



TECHNO INDIA NJR INSTITUTE OF TECHNOLOGY

Approved by AICTE and Affiliated to Rajasthan Technical University

MISSION PLACEMENT 2020

Electronics & Communication / Electrical & Electronics / Electrical Engineering

A Powerful International Certification for jobs in 2020 and beyond

B.Tech [ECE/EEE/EE] +

International Specialization / Certification

by



in

IoT & SMART CITY

[Millions of opportunities by 2020 & beyond]



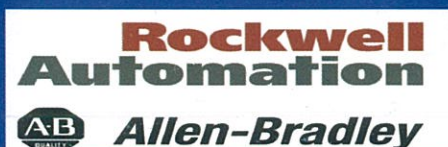
in

Advanced Embedded Systems



in

Embedded Systems Design



in

Automation

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With 34 Billion devices connected on earth in 2020 , millions of jobs will be there for ECE/EEE/EE. India alone will see an IoT revenue of \$ 101 Billion and 350k (+5%) IoT jobs over the next 4 years.

**Electronics & Communication
Electrical & Electronics
Electrical Engineering**

Syllabus focused on 2020

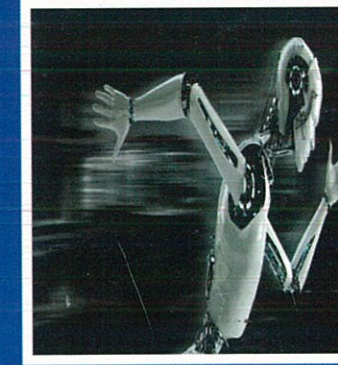
Work Culture 24/7

**Q. Why select EC/EEE/EE of Techno NJR?
A. Only at Techno NJR students learn from First Year itself**

- . Industry oriented design experiments
- . ARM architecture based experiments
- . System designing with simulation softwares
- . Functions in MATLAB, 3 D plots in MATLAB
- . Experiments more detailed than experiments of many national & International level institutes
- . New laboratories/ Experiments based on future technologies

Projects by first year students:

Smart Car ,Amplifiers , ARM mbed, Piezoelectric renewable energy design, Accelerometer based design, Linear power supply design .



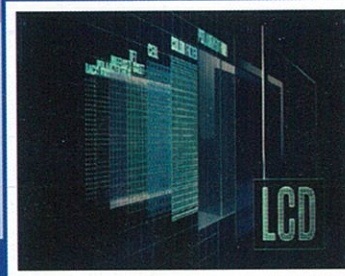
“ The Internet of Things promises to bring every object, consumer and activity into the digital realm.”

Paul Daugherty , Accenture CTO

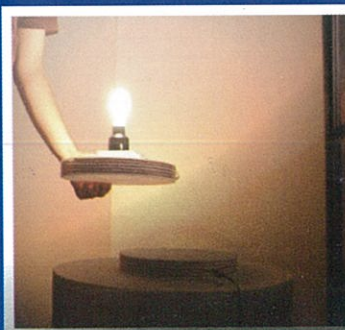
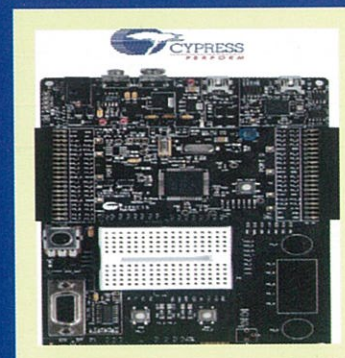
By 2020 and beyond, ECE/EEE/EE engineers will be most required as the world will start living with electronics every where and every moment.



ECE/EEE/EE Graduates of 2020 will be trained in



**Internet of Things
Smart Sensors
Embedded Systems
Web of Things
Advanced VLSI Design
Smart City
Smart Grids & Meters
Wireless Power Transfer
Automation & Robotics
Hybrid Electric Vehicle
Cloud Computing**



Q. What will be the business volume in Electronics by 2020?

A. As per prediction by Top MNCs (in Trillions of Dollars)

Deloitte	\$7 T	Gartner	\$7 T
IDC	\$7 T	AT& T	\$6 T

Q. What will be the major job sectors in future?

A. Major Job sectors for ECE/EEE/EE will be

- Energy & Utilities
- Health care
- Home Care
- Transportation
- Manufacturing
- Renewable Energy
- Business Transformation

Techno NJR is ready for 2020

- 40 advanced sensors for IoT
- Manipulator arms & humanoid robots
- Multi Domain Scopes for Advance embedded design & IoT
- Advance System on Chip boards
- Advance ARM mbed Boards
- Bluetooth low energy boards for IoT
- Wireless Sensor Network for IoT
- Multi core hardware and software for parallel programming
- Advance interface cards for automation
- ARM Software worth Rs 1 crore
- Cypress boards for IoT
- Advance Power supply boards

ENABLING THE NEXT GENERATION CONNECTED CAR

Delivering High Performance: 100Mbps Ethernet, Bluetooth and WiFi Connectivity

Dramatically Reduces Connectivity Cost and Cabling Weight

Numbers tell our true Strength

23 Research Papers

4 Students studying Abroad

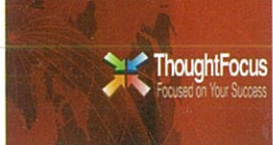
HiTech Instruments / Advance Software worth Rs 2 crores

11 University Rankers

Best Results (88% - 92%)

PLACEMENTS

All Past Students Placed



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Mission Placement 2020

Students taking admission in Engineering Degree this year will be looking for a job in 2020. Most colleges make a mistake in training students for today's job profiles whereas these students will look for jobs in 2020 when market requirement would have changed.

We, at Techno NJR, constantly keep track of new technological developments and prepare students for the requirements of future. Therefore, Techno NJR will train students in specialisation courses along with B.Tech from Rajasthan Technical University.

B.Tech. (Mechanical Engineering) with Specialisation

- A. Computer Aided Design & Computer Aided Manufacturing (CAD/CAM)
- B. Mechatronics & Robotics

B.Tech (Civil Engineering) with Specialisation

- A. Construction Technology
- B. Infrastructure Management

Engineering 2020

Engineering is no more an engineering design, production and operations of modern Mechanical Engineering involves CAD, Automation, Robotics, Software Analysis and Design, Computer Aided Design using CNC machines and so on. In a B.Tech degree in Mechanical Engineering without specialised knowledge will not get a job in modern factories and industries. Therefore, Techno NJR will train two specialisation courses along with Mechanical Engineering:



3D Printer



Products made by CNC Machine

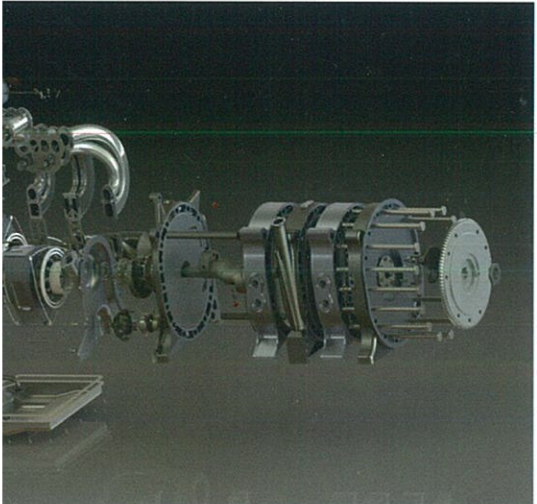


3D Printed Gear



CNC Machine

Electronics & Robotics.



A. CAD/CAM: Very important aspect of modern product development process is use of Computer Aided Design (CAD) and Computer Aided Manufacturing (CAM) where computer softwares like AutoCAD, Inventor Fusion, Ansys are used for designing products and CNC machines and Computer softwares like Siemens and Fanuc Simulators, Cut Viewer are used to manufacture products. Techno NJR is well equipped with such Softwares and CNC machines, 3D printer for in-house training of students in these areas. For advance training in this field students are sent to Indo German Tool Room (IGTR).

Electronics & Robotics: As Indian economy grows, automation in manufacturing will become a must for companies to stay competitive in terms of quality and safety. Most of the new plants of companies like Maruti, Tata, and Mahindra use hundreds of robots by companies like KUKA, ABB, Yaskawa for manufacturing tasks which require repeatability and precision. Techno NJR offers certification in Robotics from world top companies like KUKA and Yaskawa along with AKGEC and Axis Global.



Industrial Robotics



Mechatronics

Civil Engineering 2020

As India rapidly advances to become a developed nation, huge investments will be made in infrastructure development like highways, flyovers, dams, airports, railways, tunnels, urban planning, public utility buildings, metro rail, disaster management (storm water drainage, earthquake resistant structures), housing for all, communication and power distribution infrastructure etc. This will require civil engineers to be trained in areas that will help them in executing such large projects in time bound and cost effective manner. Therefore, Techno NJR will train students in two specialisation courses along with B.Tech in Civil Engineering :

- A. Construction Technology
- B. Infrastructure Management



B. Infrastructure Management: This specialisation will train students in legal/commercial aspects, management of big infrastructure projects, bidding, tendering, contracting and use of GIS/GPS survey techniques for mega project planning. Students also learn to use project management softwares to work in large teams to effectively execute the project. These students will be trained to get a job as Graduate Engineer Trainee in big construction companies like L&T, HCC, Shapoorji etc working on infrastructure projects of national importance. Advanced training will be imparted in partnership with Samvit School of Infrastructure Business, Pune.

Layout Floor Plan



3D Printed House



Accucraft i250D
3D Printer

3D Printed
Model house
in ABS/PLA



Elevation in 3D Model



Total Station Plot/Land Survey



A. Construction Technology: Students will learn about modern construction techniques, new construction equipment used in big construction projects, software used in planning, analysis and design of structures, like AutoCAD, 3ds max, Revit, Ansys, land survey and site layout using Total Station, quality control and monitoring. This will help students in getting jobs with large civil companies in structural design, site supervision and project management. This will also make students confident in starting their own construction companies.



PLACEMENTS



V R Developers

Shreyans Builders

White Peacock Interiors



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