ME-Electronics and Communication Engineering

Department of

Electronics and Communication Engineering - Master of Engineering Program

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

The department of ECE at CU fulfils the requirement of acquisition of various skills by well-designed curriculum considering global problems through the practical training, project work, industrial visits, guest lectures and exposure to various ECE simulation softwares and hardwares. The doctorate, well-experienced and dedicated faculty as well as supporting staff are tirelessly giving quality of education through effective teaching learning process.

FULL TIME PROGRAMS

MASTERS IN ELECTRONICS & COMMUNICATION ENGINEERING:

SPECIALIZATION

- **Communication Systems** • **VLSI Design & Nanotechnology**

Eligibility Criteria:

B.Sc. (Engg.)/ B.Tech./B.E. Degree/ M.Sc. (Electronics) or equivalent examination in B.E./B.Tech. in Electronics & Comm. Engg./ Electronics Engg./ Computer Science & Engg./Electrical & Electronics Engg./ Electrical Engg./ Instrumentation Engg. with at least 55% marks in aggregate or equivalent CGPA Or M.Sc. in Electronics Science / Electronics/Physics with specialization in Electronics with at least 55% marks in aggregate or equivalent CGPA

Duration: 2 years

INTEGRATED & PHD PROGRAMS

❖ **Integrated Ph.D 5 year Program after B.E./B.Tech (Admission will be made through GATE/ CU Test)**

❖ **Ph.D Program in ECE (Regular and Part Time)**

Teaching Assistantship (T.A.)

University paid research/teaching assistantship to meritorious students or GATE qualified students of Master of Engineering Programs & Ph.D Integrated program. Teaching Load of 10 – 12 hours per week to be allotted.
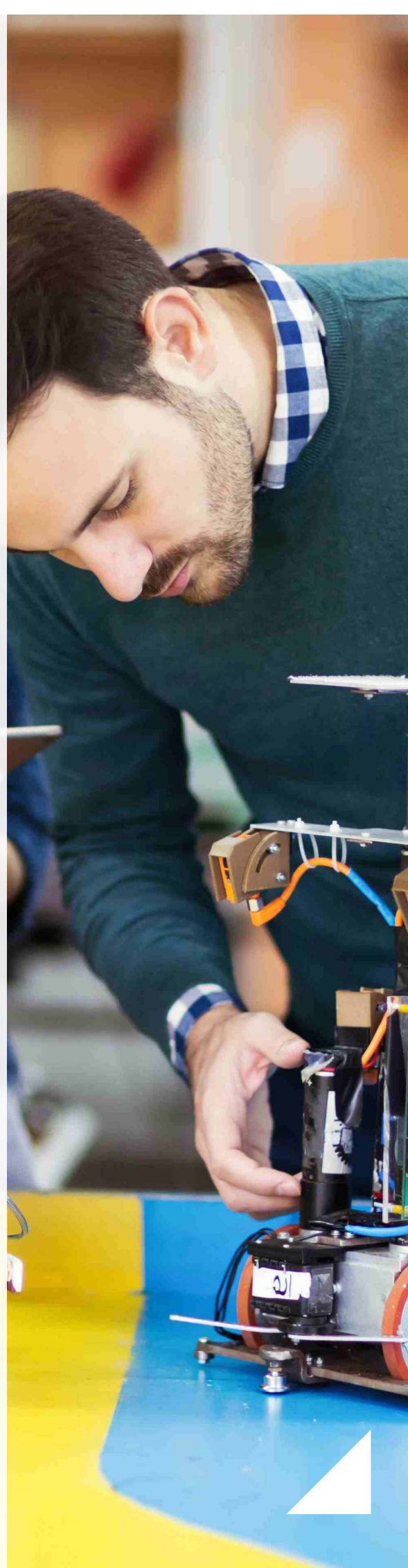
For candidates who secure more than 7.5 CGPA in 1st Year.

2nd yr	3rd yr
@ Rs. 12000 per month	@ Rs. 16000 per month
4th yr	5th yr
@ Rs. 20000 per month	@ Rs. 24000 per month

HOW WE NOURISH
STUDENTS' KNOWLEDGE?

○ Industry-oriented Flexible and Choice Based Learning Approach with Futuristic & Globally Compatible Academics which includes core as well as advance practical based subjects.

○ Hands on learning through State of Art & Industry Sponsored Laboratories which includes Intel - IOT & Intelligent System, Videocon Connect Advanced Communication, Wipro: IT & Multimedia, Truechip System Verification IP, Texas Instruments Innovation Lab, Uipath Robotics Process Automation, Virtual Labs-IIT.

○ Option for students to get nano degree or certification through various MOOCs like FOSS, Microsoft LaaS, UiPath RPS, UDEMY, Swayam, NPTEL etc. included as a part of curriculum.

○ World Global tech such as **Ansys, Analog Devices, Synopsys India, Cypress Semiconductor, Samsung R & D India, Intel, Mentor Graphics, Nokia Networks India Pvt Ltd, Ericsson, Truechip, Orange India, Vivo, Google, Amazon, Microsoft, Deloitte, Cognizant, Cognizant, Wipro, Aricent, HCL** and many more recruit CU Students. More than 150 companies for on campus placements in a year for ECE students and strong 1575 (Bachelor) +350 (Masters and PhD) Alumni's placed in top notch MNCs.

○ Exposure of National & International conferences/ workshop/symposium. Till date more than **860 (350 + SCI/SCOPUS indexed journals)** research publications in reputed journals and **100 patents** are credited under ECE department.

○ 25 Doctorate and other Renowned faculty with rich academic and industry credentials.

○ DST granted projects of worth 66 Lakhs to ECE Department.

IN-DEPTH FOCUS ON RESEARCH AND INNOVATION

RESEARCH PUBLICATION
(Master Students)

860+
Research Paper Published

STARTUPS
18+

CORE RESEARCH GROUPS
35+

PATENTS FILED
100

INDUSTRY ESTABLISHED RESEARCH LABS
30+

RECORD-BREAKING PLACEMENTS

550+
PLACEMENTS OFFERED

100+
COMPANIES

30.25LPA
ENGINEERING
Highest Package Offered

RESEARCH FACILITIES

- Xilinx ISE system edition 13.4
- Xilinx Vivado
- Cadence University UG Bundle
- OptiSystem 13.x
- QualNet 6.1
- Software Flow Code V4 (for PIC, AVR, ARM, DsPIC)
- Zigbee Training Module
- Mobile Phone Communication Training Module
- Matlab-2020 (Full Version)
- ESA-L 9 KHz-1.5 GHz Spectrum Analyzer (Agilent)
- AGMATEL DMM (High resistance Desktop model)
- FESEM
- HR-XRD
- COMSOL Multi-Physics
- Microstrip RF Trainer Kit
- Optical Splicer

UiPath

TruEchip
The Verification IP Specialist

intel FICE

VIDEOCON TELECOM

TEXAS INSTRUMENTS

OUR RESEARCH GROUPS

COMMUNICATION TECHNOLOGIES & SYSTEM

- Mobile,Wireless Network & Applications
- 4G/5G Communication and Network
- Wireless Sensor Netwok & Ad HOC Networks
- Security in Mobile and Wireless
- UWB Communication
- Cognitive Radio
- Reconfigurable Communication System

RF, MICROWAVE & WEARABLE TECHNOLOGY

- Computational method in Electromagnetic Theory
- RF & Antenna Design, Mobile and Vehicular Antennas
- RFID Antennas and Systems, Broadband/ Ultra-Wideband Antennas
- Microwave /MM-Wave/THz Circuits and Systems
- Implantable & Wearable Antennas

AUTOMATION & ROBOTICS

- Networked Real-time Embedded System
- Robot Learning with Machine Learning Techniques
- Algorithms for Planning and Control Robot Motion
- IOT & Cloud of things Architecture
- Embedded Sensing and Computing
- Robot Sensors and Sensor Networks
- Electronic Design Automation
- Autonomous Vehicle

MACHINE VISION & SIGNAL PROCESSING

- Mobile Vision Application
- Computer and Robot Vision
- Image Processing
- Medical & Biomedical Imaging
- Signal Processing for Satellite and Underwater Communication
- Audio/Speech & Video Processing and Systems

MICROELECTRONICS,NANO-TECH. & IC DESIGN

- Microelectronics Design Technology and Fabrication Process
- Micro-Nano Systems
- High Speed Electronic Devices
- Sensor Fabrication
- Analog and Mixed Signal Integrated Circuits
- Electronic Design Automation
- Digital System Design using HDL

COMPUTING & OPTIMIZATION TECHNIQUES

- Data Mining System
- Artificial Intelligence
- Interconnection Networks & Network based Computing
- Cryptography & Information Security
- Cloud/ Grid/ Distributed Computing
- Software Defined Networks
- Optimization Algorithm

TOP RECRUITERS

& many more...

> I chose Chandigarh University, particularly because of the immense number of opportunities that they provide and the future it will give me. As far as placements are concerned, Training and Placement department played a major role in bridging the areas where I was lacking. I am thankful to the department faculty and placement cell to help me in achieving academic and professional goals. Due to the immense support from my department and Chandigarh University, I got opportunity to work as an SCO design Engineer in INTEL India Ltd.

BHUPENDRA DOGRA
Placed in INTEL India Ltd.
Package= 10 LPA

> Choosing CU was the best decision I ever made. I started to dream BIG after joining it! It was the persistent efforts and counselling of my mentors that helped me to develop as a person and skillfully as a professional. During the span of my engineering in Electronics & Communication Engineering, I didn't only learn the various methodologies of communication industry but I also reconstructed a new person out of myself and got placed as an Application Engineer in Mentor Graphics, United States.

SHIPHALI JANGRA
Placed in Mentor Graphics, United States

> "Think Different, Think CU". This phrase defines Chandigarh University and the placements in one line. The aura and the competitive environment is what keep you going. The university aims at moulding you into a perfect intellectual. This is where the university justifies its mission of creating leaders. Being in CU has redefined my leadership skills. I've enjoyed my every single minute which I've spent here. The able guidance of my mentors and my efforts combined is what got me placed in **VIVO** as an engineer."

SHUBHAM MAHAJAN
(ME-ECE)
Placed in **VIVO**

> "Chandigarh University has given me an astonishing platform for my Career. During my M.E in Electronics & Communication Engineering, my mentors challenged and pushed me to be better and creative in my projects and this environment not only helped me in imbibing knowledge but also in developing my overall personality, fueling confidence in me. I can surely see that my future is totally reliant on the career for which I am grateful to the Chandigarh University who continuously provided assistance regarding the placement in "Deloitte Consulting" as an Application Developer and every faculty member of Electronics & Communication Engineering Department."

GEETANJALI BAGHEL
(ME-ECE)
Placed in **Deloitte**

EARLY BIRD COVID SCHOLARSHIP DETAILS HERE ALSO

DON'T LET YOUR FEES PUT BURDEN ON YOUR PARENTS

#15% Scholarship to be given to the students, who have completed Bachelors of Engineering from Chandigarh University, provided they pay full semester fee at the time of admission before **31st May 2021.**

#10% Scholarship to be given to the students who have completed Bachelors of Engineering/ Technology from other recognized Universities/Institutes provided they take admission before **31st May 2021.**

Scholarship of 10% will continue for CU Alumni, post May 31st 2021.

For Admission related queries, contact :
Dr. Harmeet Singh - 79863-66250 | Mr. Harjeevan Singh - 98147-41425

CHANDIGARH UNIVERSITY
Discover. Learn. Empower.

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