

Event Outline

Neo Dawn Conclave

An IEEE International Conclave on
*Emerging Technologies and its
Applications*

Organized by IEEE CS SBC MACE and IEEE RAS SBC MACE in collaboration with IEEE SPS SBC MACE



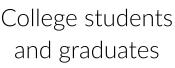
Expected Audience

Summit: Around 250-300 participants



School students and graduates

Workshops: Participant count to be restricted depending on the available resources.



College students and graduates

Exhibition: Tickets to be sold to general public apart from above mentioned categories. Expected count per day to range between 200-300.



Working professionals technology enthusiasts

Proposed Dates

Suitable dates **between late January and early May** based on the upcoming KTU calendar, preferably from **Thursday to Sunday**.

Location

Kochi, Kerala

Mode of Event

Hybrid. Summit and exhibition to be live-streamed to virtual participants. Workshop will be exclusive to offline participants.



Neo Dawn

Conclave

A 4-day long **IEEE International Conclave on Emerging Technologies and its Applications** on the theme **How emerging technologies and its applications will affect various spheres of life**

Workshops

Designed to be run across **3 different tracks** for high school students to working professionals, covering a wide range of topics in the fields of robotics and automation, computer science and signal processing. **Each track would offer 3 different electives** in real-world applications for delegates to unlock their potential, gain practical skills, and stay ahead of the curve in today's rapidly evolving world.

Track 1: For high school students and graduates



Elective 1

Introduction to Neural Networks



Elective 2

Building a bot



Elective 3

Introduction to Image Processing and Computer Vision

Track 2: For undergraduates



Elective 1

Human Computer Interaction: Advanced Techniques for User Experience Design and Evaluation



Elective 2

Quantum Signal Processing: Principles, Algorithms, and Applications



Elective 3

Design, Control and Navigation of Mobile Robots

Track 3: For postgraduates and working professionals



Elective 1

Advanced Robotics: Sensing, Perception and Control



Elective 2

Building Secure and Resilient Software Systems



Elective 3

ML for Signal Processing Applications

Organisers

MACE

Established in 1961, we are among the very few colleges accredited by the National Board of Accreditation(NBA) and awarded with an A+ grade by the National Assessment and Accreditation Council (NAAC), MACE has grown by leaps and bounds since the establishment, committed to provide quality education to mould technically competent professionals with moral integrity, and strongly adhering to its mission and vision.

IEEE MACE SB

One of the largest student branches across the globe, with over 500 student members, the SB conducts various technical and non-technical events - training programmes, talks, professional awareness sessions, hackathons, industrial visits, debates, quizzes, and workshops - to equip students with industry-ready skills, help them excel in their interest areas and guide them to become responsible professionals for a better tomorrow.

IEEE CS SBC MACE

Engages students in activities and initiatives that promote learning, networking, and professional development in the field of computer science. 100 Days of Code a milestone event where over 130+ participants learn to code in 100 days along with mentors with an end project as the aim.

IEEE RAS SBC MACE

Encourages innovation, education, and fundamental and applied research in robotics and automation, with high professional standards. Its flagship event, Cybosium, India's first ever technical education programme which was a blend of talks, competitions, online lectures, cultural events, expos and much more, that gathered experts and enthusiasts in the fields of UAVs and AGVs

IEEE SPS SBC MACE

The newly formed SBC intends to forward this vision of the Society by hosting technical events aimed at encouraging students to explore the vast possibilities the field of Signal Processing has to offer.

Summit

To discuss, collaborate and innovate amongst a series of **engaging talks, panel discussions, rap sessions** and networking circles to be led by industry experts

Expected duration

Talks: About 40-50 minutes each

Panel Discussions: 90-120 minutes each

Rap Sessions: 45-60 minutes each

Expected topics/themes to be covered

Applications of emerging technologies in finance, business, infrastructure, healthcare, education, transportation etc.

Exhibition

Projects, prototypes and products from students and industry professionals alike to be displayed in allotted stalls in a common large hall or outdoor, based on stall requirements of the exhibiter(s)

Expected duration

To be run throughout the 4 days of the conclave

neo dawn 2024

Contact us

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