



# RAJALAKSHMI ENGINEERING COLLEGE

An AUTONOMOUS Institution  
Affiliated to ANNA UNIVERSITY, Chennai



## ENTHIRATHON

TRANSFORMING IDEAS INTO REALITY

# APRIL 12 & 13 2024

A  
**33 HOURS  
HACKATHON**

From the house of  
**Mechanical  
Engineering**  
jointly with the  
**Idea Lab**

SCAN TO KNOW MORE



*WIN*

**PRIZE WORTH  
1 LAKH**

LAST DATE FOR  
IDEA SUBMISSION  
**3rd April 2024**

**VENUE:**

**Rajalakshmi Engineering College  
Chennai-602105**



[rajalakshmi.org/enthirathon](http://rajalakshmi.org/enthirathon)



[enthirathon@rajalakshmi.edu.in](mailto:enthirathon@rajalakshmi.edu.in)



**enthirathon\_24**

# **ABOUT THE INSTITUTION**

**Rajalakshmi Engineering College (REC), established in 1997, is a leading institution renowned for its commitment to academic excellence in engineering education. Offering a comprehensive portfolio of 19 undergraduate and 10 postgraduate programs, REC annually serves over 2000 students. The college holds NAAC 'A++' Grade and NBA accreditation for all eligible undergraduate programs reflecting its adherence to quality outcomes. REC ranked 86 in the NIRF ranking for its contribution to teaching, learning resources, research & professional practices, graduation outcomes, and outreach in perception. REC enjoys permanent affiliation by Anna University for 10 undergraduate and 4 postgraduate programs, ensuring stability and widespread recognition. Additionally, its SIRO recognition from DSIR underscores its significant contributions to research and development. REC's success is attributed to its proficient faculty, state-of-the-art research facilities, strategic industry collaborations, and holistic career development initiatives. With an exceptional placement record, REC prepares graduates to excel in their careers and contribute as professionals and innovators on a global scale, setting the standard for excellence in engineering education.**

# **ABOUT THE DEPARTMENT**

**The Department of Mechanical Engineering within the university offered undergraduate and postgraduate programs with a focus on providing students a robust foundation in engineering principles and their application to mechanical systems. It held a permanent affiliation from ANNA University and maintained Research Center status. The curriculum was meticulously crafted to align with industry needs, blending theoretical coursework with hands-on laboratory experiences, aimed at preparing graduates to make meaningful contributions to both industry and society. The department has well-equipped laboratories and facilities supporting teaching and research activities. It facilitated research and consultancy projects funded by various sources, including DST, UGC, AICTE, GTRE, among others. Ten active professional student chapters, including ASME, ASM, SAE, IE (I), ISHRAE, IIIE, NIQR, among others, provided students with opportunities for extracurricular engagement in the field. The faculty comprised experienced professionals with a mix of industrial and academic backgrounds, ensuring a well-rounded educational experience for students. Their expertise contributed to the department has active involvement in research and consultancy endeavors, enhancing the overall academic and practical learning environment.**

# **ABOUT ENTHIRATHON**

**Enthirathon is a hackathon focused on hardware and software challenges, organized by the Department of Mechanical Engineering. It aims to inspire students to think creatively and enhance their design thinking using engineering principles, empowering them to bring their ideas to reality. The event offers a dynamic atmosphere with competitions, engaging panel discussions, presentations, and networking opportunities, all geared towards cherishing collaboration and driving progress under the motto "Transforming Ideas into Reality." Encourage teams to develop environmentally friendly solutions, such as innovative designing products or recycled materials or creating energy-efficient systems with minimal environmental impact. Participating in a hackathon can be a great way for Engineering students to apply their skills, learn new technologies, and collaborate with peers. Join us for an unforgettable journey where innovation meets purpose, shaping the future of engineering excellence.**



# **OBJECTIVE OF THE EVENT**

**Welcome to Enthirathon – A 33-hour hackathon proudly hosted by the Department of Mechanical Engineering at Rajalakshmi Engineering College. Our primary objective is to provide a dynamic platform for budding mechanical engineers to unleash their creativity and problem-solving skills. Through this hackathon, we aim to foster innovation, encourage interdisciplinary collaboration, and inspire participants to develop practical solutions that address real-world challenges in the field.**

**Enthirathon is not just a competition; it's an opportunity for students to showcase their talents, learn from experienced mentors, and network with industry professionals. We aim to create an environment where ideas flourish, and participants leave with a sense of accomplishment and newfound skills that will serve them well in their future endeavours.**

# EVENT TIMELINE



**RELEASING PROBLEM  
STATEMENTS  
15/03/2024**

**LAST DATE FOR  
SUBMISSION OF IDEAS  
03/04/2024**

**ANNOUNCEMENT OF  
SHORTLISTED TEAMS  
05/04/2024**

**REPORTING OF SHORTLISTED  
TEAMS AT REC  
12/04/2024**

**FIRST & SECOND ROUND OF  
HACKATHON  
12/04/2024 - 13/04/2024**

**REVIEW, FINAL JUDGEMENT  
& VALEDICTORY FUNCTION  
13/04/2024**

# **IMPACT OF INNOVATION ON SOCIETY**

**Innovation is the driving force behind progress and positive societal change. At Enthirathon, we believe that the innovative solutions developed by our participants have the potential to make a lasting impact on society. Whether addressing environmental concerns, improving healthcare, or enhancing the overall quality of life, the projects born from Enthirathon have the power to shape a better future.**

**Through this hackathon, we encourage participants to think beyond traditional boundaries, pushing the limits of conventional mechanical engineering. By fostering innovation, we aim to contribute to a world where technology and creativity converge to solve complex challenges and bring about positive transformations for the benefit of society at large.**

# **EVENT HIGHLIGHTS**

- **Diverse Problem Statements:** Tackle real-world challenges in mechanical engineering with a range of problem statements.
- **Cutting-edge Components:** Explore the possibilities of innovation using a diverse set of components and materials.
- **Expert Mentorship:** Receive guidance from experienced mentors in the industry and academia.
- **Innovation Challenges:** Take on specific challenges to push the boundaries of creativity
- **Skill-building Workshops:** Enhance your skills with pre-hackathon workshops on ideation, prototyping, and presentation.
- **Networking Opportunities:** Interact with industry professionals, fostering potential collaborations and job opportunities.
- **Judging Criteria:** Showcase your innovative solutions to industry experts and professors.
- **Prizes and Recognition:** Win attractive prizes and gain recognition for outstanding projects.
- **Documentation Emphasis:** Document your project progress effectively, showcasing design choices and lessons learned.
- **Post-Event Support:** Access continued support through mentorship programs and follow-up workshops.



# **RULES & REGULATION**

## **Team Rules and Regulations:**

- **Team size - 4 to 6 students.**
- **Registration fee of Rs. 300 per student.**
- **A total of 40 teams will be finalized.**
- **Abstract PPT template is available on our website instruction section**
- **The deadline to submit the idea is April 3, 2024.**
- **Details of shortlisted teams will be published on our website on April 05,2024.**
- **The last date for the payment of shortlisted teams is on April 08, 2024.**
- **Payment links for the shortlisted teams will be shared through email.**
- **Shortlisted teams must report to the venue at 7.45am on April 12, 2024.**
- **Communication regarding the event will be done solely with the team leader.**
- **All information will be shared only through email.**
- **A team can submit ideas for more than one problem statement.**
- **A college ID card is mandatory for all the participants.**
- **Participants are expected to come in professional attire.**
- **Violation of any ethical code of conduct will lead to disqualification**

## **Event Rules and Regulations:**

- **Shortlisted teams can develop the idea and bring essential materials for in-campus fabrication. Prefabrication model is not allowed.**
- **During the hackathon, consumables, technical assistance, and basic machining tools will be provided based on the availability within the college premises.**
- **Only specified facilities for fabrication will be provided; any additional fabrication material required must be outsourced. Available facilities will be sent to the shortlisted team.**
- **Team members are not allowed to leave the college premises during the event.**
- **Shortlisted teams must showcase the fabricated working model/prototype before 3:00 pm April 13<sup>th</sup>, 2024.**
- **The final round - 3:00 to 4.00 pm on April 13<sup>th</sup>, 2024.**

**Bus & hostel facilities:**

**Transportation arrangements will be provided in and around Chennai, for detailed information on the bus routes please check it on the below mentioned link;**

**<https://www.rectransport.com/>**

**Participants are required to bring personal accommodation essentials such as bedspreads and buckets as per their individual needs. Please note that common accommodation rooms will be provided for both Boys & Girls separately.**

# **REGISTRATION DETAILS**

- ❖ Total number of teams -40
- ❖ Each team consists of 4 to 6 members.
- ❖ Registration fee of Rs.300 per student (Only for the shortlisted students).

## **FACULTY COORDINATOR**

**Mr.M.Santhanakrishnan**

**Contact number-9003528030.**

**Mail id: santhanakrishnan.m@rajalakshmi.edu.in**

## **STUDENT COORDINATOR**

- 1. Mr.Vijay G - 7358362911**
- 2. Mr.Shenbagapandiyan B - 7358306515**
- 3. Mr.Rakesh Aravind B - 9489271830**
- 4. Mr.Ramkumar N - 9629669215**

# THANK YOU & REGISTRATION NOTE

Thank you for considering Enthirathon! Your participation and support are integral to the success of this event. We invite you to register, be part of an incredible journey of innovation, and contribute to shaping the future of Mechanical Engineering.

Together, let's create solutions that address current challenges and inspire the next generation of engineers. Register now and join us in making Enthirathon an unforgettable celebration of creativity and ingenuity!



## PROFESSIONAL SOCIETIES

