



Department of Electronics

Bhaskaracharya College of Applied Sciences
(University of Delhi)
Sec -2, Phase - 1, Dwarka, New Delhi -110075

About the Department

Degree in B.Sc. (Hons.) Electronic Science covers all the key knowledge areas required to become a successful Electronics Professional. It equips students with broad foundation of the fundamentals of Electronics and associated subjects and provides students with skills which are required to design electrical, electronic, computer, automation and communication systems. It includes courses on Analog and Digital Electronics, Signals and Systems, Electrical Machines, Communication, Microprocessor and C programming language. Practicals based on simulators like PSPICE, QUCS, SCILAB, etc. are also included in the curriculum.

The Electronics Laboratory is well equipped with latest state-of-the art instruments such as Cathode Ray Oscilloscopes (CRO) & Digital Storage Oscilloscopes (DSO) (100MHz), CRO demonstration kits, Pulse Generators, Function Generators, Power Meter, Analog and Digital I.C. tester, LCR Q-tester, 8085 and 8086 Microprocessor kits, Microcontroller trainer, Interfacing modules and cards, Universal Programmer, various communication modules experimental kits, LASER kits, Antenna trainer kits, PCB design Unit, AVR Microcontroller and Arduino Kits etc. The Department also has well equipped computer laboratory with various simulation software installed to facilitate the students to gain expertise in IT skills. Department has its society named 'SPARKS' which organizes various activities like Workshops/ Conferences/ lectures/Seminars/ Technical Fest, etc. every year under the guidance of eminent personalities from the academia and industries. To promote the holistic development of students, many activities have been organized in the last academic year.

Admission Eligibility Criteria

❖ As per University of Delhi 2021-22 , Admission Guidelines

Faculty Details

S.No.	Name of Faculty	Qualifications	Specialization
1)	Dr. Manoj Khanna (on Leave/lien)	Ph.D (DU)	Microelectronics and VLSI designing
2)	Dr. Geeta Mongia	Ph.D (DU)	Optical Data Storage & Photovoltaic
3)	Dr. InderbirKaur (Teacher-In-Charge)	Ph.D (DU)	Amorphous Semiconductors
4)	Prof. Avneesh Mittal	Ph.D (DU)	Genetic Algorithm and Adaptive Controls
5)	Dr. Manoj K.Tiwari	Ph.D (DU)	Microwave Photonics
6)	Ms. Shweta Gupta	M.Sc. (DU)	Electronics
7)	Dr. Jitender Kumar	Ph.D (DU)	Nano-Materials and devices
8)	Dr. Amit Kumar	Ph.D (DU)	Electroluminescent Materials & Devices

Semester-wise distribution of Courses under CBCS (Revised)

SEMESTER I		SEMESTER II	
C1	<i>Basic Circuit Theory and Network Analysis</i>	C3	Semiconductor Devices
C2	Mathematics Foundation for Electronics	C4	Applied Physics
AECC1	English/MIL Communication or EVS	AECC2	EVS or English/MIL Communication
GE1	Generic Elective	GE2	Generic Elective
SEMESTER III		SEMESTER IV	
C5	Electronics circuits	C8	Operational Amplifiers and Applications
C6	Digital Electronics and Verilog/VHDL	C9	Signal and Systems
C7	C programming and Data Structure	C10	Electronic Instrumentation
SEC1	Skill-Enhancement Elective Course	SEC2	Skill-Enhancement Elective Course

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GE3	Generic Elective	GE4	Generic Elective
	SEMESTER V		SEMESTER VI
C11	Microprocessors and Microcontrollers	C13	Communication Electronics
C12	Electromagnetics	C14	Photonics
DSE1	Discipline Specific Elective	DSE3	Discipline Specific Elective
DSE2	Discipline Specific Elective	DSE4	Discipline Specific Elective
Abbreviations used for Course			
C	Core Course		
AECC	Ability Enhancement Compulsory Course		
GE	Generic Elective course		
SEC	Skill Enhancement Elective Course		
DSE	Discipline Specific Elective course		
<p>SEC: Skill-Enhancement Elective Courses <i>(any one paper per semester in semesters 3rd and 4th)</i></p>		<ol style="list-style-type: none"> 1. Design and Fabrication of Printed Circuit Boards 2. Robotics 3. Mobile Applications Development 4. Internet and Java Programming 5. Programming with LabVIEW 6. Artificial Intelligence 7. Internet of Things 8. Data Sciences 9. Cyber Security 10. 3D Printing and Design 11. Virtual Reality 	
<p>DSE: Discipline Specific Elective <i>(any two paper per semester in semesters 5th and 6th)</i></p>		<p>Group 1 (V Semester) (DSE 1, 2)</p> <ol style="list-style-type: none"> 1. Power Electronics 2. Numerical Analysis 3. Digital Signal Processing 4. Basic VLSI Design 5. Computer Networks 6. Semiconductor Fabrication and Characterization 7. Biomedical Instrumentation <p>Group 2 (VI Semester) (DSE-3, 4)</p> <ol style="list-style-type: none"> 1. Electrical Machines 2. Modern Communication Systems 3. Control Systems 4. Transmission Lines, Antenna and Wave Propagation 5. Nanoelectronics 6. Embedded Systems 7. Dissertation/ Project work 	

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GE : Generic Electives <i>(any one paper per semester in semesters 1st to 4th.</i>	<ol style="list-style-type: none">1. Electronic Circuits and PCB Designing2. Digital System Design3. Instrumentation4. Practical Electronics5. Communication Systems6. Microprocessor and Microcontroller Systems7. Consumer Electronics8. Computational Mathematics9. Applied Mathematics-I10. Applied Mathematics-II11. Artificial Intelligence12. Internet of Things13. Data Science
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Category wise seat distribution

Total Seats	UR	SC	ST	OBC	EWS
59	24	9	4	16	6