

### **Introduction:**

The Unmanned Aerial Vehicle (UAV) also called Unmanned Aircraft System (UAS), popularly known as DRONE, is an airborne system, it is operated remotely by a human operator. UAV is popular for its capability of accessing information from an inaccessible locations, such as forest, agriculture, fire/ flood prone areas. UAV technology has been known for its high potential of the data collection useful to the industries, builders, researchers and scientists. The data products from this airborne system could be used for deriving 3D models of the earth surface, which can then be used as input for applications and analysis. Some of the possible applications are: preparation of buildings and infrastructure in three dimension, corridor mapping of power lines in hilly terrain, maintenance of hardware in high transmission lines and wind mills, construction of roads and highways, 3D modeling, mapping of slums, land survey, thermal audit of a solar plant, volumetric analysis of stockpiles in mining areas, damage assessment using high resolution data. UAV can be quickly deployed for disaster management.

### **CEPT University:**

CEPT University focuses on understanding, designing, planning, constructing and managing human habitats. Its teaching programs build thoughtful professionals and its research programs deepen understanding of human settlements. CEPT University also undertakes advisory projects to further the goal of making habitats more liveable.

The University comprises of five faculties; Faculty of Architecture, Faculty of Planning, Faculty of Technology, Faculty of Design, Faculty of Habitat Management

### **CEPT Research & Development Foundation, (CRDF):**

CEPT Research and Development Foundation (CRDF) has been established by the University to better manage the consulting, contract research & capacity building activities. CRDF is organized under thematic groups (or verticals). Each thematic group is focused on a specific area of study and research.

### **Center for Applied Geomatics (CAG):**

The Centre for Applied Geomatics (CAG), CRDF at CEPT University engages in technology advisory, research, consultancy and capacity building activities. CAG provides thought leadership through developing smart, efficient and sustainable applications of Geomatics to deepen understanding of human habitat. Centre strives to create and project an image of an Indian academic entity that is on the forefront of R&D and capable to deliver both quality and quantity of intellectual properties. This training is offered by Center for Applied Geomatics.

### **Why Training in DRONE/ UAV:**

With drones becoming more and more popular it is important to know and follow the rules and regulations regarding drones, and thus get drone training. Most people that are interested in buying a

drone are not aware of the rules and regulations put in place by the Authority. Going out and flying a drone can be very reckless without the proper training.

### **Training Includes:**

As UAV/Drone Technology continues to grow, a learning on the improving endure, stability and sensing services with respect to the research and more towards the improvement of business, achieve better accuracy, and higher efficiency. Construction, engineering and agriculture are just a few of the industries that have begun to use drones to collect mapping and modelling data. High-quality maps can be produced more quickly and cheaply than with traditional methods, and the demand for drone mapping services is growing rapidly. The training on the UAV concepts and innovations enriches qualified trainees to learn the theory, concepts, and hands-on practical demonstrations covering the drone technology from primary data collection to final outputs in 3-D. Major focus will be on the framework or methodology of carrying out the task and action done over drone surveying techniques, from capturing data using drone to representing it as an informative map using an open source software. Open source software would be used to render and process data. Informative lectures on mission planning depending on various terrain, different data acquisition techniques for 3D mapping. Software handling and rendering the data for making interactive maps and preparation of 3D models.

**Who can Participate:**

The training aims at professionals, industries, technologists, builders, scientists, researchers and the students:

- People with an interest in learning UAV technology
- Have a specific interest in large scale data analyses and preparation of 3-D models geographically
- Wants to establish a career in UAV Technology; build a business
- Prior experience in the use of Geographic Information Systems will be helpful.



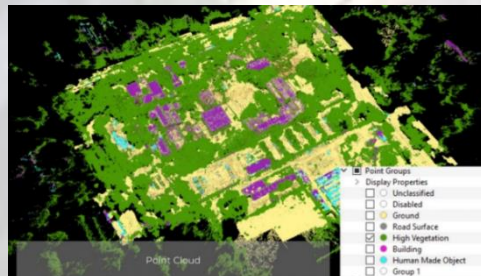
**Registration:**

The last date of registration is February 5, 2019. Admissions are based on first come first serve bases. Total number of seats are 20 only. Please register via the following link: [Click Here](#)

**Fees:** INR 40,000/- + 18 % GST

**Bring your own Laptop:**

Selected Participants need to bring their own laptops with a minimum of 4GB RAM and 30GB free disk space.



**5 DAY TRAINING PROGRAMME  
 ON**

**UNMANNED AERIAL VEHICLE  
 (UAV / DRONE)**



**11 – 15 FEBRUARY, 2019**

**ORGANISED BY:  
 CENTER FOR APPLIED GEOMATICS (CAG),  
 CRDF**

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