

Delhi Technological University, Delhi
Best Practices (2018-19)

The two Best institutional practices are as follows:

Foundation of Unmanned Aerial System (UAS) LAB:

Founded in 2009, UAS DTU has focused on conducting novel research in the field of unmanned aerial vehicles in order to harness new technologies in the aerospace and defence sector to aid the country in Intelligence, Surveillance, Target Acquisition, and Reconnaissance (ISTAR) and Humanitarian Assistance and Disaster Relief (HADR) scenarios and reduce India's dependencies on COTS products by developing an indigenous solution for UAVs.

Team Capabilities

1. High-performance customized UAS platform integration for mission-specific requirements.
2. UAV swarm technology — Collaborative swarm behavior among UAVs along with Human Detection, Geotagging, and Outdoor GPS Denied Navigation Capabilities.
3. ISTAR - Intelligence, Surveillance, Target Acquisition, and Reconnaissance for military and civilian application.
4. Humanitarian Assistance and Disaster Relief (HADR) using special drones.
5. Autonomous take-off, waypoint navigation and landing for both fixed-wings and multi-rotors, capable of out of sight navigation.
6. Visual-based Simultaneous Localization and Mapping (SLAM) for navigation in indoor GPS Denied areas.
7. Cost and time-effective area search and infrastructure inspection operation by employing swarms of UAV.

2. Activities conducted for promotion of universal Values and Ethics:

Board of Management in its 26th meeting on 8.12.2017 has approved the establishment of Centre for Value based Education at DTU. The role of the centre is to prepare and implement innovative resource material for value education for students, encourage the

students about the benefits of implementing professional ethics in their later life. Centre organizes workshops and STCs to motivate the teachers to use value education, yoga and meditation as a tool in making better citizen.

1. The centre took initiative for the inner well-being of an individual whether being a student, staff or teacher, in the form of expert lecture and periodical sessions with yoga and meditation experts.
2. Weekly meditation sessions being conducted in the campus regularly.
3. MoU has been made with heartfulness Institute for exchange of their faculty for training, research and retreat.
4. One day workshop on "Professional Excellence through Values, Meditation and Self-Management" by Department of Centre for Value Based Education.