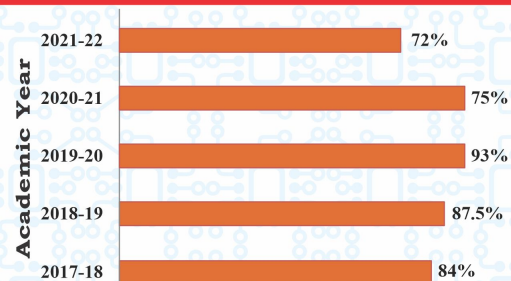


## Placement Statistics

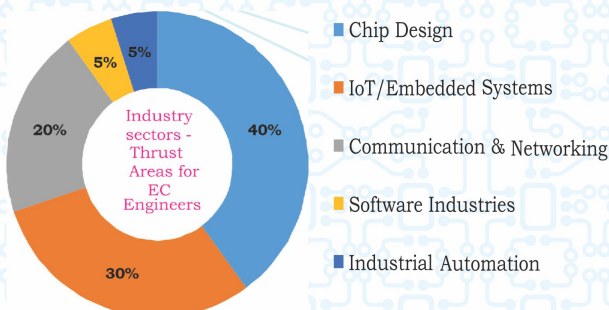


Placement (%)

## Major Recruiters



## Job Sectors for EC Engineers



## Student Activities



## Project Based Learning



## Research Collaboration

To initiate and foster research in Space Technology, Charusat Space Research and Technology Center (CSRTC) has been established which is a sister branch of Electronics and Communication Engineering, CHARUSAT. CSRTC has collaborations with leading agencies of India.



## Faculty Strength

Designation	Human Resources	Designation	Human Resources
Professor	2	Assistant Professor	12
Associate Professor	8	Lab Technician	4



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**CHARUSAT**  
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY  
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**CENTER OF EXCELLENCE**  
GOVT. OF GUJARAT



# EC

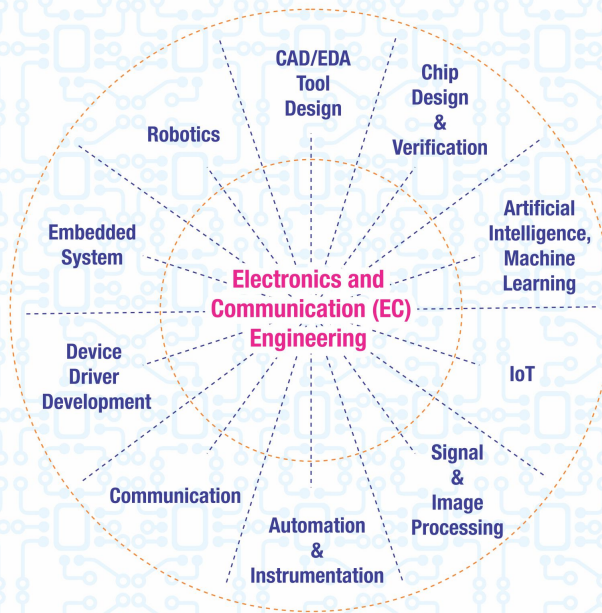
(Electronics and Communication Engineering)

Bachelor of Technology

Minor Specialization : Robotics and Internet of Things



## EC Engineering Domains



### Alumnus Testimonial



Practical exposure of current technologies is what fascinates students and needed by industrial stakeholders. I thank CHARUSAT for providing it along with holistic development of student through co-curricular and extra-curricular activities.

**Keval Kapadia**  
B.Tech EC (2014)  
Software Engineer at MathWorks, USA

## Laboratory Facilities

The department is enriched with 14 hi-tech software and hardware laboratories where students can develop their logic and real time hardware to meet the industry expectations.



### Robotics Laboratory

Department has an excellent robotics laboratory. Various application based robots are available such as Fire bird V, Humanoid robot and Quad copter. Students get motivated to explore various applications on robotics platform.

### Simulation Lab

The Department has six dedicated computer laboratories having high configuration PCs. Department has software such as Cadence, HFSS, MATLAB, Keil, Proteus, CST, Xilinx.



### Antenna and Microwave Laboratory

The Antenna and Microwave Research lab is focused on applied electromagnetics with emphasis on antenna-based front-end subsystems.



### Fabrication and Measurement Laboratory

The lab houses an Anechoic chamber, Vector Network Analyzer and fabrication machine to carry out antenna fabrication along with measurement of antenna characteristics.

## Professional Activities



## Industry Oriented Curriculum

### Choice Based Credit System (CBCS)

The CBCS provides opportunities for students to select courses from other branches as per the interest. These preferences ensure flexibility in learning process. CBCS offers core courses and electives in form of program elective, institute elective, cluster elective and university elective courses to enrich the freedom of courses selection.

#### CORE COURSES

- **Semiconductor Domain**
  - VLSI Design
  - Verilog and System Verilog Programming
  - Pearl Scripting language
- **Embedded Domain**
  - Embedded System
  - Embedded Linux
  - Python Programming
- **Programming Domain**
  - MATLAB Programming
  - C and C++ Programming
  - Arduino Programming
- **Communication Domain**
  - Digital Signal Processing
  - Image and Video Processing
  - Mobile and Satellite Communication
  - RF and Microwave Engineering
  - Digital Communication
  - Data Communication and Networking

#### ELECTIVE COURSES

- **Programming Domain**
  - Machine Learning
  - Artificial Intelligence
  - Cloud Computing
  - Java Programming
  - Internet of Things (IoT)
  - Cyber Security
  - Web Designing
  - Mobile Application Development
- **Management Domain**
  - Project Management
  - Human Value and Professional Ethics
  - Critical Thinking and logic
  - Creativity, Problem Solving and Innovation
  - Ethics in Engineering Practice

### Alumnus Testimonial



Positive mindset, ethics, analytical & technical skills are needed to advance in one's career. Curriculum and Teaching pedagogy of CHARUSAT is such that it gives all of these flavors in a balanced manner.

**Vyom Nagrani**  
B.Tech EC (2006)  
Director, Product Management at Oracle USA

## Endowment Activities



**Dr. Arokiaswami Alphones**  
Nanyang Technological University (NTU), Singapore



**Dr. Merih Palandoken**  
Izmir Katip Celebi University, Turkey



**Dr. Levent Sevgi**  
University of OKAN, Turkey



**Dr. Cynthia Furse**  
University of Utah, USA



**Dr. Emil Bjornson**  
KTH Royal Institute of Technology, Sweden



**Dr. Truong Khang Nguyen**  
Ton Duc Thang University, Vietnam