018: Dr. Veena M B, Assoc Prof - Electronics Guest lecture on "VLSI VERIFICATION for first year M.Tech-EC and VLSI students . Mr.Shivanand Koteswar, MediaTek, Bangalore.**



**Venue: COE VLSI lab, ECE block**

**03-02-2018: Vaishnavi Sonwalkar participated in TechnoXian competition -2018, organized by Timesworld Group & ministry of science and technology.**

**Vaishnavi Sonwalker has been awarded with 15% scholarship for being participated in "Full Throttle" event conducted by the Gate Academy.**

**16-02-2017 - 17-02-2018: DR. Siddappaji, Prof Surendra HH, Prof H N Latha, Asst Prof. organized Two day workshop on "LATEX TOOL FOR TECHNICAL WRITING AND DOCUMENTATION" Mr. Harikrishna DM, Associate Software Engineer, Harman International Pvt ltd., Bangalore.**



**Venue: BMS – Library Auditorium**

**18-02-2018: Dr. Lakshmi KP, Assoc Prof., Invited to deliver a talk on " Research opportunities in material science" and also Chaired the Technical Presentation Session during the 3rd International Conference on Academic Research in Engineering, Management and Information Technology.**



**Venue: MJP Rohilkhand university, UP**

**18-02-2018: Dr. Suma M N, Assoc Prof., Invited to deliver a talk on "Wireless Communications -Test and Measurements" and also Chaired the Technical Presentation Session during the conference, 3rd International Conference on Academic Research in Engineering, Management and Information Technology**



**Venue: MJP Rohilkhand university, UP**

**22/02/2018: Dr. Siddappaji, Prof Lalitha S, Prof surendra H H, Prof Archana H R, Prof Radha R C "Community Service - To create awareness and motivate the students to develop, interest in Digital technology as a social concern for rural students .**

- Considering the background and facilities available selection of the school is done.
- As students were aware of basic English literature and usage of mobile phones and wanted to experiment on their learning interest towards Computer Basics like MS-WORD and MS-PAINT.
- By providing this small service the motto is to support "DIGITAL –INDIA" initiative.



**Venue: Govt primary school, Maralenahalli, Doddaballapura.**

**22-2-2018: Prof Birgit Zich, Course coordinator, Electronics Engineering and Hochschule Berman, University of applied Science, Germany visited and interacted with Dr. G. Poornima for Collaborative initiatives and exchange programs with the department.**



**Venue: Meeting hall, Dept. of ECE**

**23-02-2018: Dr. Vasundhara patel K S, Assoc Prof -VLSI & Dr. Veena M B, Assoc Prof – Electronics organized an Industrial visit to IISC, Bangalore.**



**23/2/2018: Dr. Sudhindra K R & Dr. Suma M N, Assoc. Profs were Invited to deliver a talk on "Test and measurement equipment" and "wireless communication", respectively for the students of EC department.**



**Venue: Govt. Polytechnic, Arakere, Mandya**

### MARCH 2018

**07-03-2018: Dr. Vasundhara Patel K S, Assoc. Prof, ECE, BMSCE, Centre for Nano materials and displays and Society for Information display- Bengaluru chapter jointly organized a guest – expert talk on “Flexible electronics and OLED displays” by Dr. Deepak Gupta Professor, Material Science & Engineering, National Centre for Flexible Electronics, IIT Kanpur.**



**Venue: BSN Hall, Ground Floor, PG Block**

**08-03-2018 – 10-03-2018: Vaishnavi Sonwalkar had participated in the event “Line Follower” at Anaadyantha 2018, National level annual techno cultural fest held at Nitte meenakshi institute of technology**

**10-03-2018: Dr. Vasundhara Patel K S was invited to deliver a talk on “Analog & Digital IC Design flow using Mentor Graphics EDA tool”**



**Venue: Dayanada Sagar College of Engg, B'lore**

**12-03-2018: Dr. Vasundhara Patel was invited to deliver the lecture on “Concepts of VLSI Designs” For the students of Electrical & Electronics engineering department.**



**Venue: COE- VLSI LAB, Dept. OF ECE**

**17-03-2018: Dr. K. P. LAKSHMI, Assoc. Prof, was invited to deliver a talk on ‘Innovation: Relevance and Invention’.**



**Venue: Visvesvaraya Industrial and Technological Museum, Bangalore**

**20/03/2018: Dr. Sudhindra K R, Assoc. Prof was invited to deliver a lecture on “Global Telecom practices and Trends” and also “Mobile communication standard design and Protocols”**



**Venue: UPES, Dehradun**

**23-03-2018 & 24-03-2018: Dr. Arathi R Shankar, Assoc. Prof, Organized hands on session on “Using System Vue Software Tool”, for second semester M.Tech – DC students. The invited resource person was Mr. Safal from ARTS, Bangalore.**



**Venue: Advanced RF and wireless Communication lab, 3<sup>rd</sup> floor, Dept. of ECE**

**25-03-2018: Dr. Vasundhara Patel K S, Assoc. Prof, organised a hands on session on “Physical Design Flow” for second semester M. Tech students of VLSI branch. The invited resource person was Mr. Jitender from Broadcom Ltd., Bangalore.**



**Venue: COE- VLSI LAB, Dept. OF ECE**

**❖ LABORATORY ESTABLISHED IN THE DEPARTMENT IN ASSOCIATION WITH INDUSTRY:**

SL. NO	YEAR OF ESTABLISHMENT	NAME OF THE LABORATORY	NAME OF THE INDUSTRY
1	OCT - 2017	INNOVATION CENTRE IN INFORMATICS AND COMPUTING WITH ALTAIR ENGG.	ALTAIR ENGINEERING, BANGALORE.

**❖ MoUs WITH THE DEPARTMENT:**

SL. NO	INDUSTRY	ASSOCIATED FACULTY	DATE OF MoU SIGNED	PURPOSE	ACTIVITIES HELD SO FAR
1	Nokia India Pvt. Ltd., Manyata Techpark, Hebbal Road, Bengaluru, Karnataka-560045	Dr.K.R Sudhindra, Dr. M N Suma	2017	Curriculum and Lab Development	Courses were conducted, Internship offered for few students in Communication domain
2	PRLight COM broadband Solutions Pvt. Ltd., 797/76, Bellandur Road, Bellandur, Bangalore 560103 Karnataka, India	Dr.S. Akhila	2017	Curriculum and Lab Development	Knowledge transfer done in Communication domain and also Internship offered for few students in Communication domain.
3	Nokia India Pvt. Ltd., Manyata Techpark, Hebbal Road, Bengaluru, Karnataka-560045 Nokia India Pvt. Ltd.	Dr.K.R Sudhindra, Dr.M N Suma	13/03/2017	Curriculum and Lab Development	Nokia University Consortium Setup to discuss Telecommns. cloud and IOT to help improve virtualization scaling and Orchatrization in mobile broadband networks.



**❖ INDUSTRIAL VISITS :**

<b>SL. NO</b>	<b>DATE</b>	<b>YEAR/SEMESTER</b>	<b>NAME &amp; OFFICIAL ADDRESS OF THE INDUSTRY</b>
<b>1</b>	<b>20-4-2017 to 21-4-2017</b>	<b>Sixth semester - UG</b>	<b>Nokia Network Labs, Bangalore.</b>
<b>2</b>	<b>15-11-2017</b>	<b>Seventh Semester - UG</b>	<b>Broadcom India Pvt ltd ., Bangalore.</b>
<b>3</b>	<b>23-02-2018</b>	<b>2<sup>ND</sup> Semster M.TECH – Electronics, VLSI &amp; Embedded Systems</b>	<b>IISC, Bangalore.</b>

## ❖ RESEARCH PUBLICATIONS:

SL. NO	FACULTY / AUTHOR	TITLE OF THE PAPER	TITLE OF THE JOURNAL	DATE OF PUBLN.
1	Dr. R Jayagowri	“Efficient Timing Closure in SOC through Timing Quality Checks and Engineering Change Order”	Published in International Journal of Advance Research, Ideas and Innovations in Technology, (Volume3, Issue3) May-2017, Page   699-705, ISSN: 2454-132X	May-2017
2	Dr. R Jayagowri	“Simultaneous Data Path and Clock Path Engineering Change Order for Efficient Timing Closure in Complex SOC”	Published in IOSR Journal of VLSI and Signal Processing (IOSR-JVSP) Volume 7, Issue 3, Ver. I (May. - June. 2017), PP 35-41, e-ISSN: 2319 – 4200, p-ISSN No. : 2319 – 4197, DOI: 10.9790/4200-0703013541	May -June. 2017
3	Dr. Prerana Gupta Poddar	“A Simplified Joint Source and Channel Coding System for Data Transmission over Fading Channel,”	Wireless Personal Communication, Springer Intl. Publishing, vol. 94, no 3, pp. 1341-1358, DOI 10.1007/s11277-016-3685-y, June 2017.	June-2017
4	Dr. Prerana Gupta Poddar	"Generalized Frequency Division Multiplexing for 5G Cellular Systems: A Tutorial Paper,"	AKGEC International Journal of Technology, vol 8, no 1, Jan 2017, pp 39-45.	Jan-2017
5	K N Madhusudhan	"NFC Health Monitoring System",	Published in International Journal of Research and Scientific Innovation (IJRSI)   Volume IV, Issue IV, April 2017   ISSN 2321 –2705.	Apr- 2017
6	Dr. Veena M B	“Denoising the Underwater Images by using Adaptive Filters”	Advances in Image & video processing, Society for Science & Education, UK, ISSN 2054-7412, 27 Apr 2017.	Apr-2017
7	Dr. Veena M B Girish N	High Speed Low Power Adaptive Viterbi Decoder Architecture for Underwater Acoustic Communication with Turbo Codes	International Journal of Applied Engineering Research ISSN 0973-4562 Volume 12, Number 18 (2017) pp. 7982-7989 © Research India Publications. <a href="http://www.ripublication.com">http://www.ripublication.com</a>	Oct-2017
8	Dr. Veena M B Bhavani shankar	Extraction and classification of MRI Brain Tumor using PCA with variation of threshold levels	Journal of Social, Technological and Environmental science, PP, 137-144, ISSN 2238-8869.	Aug- 2017

9	Dr. Suma M N	“Voice over WiFi based smart wireless notice board”,	SSRG International Journal of Electronics and Communication Engineering (SSRG-IJECE) – Volume 4 Issue 6 – ISSN: 2348 – 8549 , pp. 4-6, June 2017.	June-2017
10	Dr. Suma M N	M2M Communication in Ad-Hoc WSNs for Industrial Application Using MQTT Protocol	Advances in Wireless Communications and Networks. Vol. 3, No. 4, 2017, pp. 39-44. doi: 10.11648/j.awcn.20170304.12 Received: May 8, 2017; Accepted: June 6, 2017; Published: July 25, 2017	July-2017
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