

DEPARTMENT OF ELECTRONICS TECHNOLOGY

TEACHING FACULTY

Professor

Sukhleen Bindra Narang, Ph.D.(GNDU)
Maninder Lal Singh, Ph.D. (GNDU)

Associate Professor

R.S.Sawhney, Ph.D. (GNDU) **(HEAD)**

Assistant Professor

Shalini Bahel, Ph.D.(GNDU)
Dhanjit Singh, B.Tech.
Ravinder Kumar, Ph.D.(GNDU)
Hardeep Kaur, M.Tech.
Rupendeep Kaur, M.Tech.
Gurpreet Singh, M.Tech.
Shivinder Devra, M.Tech.
Sukhdeep Kaur, M.Tech
Pawandeep Kaur, M.Tech.
Jasdeep Kaur, M.Tech.

Instructor

Jagdeep Singh, M.Phil

Courses offered

- [B.Tech. \(Electronics & Communication Engineering\)](#)
- [M.Tech. \(Electronics & Communication Engineering\)](#) Specialization Communication Systems
- Ph.D.

Course Detail : B.Tech. (Electronics & Communication Engineering)								
Distribution of seats								
Course	Duration (Year)	System	Total seats	Quota	Reserved Categories			
					SC/ST	BC	RA	Others
B.Tech. (Electronics & Communication Engineering)	4	Semester	120	85%	26	5	7	13
				15%	4	1	-	-

Eligibility

- Senior Secondary Examination (12th grade) with Physics, Chemistry, Mathematics and English with at least 50% marks (45% for SC/ST) in aggregate.
- Any other examination recognized equivalent thereto.

Mode of Admission

Admission will be made on the basis of All India Rank of JEE(Main)-2017 for both

85% quota for resident of Punjab and 15% quota for outside Punjab. Application for admission shall be submitted only online as per the admission schedule uploaded on GNDU admissions website www.gnduadmissions.org. The counseling will be held at GNDU Campus by the Coordinator, Prof. Sandeep Sharma, Head, Department of Computer Engineering & Technology. Counseling schedule will be uploaded on GNDU website in due course of time.

Dates :-

a)	Fee deposit date in State Bank of India (Any Branch)	22.05.2017 to 12.06.2017
b)	Last Date for Online application Form submission	24.05.2017 to 14.06.2017
c)	Admission/Counseling	Counseling Schedule will be uploaded on GNDU website in due course of time.

Fee(Approximate) Rs. 56810/- (1st.Sem.) Rs.40250/- (2nd Sem.)

Contact No.

Head: 8427202122, 0183-2258853, 0183-22588(02)-(09), Ext. 3230

Course Detail : (M.Tech. (Electronics) & Communication Engineering) Specialization Communication Systems							
Distribution of seats							
Course Name	Duration (Years)	System	Total Seats	Reserved Categories			
				SC/ST	BC	RA	Others
M.Tech. (Electronics) & Communication Engineering) Specialization Communication Systems	2	Semester	30	7	2	2	4

Eligibility

B.Tech./B.E. or equivalent in the Electronics or Electronics & Communication Engineering or Electronic Communication System Engineering or Electronics & Electrical Engineering or Instrumentation Engineering or B.Tech./B.E. in Information Technology or

Computer Science & Engineering with at least 60% marks(55% for SC/ST) in aggregate or CGPA of 6.75% on 10 point scale.

Mode of Admission

Based on the Entrance Test to be conducted by the Coordinator **Prof. Hardeep Singh**, Department of Computer Science.

Syllabus

Electronic Devices & Circuits:

Introduction to semiconductors, Diode applications, special purpose diodes like zener diodes, varactor diodes, optical diodes, Bipolar junction transistors, Transistor Biasing circuits, small signal bipolar amplifier, power amplifiers, Field Effect Transistor & Biasing, small signal FET amplifiers, Thyristors and other devices. Operational amplifiers, Application of operational amplifiers, active filters, oscillators, phase locked loop and voltage regulators.

Digital Electronics Circuits:Introductory digital concepts, Number systems, operations and codes,

logic gates, Boolean Algebra and logic simplification using karnaugh maps, combination circuits,

sequential circuits, Memory & storage, logic families and programmable logic devices, Analog to digital and digital to Analog convertors.

Electronic Communications:

Communication fundamentals; Analysis of passive circuits, waveform spectra, Audio Signal and Noise, Electronic Communication circuits; RF and broadband Amplifiers, oscillators and receivers, Modulation of signals; various Analog and Digital Modulation &

Demodulation techniques, Error detection and correction codes, Basics of satellite communications, fiber optic communications and microwave communications. General concepts of cellular mobile communications.

Other Topics:Electrical and Electronic Instrumentations, Control systems, Basic computer programming, Microprocessors and Micro controllers, computer Networks, Computer Architecture, Neural Networks, Digital Signal Processing and Power Electronics. Candidates are also required to have sound analytical ability and awareness about the latest trends and technologies in the field of Electronics & Communications.

Dates

a)	Fee deposit date in State Bank of India (Any Branch)	23.06.2017 to 04.07.2017
b)	Last Date for Online application Form submission	26.06.2017 to 07.07.2017
c)	Entrance Test	11.07.2017(10.00 to 11.30)
d)	Admission/Counseling	17.07.2017(10.00 am onwards General Categories) 18.07.2017(10.00 am onwards Reserved Categories)

Venue : Maharaja Ranjit Singh Bhawan, GND University, Amritsar

Contact No. Coordinator: 0183-2258802-09 Ext. 3227 (M) 98720-02958

Fee(Approximate) Rs. 59810/- (1st.Sem.) Rs.40250/- (2nd Sem.)

Special Features

The Department of Electronics Technology was founded in July, 1983. It supports the most coveted courses in the region. It is graced with a distinguished faculty. It has well equipped labs and facilities like Fiber Optic Communications, Microwave measurements, Digital Signal Processing, Microprocessor, Communication Systems and Electronic Devices and Circuits labs. The Department provides a well designed course curriculum and has an accordant interaction with industry experts. The Department also supports Ph.D. programme and extensive research activities in area like microelectronics, Microwave materials, Fiber Optics Communications (Components & Sensors) and nano devices. The Department has on-campus recruitment programmes for placements in prestigious companies and it is an honour for the Department that the placement rate is almost 100%. The students of the department are employed with world's top corporate like Google, facebook, Intel, Texas Instruments, Dialogue semiconductors ST Microelectronics, Infosys, TCS, Capgemini, Accenture, Bharti Telecom, Vodafone etc. The students of the Department have formed ESF (Electronics Students Forum) to promote extracurricular activities to enrich their personalities. ESF organizes events like Group Discussion, Vocab-a-Mania, debates on contemporary issues & other related activities to showcase the hidden talents of the students. The department has been organizing National level Technical festival regularly and promotes students to participate in such events organized by other technical institutions. The students of our department have outperformed in interdepartmental sports meet as well as inter-departmental cultural festival conducted at university level. The department is inviting Industry magnets to interact with the students and conducting various workshops.