

ROBOTICS CENTER OF EXCELLENCE

Vision:

To create the best Centre of Excellence for Robotics affiliated to an academic institution in the Telangana State, by providing state-of-the-art Research & Development facilities for in-house and consultancy projects.

Mission:

To conduct and advance research pertaining to the fields of Robotics, Automation, and Human-Computer Interaction through concerted efforts across various disciplines of Engineering & Science, through proactive research and development activities, viable consultancy projects, and realizable student projects at UG and PG level.

Research Group:

1. **Mr. C.V. Rambabu**, Sr. Asst. Prof., Dept. of EIE
2. **Mr. S. Bhargav**, Asst. Prof., Dept. of EIE
3. **Mr. Madhusudhan Kulkarni**, Asst. Prof., Dept. of EIE

Plan of Action for 2016–'20:

- **Streamlining “Team Robotics” through the Centre:** (Ongoing) – to streamline the ongoing Research & Development by student members of the Co-Curricular Activities Club “Team Robotics” at the Institute and bring their activities under the umbrella of the Centre’s activities.
- **Creating a Platform for Interdisciplinary Research:** 6 months (and beyond) – to create an interest among faculty members of other disciplines of Engineering & Science to be involved in the Centre’s activities.
- **Literature Survey and Domain Learning:** 6 months (and beyond, along with the previous phase) – to enable students and faculty members from various academic disciplines to gain multidisciplinary knowledge in order to conduct research tasks successfully for completion of specific projects and to also form a vision for the future.
- **Prototype Development/Realization:** 1-1.5 years (after the previous phases) – three prototype devices shall be developed for the three project ideas, at which time provisional patent applications may also be initiated. During this phase, publications may also be initiated as letters or such short articles.
- **Product Development and Patenting:** 2 years (after the previous phases) – final, fully-functional products shall be developed and patents may be obtained as may be applicable, as per the claims made in the provisional patents in the previous phase. During this phase, publications in high-impact journals may be planned and executed.
- **Commercialization and Consultancy:** Depending on the final outcome and the general reception to it from the research community and society at large, the products may be commercialized or replicated for other organizations as a part of research consultancy.