

IESL - UTE Raspberry Pi Challenge 2017

The IESL - UTE Raspberry Pi Challenge 2017 organized by UTE and IESL consisted with a total of 46 applicants which constituted of 32 applications from the undergraduate category and 14 applications from the school category. After the commencement in June 2017, all teams faced multiple progress evaluation tests and judges to prove the effectiveness and benefits of their new invention that uses a Raspberry Pi device as the main component.

At the recently concluded “Techno 2017” exhibition, Winners, First Runner-up and Second Runner-up of the competition were decided. The final award ceremony took place at the Kingsbury Hotel, on the 1st of November 2017. UTE- the National Engineering Solutions Provider in Sri Lanka partnered with IESL to make this competition a success with the vision of promoting technological innovation and creativity among the Sri Lankan youth.

Department of Electrical & Electronic Engineering, University of Peradeniya secured two among the top three places as mentioned below.

Winner – Team Pera SUN

- Team –NeelangaThelasingha ,BavanthaUdugama , Sachini Ekanayake
- Supervisors - Dr. JanakaWijayakulasooriya, Dr. Lilantha Samaranayake, Dr. Roshan Godaliyadda, Dr.Parakrama Ekanayake
- Project - Intelligent Navigation System for Unknown Environment Mapping

This product has been developed with the capability of autonomous exploration & mapping an unknown environment with zero human interaction and this can be further developed to be used in the avenues of disaster relief, search and rescue, underground mining etc.

Second Runner-up – Team Pathfinder

- Team – KasunWeerakoon, SanjayaRupasingha, PathumWithanaarachchi
- Supervisors - Dr. HimalSuraweera, Dr. Roshan Godaliyadda, Dr. Parakrama Ekanayake
- Project - Outdoor Human Navigation with GPS & Sensor System

This project proposes a robust wearable human navigation system for outdoor environments based on GPS, computer vision and inertial navigation techniques. The system can be used to guide visually disabled and elderly people to their desired destinations in an effective manner.