Syllabus Scheme for B. Tech. Batch 2018 onwards (Electronics and Communication Engineering)

	Semester-3 rd										
S.	Course Type	Course	Course Title	Subject	Hours per week			Marks Distribution		Total	Credit
NU.		Coue		Туре	L	Т	Р	Internal	External	Marks	3
1	Basic Science Course	BSEC-101	Engineering Mathematics - III	Theory	3	0	0	40	60	100	3
2	Professional Core Course	PCEC-101	Electronic Devices	Theory	3	0	0	40	60	100	3
3	Professional Core Course	PCEC-102	Network Analysis and Synthesis	Theory	3	1	0	40	60	100	4
4	Professional Core Course	PCEC-103	Signals and Systems	Theory	3	1	0	40	60	100	4
5	Professional Core Course	PCEC-104	Digital Electronics	Theory	3	1	0	40	60	100	4
6	Professional Core Course	PCEC-105	Computer Architecture	Theory	3	0	0	40	60	100	3
7	Mandatory Course ^{\$} (Non- Credit)	MCI-101	Environmental Science	Theory	2	0	0	50	0	50	S/US
8	Professional Core Course	LPCEC-101	Electronic Devices Laboratory	Practical	0	0	2	30	20	50	1
9	Professional Core Course	LPCEC-102	Digital Electronics Laboratory	Practical	0	0	2	30	20	50	1
10	Training	TR-101	Training - I	Practical	-	-	-	60	40	100	1
11	11 Mandatory Course - Mentoring and Professional Development		Practical	0	0	1	-	-	-	-	
	TOTAL				20	3	5	360	440	800	24

Contact Hours 28

* Industrial/Institutional Training of 4-weeks shall be held in summer vacation after 2nd semester and marks/credit shall be awarded in 3rd semester itself.

\$ Marks of non credit courses are excluded from total and minimum 40% score is required to achieve satisfactory level.

Syllabus Scheme for B. Tech. Batch 2018 onwards (Electronics and Communication Engineering)

	Semester-4 th										
S.	Course Type	Course Code	Course Title	Subject	Hours per week			Marks Distribution		Total	Credit
NO.				туре	L	Τ	Р	Internal	External	Marks	5
1	Professional Core Course	PCEC-106	Analog Circuits	Theory	3	1	0	40	60	100	4
2	Professional Core Course	PCEC-107	Object Oriented Programming using C++ and Data Structures	Theory	3	0	0	40	60	100	3
3	Professional Core Course	PCEC-108	Electromagnetic Field Theory	Theory	3	0	0	40	60	100	3
4	Professional Core Course	PCEC-109	Linear Control Systems	Theory	3	1	0	40	60	100	4
5	Humanities and Social Sciences including Management Course	HSMEC-101	Information Management and Data Analytics	Theory	3	0	0	40	60	100	3
6	Professional Core Course	LPCEC-103	Analog Circuits Laboratory Practical		0	0	2	30	20	50	1
7	Professional Core Course	LPCEC-104	Measurement and Control Laboratory	Practical	0	0	2	30	20	50	1
8	Professional Core Course	LPCEC-105	Object Oriented Programming using C++ and Data Structures Laboratory	Practical	0	0	2	30	20	50	1
9	Professional Core Course	LPCEC-106	Intelligent Signal Processing Laboratory	Practical	0	0	2	30	20	50	1
10	Seminar	PREC-101	Seminar and Technical Report Writing for Engineers		0	0	2	50	0	50	1
11	Mandatory Course	MPD-102	Mentoring and Professional Development	Practical	0	0	1	100	-	100	1
			15	2	11	470	380	850	23		

Contact Hours 28

Syllabus Scheme for B. Tech. Batch 2018 onwards (Electronics and Communication Engineering)

	Semester-5 th										
S.	Course Type	Course	Course Title	Subject Hours per week		r week	Marks Dis	stribution	Total	Credit	
No.	course rype	Code	course ritte	Туре	L	Т	Р	Internal	External	Marks	S
1	Professional Core Course	PCEC-110	Analog Communication Systems	Theory	3	0	0	40	60	100	3
2	Professional Core Course	PCEC-111	Digital Signal Processing	Theory	3	1	0	40	60	100	4
3	Professional Core Course	PCEC-112	Microprocessors and Microcontrollers	Theory	3	1	0	40	60	100	4
4	Professional Core Course	PCEC-113	Antenna and Wave Propagation	Theory	3	0	0	40	60	100	3
5	Professional Core Course	PCEC-114	Computer Networks	Theory	3	0	0	40	60	100	3
6	Mandatory Course ^{\$} (Non- credit)	MCI-102	Constitution of India	Theory	2	0	0	50	0	50	S/US
7	Professional Core Course	LPCEC-107	Analog Communication Systems Laboratory	Practical	0	0	2	30	20	50	1
8	Professional Core Course	LPCEC-108	Digital Signal Processing Laboratory	Practical	0	0	2	30	20	50	1
9	Professional Core Course	LPCEC-109	Microprocessors and Microcontrollers Laboratory	Practical	0	0	2	30	20	50	1
10	Professional Core Course	LPCEC-110	Computer Networks Laboratory	Practical	0	0	2	30	20	50	1
11	Training	TR-102	Training-II	Practical	-	-	-	60	40	100	1
12	Mandatory Course - Mentoring and Professional Development		Practical	0	0	1	-	-	-	0	
	TOTAL					2	9	380	420	800	22

Contact Hours 28

* Industrial/Institutional Training of 4-weeks shall be held in summer vacation after 4th semester and marks/credit shall be awarded in 5th semester itself.

\$ Marks of non-credit courses are excluded from total and minimum 40% score is required to achieve satisfactory level.

Syllabus Scheme for B. Tech. Batch 2018 onwards (Electronics and Communication Engineering)

	Semester-6 th										
S.	Course Type	Course	Course Title	Subject	Hours per week			Marks Distribution		Total	Credits
NO.		Lode		Гуре	L	Т	Р	Internal	External	Marks	
1	Professional Core Course	PCEC-115	Digital Communication Systems	Theory	3	0	0	40	60	100	3
2	Professional Core Course	PCEC-116	Microwave and Radar	Theory	3	0	0	40	60	100	3
3	Professional Core Course	LPCEC-111	Digital Communication Systems Laboratory	Practical	0	0	2	30	20	50	1
4	Professional Core Course	LPCEC-112	Microwave and Radar Laboratory	Practical	0	0	2	30	20	50	1
5	Professional Elective Course	PEEC-XXX	Elective - I	Theory	3	1	0	40	60	100	4
6	Professional Elective Course	PEEC-XXX	Elective - II	Theory	3	1	0	40	60	100	4
7	Open Subject	OEZZ-XXX	Open Elective - I	Theory	3	0	0	40	60	100	3
8	Professional Elective Course #	LPEEC-XXX	Elective-ILaboratory	Practical	0	0	2	30	20	50	1
9	Project	PREC-102	Minor Project	Practical	0	0	2	30	20	50	1
10	10Mandatory CourseMPD-103Mentoring and Professional Development		Practical	0	0	1	100	-	100	1	
			15	2	9	420	380	800	22		
						26					

Contact Hours

Students will be offered the corresponding Labs from Elective - I laboratory as per their allotted subject in Elective – I.

Syllabus Scheme for B. Tech. Batch 2018 onwards (Electronics and Communication Engineering)

List of Program Electives

Course Type	Course Code	Course Title
Elective I	PEEC-101	Optical Communication
Elective - I	PEEC-102	ARM based Embedded System
Electione II	PEEC-103	Mobile Communication and Networks
Elective - II	PEEC-104	Multimedia Signal Processing
	PEEC-105	VLSI Design
Elective - III	PEEC-106	Soft Computing
Elective IV	PEEC-107	CMOS Design
Elective - IV	PEEC-108	Biomedical Signal Processing

List of Program Elective Laboratory

Course Type	Course Code	Course Title				
Elective I	LPEEC-101	Optical Communication Laboratory				
Laboratory	LPEEC-102	ARM based Embedded SystemLaboratory				
Elective - III	LPEEC-103	VLSI Design Laboratory				
Laboratory	LPEEC-104	Soft Computing Laboratory				

List of Open Elective Subjects offered to all other departments

Course Type	Course Code	Course Title
Open	OEEC-101	Signals and Systems
Elective - I	ctive - I OEEC-102 Basics of Commu	Basics of Electronics and Communication
Open	OEEC-103	Embedded Systems
Elective - II	OEEC-104	Wireless Communication