



# S.E.A. COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by All India Council for Technical Education (AICTE), New Delhi, Accredited B++ by NAAC  
Affiliated to Visvesvaraya Technological University (VTU), Belagavi, Recognised by Government of  
Karnataka)

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Visit Report of Final-Year Students to RV College of Engineering's Research Centers

The Department of Computer Science and Engineering at SEA College of Engineering and Technology organized a visit on 4th October 2024 for final-year students to the advanced research facilities at RV College of Engineering (RVCE), Bengaluru. This visit aimed to provide students with valuable exposure to interdisciplinary projects and cutting-edge technology in a real-world research environment, encouraging them to explore collaborative, multi-disciplinary approaches within engineering. The experience was designed to inspire students by highlighting the practical applications of their studies and fostering an appreciation for innovation in high-impact research areas.

#### **Research Centers Visited:**

During the visit, students had the opportunity to explore several specialized research centers at RVCE:

#### ❖ **Center of Excellence in Microelectronics and Nanotechnology**

For computer science students, this center provides insights into the integration of data processing within IoT (Internet of Things) systems. Students can explore how computing principles are applied in sensor networks and real-time data analysis, crucial for applications in wearables, smart cities, and medical devices.

#### ❖ **Interdisciplinary Research Center for Advanced Manufacturing**

This center allows computer science students to see the role of AI and machine learning in manufacturing. Automation, predictive maintenance, and digital twin technologies rely on big data analytics, AI algorithms, and simulation modeling, areas where computer science expertise is vital.

#### ❖ **Center for Artificial Intelligence and Machine Learning**

This center is directly aligned with computer science interests, focusing on AI applications like predictive modeling, autonomous systems, and natural language processing. Here, students can see real-world applications of machine learning



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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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algorithms, deep learning models, and AI-driven decision-making systems, which are integral to fields such as robotics, healthcare, and finance.

### ❖ **Energy and Environment Research Lab**

In this lab, computer science students can explore how data science, AI, and simulation models optimize energy solutions and environmental sustainability efforts. Working on projects in renewable energy and efficient power storage requires knowledge in data modeling, predictive analytics, and algorithm optimization, areas rooted in computer science.

### ❖ **Center for Computational Science and Data Science**

This center focuses on large-scale data processing, bioinformatics, and computational modeling, offering computer science students exposure to real-world challenges in data mining, algorithm development, and bioinformatics. It demonstrates the application of computing in life sciences, environmental studies, and engineering, showing students the broader impact of computational methods.

In conclusion, the visit to RV College of Engineering's research centers was an enriching experience that provided final-year students with valuable exposure to advanced technologies and interdisciplinary applications. By engaging with centers specializing in artificial intelligence, nanotechnology, advanced manufacturing, and computational science, students gained insights into how computer science integrates with various fields to address complex, real-world challenges. This visit not only broadened their understanding of innovative research but also inspired them to explore and apply their skills beyond traditional boundaries, preparing them for future roles in academia, research, and industry. Such interactions strengthen their readiness to contribute meaningfully to technological advancement and multidisciplinary innovation.

Faculty Coordinator

HOD



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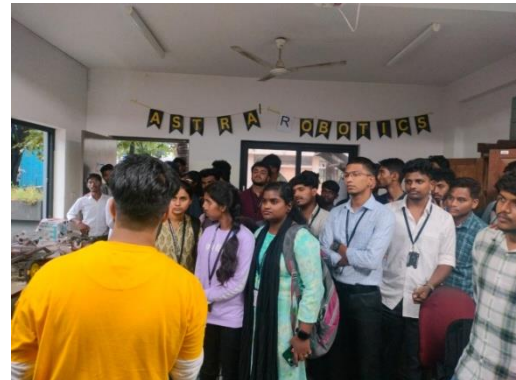
**Group photo at RV College**



**Macroelectronics Lab**



**Research Center**



**Centre of Excellence**



**Energy and Environment Research Lab**

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### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

To  
The Principal,  
RV College of Engineering,  
Bengaluru.

Date: 18-09-2024

Subject: Request for Permission to Visit Research Facilities at RV College of Engineering

Respected Sir,

I am writing on behalf of the Department of Computer Science and Engineering at SEA College of Engineering and Technology to respectfully request permission for our final-year students to visit the advanced research facilities at RV College of Engineering. We are planning this visit on 4th October 2024 as part of our initiative to enhance students' learning experience by exposing them to practical, real-world applications of cutting-edge research and interdisciplinary projects.

The primary objective of this visit is to provide students with insights into innovative engineering practices and to inspire them through exposure to state-of-the-art facilities. We believe this experience will encourage our students to explore collaborative, multi-disciplinary approaches and understand the potential impact of technology in diverse fields.

We kindly request your approval for the visit and assistance in facilitating an informative session with faculty and researchers who can provide guidance to our students on ongoing projects and research activities. The department will ensure that all necessary protocols and guidelines are followed to ensure a smooth and respectful visit.

We appreciate your consideration and look forward to your positive response.

Thank you and best regards.

Yours Sincerely

Dr. Krishna Kumar P.R,  
Head of the Department,  
Computer Science and Engineering,  
SEA College of Engineering and Technology.