Dr. A.P.J. Abdul Kalam Research Centre for Future Tech.

To advance scholarly activity at SRRCET, ***Dr. A.P.J. Abdul Kalam Research Centre for Future Tech*** was founded to engage in collaborative research, training in research tools, disseminating research, or engaging in creative projects.

Dr. A.P.J. Abdul Kalam Reseach Centre for Future Tech has various Centres which will provide opportunities for students for inquiry-based learning and will take an active part in important academic forums and community outreach. Centres often promote the multidisciplinary study and encompass activities that go beyond the scope of one subject. The establishment of a Centre with the purpose of obtaining funding for research projects is possible. The Centres are:

- Centre for Robotics,
- Centre for Cyber Security and Cloud Computing,
- Centre for Artificial Intelligence,
- Centre for Electric Vehicle & Energy
- Centre for Image Processing and
- Centre for IoT

Salient features of the Centres are:

Centre for Robotics has conducted Hands-on Training programmes on Robotics, 3-D Printing, Drone Technology and Humanoid Robot to our students. Also an MOU has been signed with M/S Sree Koppudaiyal Technologies, Karaikudi to carry out R&D and Training on Robotics.

Centre for Cyber Security and Cloud Computing has a tie-up with Varmaa Systems, Pudukottai. Training sessions on Software Development for detecting any Key Logger in a system has been given to our students and Faculty members.

Centre for Artificial Intelligence has a tie-up with RiSiNh TecHons Pvt. Ltd. (RTPL), Begaluru and conducted Training sessions on Programming in AI. Through this training, our students and faculty members have developed Coding for Robotics Laboratory.

Centre for Electrical Vehicle and Energy has a tie-up with Green Planet Environmental Solutions, Thiruchirappalli. Conducted various training programs on EV and Solar Energy to our students. The activities of this Centre helped to bring out an Electrical Vehicle by the students of Electrical and Electronics Engineering Department.

Centre for Image Processing has a tie-up with Grid-Lab Solutions, Karaikudi Training on Fundamentals of Image Processing and Mathematical Tools for Image Processing and Practical Hands-on sessions using MATLAB has been provided to our students through this Centre.

Hardware projects are being carried out by the students under the guidance of faculty experts from the ***Centre for IoT***. IoT based Fan, Light and AC has been developed by our students in our Robotics Lab with the help of M/S Sree Koppudaiyal Technologies, Karaikudi, who has signed MOU with our college.

The Centres can be used by researchers, and faculty members to apply for grants and get funds for R&D. Several events like FDP, Webinars and training programs were held in the Centres prevalently for the benefit of the faculty and students. Each Centre shall be evaluated and as a part of the assessment, the Centre will submit an activity plan and a report on the activities they have done. Through the Centres, faculty members and students can apply for government funding to patent their innovations and this Research Centre for Future Tech inspire students and academics to create patents. In the Centre, students worked on projects can be turned into journal articles. The Research projects taken by faculty members can be published in journals. Dr. A.P.J. Abdul Kalam Research Centre for Future Tech has encouraged students and faculty members to complete the certification courses like Cyber Security, Artificial Intelligence, Robotics, etc. Students have carried out the following projects under the guidance of Heads and faculty members of the Centres mentioned above.

1) *E Bike*
2) *Solar Bike*
3) *Hybrid Bike*
4) *FM radio*
5) *Sensor Lights and*
6) *Robotics Lab.*

The above projects are considered to be the vital outcome of this distinctiveness.

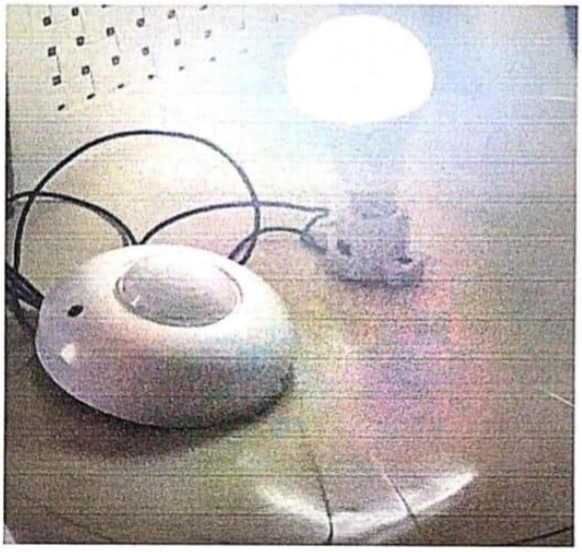
photos of Dr. A.P.J. Abdul Kalam Research centre for Future Tech

E - Bike

Solar Bike

Hybrid Bike

FM Radio



Human Sensor Light

Robotics Laboratory