

The Spintronics NEWS LETTER

J. B. Institute of Engineering & Technology

June 2023

Volume 1, Issue01



Chief Guest
Dr. T. Raghu
Scientist "H"
NNSG, DMRL, DRDO Fellow (Formerly
Outstanding Scientist "H" & Associate Director)
DMRL Hyderabad, Kanchan Bagh Hyderabad.

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HYDERABAD



SILVER JUBILEE CELEBRATIONS

**J.BHASKAR RAO MEMORIAL 1st INTERNATIONAL CONFERENCE
ON
ADVANCED APPLICATIONS OF TECHNOLOGY
AND MANAGEMENT
(AATM-2023)
10 - 11 March**



Keynote Speaker
Dr. Kamol Wasapinyokul
College of Advanced Manufacturing Innovation Kin
Mongkut's of Technology
Soi Chalongsakul Ladkrabang, Bangkok

DEPARTMENT OF CSE,IT,AIIML,AIDS,ECM,ECE,EEE,MECH,CIVIL,MBA,S&H.



Department of ECE

Vision:

To be a guiding force enabling multifarious applications in Electronics and Communications Engineering, promote innovative research in the latest technologies to meet societal needs.

Mission:

- To provide and strengthen core competencies among the students through expert training and industry interaction.
- To promote advanced designing and modeling skills to sustain technical development and lifelong learning.

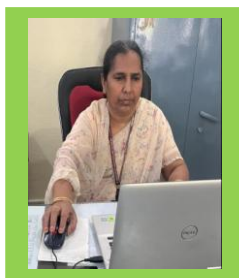
INSIDE HIGHLIGHTS:

HOD'S MESSAGE

EVENTS

STUDENTS ACHIEVEMENTS

ARTICLES




Dr. Towheed Sultana
HOD, ECE
Message from HOD


“I heartily Congratulate all the student, faculty and staff of ECE Department for successful activity and events, workshops etc in the department. I also congratulate IEEE Student Chapter for organizing workshop. And Especially the conducting of seminars is a great step for our Department”. I thank the publication team of Newsletter.

Events Conducted:

- Workshop on Design Thinking, Critical thinking and Innovation Design
- Guest Lecture about “Image Processing and its Application”
- Session on Problem Solving and Ideation Workshop
- Women’s Day Celebration
- J Bhaskar Rao Memorial 1st International Conference on Advanced Applications of Technology and Management (AATM) 2023
- Guest Lecture about “Wearable Bio-Sensors”
- Three Days Workshop on “Printed Circuit Board”

Workshop on Design Thinking & Critical Thinking & Innovation

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Bhaskar Nagar, Yenkapally Village, Moinabad Mandal, R.R. District, Hyderabad -500075

**JB**
IEEE SB, JBIET

Department of Electronics & Communication Engineering

IEEE STUDENT CHAPTER

**Workshop
on
Design Thinking, Critical thinking, and Innovation**

Resource Person
Dr. Niraj Upadhayaya

**11th January,
2023**

Co Ordinators
Dr Anindiya Jana
Mr Shravan Kumar

HOD
Dr. Towheed Sultana

Principal
Dr. P C Krishnamachary

Details & Glimpse of Workshop

Dr. Niraj Upadhayaya, the senior professor, Dean R&D has covered the various aspects of design thinking , critical thinking and innovation ideas in detail. The ideas shared by Dr. Upadhayaya also includes some examples based on real time applications. Some of the points are described as follows.

- Design Thinking:** Design Thinking is a problem-solving methodology that prioritizes understanding user needs, generating creative solutions, and iterating through prototyping and testing. It's a human-centered approach that emphasizes empathy for the end-user, collaboration among interdisciplinary teams, and iterative development. The typical stages of Design Thinking include empathize, define, ideate, prototype, and test. Design Thinking is widely used in various fields, including product design, service design, and organizational strategy.
- Critical Thinking:** Critical Thinking is the ability to analyze, evaluate, and synthesize information to make reasoned judgments or decisions. It involves actively questioning assumptions, considering multiple perspectives, and assessing the validity and relevance of evidence. Critical Thinkers are adept at identifying biases, logical fallacies, and

inconsistencies in arguments. They can separate fact from opinion and make sound decisions based on evidence and logic. Critical Thinking is essential in problem-solving, decision-making, and forming well-informed opinions.

3. **Innovation:** Innovation refers to the process of creating new ideas, products, services, or processes that bring value to individuals, organizations, or society. It involves combining creativity with practical implementation to address challenges or seize opportunities. Innovation can occur through incremental improvements or radical breakthroughs and can manifest in various forms, such as technological advancements, business models, or social initiatives. Successful innovation often requires a combination of creativity, strategic thinking, collaboration, and a willingness to take risks.

While Design Thinking emphasizes empathy and creativity in problem-solving, Critical Thinking focuses on logical analysis and evaluation of information. Both are crucial for fostering innovation, which involves creating novel solutions that address real-world needs while also being feasible and valuable.

Dr. Niraj Upadhayaya, Delivering the Session



Guest Lecture on Image Processing and its Application



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YENKAPALLY (V), MOINABAD (M), RANGA REDDY, DISTRICT
HYDERABAD. , MOINABAD, Hyderabad, 500075



Guest Lecture on Image Processing and its Application On 8th Feb 2023

The poster features a blue background with a wireframe profile of a human head on the left, facing right. The text is white and yellow. At the top left is the JB logo. At the top right is the 25th anniversary logo. The main text reads: 'Department of Electronics and Communication Engineering', 'Guest Lecture about', 'Image Processing and its Application', 'On 8th Feb 2023', and 'Speaker: Dr. Raj Kumar L Biradar, Professor, GNIET, Hyderabad'. At the bottom right is a small logo for the Department of Electronics and Communication Engineering (ECE).

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Department of Electronics and Communication Engineering

Guest Lecture about
Image Processing and its Application

On
8th Feb 2023

Speaker: Dr. Raj Kumar L Biradar
Professor, GNIET, Hyderabad

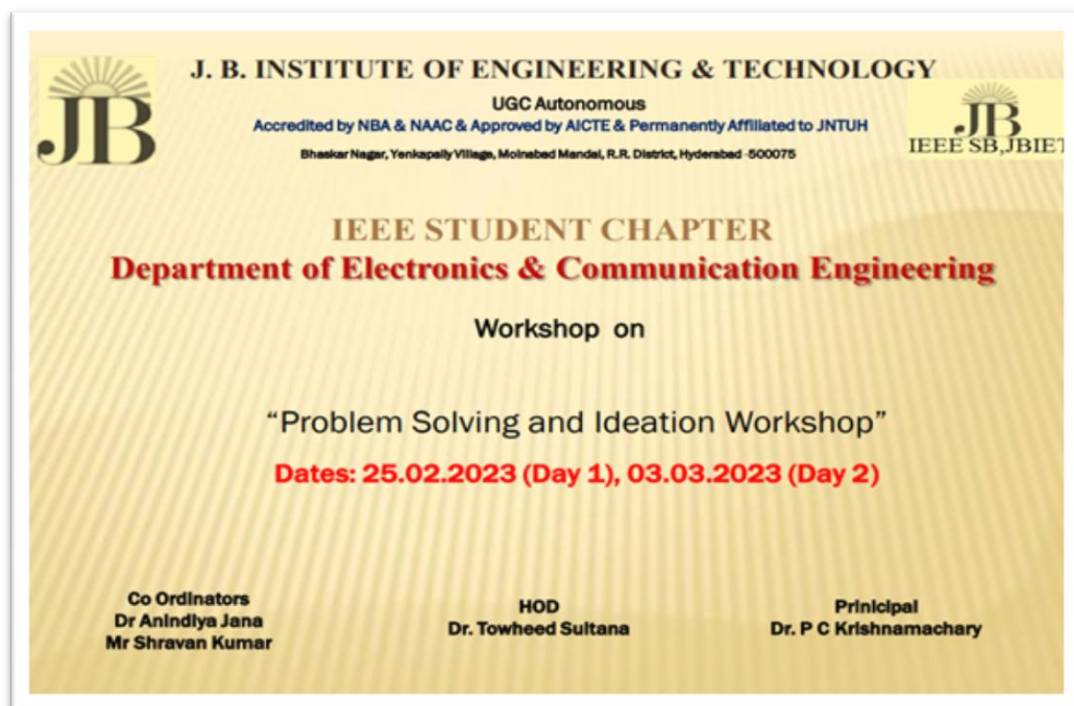
Dr. Raj Kumar L Biradar Lecture

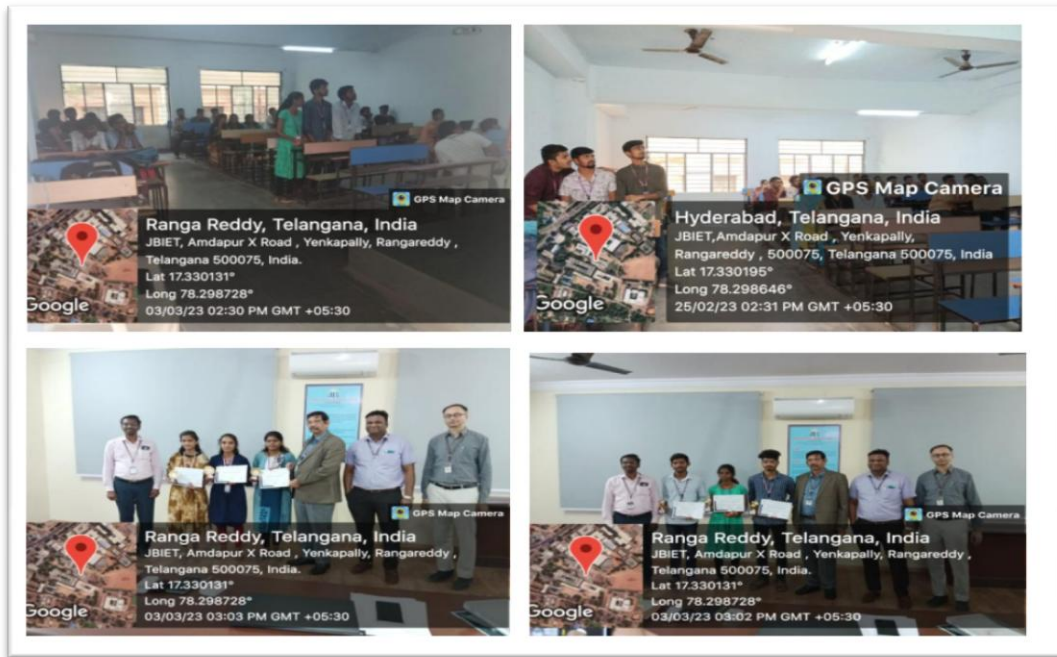
Dr. Raj Kumar has touched various scenario of Image processing and the applications starting from the standard definition to real time applications etc. as follows

Image processing is a field of study that involves manipulation and analysis of digital images to enhance their quality, extract useful information, or interpret their content. It finds applications in various domains, including medicine, entertainment, security, and more. Here are some common applications of image processing: medical Imaging, Remote sensing, Biometric, digital photography and video processing, Robotic Automation, security and

Problem solving and Ideation Workshop

surveillance.





Glimpse of women's day Celebration



In women's day
Dr. Sultana is
lighting the lamps



Women faculty with
Students



Women Faculty Celebrating

J Bhaskar Rao Memorial 1st International Conference on Advanced Applications of Technology and Management (AATM) 2023 was organized in JBIET, Hyderabad, Telangana, India on 10th March- 11th March, 2023.

AATM - 2023 is a multi-disciplinary, peer review international conference on recent trends in applications of engineering and management. The Aim of this conference is to provide a forum for the exchange of latest technical information, the dissemination of the quality research results, on field application, on set of new development area and the debate, also shaping of future directions based on artificial intelligence system development, modern communications, technology in health sector.

This conference was inaugurated by honorable chief guest Dr. T Raghu- Scientist (H), DRDO Hyderabad. A technical keynote speech was delivered by Dr. Kamol Waspinyokul from King Mongkut's Institute of Technology, Bangkok, Thailand.

AATM 2023 received about 214 articles by 481 authors. Out of this 116 papers by authors were accepted for presentation. After successful presentation, all presented papers were communicated to International Journal of System Design and Information Processing journal for publication. Around 50 participants from various industry and academia attended the conference.

We are obliged to our Honorable Secretary-JBES Shri J.V Krishna Rao Secretary, CEO-JBES Major Gen.Dr. S.S. Dasaka, Principal-JBIET Dr. P.C Krishnamachary, Dean R&D-JBIET Dr. Niraj Upadhayaya for providing full support and guidance to us in organizing this international conference AATM-2023.

The organiser thanks to all faculty members and staff in different sub committees for organizing the conference and make it a grand success.



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<p>RESOURCE PERSON</p> <p>DR. SYED JALAL AHMED PROFESSOR, DEPARTMENT OF ECE MALLA REDDY ENGINEERING COLLEGE, HYDERBAD</p> <p>SCHEDULE</p> <p>DAY 1 25-04-2023 SESSION 1 - OPENING CEREMONY - FN SESSION 2 - 13.30 - 15.50 - AN</p> <p>DAY 2 26-04-2023 SESSION 3 - 10.00 - 12.10 - FN SESSION 4 - 13.30 - 15.50 - AN</p> <p>DAY 3 27-04-2023 SESSION 5 - 10.00 - 12.10 - FN SESSION 6 - 13.30 - 15.50 - AN</p>	<p>CHAIR PERSON LATE SHRI. J BHASKAR RAO CHAIRMAN, JBES</p> <p>CHIEF PATRON SRI. J V KASHNARAO MBA HR, USA SECRETARY</p> <p>PATRONS MAJOR GENERAL PROF DR S S DASAKA, SM,VSM (RETD) CEO, JBGEI</p> <p>DR. P. C. KRISHNAMACHARY PRINCIPAL, JBIET</p> <p>CONVENER DR. TOWHEED SULTANA, HOD, ECE</p> <p>ORGANIZING COMMITTEE COORDINATORS B. SOWMYA</p>	<p> J.B. INSTITUTE OF ENGINEERING & TECHNOLOGY (UGC AUTONOMOUS)</p> <p>UGC AUTONOMOUS ACCREDITED BY NAAC & NBA, APPROVED BY AICTE PERMANENTLY AFFILIATED TO JNTUH</p> <p>3 DAY WORKSHOP ON "PCB "</p> <p>25-04-2023- 27-04-2023</p> <p>VENUE EDC LAB</p> <p>ORGANIZED BY ELECTRONICS AND COMMUNICATION ENGINEERING</p> <p></p>
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3 Day Workshop PCB Design

FACULTY ACHIEVEMENTS:

"Our faculty members have actively participated in over 37 FDP's and workshops hosted by diverse institutions, demonstrating their dedication and continuous pursuit of knowledge."

STUDENTS ACHIEVEMENTS:

- **Mr.Sabavath Rakesh Naik** Certificate of merit in inter university mallakhamb tournament held at raja mahendra pratab singh university, Aligarh from 22.1.23 to 25.1.23.
- **Mr.T Nishanth** Participated and has achieved winners for volley ball in the Bhaskar Memorial Cup 2023 held at JBIET from 13th -17th March 2023.
- **Mr.Banthilal** Participated and has achieved winners for volley ball in the Bhaskar Memorial Cup 2023 held at JBIET from 13th -17th March 2023.
- **Mr.Vasanth** Completed Quiz Competition and Secured 1st place Conducted by Velammal College of Engineering and Technology, at Chennai .july 6 2023.

Patent

A System and Method for adjusting energy within a band gap Circuit by Dr. Towheed Sultana, Dr. Prasanta Kumar Pradhan, Mr N.Ramesh Babu, Mr Raj Kumar D Bhure, K. Snehalatha, Mr B Kishore Kumar ,202341073976 A/3010/23,Published / 22-12-2023

Research Project

1. Rs 3,42,000/- was sanctioned by Manoeco to Dr.P K Pradhan for project titled Robotics for class room Teaching
2. DST Project for Rs 46,00,000/- for establishing Bio Electronics Laboratory was sanctioned PI- Dr. Anindya Jana CO-PI Dr. P K Pradhan, Dr.Towheed Sultana, Dr.Himanshu Sharma