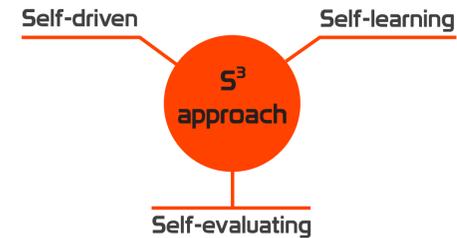# ROC

RoboAnalyzer based Online Competition (ROC) as Virtual Summer Internship (May-July 2021)

BRIEF

Learn the textbook concepts of Robotics through realization and visualization using RoboAnalyzer.

Self-driven   Self-learning

S³ approach

Self-evaluating

ELIGIBILITY

Students of any college/university interested in robotics.

MODALITY

This online event "RoboAnalyzer based Online Competition (ROC) as Virtual Summer Internship" will be in collaboration with the two main developers of the RoboAnalyzer software Professor Subir K. Saha of IIT Delhi and Mr. Rajeevlochana C.G. of Amrita Vishwa Vidyapeetham, Bengaluru, and Embedded Systems and Robotics Lab, Tezpur University.

TEAM

Team of four members will be made having one as coordinator, and another one as co-coordinator. Teams will be made by the organizer and will be displayed on the websites www.tezu.ernet.in and www.roboanalyzer.com.

IMPORTANT DATES

- Date of Announcement of Call for Participation: Feb 13, 2021.
- Last date for registration: April 24, 2021.
- Date of announcement of the teams: April 30, 2021.
- Date of Webinar: May 2, 2021 (Sunday)
- Dates of Interaction: May 15, May 29 and June 19, 2021 (Saturday evenings)
- Date for video and .pdf of six slides submission: June 27, 2021 (Sunday)
- Peer review marks submission: July 4, 2021 (Sunday)
- Final Day of Competition: July 11, 2021 (Sunday)

BENEFITS OF PARTICIPANTS

- Opportunity to correlate the concept of classroom knowledge of robotics into practice.
- Experience to work in a team with members across the country (and possibly the World)
- Skill of making a good presentation
- Becoming industry-ready
- A few of the selected participants may get an opportunity for summer/winter internship at Embedded Systems and Robotics Lab, Tezpur University with virtual tour to the Robotics Lab at IIT Delhi.

PROGRAMME

- Following the team formation, the participants will be participating online for a one day webinar. The programme will be as follows:

  10:00 Hours to 10:30 Hours: Inaugural Speech by Professor Subir K. Saha, IIT Delhi, India
  10:30 Hours to 11:00 Hours: Speech by Ratan Othayoth (RA-Ambassador), Johns Hopkins University, United States
  11:00 Hours to 12:30 Hours: Introduction to Robotics and RoboAnalyzer
  12:30 Hours to 13:00 Hours: Briefing of the problem statement for the competition
  13:00 Hours to 14:00 Hours: Break
  14:00 Hours to 16:00 Hours: Doubt clearing of the participants about the problem statement and competition

- Several online interaction sessions (group-wise) with the participants will be kept for discussion on their progress and doubt clearing. One of the later sessions will also emphasise on technical writing so that they can try to take up their work in the form of a decent publication.

- The teams shall be working on problem statements, which would be open ended, thus allowing the teams to be innovative in their approach.

- Following the interaction session, participants will be asked to upload a video presentation of 3 minutes duration along with six slides. The template for first slide of the presentation will be provided to the teams.

- The presentation of each group will be provided to other fellow groups for evaluation.

- On the Final day, the video will be demonstrated to a panel for evaluation, remarks and question answer to the participants.

- The best team will be selected based on the question answer and video presentation session and will be awarded with a book "Introduction to Robotics by S. K. Saha".

CERTIFICATION

On successful completion of the competition, the participant names will be recorded in the RoboAnalyzer website along with the slides submitted by the teams. This activity follows a strict "No Explicit Certificate policy", i.e., the participants will not be given any certificate. Their work can be claimed by referring to their project details that shall be put on the RoboAnalyzer website.

ORGANIZING TEAM

- Dr. Nayan M Kakoty, Tezpur University, Assam
- Dr. Zahnupriya Kalita, Tezpur University, Assam
- Mr. Abhijit Boruah, Dibrugarh University, Assam
- Mr. Shiv Kumar Verma, Tezpur University, Assam
- Mr. Rajeevlochana C. G., Amrita Vishwa Vidyapeetham, Bengaluru Campus
- Prof. Subir K. Saha, IIT Delhi, New Delhi

REGISTRATION

Registration Fee: Free

Online Application Link: https://forms.gle/4HK1t6CTyboywWJW8

Contact Email: ra2020oc@gmail.com