



Indian Institute of Information Technology, Allahabad  
**Department of Electronics and Communication Engineering**  
**UG curriculum proposal (with effect from July 2018)**

Total Credit: 160

Semester 1 (BEC - 1)				Total Credit : 20		
Sl.No.	Course Name	Code	Core/Elect	Credit	L-T-P	Pre-Requisite
1	Physics		Core (H)	4	2-1-1	Nil
2	Linear Algebra		Core (H)	4	3-1-0	Nil
3	Introduction to Programming in C		Core (H)	4	2-1-1	Nil
4	Fundamentals of Electrical & Electronics Engg.		Core (H)	4	2-1-1	Nil
5	Professional Communication		Core (H)	2	1-0-1	Nil
6	Principles of Management		Core (H)	2	1-1-0	Nil
					11-10-8	
Total				20	29	

Semester 2 (BEC - 2)				Total Credit : 22		
Sl.No.	Course Name	Code	Core/Elect	Credit	L-T-P	Pre- Requisite
1	Univariate and Multivariate Calculus		Core (H)	4	3-1-0	Nil
2	Digital System Design		Core (H)	4	2-1-1	Nil
3	Data Structures		Core (H)	4	2-1-1	Introduction to Programming in C
4	Electronic Devices and Circuits		Core (H)	4	2-1-1	Nil
5	Electromagnetic Field and Waves		Core (H)	4	3-1-0	Nil
6	Electronic Workshop		Core (H)	2	0-0-2	Nil
					12-10-10	
Total				22	32	

Semester 3 (BEC - 3)				Total Credit : 22		
Sl.No.	Course Name	Code	Core/Elect	Credit	L-T-P	Pre- Requisite
1	Analog Communication		Core (H)	4	2-1-1	Nil
2	Analog Electronics		Core (H)	4	2-1-1	Electronic Devices and Circuits
3	Electrical Engineering		Core (H)	3	2-0-1	Nil
4	Electronics Measurement and Instrumentation		Core (H)	3	2-0-1	Nil
5	Micro Processor Interface and Programming		Core (H)	4	2-1-1	Nil
6	Probability and Statistics		Core (H)	4	3-1-0	Nil
					13-8-10	
Total				22	31	

Semester 4 (BEC - 4)				Total Credit : 20		
Sl.No.	Course Name	Code	Core/Elect	Credit	L-T-P	Pre- Requisite
1	Discrete Time Signals and Systems		Core (H)	3	2-1-0	Nil
2	Control Systems		Core (H)	4	2-1-1	Nil
3	Digital IC Design		Core (H)	3	2-0-1	Nil
4	Integrated Circuit Technology		Core (H)	3	2-1-0	Nil

5	Antenna and Wave Propagation		Core (H)	4	2-1-1	Electromagnetic Field and Waves
6	Operating Systems		Core (H)	3	2-0-1	Nil
					12-8-8	
Total				20	28	

Semester 5(BEC - 5)			Total Credit : 20			
Sl.No.	Course Name	Code	Core/Elect	Credit	L-T-P	Pre-Requisite
1	Digital Communication		Core (H)	4	2-1-1	Nil
2	Computer Networks		Core (H)	4	2-1-1	Nil
3	Embedded System Design		Core (H)	4	3-0-1	Nil
4	Microwave Engineering		Core (H)	4	2-1-1	Nil
5	SMT Workshop		Core (H)	1	0-0-1	Nil
6	Power Electronics		Core (H)	3	2-1-0	Nil
					11-8-10	
Total				20	29	

Semester 6(BEC - 6)			Total Credit : 22			
Sl.No.	Course Name	Code	Core/Elect	Credit	L-T-P	Pre-Requisite
1	Digital Signal Processing		Core (H)	4	2-1-1	Discrete Time Signals and Systems
2	Optical Communication		Core (H)	3	2-0-1	Nil
3	Principles of Wireless Communication		Core (H)	4	2-1-1	Nil
4	Elective 1		Core (S)	4	3-1-0	Nil
5	Elective 2		Core (S)	4	2-1-1	Nil
6	Mini Project		Core (S)	3	0-1-2	Nil
					11-10-12	
Total				22	33	

Semester 7(BEC - 7)			Total Credit : 16			
Sl.No.	Course Name	Code	Core/Elect	Credit	L-T-P	Pre-Requisite
1	Minor Project		Core (S)	10	0-1-9	Nil
2	Elective 3		Core (S)	4	2-1-1	Nil
3	Elective 4		Core (S)	4	2-1-1	Nil
					4-6-22	
Total				18	32	

Semester 8(BEC - 8)			Total Credit : 18			
Sl.No.	Course Name	Code	Core/Elect	Credit	L-T-P	Pre-Requisite
1	Major Project		Core (H)	12	0-2-10	Nil
2	Elective 5		Core (S)	4	3-1-0	Nil
					3-6-20	
Total				16	29	

Note:

- A candidate can earn a maximum of 24 credits in any semester through regular registration including a dropped course.
- For dropped-out courses- Provision of Summer semester is introduced.
- A student has to take a minimum of 10 credit electives offered from ECE deptt for BTech in ECE stream.
- For the purpose of branch change, plz refer to Ordinance.
- A student can avail Add On's as per the list of even and odd semester baskets (provided it is offered by the respective department).

<b>I Semester</b>	<b>II Semester</b>	<b>III Semester</b>	<b>IV Semester</b>	<b>V Semester</b>	<b>VI Semester</b>	<b>VII Semester</b>	<b>VIII Semester</b>
+ 4 credits may be earned	+ 2 credits may be earned	+ 2 credits may be earned	+ 4 credits may be earned	+ 4 credits may be earned	+ 2 credits may be earned	+ 6 credits may be earned	+ 8 credits may be earned

<b>Odd/Even Semester Basket</b> [ Subjects to be offered by Managementdeptt, Applied Science and IT Deptt]  [Subjects to be offered at the discretion of the deptt ]	<b>Even Semester Basket Name</b> [Subjects to be offered by ECEDeptt –  [Subjects to be offered at the discretion of the deptt]
Athletics, Yoga, community services, Society Services, Sports, Indian languages, Library management, Foreign Languages, Programming Languages (Python, C++) etc	Matlab programming, Microcontroller Programming, Emerging automotive technologies, Network Analysis, Electronic Testing equipments, Raspberry - Pi, Robotics , RF Planning and RF Engineering , Wavelets, Material Science, Electrical Power Systems, Nano Technologies, SDR, optical N/wetc