Quad Copter Designed by Electronics and Communication Engineering Students.

The students of Electronics and Communication Department of Global Institutes Amritsar achieved another milestone by building a Quad Copter. This Quad Copter is designed and developed by fourth year students (Vaibhav Singh, Talwinder Singh, Varun Kumar, Rishabh Singh, Pankaj Kumar) under the guidance of Er. Harmandeep Singh Sangha Assistant Professor in ECE department. It has four arms and four pitch propellers set in a particular configuration. The major components used are Brushless Motors, Fiber made Propellers, Electronic Speed Controller, Gyro etc. The students focused more on the stability and achievable height of this Quad copter. They worked day and night and came up with a Quad Copter which is very much stable and can reach up to a height of 600 meters. This Quad copter not only proved its stability and height but also have a remarkable lifting power. It can lift up to 1.5 KG weight and fly easily. Its amazing maneuverability and the ease to fly in constricted locations can achieve itself a remarkable position in the aviation sector. It is the result of effective teaching in the department which increased the capability to design such type of projects that are possible only if the basic concepts and use of accelerometer sensor, microcontrollers, and wireless communication are known to students. According to students this Quad copter can be used for Search and Rescue, Code enforcement/Inspection, Emergency Management and Minor Industrial lifting. The Quad copter had its successful test flight in the Global Institute Campus. Students are very happy and thankful to the Management of Global Institutes for the funds and providing all the necessary resources.