

**Semester III**

#	Course Category	Course Type	Code	Course Title	L-T-P	Period	Credit	End Exam
1	Program Core	Theory	1052233110	Digital Logic Design	3-0-0	45	3	Theory
2	Program Core	Practicum	1052233230	RDBMS	3-0-2	75	4	Theory
3	Program Core	Practical/Lab	1052233320	Digital Logic Design Lab	0-0-4	60	2	Practical
4	Program Core	Practicum	1052233440	C Programming	1-0-4	75	3	Practical
5	Program Core	Practicum	1052233540	Web Designing	1-0-4	75	3	Practical
6	Program Core	Practicum	1052233640	Operating Systems	1-0-2	45	2	Practical
7	Open Elective	Advanced Skill Certification	1052233760	Advanced Skills Certification - 3	1-0-3	60	2	NA
8	Humanities & Social Science	Integrated Learning Experience	1052233880	Growth Lab	0-0-2	30	0	NA
9	Audit Course	Integrated Learning Experience	1052233881	Induction Program II	-	16	0	-
10	Audit Course	Integrated Learning Experience	1052233882	I&E/ Club Activity/ Community Initiatives	-	15	0	-
11	Audit Course	Integrated Learning Experience	1052233883	Shop floor Immersion	-	8	0	-
12	Audit Course	Integrated Learning Experience	1052233884	Student-Led Initiative	-	23	0	-
13	Audit Course	Integrated Learning Experience	1052233885	Emerging Technology Seminars	-	8	0	-
14	Audit Course	Integrated Learning Experience	1052233886	Health & Wellness	-	30	1	-
				Test & Revisions		60		
				Library		15		
				<b>Total Periods</b>		<b>640</b>	<b>20</b>	

**Semester IV**

#	Course Category	Course Type	Code	Course Title	L-T-P	Period	Credit	End Exam
1	Program Core	Theory	1052234110	Computer Networks and Security	3-0-0	45	3	Theory
2	Program Core	Practicum	1052234230	Data Structures Using Python	3-0-2	75	4	Theory
3	Program Core	Practicum	1052234340	Java Programming	2-0-4	90	4	Practical
4	Program Core	Practicum	1052234440	Python Programming	1-0-4	75	3	Practical
5	Program Core	Practicum	1052234540	E-Publishing Tools	1-0-4	75	3	Practical
6	Program Core	Project	1052234640	Scripting Languages	0-0-6	90	3	Practical
7	Open Elective	Advanced Skill Certification	1052234760	Advanced Skills Certification - 4	1-0-3	60	2	NA
8	Audit Course	Integrated Learning Experience	-1052234882	I&E/ Club Activity/ Community Initiatives		15	0	
9	Audit Course	Integrated Learning Experience	1052234883	Shop floor Immersion	-	08	0	-
10	Audit Course	Integrated Learning Experience	-1052234884	Student-Led Initiative	-	16	0	-
11	Audit Course	Integrated Learning Experience	-1052234885	Emerging Technology Seminars	-	08	0	-
12	Audit Course	Integrated Learning Experience	1052234886	Health & Wellness	-	15	0	-
13	Audit Course	Integrated Learning Experience	-1052234887	Special Interest Groups (Placement Training)	-	08	0	-
				Test and Revisions		45		
				Library		15		
				<b>Total Periods</b>		<b>640</b>	<b>22</b>	

**Semester V**

#	Course Category	Course Type	Code	Course Title	L-T-P	Period	Credit	End Exam
1	Program Core	Practicum	1052235130	Cloud Computing	2-0-2	60	3	Theory
2	Program Elective	Theory		Elective-1	3-0-0	45	3	Theory
3	Program Core	Practical/Lab	1052235320	Internet of Things & Digital Twins	0-0-4	60	2	Practical
4	Program Core	Practicum	1052235440	Computer Hardware and Networking	1-0-4	75	3	Practical
5	Program Elective	Practicum		Elective-2	1-0-4	75	3	Practical
6	Humanities & Social Science	Practicum	1052235654	Innovation and Startup	1-0-2	45	2	Project
7	Project / Internship	Project/Internship	1052235773	Industrial Training * [Summer Vacation - 90 Hours]		-	2	Project
8	Open Elective	Advanced Skill Certification	1052235860	Advanced Skills Certification - 5	1-0-3	60	2	NA
9	Audit Course	Integrated Learning Experience	<del>1052234882</del>	I&E/ Club Activity/ Community Initiatives		15	0	
10	Audit Course	Integrated Learning Experience	1052234883	Shop floor Immersion	-	8	0	-
11	Audit Course	Integrated Learning Experience	<del>1052234884</del>	Student-Led Initiative	-	24	0	-
12	Audit Course	Integrated Learning Experience	<del>1052234885</del>	Emerging Technology Seminars	-	8	0	-
13	Audit Course	Integrated Learning Experience	1052234886	Health & Wellness	-	30	0	-
14	Audit Course	Integrated Learning Experience	1052234887	Special Interest Groups	-	30	0	-
				Test and Revisions		75		
				Library		15		
				<b>Total Periods</b>		<b>625</b>	<b>20</b>	

**Elective 1**

#	Course Category	Course Type	Course Code	Course Title	L-T-P	Period	Credit	End Exam
1	Program Elective	Theory	1052235211	Machine Learning	3-0-0	45	3	Theory
2	Program Elective	Theory	1052235212	Data Warehousing and Data Mining	3-0-0	45	3	Theory
3	Program Elective	Theory	1052235213	Ethical Hacking	3-0-0	45	3	Theory
4	Program Elective	Theory	1052235214	Agile Product Development	3-0-0	45	3	Theory
5	Program Elective	Theory	1052235215	Artificial Intelligence	3-0-0	45	3	Theory

**Elective 2**

#	Course Category	Course Type	Course Code	Course Title	L-T-P	Period	Credit	End Exam
1	Program Elective	Practicum	1052235541	Data Analytics	1-0-4	75	3	Practical
2	Program Elective	Practicum	1052235542	Mobile Computing	1-0-4	75	3	Practical
3	Program Elective	Practicum	1052235543	Component Based Technologies	1-0-4	75	3	Practical
4	Program Elective	Practicum	1052235544	Multimedia Systems	1-0-4	75	3	Practical
5	Program Elective	Practicum	1052235545	Full Stack Developer	1-0-4	75	3	Practical
6	Program Elective	Practicum	1052235546	Robotic Process Automation	1-0-4	75	3	Practical

## Semester VI

#	Course Category	Course Type	Course Title	L-T-P	Period	Credit	End Exam
1	Open Elective	Theory	Electives-3 (Pathway)	3-0-0	45	3	Theory
2	Open Elective	Practicum	Elective-4 (Specialisation)	1-0-4	75	3	Practical
3	Project / Internship	Project / Internship	In-house Project / Internship / Fellowship	-	540	12	Project
<b>Total Periods</b>					<b>660</b>	<b>18</b>	

### Elective 3 (Pathway)

#	Course Category	Course Type	Course Code	Course Title	L-T-P	Period	Credit	End Exam
1	Elective   Higher Education	Theory	6000236111	Advanced Engineering Mathematics	3-0-0	45	3	Theory
2	Elective   Entrepreneurship	Theory	6000236112	Entrepreneurship	3-0-0	45	3	Theory
3	Elective   Technocrats	Theory	6000236113	Project Management	3-0-0	45	3	Theory
4	Elective   Technocrats	Theory	6000236114	Finance Fundamentals	3-0-0	45	3	Theory
5	Elective   Technologists	Theory	1052236115	5G Technology	3-0-0	45	3	Theory
6	Elective   Technologists	Theory	1052236116	DevOps	3-0-0	45	3	Theory

**Elective 4 (Specialisation)**

#	Course Category	Course Type	Course Code	Course Title	L-T-P	Period	Credit	End Exam
1	Elective	Practicum	1052236241	Data Science	1-0-4	75	3	Practical
2	Elective	Practicum	1052236242	Cloud Platform	1-0-4	75	3	Practical
3	Elective	Practicum	1052236243	Data Visualization	1-0-4	75	3	Practical
4	Elective	Practicum	1052236244	Advance DBMS	1-0-4	75	3	Practical
5	Elective	Practicum	1052236245	Mobile Application Development	1-0-4	75	3	Practical
6	Elective	Practicum	1052236246	UI & UX Design	1-0-4	75	3	Practical

**Project / Internship**

#	Course Category	Course Type	Course Code	Course Title	L-T-P	Period	Credit	End Exam
1	Project / Internship	Project / Internship	1052236351	Internship	-	540	12	Project
2	Project / Internship	Project / Internship	1052236353	Fellowship	-	540	12	Project
3	Project / Internship	Project / Internship	1052236374	In-house Project	-	540	12	Project