

NEWSLETTER ŚRUTI

Volume.12, Issue.1,
January-2025



**BVRIT HYDERABAD College of Engineering
for Women
(Autonomous)**

**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. Nagesh Deevi is heading the department since 18th June 2024 and he has 8 years of teaching experience and his area of interest is RF-VLSI. The labs are well equipped and established which not only to serve the purpose of the prescribed curriculum but also to take up innovative projects led by the students to meet the societal needs. Students are greatly encouraged to participate in various Hackathons throughout the country. The department is accredited by NBA in 2018 for three years and reaccredited in 2022 for three more years, the college was accredited by NAAC with 'A' grade, ranked 201-250 in NIRF-2021 and Band Promising in ARIIA 2021.





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.

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.

MISSION



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



2 NEW PG PROGRAMS WERE INITIATED FOR AY: 2024-25 – M.TECH (VLSI DESIGN) AND M.TECH (CSE) WITH AN INTAKE OF 12

DR VASU BABU FROM ECE RECOGNIZED AS WORLD TOP 2% SCIENTISTS RELEASED BY STANFORD UNIVERSITY

BVRIT HYDERABAD COLLEGE OF ENGINEERING FOR WOMEN BECAME AN INSTITUTIONAL MEMBER OF EDUSKILLS FOUNDATION FOR A PERIOD OF 3 YEARS WITH MEMBERSHIP NUMBER – 05200624093960927

ALUMNI MEETS WERE CONDUCTED AT US – NEWARK, CA (9TH NOV 2024), SCHAUMBURG, ILLINOIS (16TH NOV 2024), JOHNS CREEK, GEORGIA (17TH NOV 2024)

ROTARACT CLUB OF BVRIT HYDERABAD RECEIVED BEST CLUB (INSTITUTE BASED), BEST MEMBERSHIP DEVELOPMENT CLUB, BEST PROJECT IN CLUB ADMINISTRATION –PEDAL & PAUSE ON 18TH NOV 2024

COLLEGE, DEPARTMENTS OF ECE AND EEE RECEIVED ACADEMIC CREDENTIALING AWARD FROM MATHWORKS ON 29TH NOVEMBER 2024.

BVRIT HYDERABAD COLLEGE OF ENGINEERING FOR WOMEN RECEIVED COMMENDABLE PERFORMANCE AWARD AT IEI ENGINEERING EDUCATION EXCELLENCE AWARD 2024 CONDUCTED ON 19TH DEC 2024

>>> FACULTY ACHIEVEMENTS



Dr. J Naga Vishnu Vardhan received Elite Silver and stood as Top 5% from NPTEL for the course Simulation of Communication Systems using MATLAB during Jul-Oct 2024.

Dr. Anwar Bhasha Pattan scored best in NPTEL courses and for his remarkable achievement he received NPTEL Discipline Star and NPTEL Believer awards. He is a topper in the courses "Accreditation and Outcome Based Learning" and "Designing Learner-Centric E-Learning in STEM Disciplines" during Jul-Oct 2024. He is also recognized as mentor for an NPTEL course "Digital Design through Verilog HDL".



Dr. M. Parvathi produced a doctorate under her guidance from Lovely Professional University. Dr. M. Venkatesham worked with her and his research focused on "Testing and Fault Analysis of Embedded SRAM in Low Power Technologies Using Parasitic R and C Extraction Method".

Mr. M. Venkatesham received a doctoral degree in the discipline of ECE, Lovely Professional University. He published his research in various journals and He successfully completed his Viva-Voce on December 2, 2024.



Mr. R. Priyakanth and Mr. N. M. Sai Krishna, received Certificate of Championship in the IIT Bombay FOSSEE Geospatial Mapathon 2024 (Edition IV), an initiative of the FOSSEE Project, IIT Bombay under the aegis of the National Mission on Education through ICT (NMEICT), in association with IIT Tirupati Navavishkar I-Hub Foundation (NM-ICPS, Centre), DST International for Free and Open Source Software (ICFOSS), and the Rural Data Research and Analysis Lab, IIT Bombay.



They also received Certificate of Appreciation in recognition as one of the Top 5 submissions for the Network 18 track at the Gen AI Exchange Hackathon, Supported by Meity Startup Hub and Startup India on 12th October 2024.

EVENTS CONDUCTED

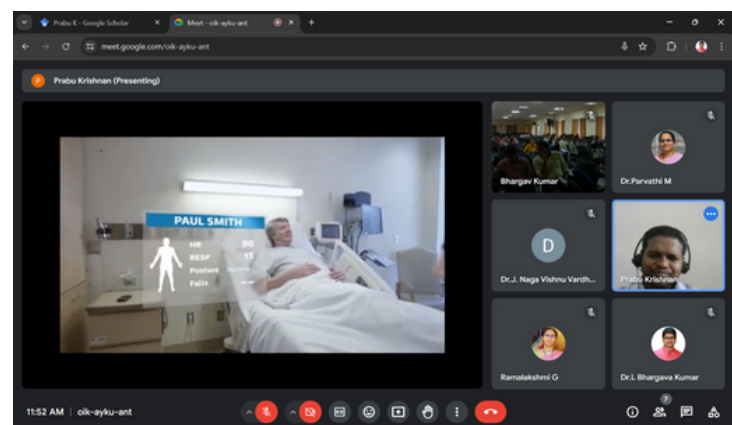
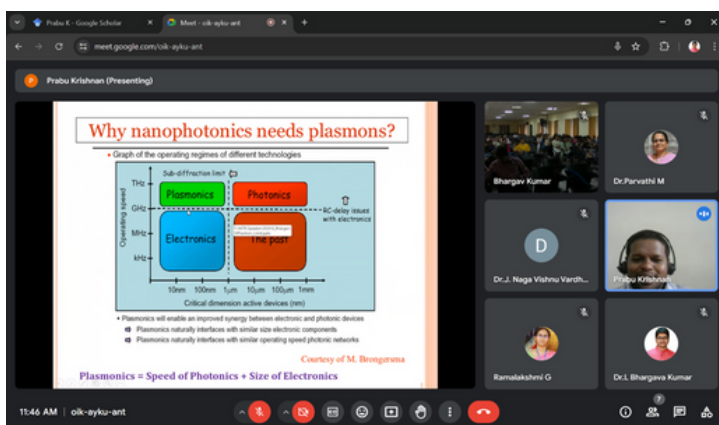
GUEST LECTURE

JUNE.11, 2024

Dr. Prabu K, Associate Professor at NITK Surathkal, delivered a seminar on antenna technologies. He traced the evolution of antennas from 1830 to present, linking designs to natural and human structures. He highlighted career opportunities in public and private sectors for students with antenna knowledge. Key topics included antenna size-frequency relationships, current and future technologies (5G, 6G, IoT), nano/optical antennas, smart antennas, metamaterials, and plasmonic antennas. His talk emphasized the growing role of antennas in advanced communication systems and daily life.



Coordinator:
Dr. L.Bhargava Kumar



EVENTS CONDUCTED

MATLAB Student Chapter Inauguration

Department of ECE, BVRITH in association with MATHWORKS India have started the MATLAB student chapter for the first time in Telangana State. As part of this event, students demonstrated their projects did using MATLAB in various domains such as Image processing, Communications systems, App Designing, Electric vehicles.

JULY. 26, 2024

Coordinators:

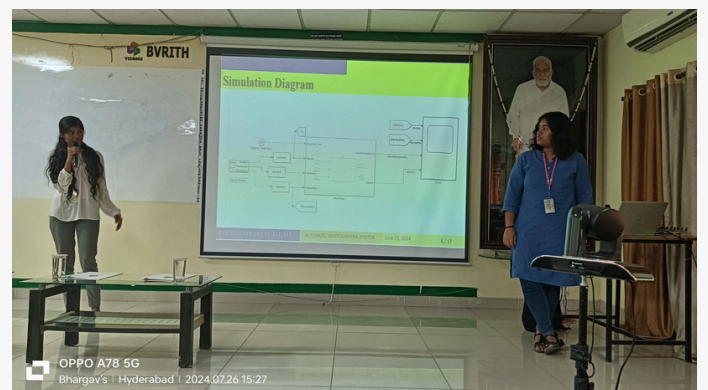
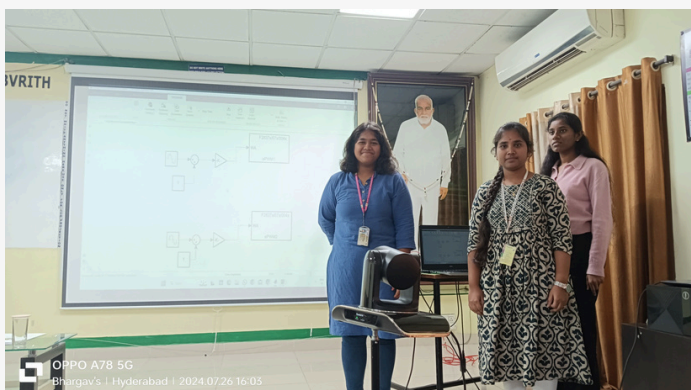
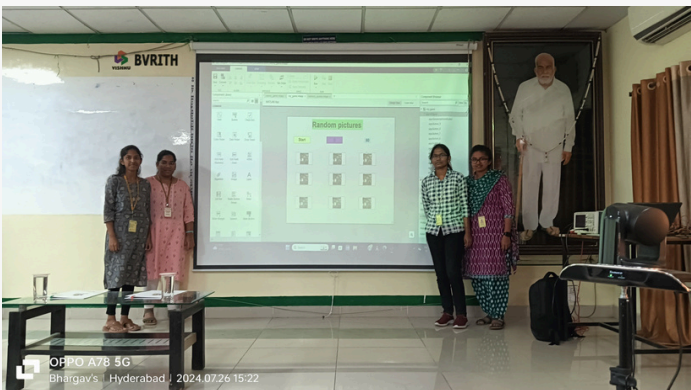
Dr. V. Santhosh Kumar
Dr. V. Hindumathi
Dr. M. Ranjeeth
Dr. L. Bhargava Kumar



EVENTS CONDUCTED

MATLAB Project Presentation

The students of ECE demonstrated their MATLAB projects during the inauguration of the MATLAB student chapter. The students received appreciations from the MATHWORKS Team for their efforts in completing the projects in various domains. The student projects include Modulation Schemes & Image Operations using App Designer, BER Analysis for various Fading Channels, Water Level Controller, Plotting Live data using Arduino, Facial recognition Attendance system, and Game designing.



EVENTS CONDUCTED

Institute Level Internal Hackathon Evaluations - SIH 2024

September, 5th & 6th 2024

BVRIT HYDERABAD College of Engineering for Women, Hyderabad, Telangana has organized the Internal Hackathon as a part of internal evaluation of teams for Smart India Hackathon 2024 from 5th – 6th September 2024. A total of 750 students as 125 teams from the departments of EEE, ECE, CSE, CSE(AIML) and IT have participated in this internal hackathon.

SIH SPOC:

Mr. R. Priyakanth

Coordinators:

Mr. N. M. Sai Krishna

Dr. R. Viswandham

JURY MEMBERS



Mr. B. Manoj Kumar

Startup Mentor and Product Development Mentor ATAL Incubation Center, Banasthali Vidyapith, Rajasthan, India.



Ms. Y. Grahya

CEO, INVIU SYSTEMS LLP



Dr. Anwar Bhasha Pattan

Professor, Incharge - Entrepreneurship Development Cell BVRITH



Dr. S. Kalyan

Assistant Professor of Management Studies, Member IIC, NISP Coordinator, BVRITH



EVENTS CONDUCTED

CIRCUIT MASTERS

SEPTEMBER.18, 2024

Coordinators:
Ms.M.Praveena
Ms.R.Sahithi

The “Circuit Masters” was a two-round team competition testing knowledge and skills in electronics and circuit design. Round-I featured a timed quiz on basic components and circuits, shortlisting 10 teams. In Round-II, participants designed, built, and tested functional circuits based on given problem statements. Judging was based on creativity, functionality, and problem-solving skills.

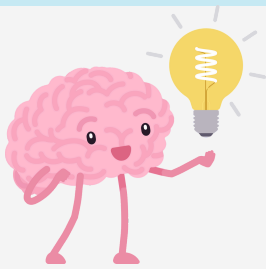


EVENTS CONDUCTED

IDEA POP

SEPTEMBER.18, 2024

This event encouraged young minds to generate innovative ideas based on various problem statements. Each team was assigned a theme, selected through a chit-picking process, and given five minutes to present their ideas. Teams were asked to represent their concepts on paper within a maximum duration of 30 minutes. After submission, the teams were invited to present their ideas to the judges. Evaluation was based on presentation style, feasibility, originality, and team collaboration, with a total score out of 25 marks.



IDEA POP UNDER ELECTRO ELITZ

Coordinators:
Dr.M.Parvathi
Dr.R.Vishwanatham



EVENTS CONDUCTED

PRASHNOTHARI-XI

SEPTEMBER.18, 2024

The Department of Electronics and Communication Engineering has successfully conducted a Technical quiz for Students on the occasion of Engineers Day. A total of 23 teams with 69 students from various departments have registered for this event.

The quiz was designed with 15 questions in Screening test which are collected from core subjects and verbal. And a time limit of 20 minutes has been set for the quiz. Based on the performance, 5 Teams are selected for further rounds. All the 5 teams participated in five rounds. First Round is Basic Engineering, Second Round is Analytical, third round is Brain Storm, fourth round is Technical round and fifth round is rapid fire. Finally, Team-3 are winners with 130 marks and Team-1 are runners with 125 marks in the Prashnothari-XI.

PRASHNOTHARI-XI UNDER ISTE

Coordinators:
Dr.V.Hindumathi
Ms.G.Rama Lakshmi



Team-18 (1) - A (125)	Team-13 (2) - B (95)	Team-21 (3) - C (130)	Team-23 (4) - D (110)	Team-9 (5) - E (120)
Round-1: 0+ 20+10+ (20)	10+10 (20)	0+10+5+10+ (25)	5+10+ (15)	10+10+5 (25)
Round-2: 10+10 10 (30)	10+10 (20)	10+10+10+10 (40)	10+10+10 (30)	10+10 (20)
Round-3: 10 (10)	10+10 (20)	10+10+10 (30)	10+10+20 (40)	10+10 (20)
Round-4: 10+10+ 5+10 (35)	10+5+10+10 (35)	5+10+10+ (25)	5+5+10+10 (30)	10+5+10+10 (35)
Round-5: (30)		10 (10)	10 (10)	20 (20)

EVENTS CONDUCTED

PIVOT

SEPTEMBER. 30, 2024 & OCTOBER. 1, 2024

The event featured sessions by Dr. M.K. Kaushik and Er. K. Ashwin on innovation and problem-solving. 150 B.Tech students from II and III years formed 30 teams and presented solutions using STEP, AEIOU, and SCAMPER methods. After four rounds, the top three teams were selected for prototype development and presentation to SVES management.

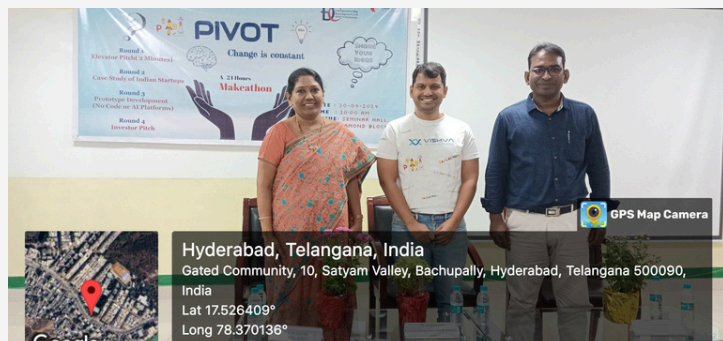
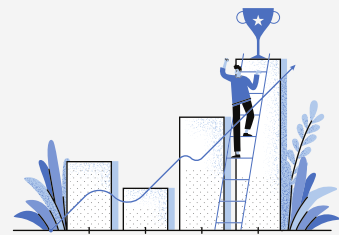
Convener:

Dr. Anwar Bhasha Pattan

Coordinators:

Dr. L. Bhargava Kumar

Dr. R. Viswanadham



Hyderabad, Telangana, India

Gated Community, 10, Satyam Valley, Bachupally, Hyderabad, Telangana 500090,

India

Lat 17.526409°

Long 78.370136°





EVENTS CONDUCTED

SPACE WEEK CELEBRATIONS

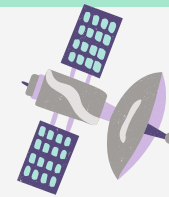
OCTOBER.3, 2024

The Space Week Celebrations were a resounding success, providing students with an opportunity to showcase their creativity, teamwork, and knowledge in space technology. The event encouraged innovation and inspired students to explore the endless possibilities of space science. As part of the space week celebrations, more than 100 students participated in three events conducted namely, Techno crossword, Poster and Model making and they have created beautiful models.

Coordinators:

Dr. J. Naga Vishnu Vardhan

Dr. V. Santosh Kumar





EVENTS CONDUCTED

SPACE WEEK CELEBRATIONS

OCTOBER.3, 2024



EVENTS CONDUCTED

MSME IDEA Hackathon 4.0

OCTOBER. 16, 2024

Evaluators:

Dr. M. Kaushik, Director, Entrepreneurship, SVEC, Hyderabad.

Mr. Alok Govil, CEO, J-TBI, JNTUH.

Mr. Ganesh Chappi, T- Works, Hyderabad.

Mr. Bharadwaj A, CEO ,AB TechVILLE -LLP, Hyderabad.

Mr. Manish Gunasekaran, T- Works, Hyderabad.

Coordinators:

Dr. Anwar Bhasha Pattan

Dr. R. Viswanadham

The program started by inviting the guests by Dr. Anwar Basha Pattan, Professor I/C Entrepreneurship & Professor, Dept. of ECE & Business Incubation Incharge, BVRITH. The welcome address was given by him and he has explained the process of evaluation to all the students. There were 59 students Ideas that was received among all the branches of Engineering. Dr.M. Kaushik, Director, Entrepreneurship, Sri Vishnu Educational Society, Hyderabad BVRITH emphasized the need and importance of innovation and entrepreneurship in today's digital context. He also made clear to students about the MSME schemes offered by MSME for their ideas and funding given by MSME. Among 59 Ideas 15 Ideas were selected from this internal MSME Idea Hackathon to the next level and was uploaded in the MSME Portal for further evaluation by the Ministry of MSME.



Hyderabad, Telangana, India



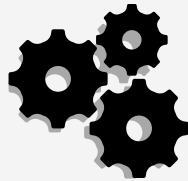
Hyderabad, Telangana, India

EVENTS CONDUCTED

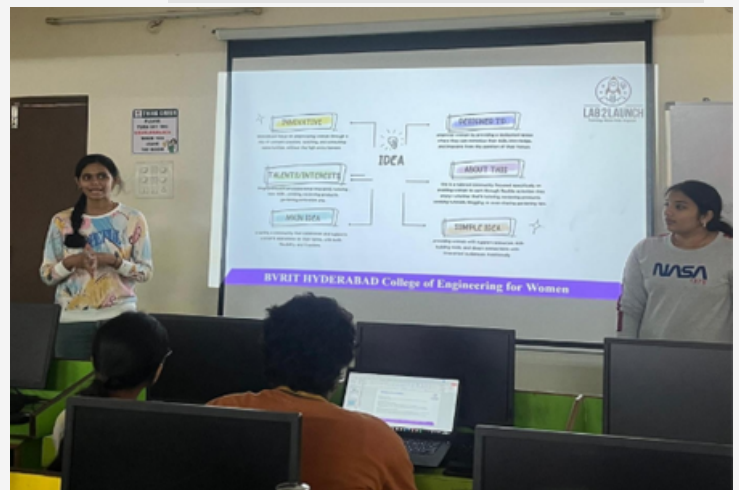
LAB2LAUNCH

OCTOBER 25 2024

Lab2Launch is designed to promote real-world application and innovative thinking by nurturing entrepreneurial skills among students. It provides a platform to refine ideas, explore venture pathways, and showcase projects while receiving feedback from industry experts and faculty—reflecting the college's commitment to fostering creativity, innovation, and an entrepreneurial mindset. Lab2Launch stands as a powerful platform for fostering a culture of creativity and entrepreneurship among students, equipping them with skills that will be essential for their future careers.



Coordinators:
Mr. R. Priyakanth
Mr. N. M. Sai Krishna
Dr. Viswanadham Ravuri



EVENTS CONDUCTED

GUEST LECTURE ON SATELLITE COMMUNICATIONS: ON-BOARD CODING SCHEMES AND ITS IMPACT ON RF LINK ANALYSIS

NOVEMBER. 2, 2024

In this guest lecture, the speaker has given insights on basic building blocks of satellite communication, satellite on-board and earth station details. This talk was emphasised on various coding schemes for link analysis and their impact. The speaker explained the concepts excellently along with detailed equations and practical applications. Around 108 students from II, III and IV year ECE and few faculty members from the ECE department attended this session.

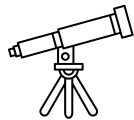
Coordinators:

Dr. Anwar Bhasha Pattan,
Dr. Nagesh Deevi.

RESOURCE PERSON:

MS. RADHA NAYANI,
ENGINEER – 'G', NRSC,
SHADNAGAR, TELANGANA

Organized under
IETE Student Forum



EVENTS CONDUCTED

MATHACK: A MATLAB HACKATHON

NOVEMBER. 29 & 30 2024

The Department of ECE, in collaboration with MathWorks India and IEEE ComSoc, Successfully organized MATHACK: A MATLAB Hackathon. The hackathon provided a platform for UG students to showcase their technical expertise, problem-solving abilities, and creativity through MATLAB and Simulink-based challenges. There were 162 participants in 46 teams and worked on 6 problem statements.

MATHACK IN COLLABORATION WITH MATHWORKS & IEEE COMSOC

Coordinators:

Dr.V.Santosh Kumar

Dr.R.Viswanatham



EVENTS CONDUCTED

INTERNATIONAL DAY OF PEOPLE WITH DISABILITIES

DECEMBER. 3, 2024

ATL - ECE

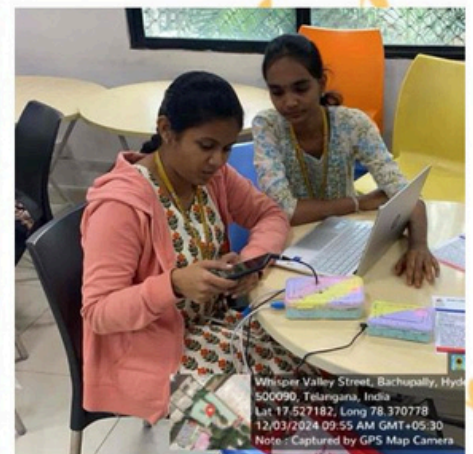
Coordinators:

Dr.R.Viswanatham

Mr. R. Priyakanth

Mr. N. M. Sai Krishna

Assistive Technology Lab of BVRITH celebrated the international day of people with disabilities by showcasing the real time engineering solutions for the differently abled people to do their regular activities and lead their life smoothly.



EVENTS CONDUCTED

GUEST LECTURE ON INTRODUCTION TO DRONE TECHNOLOGY AND OPPORTUNITIES IN DRONE SECTOR

DECEMBER. 18, 2024

Resource Persons:

Sri Colonel Nikhil Srivatsav,
Mr. Rama Krishna and
Mr. Sarthak Binford
Research Labs Pvt. Ltd

The resource persons delivered a talk on Introduction to Drone Technology – Purpose and Its need, Applications of Drones, Drones in Engineering and Technology. They also discussed about the Growing landscape of Drone Technology, Entrepreneur Opportunities in Drone Technology, Job Opportunities in Drone Sector.

Coordinators:

Dr. J. Naga Vishnu Vardhan,
Dr. V. Hindumathi.



EVENTS CONDUCTED



i4TS 2.0 Innovation for Telangana Students
సామాజిక అవిష్కరణలు సరళమైన జీవితానికి

The Telangana Academy for Skill and Knowledge (TASK), in collaboration with Head Held High Foundation, proudly presents i4TS 2.0, a transformative initiative aimed at fostering entrepreneurial thinking and innovation among students across Telangana.

This year's program centers on the theme "Entrepreneurship is All About Mindset", focusing on building the entrepreneurial spirit through a structured Innovation Entrepreneur Mindset Program (iEMP). The initiative offers 7 interactive sessions, each delving into essential entrepreneurial skills, supported by real-world thematic areas. We conducted these sessions in coordination with Mr. Anil working at TASK.

Session Highlights:

- Understand the primary attributes of an entrepreneurial mindset.
- Learn how to drive entrepreneurial motivation and generate innovative ideas.
- Dive into problem identification and solving techniques.
- Explore the significance of rural innovation, design thinking, and sustainable development.

ENTREPRENEURSHIP IS ALL ABOUT MINDSET

Coordinators:

Dr. Anwar Bhasha Pattan,

Dr. L. Bhargava Kumar.



INDUSTRIAL VISIT

INCOIS HYDERABAD

The faculty along with III B.Tech. ECE students visited Indian National Centre for Ocean Information Services (INCOIS) on 27-11-2024 & 20-12-2024. INCOIS (Indian National Centre for Ocean Information Services) is an autonomous organization under the Ministry of Earth Sciences, Government of India, located in Ocean Valley, Pragati Nagar, Hyderabad. It aims to provide oceanographic services, including ocean data, forecasting, and advisories, for the sustainable management of marine resources and disaster risk reduction.



>>> STUDENT ACHIEVEMENTS

>>> Ms. P. Pranitha (23WH1A0444) participated in Great AppSec Hackathon 2024, conducted on 17th & 18th August 2024, organized by Cybersecurity Centre of Excellence - A Joint initiative of DSCI & Government of Telangana and secured Certificate of Merit for Qualifying CTF round.

>>> A team of 4 students from II B.Tech, Ms. V Varshini (23WH1A0454), Ms. K.Vishalakshi (23WH1A0415), Ms. M.Vijaya (23WH1A0421), and Ms. C. Kavya (23WH1A0403) participated in Demux 2024 Hackathon conducted on 5th & 6th September 2024, organized by BVRIT, Narsapur and got 2nd prize with a cash prize of ₹ 5000/-.

>>> Ms. J. Hemasree (20WH1A0405) participated in 13th CSI- In-App International Student Project Awards conducted on 21st & 22nd September-2024 and reached up to final round.

>>> Ms. J. Hemasree (20WH1A0405) participated in GenAI Exchange Hackathon conducted on 12th October-2024 and was one of the top 5 teams in the Network 18 track.

>>> A team of 4 students from III B.Tech, Ms. K.Sanjana (22WH1A04C8), Ms. C.V.Suryaja (22WH1A04C5), Ms. M.Sai Rishitha (22WH1A04C7), and Ms. P.Sree Priya (22WH1A0470) participated in Festrnix 2024 Ideathon conducted on 20th & 21st November 2024, organized by Vardhaman Engineering College, Hyderabad and got 2nd prize.

>>> A team of 4 students from III B.Tech, Ms. G.Sanjana (22WH1A04A2), Ms. Saraqatoon (22WH1A04A5), Ms. K. Yaamini Padma Reddy (22WH1A04C2), and Ms. T. Naga Prajnya Varshini (22WH1A0495) participated in MATHACK 2024, A MATLAB Hackathon conducted on 29th & 30th November 2024, organized by BVRITH MATLAB Chapter, Hyderabad and got 2nd prize with a cash prize of ₹ 5000/-.

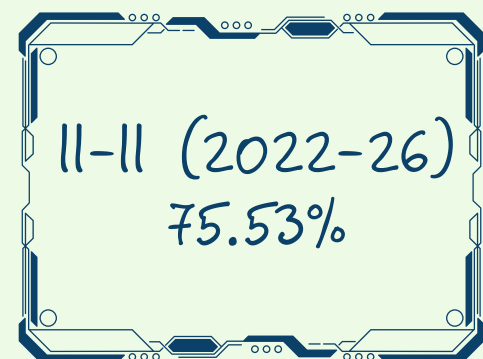
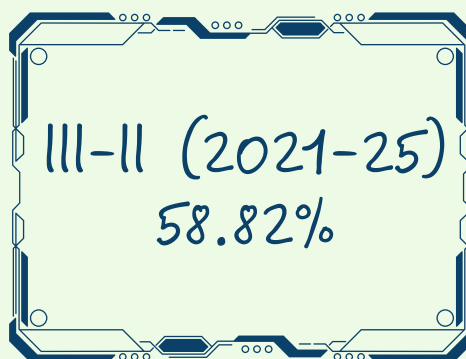
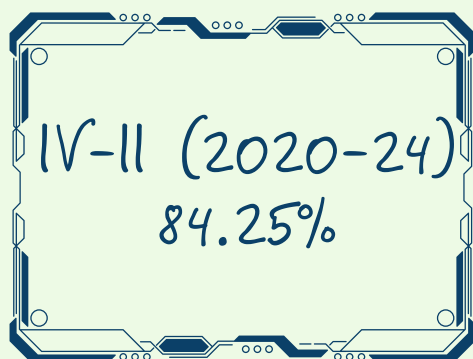


>>> STUDENT ACHIEVEMENTS

>>> Two students from III B.Tech, Ms. M. Nithya Sindhuri (22WH1A0445) and Ms. B. Deekshitha (22WH1A0445) participated in UDHBHAV 2024 A design competition, conducted on 5th to 7th December 2024, organized by St.Paul's College of Pharmacy and secured 3rd prize with a cash prize of ₹ 5000/-.

>>> A team of 4 students from III B.Tech, Ms. C Jyothirmayee (22WH1A04A0), Ms. M.Pranavi (22WH1A0479), Ms. T. Durga Devi (22WH1A04A8), and Ms. V.L. Rashmika (22WH1A0492) participated in L&T Techgium 2024 A design competition conducted on 27th December 2024, organized by Larsen & Toubro (L&T) and got Certificate of Recognition.

>>> RESULT ANALYSIS [A.Y.2023-24] <<<



PLACEMENT

Achievements Congratulations



N RAJESWARI
(21WH5A0403)

**SYNOPSYS
PACKAGE: 14 LPA**



CH. ABITHA
(20WH1A0440)

**SYNOPSYS
PACKAGE: 14 LPA**



Y. SUPRIYA
(20WH1A04A6)

**SYNOPSYS
PACKAGE: 14 LPA**



A. VEENA
MADHURI
(20WH1A0497)

**FLIPKART
PACKAGE: 10 LPA**

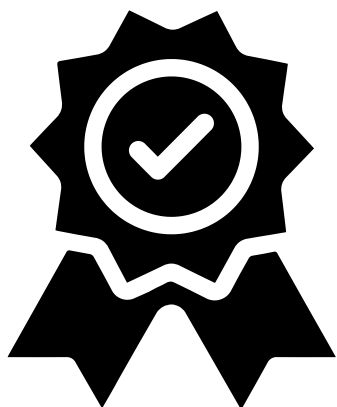


Y. VIJITHA
(20WH1A0483)

**AMADEUS
PACKAGE: 10 LPA**



YEAR WISE TOPPERS



IV YEAR – II SEM (2020-24)

Roll Number	Name	CGPA	Rank
20WH1A0440	P Lathasri	8.88	1
20WH1A0455	G Chandini	8.88	1
20WH1A0477	T Praveenya	8.88	1
20WH1A04A7	Sk Saniya Tabassum	8.88	1

III YEAR – II SEM (2021-25)

Roll Number	Name	CGPA	Rank
21WH1A04B9	D Harini	8.18	1
21WH1A0441	B Madhavi	8.05	2
22WH5A0410	P Swetha	7.95	3
21WH1A04C5	G Vennela	7.86	4
21WH1A0404	K Durga Sri Lakshmi	7.82	5



II YEAR – II SEM (2022-26)

Roll Number	Name	CGPA	Rank
22WH1A04B6	T Manya Sri	9.1	1
23WH5A0401	C Rithika	9.1	1
23WH5A0405	J Tejomaui	9.1	1
23WH5A0406	C Sarayu	9.1	1



ACKNOWLEDGMENTS TO ALL ECE DEPT. TEACHING AND NON-TEACHING STAFF

EDITORIAL TEAM



Dr.L.Bhargava Kumar,
Asst. Professor,
Dept. of ECE,
BVRITH.



I. Mounika
(23WH1A0492)



K. Sphoorti
(23WH1A0494)