



BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
IBRAHIM PATNAM, HYDERABAD, TELANGANA-501510

NEWSLETTER

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ISSUE:1, VOLUME: 4, YEAR: 2017-18 (ANNUAL RELEASE)

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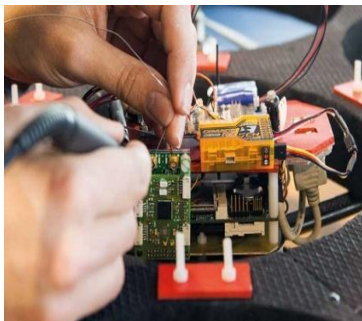
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MISSION

Our mission is to impart education in a conducive ambience as comprehensive as possible, with the support of all the modern technologies and make the students acquire the ability and passion to work wisely, creatively and effectively for the betterment of our society.

CHAIRMAN'S MESSAGE

Bharat Institutions has been truly reflecting the academic excellence since 1991, when the first brick was laid for the noble cause of imparting quality education to one and all. Thousands of students and parents have been reposing their trust and confidence in our Institutions.

VISSION

To achieve the deemed university status and spread universal education by inculcating discipline, character and knowledge into the young minds and mould them into enlightened citizens.



AGRASAR BHARAT
Department of Electronics & Communication Engineering



ANYTHING YOU REALLY WANT, YOU CAN ATTAIN, IF YOU REALLY GO AFTER IT.

WAYNE DYER

ABOUT THE DEPARTMENT

The electronics & Communication Engineering program provides students with an in depth education in the conceptual foundations of computer science and in complex hardware and software systems. The B.Tech Program in Electronics and Communication Engineering (ECE) was started in the year 2001 with intake of 60, enhanced to 120 in 2009, 120 to 180 in 2013 and 180 to 240 in 2014. It allows them to explore the connections between computer science and a variety of other disciplines in engineering and outside. Combined with a strong education in mathematics, science, and the liberal arts it prepares students to be leaders in electronics and communication engineering practice, applications to other disciplines and research. The department encourages UG students to involve in research activities resulting in projects and publications which mark their prudence and benefit others to follow. The Course was accredited by NATIONAL BOARD OF ACCREDITATION (NBA) since 2007.

The Department comprises well qualified faculties. It also offers two year full time Post Graduate Programme approved by All India Council of Technical Education(AICTE) New Delhi.

- M.Tech in Specialization with Embedded System
- M.Tech in Specialization with VLSI Technologies
- M.Tech in Specialization with Wireless Mobile Communication.

Situated amidst lush green campus with teak plantations, the Department, over the time, has grown in several dimensions and provides a magnetic ambience in teaching and learning. The faculties are engaged in research in diverse topics focusing in Telecommunication, Antenna and Microwave, Microelectronics and VLSI, Signal and Image processing. The Department is committed to impart quality education at undergraduate as well as postgraduate level and promulgate quality research in diverse fields of application of electronics engineering.

EMINENT PROFESSORS AT THE DEPARTMENT

PROF. G. KUMARASWAMY RAO :

HE SERVED DRDO FOR 36 YEARS IN VARIOUS CAPACITIES AS SCIENTIST AND RETIRED AS DIRECTOR & OUTSTANDING SCIENTIST OF DEFENCE ELECTRONICS RESEARCH LAB (DLRL) AN EW LAB UNDER DRDO.

PRESENTLY HE IS WORKING AS PROFESSOR & DIRECTOR (R&D) AT BIET, IBRAHIMPATNAM.

HE OBTAINED ME FROM OSMANIA UNIVERSITY IN 1968 WITH 1ST RANK AND STUDIED RADAR COURSE AT HOLLAND IN 1985. HE UNDERWENT MANAGEMENT COURSE AT IIM BANGALORE AND SATELLITE COMMUNICATION COURSE AT IIT KHARAGPUR.

HE GAVE NUMBER OF PRESENTATIONS ON EW AT INSTITUTE OF ENGINEERS, IEEE CONFERENCES, EWCI, AND INDUSTRY, AND PRESENTED NUMBER OF PAPERS (MORE THAN 40) IN VARIOUS CONFERENCES.

HE IS A MEMBER OF IDST, IEEE, AOC, FELLOW IETE ETC.



DR. R. SREEHARI RAO :

HE IS PRE-EMINENT SCIENTIST WITH A PH.D FROM IIT, MADRAS .HE PREVIOUSLY SERVED AS THE DIRECTOR OF DLRL, AND AS THE VICE CHANCELLOR AND CHANCELLOR O KL UNIVERSITY. HE HAS CARRIED OUT INDIGENOUS DEVELOPMENT OF EW SYSTEMS, LASER SYSTEMS, COMMAND AND CONTROL SYSTEMS, ELECTRO OPTICS THERMAL IMAGING AND NIGHT FIGHTING SYSTEMS. HE HAS PUBLISHED EXTENSIVELY, AND HIS RESEARCH INTERESTS RANGE FROM INFORMATION WARFARE TO RF AND SIGNAL PROCESSING, FROM WIRELESS COMMUNICATION TECHNOLOGY TO SPACE BASED



DEPARTMENT ACTIVITIES

AICTE SPONSORED TWO-WEEK FACULTY DEVELOPMENT PROGRAM ON “RF AND MICROWAVE ANTENNA DESIGN” (27TH NOVEMBER TO 09TH DECEMBER 2017)

The Department of Electronics & Communication Engineering organized AICTE sponsored Two-Week Faculty Development Program on RF and Microwave Antenna Design. The FDP is from 27.11.2017 to 9.12.2017. The FDP is inaugurated by the Chief Guest Dr.V.M.Pandharipande, Former VC, Dr.Babasaheb Ambedkar University, Director, Centre for Excellence in Microwave Engineering, Osmania University, Sri Ch.Venugopal Reddy, Chairman, Bharat Institutions along with other dignitaries.

The Department of Electronics & Communication Engineering (ECE), Bharat Institute of Engineering and Technology (BIET) organized Two Week Faculty Development Program (FDP) on RF and Microwave Antenna Design sponsored by All India Council for Technical Education (AICTE). The FDP was held from 27.11.2017 to 9.12.2017. The FDP was inaugurated by the Chief Guest Dr.V.M.Pandharipande, Former Vice-Chancellor (VC), Dr.Babasaheb Ambedkar University and Director, Centre for Excellence in Microwave Engineering, Osmania University and Sri Ch. Venugopal Reddy, Chairman, Bharat Institutions along with other dignitaries. The welcome address was given by Prof. E.Venkat Reddy, Principal and FDP Coordinator stating the facilities in the institution and the importance of FDP. He also informed that various resource scientists from Defence Electronics Research Laboratory (DLRL), Research Centre Imarat (RCI), Astra Microwave Systems (AMS), and academicians from IITs, NITs, BITS-Pilani and other premier organizations were invited to deliver sessions for the FDP.

Prof. G. Kumaraswamy Rao, Senior Director, HOD ECE, BIET, (Former Director & OS of DLRL) gave an overview of the FDP where several antennas for different applications are explored. Chief Guest, Dr.V.M.Pandharipande delivered a keynote session for the FDP where similarities and analogies drawn among the engineering systems. Dr.Y.C.Venudhar, Registrar, BIET gave the vote of thanks for the inaugural session. Next the session started with RF Systems for Guided Missile Applications by Mrs. Shashikala Sinha, Scientist (SC)-G of RCI. The post lunch session started with

Specialized Indoor and Outdoor Test Range Systems by Mr.Rakesh Kumar Singh, SC-F of RCI. The last session of the First day was on Coplanar Waveguides by Mr. D.Ratan Sanjay, SC-F of RCI



Snap shot of "FDP registration" by Delegates



Photograph of "FDP Lighting of Lamp Ceremony" by Dignitaries



Image of Chief Guest Dr.V.M.Pandharipande and other dignitaries



Felicitatation of Mrs.Shashikala Sinha who delivered lecture on "RF Systems for Guided Missile Applications"



Lecture on "Specialized Indoor and Outdoor Test Range Svstems" bv Mr.Rakesh Kumar Singh. RCI.



Talk on "Coplanar Waveguides" by Mr.D.Ratan Sanjay, SC-F, RCI

The second day session started with RF Antennas by Prof. Srihari Rao, Director (R&D), BIET, (Former Director of DLRL) and VC & Chancellor of K L University where antenna fundamentals and different RF antennas were explained and demonstrated. The next session was delivered by Mr. S.B.Gayen, SC-G of RCI on DSP Techniques for RF Systems in which several applications of RF systems and various DSP applications used for RF systems were discussed.



RF Antennas session by Dr. Sreehari Rao, Director (R&D), BIET



Memento presentation to Mr. S.B.Gayen, SC-G of RCI who delivered lecture on "DSP for RF Systems"

The post lunch session was about "RF Technology for Various Products" by Mr.B.R.K.Reddy, SC-H of RCI which concluded the day.



Talk on "RF Technology for Various Products" by Mr.B.R.K.Reddy, SC-H, RCI



Felicitation of Mr.B.R.K.Reddy by Dr.S.K.Chaudhuri

There was an industrial visit to ACD Communications Pvt., Ltd., IDA Cherlapally, organized to understand manufacturing techniques of several antennas used for various applications and their far-field as well as near field testing procedures.



FDP participant gathering at ACD Communications



Delegates in Antenna assembly unit of ACD Communications Pvt., Ltd.



Explanation about production process of antennas at ACD Communications Pvt., Ltd.



Snap shot of participants inside anechoic chamber at ACD Communications Pvt., Ltd



Delegates in "Horn Antenna Production Unit" of ACD Communications Pvt., Ltd.



Participant interaction with Dr. Rama Krishna Rao, Director (Production) ACD Communications Pvt., Ltd

There was an industrial visit to Astra Microwave Products Ltd., Unit-1 where a presentation by Mr. Sunil Patil, GM, Unit-1 was held on various products developed there. He gave an overall view of this unit and explained the process of product development.



SAP (ABAP/MM/FI/SD/HR) 30 DAYS TRAIN THE TRAINER PROGRAM FOR BIET FACULTY IN COLLABORATION WITH SAP- IPA EDUCATION PARTNER @ BIET CAMPUS W.E.F. 3RD JULY 2017

SAP (ABAP/MM/FI/SD/HR) Train the Trainer programme for BIET Faculty commenced from 3rd July 2017 and the duration of the training programme is for 30 days. 34 faculty from various departments of BIET are attending this SAP training. Resource Person is Mr. A. V. KRISHNA, SAP Corporate Trainer. SAP Training is being organized by BIET Placements department in collaboration with SAP-IPA EDUCATION PARTNER AT BIET.



This exposure and education will give students a competitive hiring advantage while giving employers access to well prepared graduates, skilled in the latest concepts & tools. It is important to note that the program is a training program for SAP software. The Alliance will also strengthen research in Enterprise Integration. The SAP Student

Academy Program is multi-disciplinary and is being run across multiple departments of BIET.

SAP ERP Dongle Site License Course Modules:

SAP ABAP (ABAP)
SAP Materials Management (MM)
SAP Financial Accounting (FI)
SAP Sales and Distribution (SD)

SAP ERP Dongle Site Licenses:

SAP ERP Dongle Site License: 240 users
SAP Learning Hub License: 10 users
Questionmark Perception (QMP) License: 120 users

ECE DEPARTMENT CONDUCTED ONE DAY SEMINAR ON "CURRENT & FUTURE RADAR TECHNOLOGIES" & INAUGURATION OF ISTE CHAPTER ON 16TH OF FEBRUARY, 2018

ECE Department conducted one day seminar on "CURRENT & FUTURE RADAR TECHNOLOGIES" & INAUGURATION OF ISTE CHAPTER on 16th of february, 2018.



DEPARTMENT RESEARCH ACTIVITIES

S.N.	LIST OF THE AUTHORS	TITLE OF THE PAPER	NAME OF THE JOURNAL/ CONFERENCE	MONTH & YEAR OF PUBLICATION
1	G.Kumaraswamy Rao	Protection of Crowded Sport Arenas, Public Meetings and VVIP Convoys from Remotely Controlled Explosive Devices (RCIEDs)	OU Centenary International Conference (OU 100 ECE) on 28 December 2017 - Preconference Tutorials 3 hours duration at OU ECE Auditorium.	Dec-2017
2	G.Kumaraswamy Rao	Enhancing Antijamming Capabilities of Electronic Systems onboard the Civilian Communication Satellites used during the Tactical Wars National Conference on Advances in Control, Power & Energy Systems	National Conference on Advances in Control, Power & Energy Systems, 24th, 25 March 2017 at BIET, Mangalpally Organised by EEE DEPT. OF BIET under the technical sponsor IEEE Hyderabad Chapter	Mar-2017
3	G.Kumaraswamy Rao	Innovative Techniques in Protective Technologies to Detect and Mute RCIEDs (Radio Controlled Improvised Explosive Devices)	2nd National Conference on Recent Advances in Electronics, held on 24th & 25th February 2017 at ICFAI Technical School, IFHE, Hyderabad organized by the ICFAI Foundation for Higher Education.	Feb-2017
4	G.Kumaraswamy Rao	Emerging Technologies in Protection of Crowded Public Arenas from RCIEDs Using Reactive Jammers Mounted on Aerostats, UAVs, DRONES	Bombshell Journal of National Bomb Data Centre, National Security Guard, Volume XXVI Feb 2017. PP 71-76	Feb-2017
5.	Vikas Maheshwari	Artificial Intelligence: Prosthetic Quantum Brain,	Hardware and Electrical Engineering (ITCHEE), pp. 1-2, Dec 2017.(Editorial)ICSSES Transactions on	Dec-2017

			Computer	
6.	Kasturi K	Household Device Monitoring Based on Gesture Recognition and Zigbee Protocol	International Conference on Frontiers in Engineering, Applied Sciences and Technology	Apr-2017
7.	Kasturi K	A High Accuracy Framework for Automatic Railway Gate Control and Monitoring	International Conference on Frontiers in Engineering, Applied Sciences and Technology	Apr-2017
8.	Kasturi K, Vikas Maheshwari	Gesture Recognition Based Device Control Using MEMS Accelerometer	International Journal of Engineering Science, Advanced Computing and Bio-Technology Vol. 8, No. 4, pp. 256 to 264, October to December 2017	Oct-Dec-2017
9.	B. Sridhar and Mohammed Zafar Ali Khan	A Novel RMS Delay Spread Model for VHF/UHF Bands	PIERS 2017, 22-25 May, 2017, St. Petersburg, Russia	May-2017

TRAINING AND PLACEMENT ACTIVITIES

OBJECTIVES:

- To train the students to meet the expectations of the industry through our Campus Recruitment Training (CRT) program.
- To provide exposure to the students about the happenings with various Industries through our Institute- Industry Collaboration. This is to make them understand the dynamic industrial environment and to keep them updated technically.
- To provide excellent placement support to our students by inviting eminent recruiters to our Institution recruit them through our Campus Recruitment Program.

CRT SCHEDULE: 2017-2018

DAY	BRANCH SECTION AND VENUE	TIMIMNG	COMPANY
IST YEAR B.TECH ECE			
Tuesday	ECE-A (NB-202), ECE-B(NB-302)	1:30 Pm to 4:00PM	FACE
Wednesday	ECE-C (NB-410), ECE-D(NB-412)	1:30 Pm to 4:00PM	FACE

DAY	BRANCH SECTION AND VENUE	TIMIMNG	COMPANY
IIND YEAR B.TECH ECE			
Monday	ECE-A (NA-416), ECE-B(NA-417)	1:30 Pm to 4:00PM	FACE
Wednesday	ECE-C (NA-417), ECE-D(NA-412)	1:30 Pm to 4:00PM	FACE

DAY	BRANCH SECTION AND VENUE	TIMIMNG	COMPANY
IIIRD YEAR B.TECH ECE			
Tuesday	ECE-A (NB-202), ECE-B(NB-302)	1:30 Pm to 4:00PM	Talentsprint
Thursday	ECE-C (NB-410)	1:30 Pm to 4:00PM	Talentsprint

DAY	BRANCH SECTION AND VENUE	TIMIMNG	COMPANY
IVTH YEAR B.TECH ECE			
Tuesday	ECE-A (NA-215), ECE-B(NA-114)	1:30 Pm to 4:00PM	FACE
Wednesday	ECE-C (NA-105)	1:30 Pm to 4:00PM	FACE

TASK TRAINING PROGRAM 2017-18

TASK Training classes were conducted in the ECE department for II, III and IV year students all sections A,B,C and D in respective classrooms/Auditorium of NA Block and the octagonal building .



CAMPUS PLACEMENT

Complete Placement matrix at the college level is given bellow

S. No.	Name of the Company	No. of Students Selected
1.	CMC IT SERVICES	23
2.	COMPENTENT CAREER IMIGRATION	38
3.	AMAZON INDIA PVT LTD.	35
4.	HEWLETT-PACKARD	04
5.	GENPACT	11
6.	PINNACLE GENERATORS	11
7.	SRILOGILLU DEVELOPERS PVT.LTD	07
8.	ARCK IT SERVICES PVT LTD.	02
9.	KARVY DATA MANAGEMENT SERVICES LTD.	03
10.	BUZZ WORKS BUSINESS SERVICES PVT LTD .	20
11.	NIGHTINGALE HOME HEALTH SERVICES	04
12.	SATHGURU MANAGEMENT CONSULTANTS	02
13.	HGS	10
14.	GENPACT (CAMPUS MARG)	02
15.	POLMON INSTRUMENTS PVT LTD.	02
16.	JINDAL ELECTRIC LTD.	01
17.	DREAMZ ANIMATIONS	02
18.	INTELENET GLOBAL PVT LTD.	03
19.	HERITAGE FOODS LTD.	02
20.	CAP GEMINI	03
21.	PERAM GROUP	11

22.	INNOV SOURCE	03
23.	SHUBHAGRUHA PROJECTS PVT LTD.	06
24.	RAJ GROUP	03
25.	EUREKA FORBES	13
26.	INFOSOURCE	02
27.	IPRIMED	03
28.	HR IT	02
29.	INFOSYS	02
30.	PROMPT PERSONNEL	05
31.	GOOGLE WALLET /ADWORDS	18
32.	SURYA TECH SOLUTIONS	21
33.	MAX LIFE INSURANCE	12
34.	CYIENT LTD.	06
35.	FACE INDIA PVT LTD.	06
36.	NEBULA	06
37.	TECH MAHINDRA	01
38.	ICICI	55
39.	AXNESS TECHNOLOGIES	01
40.	A&E SOLUTIONS PVT LTD	02
41.	INTELEHEALTH	01
42.	HR IT SERVICES	02
43.	ERUDEX	03
44.	NASSCOM ARICENT	29
TOTAL		398

ECE DEPARTMENT STUDENTS PLACED

S. No.	Roll Number	Student Name	Branch
CMS IT SERVICES			
1 .	14E11A0466	Sanju Kumar	ECE
2 .	14E11A0423	B Bharath Goud	ECE
3 .	14E11A0440	N Raghavendra	ECE
COMPENTENT CAREER IMIGRATION			
1.	14E11A0411	K. Prasanna Kumari	ECE
2.	14E11A0456	Y. Sony Reddy	ECE
3.	14E11A0453	V. Divya	ECE
4.	14E11A0448	K. Shalini	ECE
5.	14E11A0404	CH. Alekya	ECE
6	14E11A0491	G Harshitha	ECE
7	13E11A0453	N Akshay	ECE
AMAZON			
1.	14E11A0440	N Raaghavendra Rajesh Kumar	ECE
2.	14E11A0456	Y. Soni Reddy	ECE
3.	14E11A04A0	M Sarada Sruthi	ECE
4.	14E11A0466	Sanju Kumar	ECE
5.	14E11A0491	G Harshitha	ECE
GENPACT			
1.	14E11A0423	B Bharath Goud	ECE
2.	14E11A0458	Ashritha Reddy K.	ECE
3.	14E11A0406	Gone Sri Sravani	ECE
4.	14E11A0415	M. Anusha	ECE
5.	14E11A04A5	R Rishitha	ECE
FACE INDIA PVT LTD			
1 .	14E11A0404	C. Alekhya	ECE

ICICI			
1 .	14E11A0466	Sanju Kumar	ECE
2. .	14E11A0498	K Sanjana	ECE
3 .	14E11A0454	Vinisha Joseph	ECE
4 .	14E11A0481	Raja V	ECE
5 .	14E11A0450	P.Naga Madhuri	ECE
6	14E11A0488	K.Mahesh Reddy	ECE
7. .	14E11A0472	K.Sai Ram	ECE
8.	14E11A0497	Swarna Reddy K	ECE
9. .	13E11A0453	N.Akshay	ECE
10.	15E11A0401	B.Bhuvneshwari	ECE
11 .	14E11A04A4	P.Anusha	ECE
12. .	14E11A04A3	P.Keerthi Priya K	ECE
13. .	14E11A0492	G.Navaneetha	ECE
14. .	14E11A0448	K Shalini	ECE
GOOGLE WALLET/ADWORDS			
1.	14E11A0491	G Harshitha	ECE
2.	14E11A0498	K Sanjana	ECE
3.	14E11A04A2	Pannala Shivani	ECE
Srilogilu			
1.	14E11A04A4	P Anusha	ECE
2.	14E11A04A3	P Keerthi Priya	ECE
3.	14E11A0493	P Sai Reshmika	ECE
Eureka Forbes			
1. .	14E11A04A3	P Keerthi Priya	ECE
Erudex			
1.	14E11A04A3	P Keerthi Priya	ECE
2.	14E11A04A4	P Anusha	ECE

Arck IT Seviles			
1.	14E11A04A3	P Keerthi Priya	ECE
2.	14E11A04A4	P Anusha	ECE
3.	14E11A0497	Swarna Reddy	ECE
Intelenet Global			
1.	14E11A04A3	P Keerthi Priya	ECE
2.	14E11A04A4	P Anusha	ECE
Nasscom Aricent			
1.	14E11A0497	Swarna Reddy K	ECE
2.	14E11A0460	Ch Sreeja Reddy	ECE
3.	14E11A0448	K Shalini	ECE
4.	14E11A0489	K sridhar Reddy	ECE
5.	14E11A0452	K.Divya	ECE
6.	14E11A0453	N.Akshay	ECE



S.No.	Roll No	Name	Branch	%of Marks	Rank
1	14E11A0489	Katamoulu Sridhar Reddy	ECE	75.12	I
2	14E11A0415	Mayreddy Anusha	ECE	74.51	II
3	14E11A0497	Kollu Swarna Reddy	ECE	72.36	III
4	14E11A0411	Karampudi Prasanna Kumari	ECE	71.87	IV
5	14E11A04A3	Prathipati Keerthi Priya	ECE	70.32	V

CAMPUS ACTIVITIES

ANNUAL DAY

15th annual day was celebrated in the Bharat Institute of Engineering and Technology campus on 31st March 2018.



BHARAT COLLEGE OF ENGINEERING NSS CAMP 2017.



ALUMNI MEET 2018



GRADUATION DAY CELEBRATION 2017



PROJECT DAY CELEBRATION 2017

Project day 2017 held on 12-4-2017. From ECE Department, some of the B.Tech Final Year projects were selected for prize distribution.

Roll No.	Name of the Student	Industry / In-house	Guide	Title	Source	Prize Money
13E11A04A3	Bhavani Ch	Inhouse	Dr. Naveen Rathee Associate Professor	Automatic vehicle overspeed controlling system based zones with location indication using arm	BIET	Rs 15000/-
13E11A04B1	LAKSHMI M					
14E15A0401	PRASANNA					
14E15A0402	SOUNDARYA					
13E11A0472	NAVYA K	Inhouse	Mr. Mohan Babu Assistant Professor	E-Plotted Plant Protector	BIET	Rs 10000/-
13E11A0492	SURESH .K					
13E11A0454	ANOOSH KUMAR .S					
13E11A0414	B KRISHNA PRASAD	Industry (DLRL)	Dr. Sri Hari Rao Professor	Amplitude Tapering Of Antenna Arrays	DLRL	Rs 7000/-
13E11A0401	ADITYA GANTI					
13E11A0431	UDUTHALA SHIVA					