

## List of Research Equipments available in Computer Applications Department

### Automatic Accident Detection Tool as an On-Board Unit of a vehicle in Vehicular Ad-hoc Networks

<b>Department Name</b>	Computer Applications
<b>Equipment Name and Specifications</b>	Motion Sensor – 5 meter range Vibration Sensor - 50g range MPU6050 – Gyroscope - + or – 8g Range GSM - 850 MHz to 900 MHz GPRS - 200 kHz Arduino UNO R3 - 7 to 12 V input voltage, 14 Digital IO Pins
<b>Function</b>	The designed system detects nearby objects of the vehicles, measures fluctuating accelerations, detects rotational velocity and from all these inputs, the function incorporated in Arduino undergoes computation and based on that result, designed system sends a safety message with its current location if any abnormal things happen to the vehicle.
<b>Photo</b>	