BVRIT HYDERABAD College of Engineering for Women
(Autonomous)

VISHNU UNIVERSAL LEARNING
BVRIT H Estd. 2012

Department of Electronics and Communication Engineering

About the Department

The Department of ECE was established in the year 2012 with an intake of 60, and could procure extension of intake to 120 from the academic year 2014-15. The department is supported by well experienced Faculty who are diversified in various domains like Communications, Signal Processing, VLSI and Embedded systems. Dr. Anwar Bhasha Pattan is heading the department since from 15th June 2020 and he has 15+ years of teaching experience and his area of interest is VLSI and Embedded Systems. Labs are well equipped and established not only to serve the purpose of the prescribed curriculum but also to take up innovative projects by the students to meet the societal needs. Students are greatly encouraged to participate in various Hackathons throughout the country. Department is accredited by NBA in 2018 for three years and reaccredited in 2022 for three more years college was accredited by NAAC with 'A' grade, ranked 201-250 in NIRF-2021 and Band Promising in ARIIA 2021.

Vision

TO EMERGE AS A CENTRE OF ACADEMIC AND RESEARCH EXCELLENCE IN ELECTRONICS AND COMMUNICATION ENGINEERING AND CREATE GLOBALLY COMPETENT WOMEN TECHNOCRATS WITH A HIGH DEGREE OF SOCIAL CONSCIOUSNESS IN A HOLISTIC LEARNING ENVIRONMENT.

To provide quality education to the students with emphasis on training related to latest technologies as per industrial needs.

MISSION

To impart research culture, professional ethics and moral values to the students by committed and competent faculty striving for excellence

To inculcate a perceptive alacrity in students to identify real life problems, formulate strategies and evolve into contextually effective solutions.

Program Specific Outcomes (PSOs)

The graduates of this program will be able to

PSO-1: Provide optimized solutions for digital, signal processing and communication systems.

PSO-2: Develop compact, energy efficient and low cost products to assist the differently abled people.

Program Educational Objectives (PEOs)

*After three to six years of graduation, the graduates of this programme will be able to*

PEO-1: Excel in contemporary problem solving in Electronics and Communication Engineering and the allied fields through the knowledge-based provided by the program.

PEO-2: Demonstrate their technical, communication and leadership skills in professional environment or as entrepreneurs with social responsibility.

PEO-3: Analyse the latest issues and technology growth in the field of Electronics and Communication Engineering and update their knowledge and skills accordingly through continuous learning.

PEO-4: Demonstrate ethical and human values in multicultural and multidisciplinary environments.

COLLEGE ACHIEVEMENTS
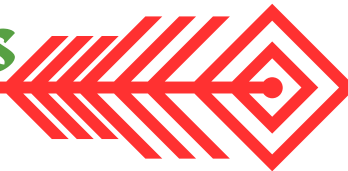
RECEIVED CERTIFICATION OF APPRECIATION FROM ITC LIMITED – PAPER BOARDS AND SPECIALITY PAPERS DIVISION FOR AY: 2024-25 FOR PROVIDING E-WASTE

ALUMNI MEET BVRITH – MILAN 2K24 WAS CONDUCTED ON 3RD FEB 2024

BVRIT HYDERABAD COLLEGE OF ENGINEERING FOR WOMEN RECEIVED BEST AI LAB FACILITY AWARD BY AIMERS ON 2ND MARCH 2024

RECEIVED SILVER CERTIFICATE OF APPRECIATION FROM ENERGY SWARAJ FOUNDATION FOR MAKING THE INSTITUTION'S 500+ PEOPLE ENERGY LITERATE

BVRIT HYDERABAD RANKED
- 140 IN INDIA TODAY BEST COLLEGES OF INDIA
- 163 IN THE WEEK HANSA RESEARCH

>>> FACULTY ACHIEVEMENTS

Dr. J Naga Vishnu Vardhan received Innovative Teaching Excellence Award from AIMERS Society.

Dr. Anwar Bhasha Pattan scored best in NPTEL courses and for his remarkable achievement he received NPTEL Discipline Star award.

Dr. M. Parvathi and Dr.V. Santhosh Kumar received Outstanding Researcher Award as part of Research Awards 2023.

FACULTY CARNIVAL PARICIPATIONS <<<

Dr. M Parvathi with her graceful and energetic classical dance captivated the audience and added a touch of elegance to the Faculty carnival event.

Mr. E. Ratna Babu (Technician) with his hilarious stand-up comedy act kept the audience entertained and added a dose of laughter to the Faculty carnival event.

EVENTS CONDUCTED

HACK2EMPOWER   MARCH. 22, 2024

Hack2Empower provided a platform for students to showcase their creativity, problem-solving skills, and technical expertise in addressing assistive technology.
It is to create Innovative Solutions to Empower People having cognitive, hearing, visual, mobility, and speech disabilities.

AN EVENT AT MEDHANVESH-2024 & UNDER IETE

Co-ordinators:
Dr. Vishwanadham Ravuri
Mr. R. Priyakanth
Mr. N.M. Sai Krishna

EVENTS CONDUCTED

TRONICS TRIVIA   MARCH. 22, 2024

Tronics Trivia event is a part of Medhanvesh-2024 and aims to create interest in knowing electronics background, components, and inventors through question rounds, puzzle rounds and quiz rounds. The event participants are in groups of 3 maximum, with 20 allowable groups. The first round will be the Pickup-Tickup round in which participants are asked to pick a group of components and should identify each component name in the given time. The maximum scorer batches will go to round 2. It is a combo quiz consisting of three levels. The best scorers will go to the third round, which is e-Maze-Hunt includes a crossword puzzle. The final two teams will be shortlisted for winning.

**QUIZ COMBO
UNDER ISTE**

Co-ordinators:
Dr. M. Parvathi
Ms. T. Amy Prasanna

EVENTS CONDUCTED

**MAT THON**   **MARCH. 23, 2024**

THE MATLAB HACKATHON WAS ORGANIZED AS A PART OF THE COLLEGE FEST MEDHANVESH 2024 ON 23-03-2024 BY THE DEPARTMENT OF ECE. THE COMPETITION AIMED TO TEST THE PROBLEM-SOLVING SKILLS OF THE PARTICIPANTS USING MATLAB PROGRAMMING LANGUAGE. THE EVENT WAS OPEN TO ALL THE STUDENTS OF THE COLLEGE WHO HAD A BASIC KNOWLEDGE OF MATLAB PROGRAMMING. A TOTAL OF 50 STUDENTS REGISTERED FOR THE COMPETITION. THE COMPETITION WAS HELD IN THE COMPUTER LAB OF THE DEPARTMENT, WHERE THE PARTICIPANTS WERE PROVIDED WITH INDIVIDUAL COMPUTER SYSTEMS AND MATLAB SOFTWARE.
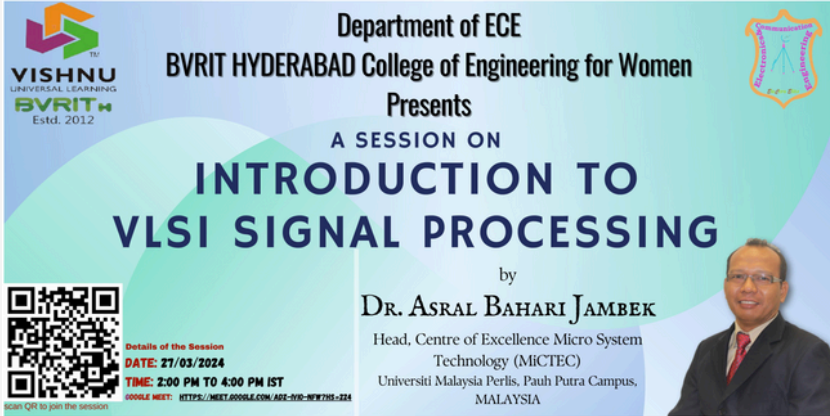
**MAT THON
UNDER ISTE**

Co-ordinators:
Dr. V. Santhosh Kumar
Dr. V. Hindumathi
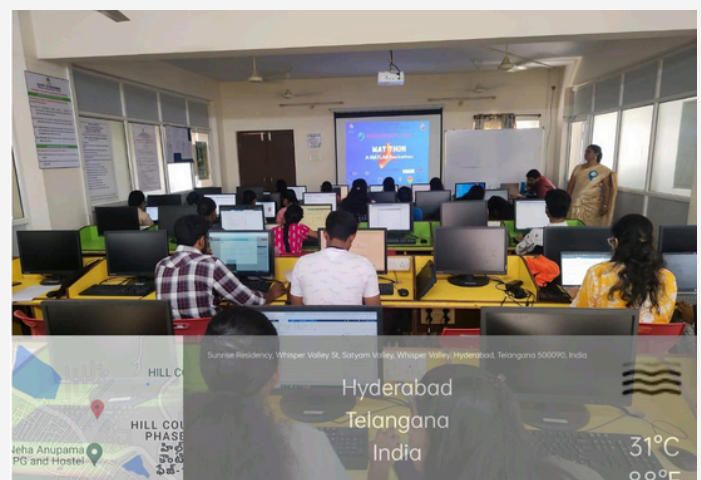
EVENTS CONDUCTED

INTRODUCTION TO VLSI SIGNAL PROCESSING
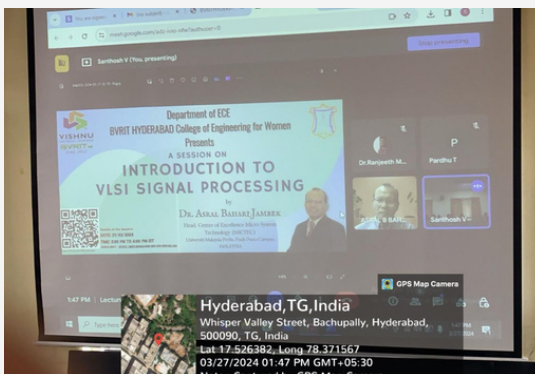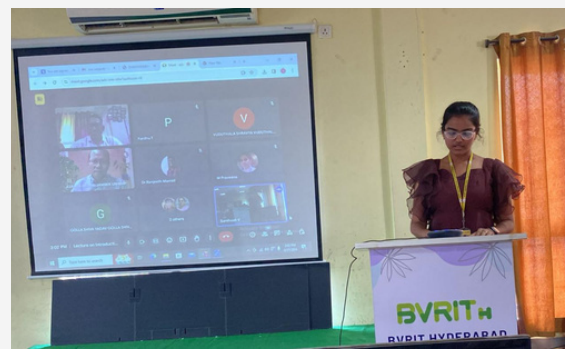
MARCH. 27, 2024

A GUEST LECTURE BY
DR. ASRAL BAHARI JAMBEK

Associate Professor, SMIEEE, Head, Centre of Excellence Micro System Technology (MiCTEC)

Co-ordinators:
Dr. B. Nagesh
Dr. V. Santhosh Kumar
Dr. M. Ranjeeth

This guest lecture was planned as part of the events under IETE and in association with University Malaysia Perlis, MALAYSIA. The session aimed to provide participants with a foundational understanding of VLSI (Very Large Scale Integration) signal processing, exploring its fundamental concepts, applications of VLSI signal processing, and relevance in modern technology and future trends.

EVENTS CONDUCTED

INTRODUCTION TO
AUTONOMOUS DRONES

APRIL. 22-24, 2024

Co-ordinator:
Dr J Naga Vishnu Vardhan

A WORKSHOP UNDER IIC, IN ASSOCIATION WITH TIHAN-IITH

In this three day workshop the resource persons provided the learning experience for the students on Introduction to Drones – Parts of a Drone, Aerodynamics, Flight Dynamics, Vibration and Noise, Multicopter UAV, Applications, Use of AI&ML on day one. During day 2 the students experienced Design Calculations, Introduction to Mission Planner, Assembling of Drones. Day 3 continued with Assembling of Drones and Piloting.

EVENTS CONDUCTED

SANKRANTHI SAMBARALU   JANUARY. 11-12, 2024

SANKRANTHI SAMBARALU

Convenor:
Dr. Anwar Bhasha Pattan

Co-ordinators:
Ms. R. Sahithi - ECE
Ms. P. Anusha - AIML
Ms. Babitha - EEE
Ms. T. Amy Prasanna - ECE
Ms. M. Prasudha - CSE
Ms. R. Sravani - IT

BVRITH hosted Sankranthi Sambaralu on the occasion of the Sankranthi festival. As part of this, faculty coorinators from all the departments initiated various events such as 3D model making, Kite decoration, Mehindi competition, Nail art competition and Rangoli competition. Students took part of all the events and made the festival remarkable and memorable.

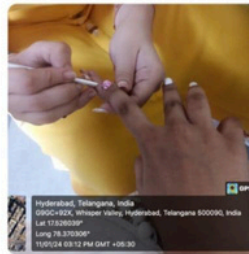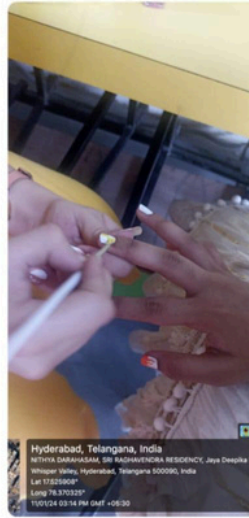# EVENTS CONDUCTED

Sankranthi Sambaralu

EVENTS CONDUCTED

Sankranthi Sambaralu

EVENTS CONDUCTED

Sankranthi Sambaralu

>>> STUDENT ACHIEVEMENTS

CONGRATULATIONS

TO

GATE-2024
QUALIFIED STUDENTS

NAME: M DEVI SUMA SRI
ROLL NUMBER: 20WH1A0441
GATE SCORE: 330
ALL INDIA RANK: 10399

NAME: J PAVANI
ROLL NUMBER: 21WH1A0426
GATE SCORE: 290
ALL INDIA RANK: 15076

NAME: P SIRI
ROLL NUMBER: 21WH1A0459
GATE SCORE: 226
ALL INDIA RANK: 25991

⟫ STUDENT ACHIEVEMENTS

⟫ Ms. P. Indu (21WH1A0424) participated in MSME Idea Hackathon3.0 organized by Ministry of Micro, Small and Medium Enterprises, Govt. of India and got ₹ 15 Lakh funding for the presented idea on 29th February 2024.

⟫ Ms. G. Jeevana Sri (21WH5A0404) and Ms. S. Sreeja (21WH5A0405) participated in Hack2Empower Hackathon conducted on 22nd & 23rd March 2024, organized by BVRITH as part of Medhanvesh-2024 and got 2nd prize.

⟫ Ms. K. Lakshmi Durga (22WH1A0439) and Ms. Ch. Nandini (22WH1A0413) participated in Innovation fair as part of TechWeek-2024 conducted on 26th 29th March-2024 and got 3rd prize.

⟫Ms. J. Hemasree (20WH1A0405) participated in Social Innovation Hackathon organized by Telangana State Innovation Cell (TSIC) in T-Innovation and got 1st Prize for the presented idea on 30th April 2024.

INDUSTRIAL VISIT

CENSE LAB
IISC BANGALORE

As part of Semiconductor packaging workshop from 5th to 7th January 2024, we have visited CeNSE Lab in IISc Bangalore on 5th January 2024. We have visited and observed the various steps involved in Semiconductor packaging process like – Packaging and Characterization.

INDUSTRIAL VISIT

NRSC HYDERABAD

The faculty along with III B.Tech. ECE students visited NRSC outreach facility on 06-02-2024 FN. There was a session on Indian Space Programme followed by the lab visit and the museum visit in which there are several exhibits such as space suit, different types of launch vehicles, and satellites. Students have seen the real time tracking of the satellite in the laboratory.

INDUSTRIAL VISIT

BSNL - RTTC HYDERABAD

The faculty along with II B.Tech. ECE students visited BSNL-RTTC outreach facility on 27-03-2024 FN. In the Switching and Telecom lab, students gained the knowledge on Digital Switching, NGN (Next generation Network), VOIP, IMS, SIGTRAN technologies, Power plant, VRLA, Battery, DG set and Earthing and Telecom Infrastructure. During the computer networks lab visit, the resource person explained about Routers, switches, Firewalls, Bridges, Routing, Multiplexing, Virtual distribution of carrier signals, and QoS, Traffic Engineering and the upcoming advanced communication network technologies. We visited the other labs where there are several exhibits such as earlier telephone devices, different types of cables used for networking, and antennas used for base station.

INDUSTRIAL VISIT

VSEC NARSAPUR

The visit to Vishnu Space Engineering Center (VSEC) started with theoretical explanation on the facilities and technical aspects by Dr. Sanjeev Reddy, HoD-ECE, BVRIT Narsapur followed by Visit to Vishnu Space Engineering Centre where students are briefed about the equipment available by Dr. Jayshree Das, ECE and students also experienced tracking of satellite and observed the reception of data packets. Students were taken to anechoic chamber and explained the importance of chamber design and type of material used along with the testing mechanism of antenna and parameters to be measured.
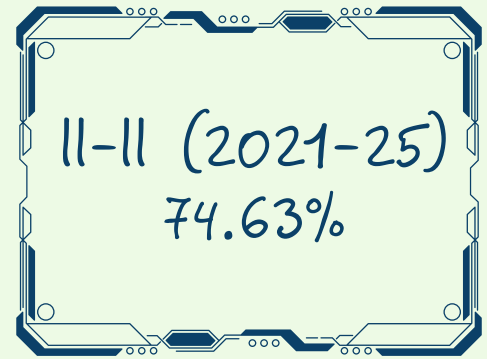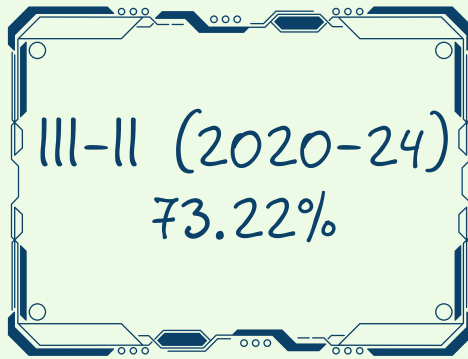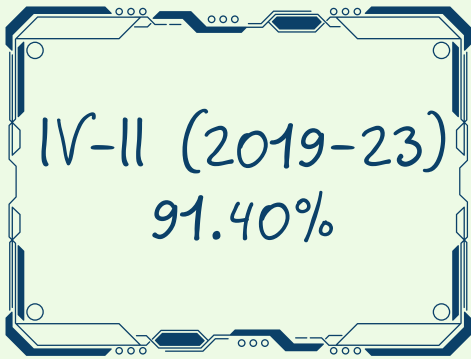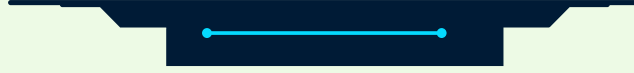
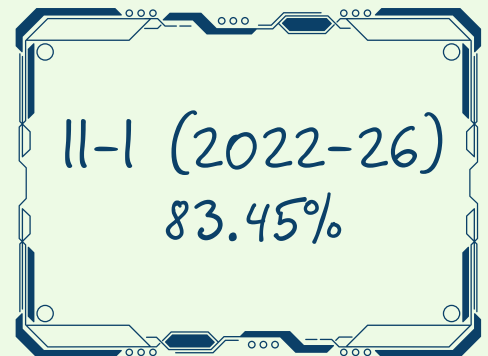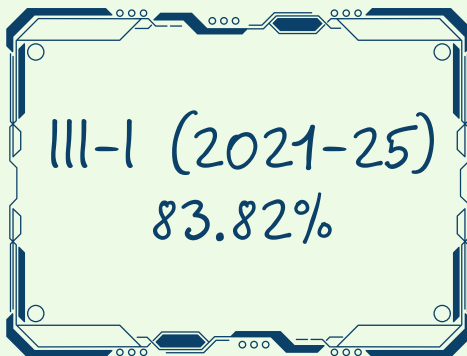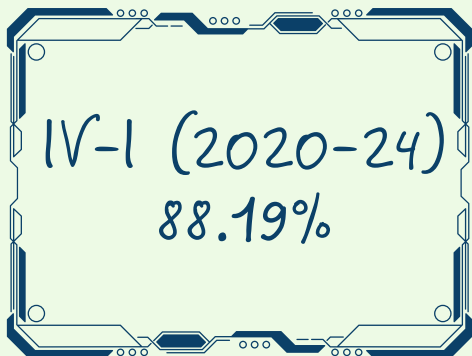## SPACE ELECTRONICS WORKSHOP & INDUSTRIAL VISIT

ISRO & VEDIC BANGALORE

On 7th June 2024, a group of 30 students accompanied by 3 faculty members had the privilege of visiting the Laboratory of Electro Optical Systems at ISRO Bangalore. The visit provided an invaluable opportunity to gain insights into various facets of electro-optical systems and their applications in space technology. On 8th June 2024, KR Aerospace Systems Private Limited successfully organized a Space Electronics Workshop at VEDIC Bangalore. The workshop aimed to provide students with insights into various aspects of space electronics and their applications in satellite technology and control systems.
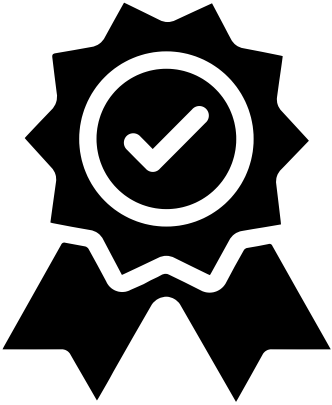
>>> RESULT ANALYSIS (A.Y.2022-23) <<<

IV-II (2019-23)
91.40%

III-II (2020-24)
73.22%

II-II (2021-25)
74.63%

>>> RESULT ANALYSIS (A.Y.2023-24) <<<

IV-I (2020-24)
88.19%

III-I (2021-25)
83.82%

II-I (2022-26)
83.45%

YEAR WISE TOPPERS

IV YEAR – II SEM (2019-23)

Roll Number	Name	CGPA	Rank
19WH1A0470	K Akanksha	9.25	1
19WH1A0460	B Pravali,	8.88	2
19WH1A0488	K Sritulasi	8.88	2
19WH1A0497	K Buvika	8.88	2
19WH1A04B0	M Yamini	8.88	2
19WH1A04B9	Ch. Sai Sri Ramethi	8.88	2

III YEAR – II SEM (2020-24)

Roll Number	Name	CGPA	Rank
20WH1A0440	CH Abitha	8.36	1
20WH1A0474	B Sneha	8.36	1
20WH1A0455	G Chandini	8.32	3
20WH1A0428	N Manisha	8.18	4
20WH1A0441	M Devi Sumasri	8.18	4

II YEAR – II SEM (2021-25)

Roll Number	Name	CGPA	Rank
21WH1A04C5	G Vennela	8.31	1
22WH5A0410	P Swetha	8.26	2
22WH5A0408	S Anmisha Nethra	8.24	3
21WH1A0472	B Sathwika	8.14	4
21WH1A0471	CH Sharmada	8.00	5
21WH1A0401	M Jagruthi	8.00	5

YEAR WISE TOPPERS

IV YEAR – I SEM (2020-24)
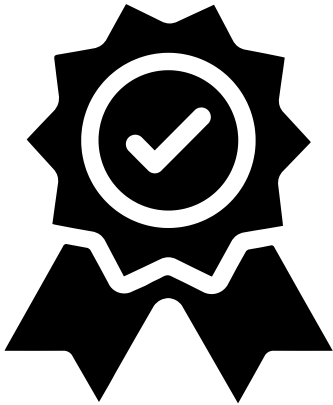
Roll Number	Name	CGPA	Rank
20WH1A0441	M Devi Sumasri	9.05	1
21WH5A0408	M Gayathri	8.90	2
21WH5A0403	K Sritulasi	8.86	3
21WH5A0409	K Buvika	8.86	3
20WH1A0444	G Preethika	8.81	5
20WH1A0474	B Sneha	8.81	5

III YEAR – I SEM (2021-25)

Roll Number	Name	CGPA	Rank
21WH1A0469	S Joshitha	8.32	1
21WH1A0481	K Rishitha	8.30	2
21WH1A0441	B Madhavi	8.27	3
21WH1A0425	S Pradeepthi	8.23	4
21WH1A0465	P Varshitha	8.18	5

II YEAR – I SEM (2022-26)

Roll Number	Name	CGPA	Rank
22WH1A0401	M Sai Vidhitha	9.15	1
22WH1A0477	M Sravani	8.65	2
22WH1A04A4	G Shireesha	8.60	3
22WH1A04B6	T Manyasri	8.60	3
22WH1A0413	CH Nandini	8.45	5

PREPARED AND EDITED BY