

GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA
Department of Electronics and Communication Engineering
 Syllabus Scheme for B. Tech. Batch 2018 onwards (Electronics and Communication Engineering)

Semester-3rd											
S. No.	Course Type	Course Code	Course Title	Subject Type	Hours per week			Marks Distribution		Total Marks	Credits
					L	T	P	Internal	External		
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	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.

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Semester-4th											
S. No.	Course Type	Course Code	Course Title	Subject Type	Hours per week			Marks Distribution		Total Marks	Credits
					L	T	P	Internal	External		
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	Practical	0	0	2	50	0	50	1
11	Mandatory Course	MPD-102	Mentoring and Professional Development	Practical	0	0	1	100	-	100	1
TOTAL					15	2	11	470	380	850	23

Contact Hours 28

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Semester-5th											
S. No.	Course Type	Course Code	Course Title	Subject Type	Hours per week			Marks Distribution		Total Marks	Credits
					L	T	P	Internal	External		
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					17	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.