

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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*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-451	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-452	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

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List of Departmental Electives

	Subject Code	Subject	Co-Requisites
Elective-1	EC-306	Microelectronics Technology	-
	EC-307	Semiconductor Fabrication Technology	-
	EC-351 (MOOC)	Industrial Instrumentation*	
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	-
	EC-339	Solar Engineering	-
	EC-340	Wind Engineering	-
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

* This is an online MOOC course available on SWAYAM platform. If you are interested in opting for this course you must log onto www.swayam.gov.in and create a student account with your University Mail ID.

For your reference, the following link of the course has been provided. Kindly enroll for the course before 23rd of July 2017.

Web Link: <https://swayam.gov.in/course/3764-industrial-instrumentation>