



Gandhinagar Institute of Technology

A Report on

“Alumni Talk by Mr Umang Joshi”

(Hands-on session - Drone Technology and Robotics)

(14th February 2020, Friday)

Alumni Talk at a Glance:

- Date: 14-02-2020, Time: 9:15 to 11:15 am, Venue: Seminar Hall-GIT.
- Invited Alumni: Mr. Umang Joshi, young entrepreneur at "Phoenix Aviations".
- Around 90+ students from EE, ME and EC department attended the alumni talk and discussed about drone technology and robotics and job opportunities in this field.
- A hands-on session with Hexacopter was also organized after completion of the expert talk.

Objective of the event:

The objective of the Alumni Talk is to organize interactions with alumni on career opportunities by eminent personalities in their respective domains and to facilitate the alumni and staff who have excelled in performance in their respective fields in order to motivate and guide current students of GIT.

Activities during the event:

Under the banner of Gandhinagar Institute of Technology Alumni Association (GITAA) & SSIP, GIT-EE invited his Alumni Mr. Umang Joshi of batch 2013-2017 for an expert session on “Drone Technology and Robotics”. He is working as an entrepreneur and owns a company named "Phoenix Aviations." He has sound knowledge about Robotics and Drone Technology. He makes different kinds of drones and sell them to different companies.

The expert session was held on 14-02-2020 during 9:15 to 11:15 am at A105. Around 90+ students of 6th and 8th semester of Electrical Engineering, Mechanical Engineering and Electronics and Communication Engineering department participated in this expert talk on drone technology and robotics. Alumni Mr Umang Joshi gave information as how to make and use a quad-copter, hexacopter, octa-copter etc. He explained the working principle and wide applications of drone such as surveillance and aerial photography in different sectors like military, agriculture, factory, media and entertainment etc. He insisted on research in mechanical, electronics, control system and embedded programming for becoming a successful drone expert. He provided detailed information about designing, programming and controlling different parameters like type of the drone, rotor blades, speed of rotor, battery, gyroscope etc with the help of drone mapping and simulation software. He has demonstrated flight controls of one of his drones in GIT campus with remote controlled operation. He has also shown how adjustments are done autonomously by a sophisticated control system on the hexacopter in order to stay perfectly balanced.

Mr Umang Joshi made the students aware about present industry scenario & journey of his career. He guided the students related to what industry expects from them apart from curriculum knowledge. He motivated the students for taking start-up initiative and become a successful

entrepreneur. In his speech, he thanked GIT institute for helping him in achieving his dreams and for constant support during Tech-fest and other events.

Photo Gallery:



Alumni Mr Umang Joshi addressing the audience of alumni talk organized by GITAA



Alumni explaining about working of drone



Alumni explaining the software simulation



Alumni Expert describing a quadcopter



Alumni Expert describing a hexacopter



Students & faculties attending the session



Students asking questions about drone



Alumni expert presenting a live demo of sophisticated controls of hexacopter flight



HOD EE presenting a memento to the
alumni Mr Umang Joshi



GITAA coordinator team with alumni expert