

INTEGRAL UNIVERSITY, LUCKNOW
STUDY & EVALUATION SCHEME
B. TECH. ELECTRONICS & COMMUNICATION ENGG.

3rd YEAR

V Semester

S. No.	Subject Code	Category	Subject	Periods				Evaluation Scheme				Subject Total
				L	T	P	C	Sessional			Exam.	
								CT	TA	Total	ESE	
1	EC-301	DC	Computer Organization & Architecture	3	1	0	4	25	15	40	60	100
2	EC-302	DC	Integrated Circuits	3	1	0	4	25	15	40	60	100
3	EC-303	DC	Communication Systems Engineering	3	1	0	4	25	15	40	60	100
4	EC-304	DC	Automatic Control System	3	1	0	4	25	15	40	60	100
5	EC-305	DC	Antenna & Wave Propagation	2	1	0	3	25	15	40	60	100
6		DE	Departmental Elective-1	3	1	0	4	25	15	40	60	100
7	EC-308	DC	Computer Organization & Architecture Lab.	0	0	2	1	30	30	60	40	100
8	EC-309	DC	Integrated Circuits Lab.	0	0	2	1	30	30	60	40	100
9	EC-310	DC	Communication-I Lab.	0	0	2	1	30	30	60	40	100
10	EC-311	DC	System Simulation Lab.	0	0	2	1	30	30	60	40	100
Total				17	6	8	27	270	210	480	520	1000

L-Lecture **T**-Tutorial **P**-Practical **C**-Credits **CT**-Class Test **TA**-Teacher Assessment

Sessional Total (CA) = Class Test + Teacher Assessment

Subject Total = Sessional Total (CA) + End Semester Examination (ESE)

DC- Departmental Core

HM- Humanities

DE- Departmental Elective

ESA- Engineering Sciences & Arts (Foundation Course & Engineering Courses)

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3rd YEAR

VI Semester

S. No.	Subject Code	Category	Subject	Periods				Evaluation Scheme				Subject Total
				L	T	P	C	Sessional		Exam.		
								CT	TA	Total	ESE	
1	EC-312	DC	Digital Communication & Networks	3	1	0	4	25	15	40	60	100
2	EC-313	DC	Digital Signal Processing	3	1	0	4	25	15	40	60	100
3	EC-314	DC	Microprocessor and Applications	3	1	0	4	25	15	40	60	100
		OE	Open Elective-1	-	-	-	4	25	15	40	60	100
4		DE	Departmental Elective-2	2	1	0	3	25	15	40	60	100
5		DE	Departmental Elective-3	3	1	0	4	25	15	40	60	100
7	EC-331	DC	Communication –II Lab.	0	0	2	1	30	30	60	40	100
8	EC-332	DC	Digital Signal Processing Lab.	0	0	2	1	30	30	60	40	100
9	EC-333	DC	Microprocessor and Applications Lab.	0	0	2	1	30	30	60	40	100
10		DE	Departmental Elective-4	0	0	2	1	30	30	60	40	100
			Total	17	6	8	27	270	210	480	520	1000

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4th YEAR

VII Semester

S. No.	Subject Code	Category	Subject	Periods				Evaluation Scheme				Subject Total
				L	T	P	C	Sessional		Exam.		
								CT	TA	Total	ESE	
1	EC-401	DC	Optical Communication	3	1	0	4	25	15	40	60	100
2	EC-402	DC	VLSI Design	3	1	0	4	25	15	40	60	100
3	EC-403	DC	Wireless Communication	3	1	0	4	25	15	40	60	100
4		DE	Departmental Elective-5	3	1	0	4	25	15	40	60	100
5		DE	Departmental Elective-6	3	1	0	4	25	15	40	60	100
6	EC-413	DC	Optical Communication Lab.	0	0	2	1	30	30	60	40	100
7	EC-414	DC	VLSI Design Lab.	0	0	2	1	30	30	60	40	100
8	EC-300	DC	Industrial Training*	-	-	-	0	-	-	50	-	50
9		DE	Departmental Elective-7	0	0	2	1	30	30	60	40	100
			Total	14	5	8	23	215	165	380	420	800

L-Lecture T-Tutorial P-Practical C-Credits CT-Class Test TA-Teacher Assessment

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Subject Total = Sessional Total (CA) + End Semester Examination (ESE)

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*Students must clear the paper with 50% passing marks and marks will not be included in result

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4th YEAR

VIII Semester

S. No.	Subject Code	Category	Subject	Periods				Evaluation Scheme				Subject Total
				L	T	P	C	Sessional		Exam.		
								CT	TA	Total	ESE	
1	EC-419	DC	Seminar-II	-	-	-	3	-	-	100	-	100
2	EC-499	DC	B.Tech. Project	-	-	-	4	-	-	60	40	100
3	EC-499	DC	B.Tech. Project	-	-	-	4	-	-	60	40	100
4	EC-499	DC	B.Tech. Project	-	-	-	4	-	-	60	40	100
5	EC-420	DC	Comprehensive Viva	-	-	-	2	-	-	100	-	100
		OE	Open Elective-2	-	-	-	4	25	15	40	60	100
			Total	3	1	0	21	25	15	420	180	600

L-Lecture T-Tutorial P-Practical C-Credits CT-Class Test TA-Teacher Assessment

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List of Departmental Electives

	Subject Code	Subject	Co-Requisites
Elective-1	EC-306	Microelectronics Technology	-
	EC-307	Semiconductor Fabrication Technology	-
Elective-2	EC-315	Nano Electronics	-
	EC-316	Embedded System Design	-
	EC-317	Analog Signal Processing	-
	EC-318	Filter Design	-
Elective-3	EC-319	RF and Microwave Engineering	-
	EC-320	Microwave Devices and Communication	-
Elective-4	EC-334	Microwave Engineering Lab.	EC-319
	EC-335	Microwave Communication Lab.	EC-320
Elective-5	EC-404	Mechatronics Engineering	-
	EC-405	Solar Energy & Entrepreneurship	-
	EC-406	Digital System Design using VHDL	-
	EC-407	Digital Image Processing	-
Elective-6	EC-408	Spread Spectrum Communication	-
	EC-409	Information Theory and Coding	-
	EC-410	Wireless Sensor Networks	-
	EC-411	Biomedical Instrumentation	-
	EC-412	Radar Guidance and Navigation	-
Elective-7	EC-415	Robotics and Industrial Automation Lab.	EC-404
	EC-416	Energy Lab.	EC-405
	EC-417	Digital System Design Lab.	EC-406
	EC-418	Multimedia and Image Processing Lab.	EC-407