

About the Institute

GIDC Degree Engineering College (GDEC) at village Abrama, Taluka-Jalalpore, District-Navsari, is a joint venture of Government of Gujarat & Gujarat Industrial Development Corporation (GIDC), Gandhinagar under Public Private Partnership (PPP) scheme. The institute was established in 2012 and is managed by GIDC Education Society, Gandhinagar. The institute offers UG courses in Mechanical, Civil, Automobile, Computer and Electrical branch. The institute is approved by AICTE, New Delhi and affiliated to GTU, Ahmedabad. The mission of the institute is to endow with technical education at the UG levels to enrich the people of the country in present technical scenario. The vision of the institute is to grow as a premier education and research institute in the field of engineering with global view point and serving with world class standards conferring excellence to the engineering products through dedicated and competent engineers.

About the Department

Mission

To produce most competent engineers with learning facilities comparable to world class standards designing and manufacturing of modern fuel efficient, aerodynamic and eco-friendly automobile systems through innovative ideas and practices.

Our automobiles run the world. This modern-day world requires competent engineers to fuel the change occurring in the industry. Today's man cannot live without the luxury provided to him by technology. As engineers we know that luxury comes with a price, the price of depletion of fossil fuel. It is our duty to conserve this energy and save our planet. Automobile Engineers will lead the way of change by creating vehicles for tomorrow. As a part of this team we are proud to say our students will be able to implement their knowledge to fuel the vehicles without harming the atmosphere. Automobile industry is not only affluent but has a bright future too. There is a world of job opportunities in the automobile realm.

The department consists of a well-equipped labs like Automobile Engine Lab (Engine Performance and Emission Testing), Automobile system lab, Vehicle Performance Testing and Maintenance Lab, Computer Aided

Engineering Lab, Physics Lab, Automotive Control System lab, Fuels and Engine Tribology Lab, Automobile Design Lab, Light duty vehicles lab, Automobile Workshop and the software packages available in the department include Auto-CAD, Creo, Solidworks, ANSYS,.., etc for the faculties and aspiring students to pursue their research and project work. Frequent industrial visits to renowned industries, conducting guest lecturers and quiz programs, Conducting Automobile modeling workshops for development of designing skills, arranging various in-plant training to get more practical knowledge are one of the key activities which are provided for our young automobile students.

About SAEINDIA

GIDC Degree Engineering College, Navsari has been recognized as a SAEINDIA Collegiate Club for Academic Year 2017-2018 with 51 students and 8 Faculties as the members of this club. SAEINDIA GDEC Collegiate Club was started with 67 student members and 6 faculty members since 2014. It includes students and faculties of Automobile and Mechanical Engineering Disciplines.

SAEINDIA is one of the few professional engineering societies whose membership represents practically every engineering and scientific discipline. Its members combine their specialized abilities to further advance the research, development, design, manufacture and utilization of vehicles which operate on land and water and in air and space.

SAEINDIA collegiate Clubs offer student members organized programs, design competition, networking opportunities with Industry leaders and leadership experience.

Students will hopefully participate in various National Level Competitions like SAE BAJA, SUPRA SAEINDIA, and EFFI-CYCLE and many more National and International Competitions.

Registration Details

For Registration Kindly visit <http://www.gdec.in>

Registration Fees for SAE members ₹150/- (Including Lunch)

Registration Fees for Non SAE members ₹200/- (Including Lunch)

Certificate will be provided to participants.

About the Programme

Sensors: Introduction of sensors and transducers, Electromagnetic Sensors, Optical sensors, variable resistance type sensors, temperature sensors, Pressure sensors, variable capacitance sensors, Flow sensors, Piezoelectric sensors, Oxygen Sensor, Practical Importance of sensors.

Actuators: Introduction of Actuators, Actuators operation, Injectors, Exhaust gas recirculation actuators, motors, Solenoids, ABS actuators.

Diagnostic tools, equipments and techniques: Diagnostic tools that connect to ECM, Digital Multi-meter, Oscilloscope, Circuit testing, Ignition system tests, Fault and error Codes, OBD II (On board diagnostic-II)

Organizing committee

Patron

Dr. K. N. Mistry
Principal, GIDC Degree Engineering College, Abrama
Dean, Faculty of Engineering,
Gujarat Technological University, Ahmedabad

Convener

Prof. Toral V. Patel
Head
Automobile Engineering Department,
GIDC Degree Engineering College, Abrama

SAE Faculty Advisor

Prof. Ashish O. Jain
Prof. Ankit K. Patel
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GIDC Degree Engineering College Abrama, Navsari (Gujarat)



One Day Workshop

on

"Sensors, Actuators and OBD-II"

By

Prof. Pratik Umrigar,

Mechanical-Automobile Department,
CGPIT, Bardoli - Surat.

Date: 05/04/2018

Supported by

SAEINDIA

Organized by

Automobile Engineering Department
GIDC Degree Engineering College
Abrama, Navsari

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