



SUPPORTING DOCUMENTS

NAAC AQAR: 2020-21

3.2.1

Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Attachment: Supporting documents

Centre of Excellence

ABB Industrial Automation

Robotics and Automation

Texas Instruments

GeoSpatial Technology Centre

Close

ABB Industrial Automation Centre



The global industries is becoming increasingly competitive as the dynamic nature of the present day market demands a high level of automation and flexibility to address the changes in demand and so the demand for industrial automation is emerging. Industrial automation plays a vital role in the field of Electrical Engineering.

Automation is basically the delegation of human control function to technical equipment. It is the use of control systems such as computers, PLCs, Microcontrollers to control machinery and processes to reduce the need for human sensory and mental requirements as well.

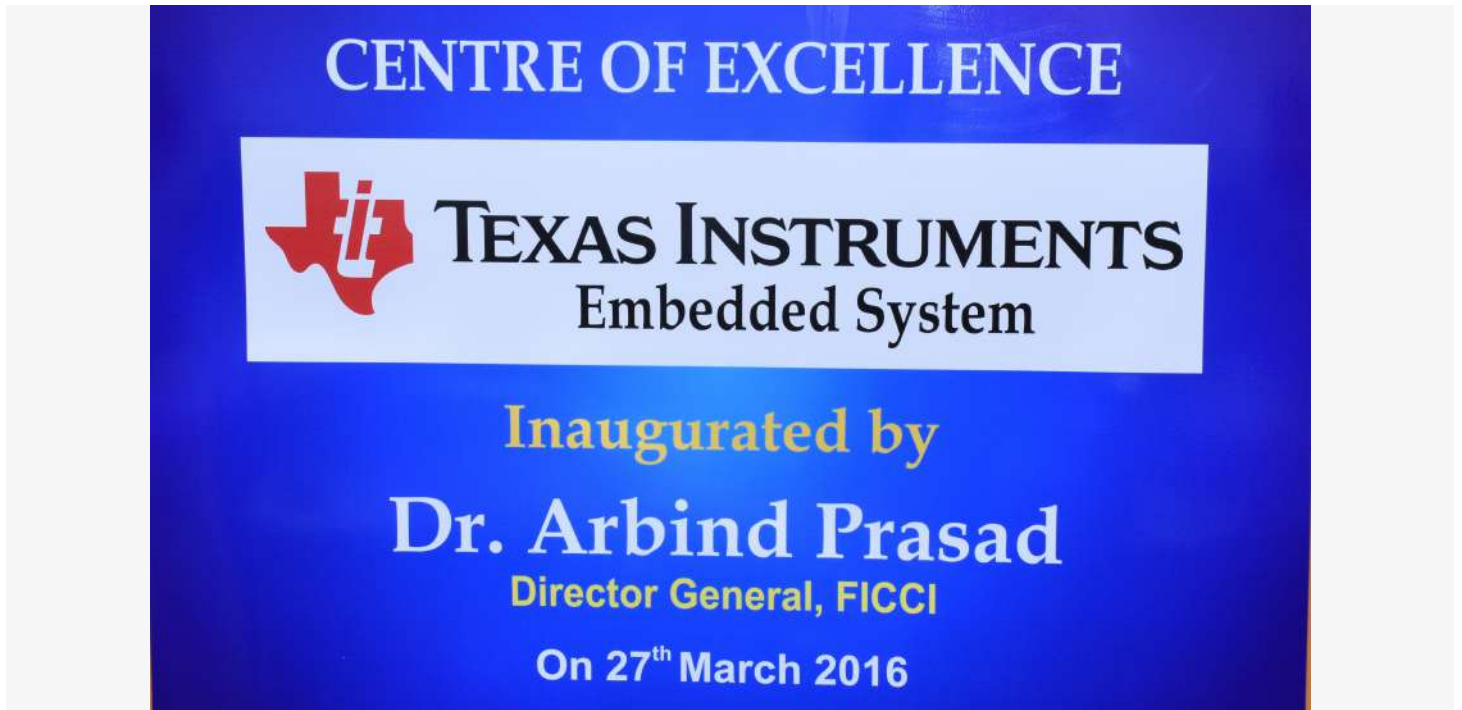
Industrial Automation i.e. to "Automated Industry" is the basic need of almost every type of manufacturing and production unit today. Food/Beverage, Metal, Mining, Power, Textile, Petrochemical, Machine Manufacturing, Automobile etc are the few examples where we see the automation today.

In order to meet the demand of modern industries in terms of skilled technocrats and well trained engineers "ABB Industrial Automation Centre" is established in the Department of Electrical and Electronics Engineering.

The main aim of this centre is to bridge the gap between the expectation of modern industries and the knowledge of our graduates. The centre will help to make the aspiring engineers acquainted with the conceptual as well as practical knowledge of the Industrial Automation & latest technologies being used to achieve industrial automation.



Texas Instruments Embedded System



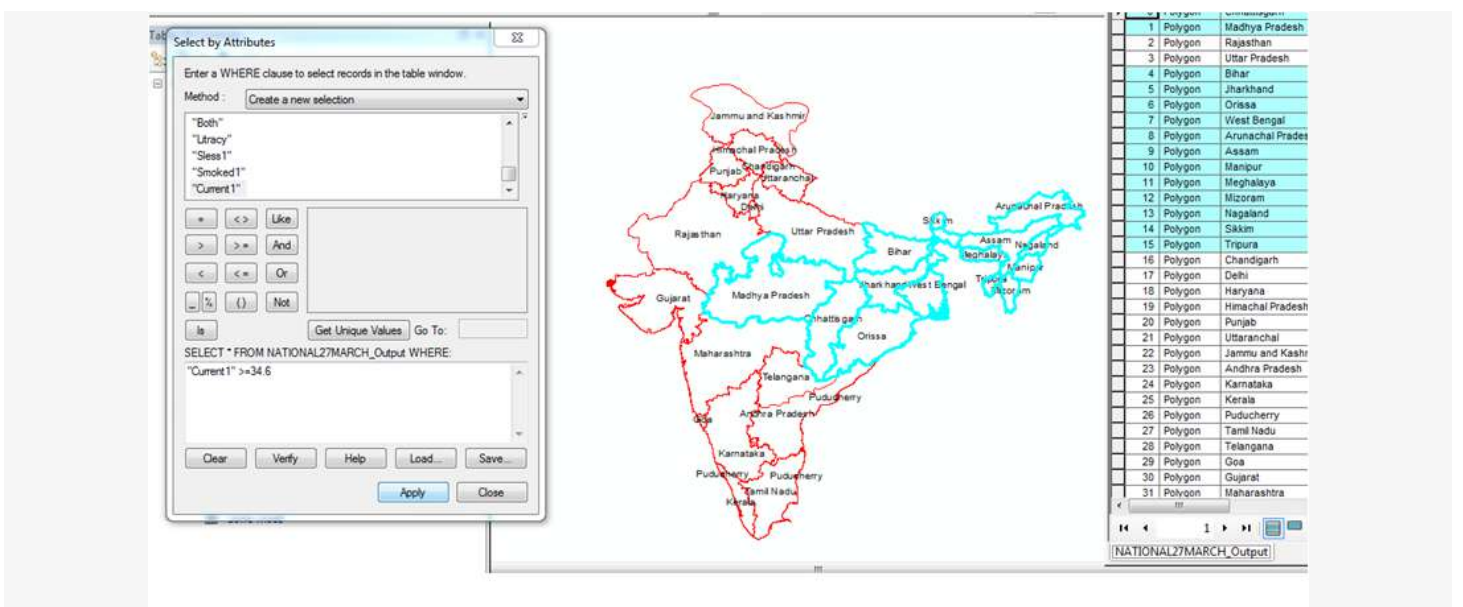
With the aim of providing research and development facilities to the faculty and students as well as to encourage generation of new ideas, a centre of excellence with Texas Instruments of USA was established in 2016. This centre has been equipped with advanced Microcontrollers such as MSP 430 G2553, MSP 430 F5529, TIVA, EZ430, CC3200 wireless Internet of things (IOT), EZ 430 Solar harvesting launch pads etc to provide industrial training so that student can learn and develop projects on Embedded Systems. A successful summer training program has been conducted by Department of ECE from 7th June to 1st July 2016 for 3rd year student. After completing the summer training program successfully student has developed two projects that is IOT based home automation and automatic attendance monitoring system. Texas instruments centre of excellence is very helpful for the Electronics and Communication engineering students which provide platform for the student to develop and learn new projects as per the industrial requirements. The next summer training program is proposed by the department in the month of June 2017.



GeoSpatial Technology Centre



GeoSpatial technology is considered to be a vertical technology where its applications are enormous which can be viewed as an integration of its components like GIS, Remote Sensing and GPS. IMS Engineering College has taken the initiative to take part in the capacity building program on this technology offered by IIRS-ISRO. Since its inception of the centre at IMS Engineering College, many of the students have developed various applications and have won national level prizes. Government is also encouraging the technical institutions to proactively take part in the capacity building program on GeoSpatial Technology and encouraging students to utilize the satellite data which is available in public domain.



Centre of Excellence

ABB Industrial Automation

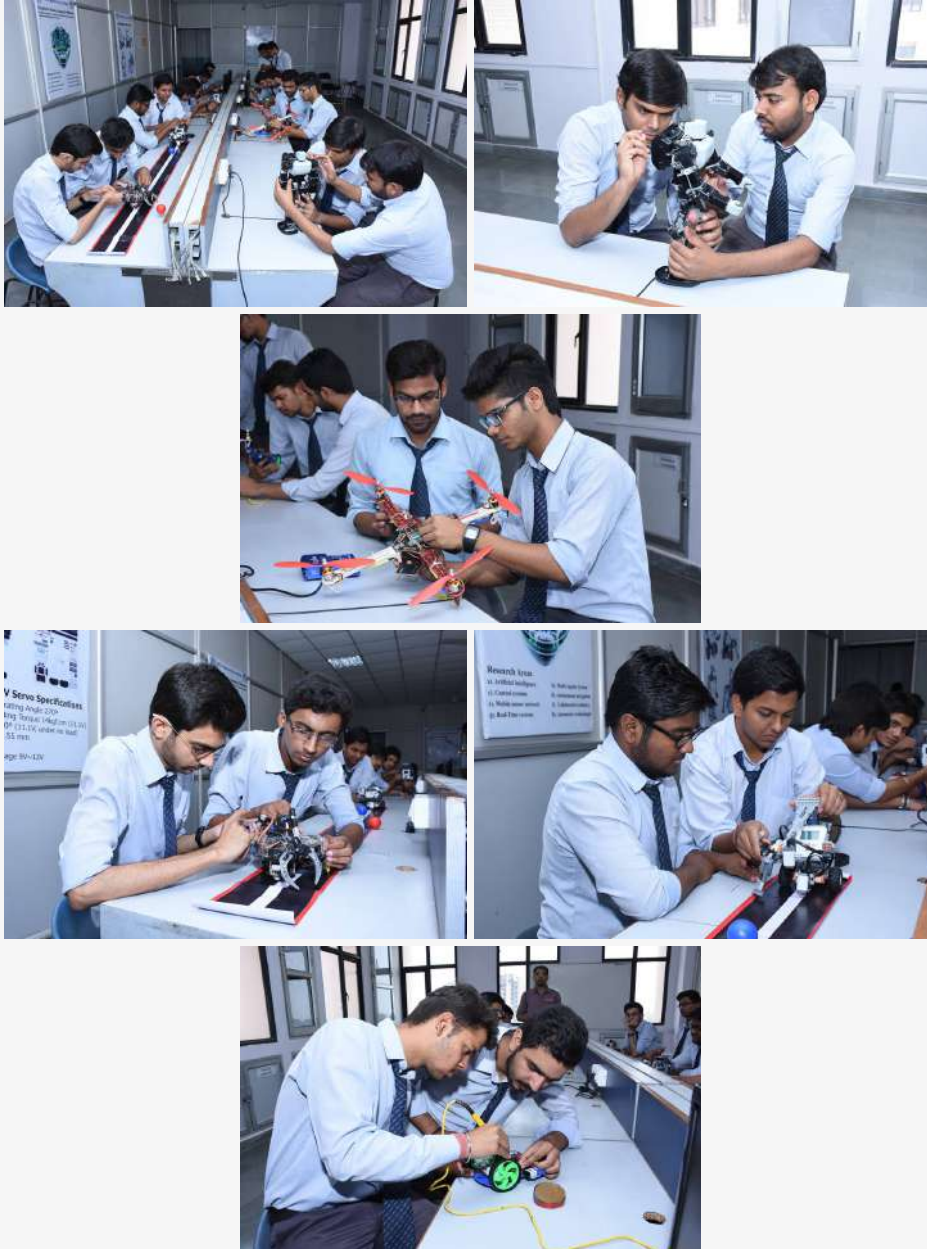
Robotics and Automation

Texas Instruments

GeoSpatial Technology Centre

Close

Robotics and Automation



A workshop on Robotics was held in the department on 11th, 12th and 18th April. It was conducted by Mechanical Department. The same was very much informative and helpful for future scope of research. All faculty members attended the workshop. It provided exposure to all faculty members/students to be familiar with recent trend in robotics technology and rapidly changing scenario of the world.

IMS Engineering College, Ghaziabad

Research and Development Cell

New Research proposals to be submitted in various funding agencies in current academic session

S.No.	Department	Title of the Project	Faculty	Target Funding Agency	Estimated proposed budget	Status as on 31.08.2020
1	BT	Studies on Removal of Emerging Contaminants from Industrial waste water	Dr. Narendra Kumar	Environmental Research Programme (ERP), MoEF	Under preparation	Writing the project proposal
2	IT	Natural Resource Management(assessment and management) using remote sensing data	Dr. SN Rajan	SERB and DST	8,50,000/-	Writing the project proposal, planning to submit in September 2020
3		Plant disease detection using image processing and data analytics	Dr. Avdhesh Gupta	SeRB and DST	Approx 4,50,000/-	Writing the project proposal, planning to submit in September 2020
4		3-D modelling from blurred 2-D image	Dr. Avdhesh Gupta	SERB and DST	Approx 6,50,000/-	Writing the project proposal, planning to submit in September 2020
5	MBA	Corporate Social Responsibility after covid-19	Dr. Monica Verma	AICTE	10 Lakhs + Laptop	Writing the project proposal



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Portfolio

The portfolio of the startups with detail of their ongoing project is attached here.

SI No.	Name of Project	Name of Incubatee
1	Spayee Digital Learning Platform	Sandeep Singh
2	Open IoT Connector	Prakhar Bansal
3	Self Powered Smart Dustbin on GPRS and Cloud Connectivity	Anurag Gupta
4	Chemical Sensor for detection of adulterants in Milk	Dr. Savita Chaurasia
5	ELISA Kit for research uses	Sunny Kumar Jadoon
6	Probus: Multi utility Smart Device	Anand Mohan Singh

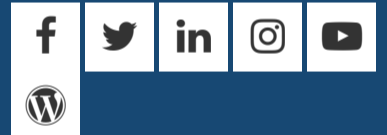
QUICK LINKS

QUICK LINKS

FEST @ IMSEC

GUIDELINES FOR ANTI
RAGGING

STAY CONNECTED



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Near Dasna, Distt:
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0120-494 0000
imsec@imsec.ac.in

IMSEC SPORTS

> [Sports](#)

A brilliant inauguration of "Technovation-2019" took place at IMS Engineering College, Ghaziabad. The main goal of the two-day Technical Fest is to provide a platform to enhance the creative, inventive and technical skills of emerging engineering students. In "Technovation-2019", students of various departments of IMS Engineering College displayed more than 90 live projects.

These projects based on new technology are related to the solution of problems related to army, defense research, environment, agriculture, education, public life and its security, medicine and health. 26 projects were presented by the Department of Computer Science and IT, of which the "Eagle Eye Detection System" impressed the audience. The project is equipped with state-of-the-art technology such as live video surveillance, GPS, face recognition along with providing vision (vision) to the drone. In addition, "Intelligent Companion" "Coin Counting and Teller Machine", "Bionic Blink to the Future," "3D Printer" introduced the audience to future technology.

The Technical fest was inaugurated by Chief Guest Mr. V.K. Jaiswal, Executive Director, Ram Piston and Mr. Vinod Sharma, Managing Director, Deki Electronics. On this occasion, they congratulated the participants for new and innovative projects and IMS for such program. In his address, Mr. V.K. Jaiswal urged the students to create practical and inexpensive innovative projects that would help in raising the standard of living of the general public. More than 500 students of various schools of Ghaziabad like G.D. Goenka, DPS HIRT, DAV Public School, Sanvalli, Ingram School, Uttam Girls School, DPS International Dasna, Ryan International, KDB Public School, DDPS Sanjay Nagar, MIT Meerut etc. have visited IMS Engineering College to be part of this mega technical event. The Technical fest will conclude tomorrow. The guest of the ceremony will be Mr. Kunal Kishore, Head, Automation, British Telecom and Mr. Arun Gupta, CEO, MoMagic Pvt. Ltd., who will award the selected projects from various departments.

