

## Semester III

Catalog Course Code	Course Code	Course Title	Nature	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
				L	T	Lab	Practical		CA	ESE		
							CA	ESE				
T7380	070121301 EC	Applied Mathematics	ES	3	2	-	-	-	40	60	4	100
T7587	070121302 EC	Semiconductor Devices and Circuit Applications	C	3	2	-	-	-	40	60	4	100
T7581	070121303 EC	Network Analysis and Synthesis	C	4	-	-	-	-	40	60	4	100
T7553	070121304 EC	Digital Electronics	ID	4	-	-	-	-	40	60	4	100
T7560	070121305 EC	Electrical Machines	C	4	-	-	-	-	40	60	4	100
T7586	070121306 EC	Semiconductor Devices and Circuits Applications Lab	C	-	-	2	10	15	-	-	1	25
T7556	070121307 EC	Digital Electronics Lab	C	-	-	2	10	15	-	-	1	25
T7561	070121308 EC	Electrical Machines Lab	ID	-	-	2	10	15	-	-	1	25
	070121309 EC	Inter Institute Course I	C	2	-	-	-	-	50	-	2	50
	070121310 EC	Inter Institute CourseII	C	2	-	-	-	-	50	-	2	50
T7674	070121311 EC	Cyber Security	ID	2	-	-	-	-	50	-	2	50
		<b>Total</b>		<b>24</b>	<b>4</b>	<b>6</b>	<b>30</b>	<b>45</b>	<b>350</b>	<b>300</b>	<b>29</b>	<b>725</b>
T4005	070121312 EC	*Integrated Disaster Management	GP	-	-	-	-	-	-	-	-	Letter Grade

## Semester IV

Catalog Course Code	Course Code	Course Title	Nature	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
				L	T	Lab	Practical		CA	ESE		
							CA	ESE				
T7588	070121401 EC	Signals and Systems	C	3	2	-	-	-	40	60	4	100
T7547	070121402 EC	Control Systems	C	3	2	-	-	-	40	60	4	100
T7535	070121403 EC	Analog Circuit Design	C	4	-	-	-	-	40	60	4	100
T7562	070121404 EC	Electromagnetic Field Theory	C	3	2	-	-	-	40	60	4	100
T7563	070121405 EC	Electronic Measurements And Instrumentation	C	3	-	-	-	-	30	45	3	75
T7548	070121406 EC	Control Systems Lab	C	-	-	2	10	15	-	-	1	25
T7536	070121407 EC	Analog Circuit Design Lab	C	-	-	2	10	15	-	-	1	25
T7564	070121408 EC	Electronic Measurements And Instrumentation Lab	C	-	-	2	10	15	-	-	1	25
T7565	070121409 EC	Electronics Workshop Practice	C	-	-	2	10	15	-	-	1	25
<b>Liberal Arts (Choose any two of the following)</b>												
T6184	070121410 EC	Basic German I	ID	2	-	-	-	-	50	-	2	50
T6185	070121411 EC	Basic German II	ID	2	-	-	-	-	50	-	2	50
T6186	070121412 EC	Basic French I	ID	2	-	-	-	-	50	-	2	50

T6187	070121413 EC	Basic French II	ID	2	-	-	-	-	50	-	2	50
T6188	070121414 EC	Basic Spanish I	ID	2	-	-	-	-	50	-	2	50
T6189	070121415 EC	Basic Spanish II	ID	2	-	-	-	-	50	-	2	50
T6167	070121416 EC	Basics of Microeconomics	ID	2	-	-	-	-	50	-	2	50
T6168	070121417 EC	Basics of Macroeconomics	ID	2	-	-	-	-	50	-	2	50
T6274	070121418 EC	Foundations of Ethics	ID	2	-	-	-	-	50	-	2	50
T6275	070121419 EC	Concept of Wealth and Prosperity	ID	2	-	-	-	-	50	-	2	50
<b>Total</b>				<b>20</b>	<b>6</b>	<b>8</b>	<b>40</b>	<b>60</b>	<b>290</b>	<b>285</b>	<b>27</b>	<b>675</b>

**Semester V**

Catalog Course Code	Course Code	Course Title	Nature	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
				L	T	Lab	Practical		CA	ESE		
							CA	ESE				
T7549	070121501 EC	Data Structures and Algorithms	ID	4	-	-	-	-	40	60	4	100
T7558	070121502 EC	Digital Signal Processing	C	3	2	-	-	-	40	60	4	100
T7543	070121503 EC	Communication System Engineering	C	4	-	-	-	-	40	60	4	100
T7575	070121504 EC	Microcontrollers and Applications	C	3	2	-	-	-	40	60	4	100
T7582	070121505 EC	Power Electronics	C	4	-	-	-	-	40	60	4	100
T7550	070121506 EC	Data Structures and Algorithms Lab	ID	-	-	2	10	15	-	-	1	25
T7559	070121507 EC	Digital Signal Processing Lab	C	-	-	2	10	15	-	-	1	25
T7544	070121508 EC	Communication System Engineering Lab	C	-	-	2	10	15	-	-	1	25
T7576	070121509 EC	Microcontrollers and Applications Lab	C	-	-	2	10	15	-	-	1	25
T7583	070121510 EC	Power Electronics Lab	C	-	-	2	10	15	-	-	1	25
<b>Total</b>				<b>18</b>	<b>4</b>	<b>10</b>	<b>50</b>	<b>75</b>	<b>200</b>	<b>300</b>	<b>25</b>	<b>625</b>

**Semester VI**

Catalog Course Code	Course Code	Course Title	Nature	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
				L	T	Lab	Practical		CA	ESE		
							CA	ESE				
T7566	070121601 EC	Embedded System Design	C	3	2	-	-	-	40	60	4	100
T7591	070121602 EC	VLSI Design	C	4	-	-	-	-	40	60	4	100
T7551	070121603 EC	Digital Communication	C	4	-	-	-	-	40	60	4	100
T7580	070121604 EC	Microwaves and Radar	C	3	-	-	-	-	30	45	3	75

T7567	070121605 EC	Embedded System Design Lab	C	-	-	2	10	15	-	-	1	25
T7592	070121606 EC	VLSI Design Lab	C	-	-	2	10	15	-	-	1	25
T7552	070121607 EC	Digital Communication Lab	C	-	-	2	10	15	-	-	1	25
T7579	070121608 EC	Microwave and Radar Lab	C	-	-	2	10	15	-	-	1	25
T7594	070121609 EC	Product Design Lab	C	-	-	2	10	15	-	-	1	25
T8000	070121610 EC	Service Learning	ID	4	-	-	-	-	100	-	4	100
<b>Free Elective (Choose any one of the following)</b>												
T7457	070121611 EC	Integrated Water Resources Development and Management	ID	3	-	-	-	-	30	45	3	75
T7456	070121612 EC	Town and Country Planning	ID	3	-	-	-	-	30	45	3	75
T7499	070121613 EC	JAVA	ID	3	-	-	-	-	30	45	3	75
T7509	070121614 EC	Open Source Technologies	ID	3	-	-	-	-	30	45	3	75
T7474	070121615 EC	Basics of Database	ID	3	-	-	-	-	30	45	3	75
T7574	070121616 EC	MATLAB	ID	3	-	-	-	-	30	45	3	75
T7584	070121617 EC	Printed Circuit Board (PCB) Design	ID	3	-	-	-	-	30	45	3	75
T7616	070121618 EC	Fundamentals of Automotive Technology	ID	3	-	-	-	-	30	45	3	75
T7650	070121619 EC	Six Sigma	ID	3	-	-	-	-	30	45	3	75
T7020	070121620 EC	Nanotechnology	ID	3	-	-	-	-	30	45	3	75
T7394	070121621 EC	Smart Material	ID	3	-	-	-	-	30	45	3	75
T7393	070121622 EC	Computer based Statistical Packages	ID	3	-	-	-	-	30	45	3	75
<b>Total</b>				<b>21</b>	<b>2</b>	<b>10</b>	<b>50</b>	<b>75</b>	<b>280</b>	<b>270</b>	<b>27</b>	<b>675</b>

**Semester VII**

Catalog Course Code	Course Code	Course Title	Nature	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
				L	T	Lab	Practical		CA	ESE		
							CA	ESE				
<b>Group A</b>												
T7920	070121701 EC	Internship (6 Months)	PD	-	-	-	195	130	-	-	13	325
T7671	070121702 EC	Seminar	PD	-	-	-	60	40	-	-	4	100
	070121708 EC	Global Immersion Program	C	-	-	-	-	-	-	-	-	-
<b>Total</b>				<b>-</b>	<b>-</b>	<b>-</b>	<b>255</b>	<b>170</b>	<b>-</b>	<b>-</b>	<b>17</b>	<b>425</b>
<b>OR</b>												
<b>Group B</b>												
T7905	070121703 EC	Internship (6 to 8 weeks)	PD	-	-	10	75	50	-	-	5	125
T7139	070121704 EC	Software Testing and Quality Assurance	C	3	-	-	-	-	30	45	3	75
T7110	070121705 EC	System on Chip	C	4	-	-	-	-	40	60	4	100
T7080	070121706	Software Testing and	C	-	-	2	10	15	-	-	1	25

	EC	Quality Assurance Lab										
T7048	070121707 EC	Project Management	GP	4	-	-	-	-	40	60	4	100
		<b>Total</b>		<b>11</b>	<b>-</b>	<b>12</b>	<b>85</b>	<b>65</b>	<b>110</b>	<b>165</b>	<b>17</b>	<b>425</b>

## Semester VIII

Catalog Course Code	Course Code	Course Title	Nature	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
				L	T	La	Practical		CA	ES		
							CA	ESE				
T7804	070121801 EC	B.Tech.Project	C	-	-	8	40	60	-	-	4	100
T7530	070121802 EC	Advanced Communication Systems	C	4	-	-	-	-	40	60	4	100
T7545	070121803 EC	Computer Communication Networks	C	4	-	-	-	-	40	60	4	100
T7537	070121804 EC	Antenna and Wave Propagation	C	4	-	-	-	-	40	60	4	100
T7531	070121805 EC	Advanced Communication Systems Lab	C	-	-	2	10	15	-	-	1	25
T7546	070121806 EC	Computer Communication Networks Lab	C	-	-	2	10	15	-	-	1	25
<b>Elective – I (Choose any one of the following)</b>												
T7590	070121807 EC	Modern Control Theory	C	4	-	-	-	-	40	60	4	100
T7557	070121808 EC	Fundamentals of Digital Image Processing	C	4	-	-	-	-	40	60	4	100
T7542	070121809 EC	CMOS VLSI Design	C	4	-	-	-	-	40	60	4	100
T7585	070121810 EC	Radar Engineering	C	4	-	-	-	-	40	60	4	100
<b>Elective – II (Choose any one of the following)</b>												
T7539	070121811 EC	Automation and Robotics	C	4	-	-	-	-	40	60	4	100
T7086	070121812 EC	Advanced Digital Signal Processing	C	4	-	-	-	-	40	60	4	100
T7572	070121813 EC	FPGA Design	C	4	-	-	-	-	40	60	4	100
T7541	070121814 EC	Cellular and Mobile Communication	C	4	-	-	-	-	40	60	4	100
		<b>Total</b>		<b>20</b>	<b>-</b>	<b>12</b>	<b>60</b>	<b>90</b>	<b>200</b>	<b>300</b>	<b>26</b>	<b>650</b>

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self-study/assignments.

L- Lecture , T-Tutorial

HA - Home Assignment

C - Core Course

ES - Engineering Science Course

GP - General Proficiency Course

ID - Inter Disciplinary Course

PD - Professional Development Course

CA- Continuous Assessment

ESE- End Semester Examination

Practical, CA, ESE are separate heads of Passing

Practical external examination may be conducted by alternate internal faculty