

Course Name:		Computer Science and Engineering														
Semester		1														
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme						Total Marks		
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks			Practical Marks					
								ESE	CA	PA	Total	PV	TW		Total	
1	25130101	Engineering Mathematics I	4	2	0	6	6	50	10	40	100	-	-	-	100	25130101-Engineering Mathematics I
2	25130102	English	3	2	0	5	5	50	10	40	100	-	-	-	100	25130102-English
3	25130103	Engineering Physics	3	0	2	5	4	50	10	40	100	30	20	50	150	25130103-Engineering Physics
4	25130104	Programming in C	2	0	4	6	4	50	10	40	100	30	20	50	150	25130104-Programming in C
5	25130105	Computer Applications & Peripherals	0	0	4	4	2	-	-	-	-	60	40	100	100	25130105-Computer Applications & Peripherals
6	25130106	Web Page Designing	0	0	4	4	2	-	-	-	-	60	40	100	100	25130106-Web Page Designing
			12	4	14	30	23								700	

Semester		2														
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme						Total Marks		
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks			Practical Marks					
								ESE	CA	PA	Total	PV	TW		Total	
1	025130201	Engineering Mathematics II	4	2	0	6	6	50	10	40	100	-	-	-	100	025130201-Engineering Mathematics II
2	025130202	Advanced Programming in C	2	0	4	6	4	50	10	40	100	30	20	50	150	025130202-Advanced Programming in C
3	025130203	Digital Electronics	3	0	2	5	4	50	10	40	100	30	20	50	150	025130203-Digital Electronics
5	025130204	Environmental Studies	0	0	2	2	1	-	-	-	-	60	40	100	100	025130204-Environmental Studies
4	025130205	Web Development Tools	0	0	6	6	3	-	-	-	-	60	40	100	100	025130205-Web Development Tools
6	025130206	Professional Practices	0	0	4	4	2	-	-	-	-	60	40	100	100	025130206-Professional Practices
			9	2	18	29	20								700	

Semester		3														
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme						Total Marks		
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks			Practical Marks					
								ESE	CA	PA	Total	PV	TW		Total	
1	025130301	Operating System	3	0	2	5	4	50	10	40	100	30	20	50	150	
2	025130302	Python Programming	2	0	4	6	4	50	10	40	100	30	20	50	150	
3	025130303	Database Management System	3	0	4	7	5	50	10	40	100	30	20	50	150	
4	025130304	Data Communication & Networking	3	0	2	5	4	50	10	40	100	30	20	50	150	
5	025130305	Microprocessor & Interfacing Techniques	3	0	2	5	4	50	10	40	100	30	20	50	150	
6	025130306	Social & Cultural Values	0	0	2	2	1	-	-	-	-	60	40	100	100	
			14	0	16	30	22								850	

Semester		4														
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme						Total Marks		
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks			Practical Marks					
								ESE	CA	PA	Total	PV	TW		Total	
1	025130401	Data Structures	3	0	4	7	5	50	10	40	100	30	20	50	150	
2	025130402	Computer System Organisation	3	0	0	3	3	50	10	40	100	-	-	-	100	
3	025130403	Web Technology	2	0	4	6	4	50	10	40	100	30	20	50	150	
4	025130404	Data Science using Python	3	0	4	7	5	50	10	40	100	30	20	50	150	
5	025130405	Software Engineering	3	0	2	5	4	50	10	40	100	30	20	50	150	
6	025130406	Management Skills	0	0	2	2	1	-	-	-	-	60	40	100	100	
			14	0	16	30	22								800	

Semester		5														
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme						Total Marks		
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks			Practical Marks					
								ESE	CA	PA	Total	PV	TW		Total	
1	025130501	Project I	0	0	4	4	2	-	-	-	-	60	40	100	100	
2	025130502	Java Programming	3	0	4	7	5	50	10	40	100	30	20	50	150	
3	025130503	Network Security & Management	2	0	4	6	4	50	10	40	100	30	20	50	150	
4	025130504	Fundamentals of AI	3	0	4	7	5	50	10	40	100	30	20	50	150	
5	-	Programme Elective I	3	0	4	7	5	50	10	40	100	30	20	50	150	
6	025130515	Summer Internship (4-6 weeks) after IVth Sem					4					60	40	100	100	
			11	0	20	31	25								800	

Semester		6														
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme						Total Marks		
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks			Practical Marks					
								ESE	CA	PA	Total	PV	TW		Total	
1	025130601	Project II	0	0	8	8	4	-	-	-	-	100	150	250	250	
2	025130602	Mobile Computing & App Development	3	0	4	7	5	50	10	40	100	30	20	50	150	
3	025130603	Machine Learning	3	0	4	7	5	50	10	40	100	30	20	50	150	
4	-	Programme Elective II	3	0	4	7	5	50	10	40	100	30	20	50	150	
5	025130615	Seminar					2					60	40	100	100	
			9	0	20	29	21								800	

Programme Elective 1

1	025130505	Fundamentals of Cloud Computing	3	0	4	7	5	50	10	40	100	30	20	50	150	
2	025130506	Digital Marketing Fundamentals	3	0	4	7	5	50	10	40	100	30	20	50	150	
3	025130507	Web and Network Security	3	0	4	7	5	50	10	40	100	30	20	50	150	
4	025130508	Emerging Trends & Technologies	3	0	4	7	5	50	10	40	100	30	20	50	150	
5	025130509	Software Testing	3	0	4	7	5	50	10	40	100	30	20	50	150	

Programme Elective 2

1	025130605	Big Data & Big Data Tools	3	0	4	7	5	50	10	40	100	30	20	50	150	
2	025130606	Applied Digital Marketing	3	0	4	7	5	50	10	40	100	30	20	50	150	
3	025130607	Fundamentals of Cyber Security	3	0	4	7	5	50	10	40	100	30	20	50	150	
4	025130608	Internet of Things (IoT)	3	0	4	7	5	50	10	40	100	30	20	50	150	
5	025130609	Automated Software Testing	3	0	4	7	5	50	10	40	100	30	20	50	150	

Course Name:			Computer Engineering												
Semester			1												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme						Total Marks	
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			
								ESE	CA	PA	Total	PV	TW		Total
1	25020101	Engineering Mathematics I	4	2	0	6	6	50	10	40	100	-	-	-	100
2	25020102	English	3	2	0	5	5	50	10	40	100	-	-	-	100
3	25020103	Engineering Physics	3	0	2	5	4	50	10	40	100	30	20	50	150
4	25020104	Programming in C	2	0	4	6	4	50	10	40	100	30	20	50	150
5	25020105	Computer Applications & Peripherals	0	0	4	4	2	-	-	-	-	60	40	100	100
6	25020106	Web Page Designing	0	0	4	4	2	-	-	-	-	60	40	100	100
			12	4	14	30	23								700

Semester			2												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme						Total Marks	
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			
								ESE	CA	PA	Total	PV	TW		Total
1	25020201	Engineering Mathematics II	4	2	0	6	6	50	10	40	100	-	-	-	100
2	25020202	Advanced Programming in C	2	0	4	6	4	50	10	40	100	30	20	50	150
3	25020203	Digital Electronics	3	0	2	5	4	50	10	40	100	30	20	50	150
5	25020204	Environmental Studies	0	0	2	2	1	-	-	-	-	60	40	100	100
4	25020205	Web Development Tools	0	0	6	6	3	-	-	-	-	60	40	100	100
6	25020206	Professional Practices	0	0	4	4	2	-	-	-	-	60	40	100	100
			9	2	18	29	20								700

Semester			3												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme						Total Marks	
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			
								ESE	CA	PA	Total	PV	TW		Total
1	25020301	Operating System	3	0	2	5	4	50	10	40	100	30	20	50	150
2	25020302	Python Programming	2	0	4	6	4	50	10	40	100	30	20	50	150
3	25020303	Database Management System	3	0	4	7	5	50	10	40	100	30	20	50	150
4	25020304	Data Communication & Networking	3	0	2	5	4	50	10	40	100	30	20	50	150
5	25020305	Microprocessor & Interfacing Techniques	3	0	2	5	4	50	10	40	100	30	20	50	150
6	25020306	Social & Cultural Values	0	0	2	2	1	-	-	-	-	60	40	100	100
			14	0	16	30	22								850

Semester			4												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme						Total Marks	
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			
								ESE	CA	PA	Total	PV	TW		Total
1	25020401	Data Structures	3	0	4	7	5	50	10	40	100	30	20	50	150
2	25020402	Computer System Organisation	3	0	0	3	3	50	10	40	100	-	-	-	100
3	25020403	Web Technology	2	0	4	6	4	50	10	40	100	30	20	50	150
4	25020404	Advanced Database Management System	3	0	4	7	5	50	10	40	100	30	20	50	150
5	25020405	Software Engineering	3	0	2	5	4	50	10	40	100	30	20	50	150
6	25020406	Management Skills	0	0	2	2	1	-	-	-	-	60	40	100	100
			14	0	16	30	22								800

Semester			5												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme						Total Marks	
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			
								ESE	CA	PA	Total	PV	TW		Total
1	25020501	Project I	0	0	4	4	2	-	-	-	-	60	40	100	100
2	25020502	Java Programming	3	0	4	7	5	50	10	40	100	30	20	50	150
3	25020503	Network Security & Management	2	0	4	6	4	50	10	40	100	30	20	50	150
4	25020504	Emerging Trends & Technologies	3	0	4	7	5	50	10	40	100	30	20	50	150
5	-	Programme Elective I	3	0	4	7	5	50	10	40	100	30	20	50	150
6	25020515	Summer Internship					4					60	40	100	100
			11	0	20	31	25								800

Semester			6												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme						Total Marks	
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			
								ESE	CA	PA	Total	PV	TW		Total
1	25020601	Project II	0	0	8	8	4	-	-	-	-	100	150	250	250
2	25020602	Mobile Computing & App Development	3	0	4	7	5	50	10	40	100	30	20	50	150
3	25020603	Internet of Things (IoT)	3	0	4	7	5	50	10	40	100	30	20	50	150
4	-	Programme Elective II	3	0	4	7	5	50	10	40	100	30	20	50	150
5	25020615	Seminar					2					60	40	100	100
			9	0	20	29	21								800

Programme Elective 1

1	25020505	Fundamentals of Cloud Computing	3	0	4	7	5	50	10	40	100	30	20	50	150
2	25020506	Digital Marketing Fundamentals	3	0	4	7	5	50	10	40	100	30	20	50	150
3	25020507	Web and Network Security	3	0	4	7	5	50	10	40	100	30	20	50	150
4	25020508	Fundamentals of AI	3	0	4	7	5	50	10	40	100	30	20	50	150
5	25020509	Software Testing	3	0	4	7	5	50	10	40	100	30	20	50	150

Programme Elective 2

1	025020605	Big Data & Big Data Tools	3	0	4	7	5	50	10	40	100	30	20	50	150
2	025020606	Applied Digital Marketing	3	0	4	7	5	50	10	40	100	30	20	50	150
3	025020607	Fundamentals of Cyber Security	3	0	4	7	5	50	10	40	100	30	20	50	150
4	025020608	Machine Learning	3	0	4	7	5	50	10	40	100	30	20	50	150
5	025020609	Automated Software Testing	3	0	4	7	5	50	10	40	100	30	20	50	150

Course Name:			Information Technology												
Semester			1												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme						Total Marks	
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks			Practical Marks				
								ESE	CA	PA	Total	PV	TW		Total
1	25040101	Engineering Mathematics I	4	2	0	6	6	50	10	40	100	-	-	-	100
2	25040102	English	3	2	0	5	5	50	10	40	100	-	-	-	100
3	25040103	Engineering Physics	3	0	2	5	4	50	10	40	100	30	20	50	150
4	25040104	Programming in C	2	0	4	6	4	50	10	40	100	30	20	50	150
5	25040105	Computer Applications & Peripherals	0	0	4	4	2	-	-	-	-	60	40	100	100
6	25040106	Web Page Designing	0	0	4	4	2	-	-	-	-	60	40	100	100
			12	4	14	30	23								700

Semester			2												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme						Total Marks	
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks			Practical Marks				
								ESE	CA	PA	Total	PV	TW		Total
1	25040201	Engineering Mathematics II	4	2	0	6	6	50	10	40	100	-	-	-	100
2	25040202	Advanced Programming in C	2	0	4	6	4	50	10	40	100	30	20	50	150
3	25040203	Digital Electronics	3	0	2	5	4	50	10	40	100	30	20	50	150
5	25040204	Environmental Studies	0	0	2	2	1	-	-	-	-	60	40	100	100
4	25040205	Web Development Tools	0	0	6	6	3	-	-	-	-	60	40	100	100
6	25040206	Professional Practices	0	0	4	4	2	-	-	-	-	60	40	100	100
			9	2	18	29	20								700

Semester			3												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme						Total Marks	
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks			Practical Marks				
								ESE	CA	PA	Total	PV	TW		Total
1	25040301	Operating System	3	0	2	5	4	50	10	40	100	30	20	50	150
2	25040302	Python Programming	2	0	4	6	4	50	10	40	100	30	20	50	150
3	25040303	Database Management System	3	0	4	7	5	50	10	40	100	30	20	50	150
4	25040304	Data Communication & Networking	3	0	2	5	4	50	10	40	100	30	20	50	150
5	25040305	Microprocessor & Interfacing Techniques	3	0	2	5	4	50	10	40	100	30	20	50	150
6	25040306	Social & Cultural Values	0	0	2	2	1	-	-	-	-	60	40	100	100
			14	0	16	30	22								850

Semester			4												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme						Total Marks	
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks			Practical Marks				
								ESE	CA	PA	Total	PV	TW		Total
1	25040401	Data Structures	3	0	4	7	5	50	10	40	100	30	20	50	150
2	25040402	Information & Communication Technology	3	0	0	3	3	50	10	40	100	-	-	-	100
3	25040403	Web Technology	2	0	4	6	4	50	10	40	100	30	20	50	150
4	25040404	Advanced Database Management System	3	0	4	7	5	50	10	40	100	30	20	50	150
5	25040405	Software Engineering	3	0	2	5	4	50	10	40	100	30	20	50	150
6	25040406	Management Skills	0	0	2	2	1	-	-	-	-	60	40	100	100
			14	0	16	30	22								800

Semester			5												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme						Total Marks	
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks			Practical Marks				
								ESE	CA	PA	Total	PV	TW		Total
1	25040501	Project I	0	0	4	4	2	-	-	-	-	60	40	100	100
2	25040502	Java Programming	3	0	4	7	5	50	10	40	100	30	20	50	150
3	25040503	Network Security & Management	2	0	4	6	4	50	10	40	100	30	20	50	150
4	25040504	Emerging Trends & Technologies	3	0	4	7	5	50	10	40	100	30	20	50	150
5	-	Programme Elective I	3	0	4	7	5	50	10	40	100	30	20	50	150
6	25040515	Summer Internship					4					60	40	100	100
			11	0	20	31	25								800

Semester			6												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme						Total Marks	
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks			Practical Marks				
								ESE	CA	PA	Total	PV	TW		Total
1	25040601	Project II	0	0	8	8	4	-	-	-	-	100	150	250	250
2	25040602	Mobile Computing & App Development	3	0	4	7	5	50	10	40	100	30	20	50	150
3	25040603	Internet of Things (IoT)	3	0	4	7	5	50	10	40	100	30	20	50	150
4	-	Programme Elective II	3	0	4	7	5	50	10	40	100	30	20	50	150
5	25040615	Seminar					2					60	40	100	100
			9	0	20	29	21								800

Programme Elective 1

1	25040505	Fundamentals of Cloud Computing	3	0	4	7	5	50	10	40	100	30	20	50	150
2	25040506	Digital Marketing Fundamentals	3	0	4	7	5	50	10	40	100	30	20	50	150
3	25040507	Web and Network Security	3	0	4	7	5	50	10	40	100	30	20	50	150
4	25040508	Fundamentals of AI	3	0	4	7	5	50	10	40	100	30	20	50	150
5	25040509	Software Testing	3	0	4	7	5	50	10	40	100	30	20	50	150

Programme Elective 2

1	25040605	Big Data & Big Data Tools	3	0	4	7	5	50	10	40	100	30	20	50	150
2	25040606	Applied Digital Marketing	3	0	4	7	5	50	10	40	100	30	20	50	150
3	25040607	Fundamentals of Cyber Security	3	0	4	7	5	50	10	40	100	30	20	50	150
4	25040608	Machine Learning	3	0	4	7	5	50	10	40	100	30	20	50	150
5	25040609	Automated Software Testing	3	0	4	7	5	50	10	40	100	30	20	50	150

Course Name:			Artificial Intelligence & Machine Learning												
Semester			1												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme						Total Marks	
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks			Practical Marks				
				ESE	CA	PA	Total	PV	TW	Total					
1	25090101	Engineering Mathematics I	4	2	0	6	6	50	10	40	100	-	-	-	100
2	25090102	English	3	2	0	5	5	50	10	40	100	-	-	-	100
3	25090103	Engineering Physics	3	0	2	5	4	50	10	40	100	30	20	50	150
4	25090104	Programming in C	2	0	4	6	4	50	10	40	100	30	20	50	150
5	25090105	Computer Applications & Peripherals	0	0	4	4	2	-	-	-	-	60	40	100	100
6	25090106	Web Page Designing	0	0	4	4	2	-	-	-	-	60	40	100	100
			12	4	14	30	23								700

Semester			2												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme						Total Marks	
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks			Practical Marks				
				ESE	CA	PA	Total	PV	TW	Total					
1	25090201	Engineering Mathematics II	4	2	0	6	6	50	10	40	100	-	-	-	100
2	25090202	Advanced Programming in C	2	0	4	6	4	50	10	40	100	30	20	50	150
3	25090203	Digital Electronics	3	0	2	5	4	50	10	40	100	30	20	50	150
5	25090204	Environmental Studies	0	0	2	2	1	-	-	-	-	60	40	100	100
4	25090205	Web Development Tools	0	0	6	6	3	-	-	-	-	60	40	100	100
6	25090206	Professional Practices	0	0	4	4	2	-	-	-	-	60	40	100	100
			9	2	18	29	20								700

Semester			3												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme						Total Marks	
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks			Practical Marks				
				ESE	CA	PA	Total	PV	TW	Total					
1	25090301	Operating System	3	0	2	5	4	50	10	40	100	30	20	50	150
2	25090302	Python Programming	2	0	4	6	4	50	10	40	100	30	20	50	150
3	25090303	Database Management System	3	0	4	7	5	50	10	40	100	30	20	50	150
4	25090304	Data Communication & Networking	3	0	2	5	4	50	10	40	100	30	20	50	150
5	25090305	Microprocessor & Interfacing Techniques	3	0	2	5	4	50	10	40	100	30	20	50	150
6	25090306	Social & Cultural Values	0	0	2	2	1	-	-	-	-	60	40	100	100
			14	0	16	30	22								850

Semester			4												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme						Total Marks	
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks			Practical Marks				
				ESE	CA	PA	Total	PV	TW	Total					
1	25090401	Data Structures	3	0	4	7	5	50	10	40	100	30	20	50	150
2	25090402	Computer System Organisation	3	0	0	3	3	50	10	40	100	-	-	-	100
3	25090403	Web Technology	2	0	4	6	4	50	10	40	100	30	20	50	150
4	25090404	Advanced Database Management System	3	0	4	7	5	50	10	40	100	30	20	50	150
5	25090405	Software Engineering	3	0	2	5	4	50	10	40	100	30	20	50	150
6	25090406	Management Skills	0	0	2	2	1	-	-	-	-	60	40	100	100
			14	0	16	30	22								800

Semester			5												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme						Total Marks	
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks			Practical Marks				
				ESE	CA	PA	Total	PV	TW	Total					
1	25090501	Project I	0	0	4	4	2	-	-	-	-	60	40	100	100
2	25090502	Java Programming	3	0	4	7	5	50	10	40	100	30	20	50	150
3	25090503	Network Security & Management	2	0	4	6	4	50	10	40	100	30	20	50	150
4	25090504	Fundamentals of AI	3	0	4	7	5	50	10	40	100	30	20	50	150
5	-	Programme Elective I	3	0	4	7	5	50	10	40	100	30	20	50	150
6	25090515	Summer Internship					4					60	40	100	100
			11	0	20	31	25								800

Semester			6												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme						Total Marks	
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks			Practical Marks				
				ESE	CA	PA	Total	PV	TW	Total					
1	25090601	Project II	0	0	8	8	4	-	-	-	-	100	150	250	250
2	25090602	Mobile Computing & App Development	3	0	4	7	5	50	10	40	100	30	20	50	150
3	25090603	Machine Learning	3	0	4	7	5	50	10	40	100	30	20	50	150
4	-	Programme Elective II	3	0	4	7	5	50	10	40	100	30	20	50	150
5	25090615	Seminar					2					60	40	100	100
			9	0	20	29	21								800

Programme Elective 1

1	25090505	Fundamentals of Cloud Computing	3	0	4	7	5	50	10	40	100	30	20	50	150
2	25090506	Digital Marketing Fundamentals	3	0	4	7	5	50	10	40	100	30	20	50	150
3	25090507	Web and Network Security	3	0	4	7	5	50	10	40	100	30	20	50	150
4	25090508	Emerging Trends & Technologies	3	0	4	7	5	50	10	40	100	30	20	50	150
5	25090509	Software Testing	3	0	4	7	5	50	10	40	100	30	20	50	150

Programme Elective 2

1	25090605	Big Data & Big Data Tools	3	0	4	7	5	50	10	40	100	30	20	50	150
2	25090606	Applied Digital Marketing	3	0	4	7	5	50	10	40	100	30	20	50	150
3	25090607	Fundamentals of Cyber Security	3	0	4	7	5	50	10	40	100	30	20	50	150
4	25090608	Internet of Things (IoT)	3	0	4	7	5	50	10	40	100	30	20	50	150
5	25090609	Automated Software Testing	3	0	4	7	5	50	10	40	100	30	20	50	150

Course Name:			Cloud Computing & Big Data												
Semester			1												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme							
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			Total Marks
								ESE	CA	PA	Total	PV	TW	Total	
1	25100101	Engineering Mathematics I	4	2	0	6	6	50	10	40	100	-	-	-	100
2	25100102	English	3	2	0	5	5	50	10	40	100	-	-	-	100
3	25100103	Engineering Physics	3	0	2	5	4	50	10	40	100	30	20	50	150
4	25100104	Programming in C	2	0	4	6	4	50	10	40	100	30	20	50	150
5	25100105	Computer Applications & Peripherals	0	0	4	4	2	-	-	-	-	60	40	100	100
6	25100106	Web Page Designing	0	0	4	4	2	-	-	-	-	60	40	100	100
			12	4	14	30	23								700

Semester			2												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme							
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			Total Marks
								ESE	CA	PA	Total	PV	TW	Total	
1	25100201	Engineering Mathematics II	4	2	0	6	6	50	10	40	100	-	-	-	100
2	25100202	Advanced Programming in C	2	0	4	6	4	50	10	40	100	30	20	50	150
3	25100203	Digital Electronics	3	0	2	5	4	50	10	40	100	30	20	50	150
5	25100204	Environmental Studies	0	0	2	2	1	-	-	-	-	60	40	100	100
4	25100205	Web Development Tools	0	0	6	6	3	-	-	-	-	60	40	100	100
6	25100206	Professional Practices	0	0	4	4	2	-	-	-	-	60	40	100	100
			9	2	18	29	20								700

Semester			3												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme							
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			Total Marks
								ESE	CA	PA	Total	PV	TW	Total	
1	25100301	Operating System	3	0	2	5	4	50	10	40	100	30	20	50	150
2	25100302	Python Programming	2	0	4	6	4	50	10	40	100	30	20	50	150
3	25100303	Database Management System	3	0	4	7	5	50	10	40	100	30	20	50	150
4	25100304	Data Communication & Networking	3	0	2	5	4	50	10	40	100	30	20	50	150
5	25100305	Microprocessor & Interfacing Techniques	3	0	2	5	4	50	10	40	100	30	20	50	150
6	25100306	Social & Cultural Values	0	0	2	2	1	-	-	-	-	60	40	100	100
			14	0	16	30	22								850

Semester			4												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme							
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			Total Marks
								ESE	CA	PA	Total	PV	TW	Total	
1	25100401	Data Structures	3	0	4	7	5	50	10	40	100	30	20	50	150
2	25100402	Computer System Organisation	3	0	0	3	3	50	10	40	100	-	-	-	100
3	25100403	Web Technology	2	0	4	6	4	50	10	40	100	30	20	50	150
4	25100404	Advanced Database Management System	3	0	4	7	5	50	10	40	100	30	20	50	150
5	25100405	Software Engineering	3	0	2	5	4	50	10	40	100	30	20	50	150
6	25100406	Management Skills	0	0	2	2	1	-	-	-	-	60	40	100	100
			14	0	16	30	22								800

Semester			5												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme							
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			Total Marks
								ESE	CA	PA	Total	PV	TW	Total	
1	25100501	Project I	0	0	4	4	2	-	-	-	-	60	40	100	100
2	25100502	Java Programming	3	0	4	7	5	50	10	40	100	30	20	50	150
3	25100503	Network Security & Management	2	0	4	6	4	50	10	40	100	30	20	50	150
4	25100504	Fundamentals of Cloud Computing	3	0	4	7	5	50	10	40	100	30	20	50	150
5	-	Programme Elective I	3	0	4	7	5	50	10	40	100	30	20	50	150
6	25100515	Summer Internship					4					60	40	100	100
			11	0	20	31	25								800

Semester			6												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme							
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			Total Marks
								ESE	CA	PA	Total	PV	TW	Total	
1	25100601	Project II	0	0	8	8	4	-	-	-	-	100	150	250	250
2	25100602	Mobile Computing & App Development	3	0	4	7	5	50	10	40	100	30	20	50	150
3	25100603	Big Data & Big Data Tools	3	0	4	7	5	50	10	40	100	30	20	50	150
4	-	Programme Elective II	3	0	4	7	5	50	10	40	100	30	20	50	150
5	25100615	Seminar					2					60	40	100	100
			9	0	20	29	21								800

Programme Elective 1

1	25100505	Emerging Trends & Technologies	3	0	4	7	5	50	10	40	100	30	20	50	150
2	25100506	Digital Marketing Fundamentals	3	0	4	7	5	50	10	40	100	30	20	50	150
3	25100507	Web and Network Security	3	0	4	7	5	50	10	40	100	30	20	50	150
4	25100508	Fundamentals of AI	3	0	4	7	5	50	10	40	100	30	20	50	150
5	25100509	Software Testing	3	0	4	7	5	50	10	40	100	30	20	50	150

Programme Elective 2

1	25100605	Internet of Things (IoT)	3	0	4	7	5	50	10	40	100	30	20	50	150
2	25100606	Applied Digital Marketing	3	0	4	7	5	50	10	40	100	30	20	50	150
3	25100607	Fundamentals of Cyber Security	3	0	4	7	5	50	10	40	100	30	20	50	150
4	25100608	Machine Learning	3	0	4	7	5	50	10	40	100	30	20	50	150
5	25100609	Automated Software Testing	3	0	4	7	5	50	10	40	100	30	20	50	150

Course Name:			Gaming and Animation												
Semester			1												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme							Total Marks
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			
								ESE	CA	PA	Total	PV	TW	Total	
1	25110101	Engineering Mathematics I	4	2	0	6	6	50	10	40	100	-	-	-	100
2	25110102	English	3	2	0	5	5	50	10	40	100	-	-	-	100
3	25110103	Engineering Physics	3	0	2	5	4	50	10	40	100	30	20	50	150
4	25110104	Programming in C	2	0	4	6	4	50	10	40	100	30	20	50	150
5	25110105	Computer Applications & Peripherals	0	0	4	4	2	-	-	-	-	60	40	100	100
6	25110106	Web Page Designing	0	0	4	4	2	-	-	-	-	60	40	100	100
			12	4	14	30	23								700

Semester			2												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme							Total Marks
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			
								ESE	CA	PA	Total	PV	TW	Total	
1	25110201	Engineering Mathematics II	4	2	0	6	6	50	10	40	100	-	-	-	100
2	25110202	Advanced Programming in C	2	0	4	6	4	50	10	40	100	30	20	50	150
3	25110203	Digital Electronics	3	0	2	5	4	50	10	40	100	30	20	50	150
5	25110204	Environmental Studies	0	0	2	2	1	-	-	-	-	60	40	100	100
4	25110205	Web Development Tools	0	0	6	6	3	-	-	-	-	60	40	100	100
6	25110206	Professional Practices	0	0	4	4	2	-	-	-	-	60	40	100	100
			9	2	18	29	20								700

Semester			3												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme							Total Marks
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			
								ESE	CA	PA	Total	PV	TW	Total	
1	25110301	Operating System	3	0	2	5	4	50	10	40	100	30	20	50	150
2	25110302	Python Programming	2	0	4	6	4	50	10	40	100	30	20	50	150
3	25110303	Database Management System	3	0	4	7	5	50	10	40	100	30	20	50	150
4	25110304	Data Communication & Networking	3	0	2	5	4	50	10	40	100	30	20	50	150
5	25110305	Fundamentals of Animation	3	0	2	5	4	50	10	40	100	30	20	50	150
6	25110306	Social & Cultural Values	0	0	2	2	1	-	-	-	-	60	40	100	100
			14	0	16	30	22								850

Semester			4												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme							Total Marks
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			
								ESE	CA	PA	Total	PV	TW	Total	
1	25110401	Data Structures	3	0	4	7	5	50	10	40	100	30	20	50	150
2	25110402	Character Design Tools	0	0	6	6	3				0	40	60	100	100
3	25110403	Web Technology	2	0	4	6	4	50	10	40	100	30	20	50	150
4	25110404	Advanced Database Management System	3	0	4	7	5	50	10	40	100	30	20	50	150
5	25110405	Software Engineering	3	0	2	5	4	50	10	40	100	30	20	50	150
6	25110406	Management Skills	0	0	2	2	1	-	-	-	-	60	40	100	100
			11	0	22	33	22								800

Scripting for Games			5												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme							Total Marks
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			
								ESE	CA	PA	Total	PV	TW	Total	
1	25110501	Project I	0	0	4	4	2	-	-	-	-	60	40	100	100
2	25110502	Scripting for Games	3	0	4	7	5	50	10	40	100	30	20	50	150
3	25110503	Network Security & Management	2	0	4	6	4	50	10	40	100	30	20	50	150
4	25110504	Emerging Trends & Technologies	3	0	4	7	5	50	10	40	100	30	20	50	150
5	-	Programme Elective I	3	0	4	7	5	50	10	40	100	30	20	50	150
6	25110515	Summer Internship					4					60	40	100	100
			11	0	20	31	25								800

Semester			6												
S#.	Subject Code	Subject Name	Teaching Hours / Week					Examination Scheme							Total Marks
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			
								ESE	CA	PA	Total	PV	TW	Total	
1	25110601	Project II	0	0	8	8	4	-	-	-	-	100	150	250	250
2	25110602	Mobile Computing & App Development	3	0	4	7	5	50	10	40	100	30	20	50	150
3	25110603	Game Design and Development	0	0	10	10	5	-	-	-	-	60	40	100	100
4	-	Programme Elective II	3	0	4	7	5	50	10	40	100	30	20	50	150
5	25110615	Seminar					2					60	40	100	100
			6	0	26	32	21								750

Programme Elective 1

1	25110505	Fundamentals of Cloud Computing	3	0	4	7	5	50	10	40	100	30	20	50	150
2	25110506	Digital Marketing Fundamentals	3	0	4	7	5	50	10	40	100	30	20	50	150
3	25110507	Web and Network Security	3	0	4	7	5	50	10	40	100	30	20	50	150
4	25110508	Fundamentals of AI	3	0	4	7	5	50	10	40	100	30	20	50	150
5	25110509	Software Testing	3	0	4	7	5	50	10	40	100	30	20	50	150

Programme Elective 2

1	25110605	Big Data & Big Data Tools	3	0	4	7	5	50	10	40	100	30	20	50	150
2	25110606	Applied Digital Marketing	3	0	4	7	5	50	10	40	100	30	20	50	150
3	25110607	Fundamentals of Cyber Security	3	0	4	7	5	50	10	40	100	30	20	50	150
4	25110608	Machine Learning	3	0	4	7	5	50	10	40	100	30	20	50	150
5	25110609	Automated Software Testing	3	0	4	7	5	50	10	40	100	30	20	50	150

Course Name:			Mechanical Engineering													
Semester			1													
S#.	Subject Code	Subject Name	Teaching Hours / Week					EvaluationScheme								
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			Total Marks	
								ESE	CA	PA	Total	PV	TW	Total		
1	25060101	Engineering Mathematics I	4	2	0	6	6	50	10	40	100	-	-	-	100	
2	25060102	English	3	2	0	5	5	50	10	40	100	-	-	-	100	
3	25060103	Applied Physics	3	0	2	5	4	50	10	40	100	30	20	50	150	
5	25060104	Environmental Studies	0	0	2	2	1	-	-	-	-	60	40	100	100	
4	25060105	Engineering Graphics	2	0	4	6	4	50	10	40	100	30	20	50	150	
6	25060106	Mechanical Engineering Workshop	0	0	4	4	2	-	-	-	-	60	40	100	100	
			12	4	12	28	22								700	

Semester			2													
S#.	Subject Code	Subject Name	Teaching Hours / Week					EvaluationScheme								
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			Total Marks	
								ESE	CA	PA	Total	PV	TW	Total		
1	25060201	Engineering Mathematics II	4	2	0	6	6	50	10	40	100	-	-	-	100	
4	25060202	Fundamentals of Electricals & Electronics Engineering	3	0	2	5	4	50	10	40	100	30	20	50	150	
3	25060203	Applied Mechanics	3	0	2	5	4	50	10	40	100	30	20	50	150	
4	25060204	Material Science	3	0	2	5	4	50	10	40	100	30	20	50	150	
5	25060205	Computer Applications	0	0	4	4	2	-	-	-	-	60	40	100	100	
6	25060206	Professional Practices	0	0	4	4	2	-	-	-	-	60	40	100	100	
			13	2	14	29	22								750	

Semester			3													
S#.	Subject Code	Subject Name	Teaching Hours / Week					EvaluationScheme								
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			Total Marks	
								ESE	CA	PA	Total	PV	TW	Total		
1	25060301	Python Programming	2	0	4	6	4	50	10	40	100	30	20	50	150	
2	25060302	Fluid Mechanics & Machines	4	0	2	6	5	50	10	40	100	30	20	50	150	
3	25060303	Manufacturing Processes	3	0	2	5	4	50	10	40	100	30	20	50	150	
4	25060304	Thermodynamics	3	0	0	3	3	50	10	40	100	-	-	-	100	
5	25060305	Theory of Machine	4	0	2	6	5	50	10	40	100	30	20	50	150	
6	25060306	Social & Cultural Values	0	0	2	2	1	-	-	-	-	60	40	100	100	
			16	0	12	28	22								800	

Semester			4													
S#.	Subject Code	Subject Name	Teaching Hours / Week					EvaluationScheme								
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			Total Marks	
								ESE	CA	PA	Total	PV	TW	Total		
1	25060401	Thermal Engineering	3	0	2	5	4	50	10	40	100	30	20	50	150	
2	25060402	Strength of Materials	3	1	0	4	4	50	10	40	100	-	-	-	100	
3	25060403	Machine Tools & Techniques	3	0	2	5	4	50	10	40	100	30	20	50	150	
4	25060404	Metrology & Measurements	3	0	2	5	4	50	10	40	100	30	20	50	150	
5	25060405	Welding Technology	3	0	2	5	4	50	10	40	100	30	20	50	150	
6	25060406	Management Skills	0	0	2	2	1	-	-	-	-	60	40	100	100	
			15	1	10	26	21								800	

Semester			5													
S#.	Subject Code	Subject Name	Teaching Hours / Week					EvaluationScheme								
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			Total Marks	
								ESE	CA	PA	Total	PV	TW	Total		
1	25060501	Design of Machine Elements	3	0	2	5	4	50	10	40	100	30	20	50	150	
2	25060502	Entrepreneurship & Start-up	3	0	2	5	4	50	10	40	100	30	20	50	150	
3	25060503	Refrigeration Systems	3	0	2	5	4	50	10	40	100	30	20	50	150	
4	25060504	Internal Combustion Engine	3	0	2	5	4	50	10	40	100	30	20	50	150	
5	25060505	Alternative Energy Sources	3	0	2	5	4	50	10	40	100	30	20	50	150	
3	25060506	Advanced Manufacturing Processes	3	0	2	5	4	50	10	40	100	30	20	50	150	
4	25060507	Computer Integrated Manufacturing	3	0	2	5	4	50	10	40	100	30	20	50	150	
4	25060508	Product Design & Development	3	0	2	5	4	50	10	40	100	30	20	50	150	
5	25060509	Machine Design	3	0	2	5	4	50	10	40	100	30	20	50	150	
6	25060510	Project-I	0	0	6	6	3	-	-	-	-	100	50	150	150	
			15	0	18	31	23								900	

Semester			6													
S#.	Subject Code	Subject Name	Teaching Hours / Week					EvaluationScheme								
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			Total Marks	
								ESE	CA	PA	Total	PV	TW	Total		
1	25060601	Hydraulic & Pneumatics	3	0	2	5	4	50	10	40	100	30	20	50	150	
2	25060602	Energy Management & Audit	3	0	2	5	4	50	10	40	100	30	20	50	150	
2	25060603	Operation Research & Management	3	0	2	5	4	50	10	40	100	30	20	50	150	
2	25060604	Tool Design	3	0	2	5	4	50	10	40	100	30	20	50	150	
3	25060605	Project-II	0	0	10	10	5	-	-	-	-	100	100	200	200	
4	25060606	Industrial Internship	0	0	12	12	6	-	-	-	-	100	150	250	250	
			6	0	26	32	19								750	

Course Name:			Automation and Robotics													
Semester			1													
S#.	Subject Code	Subject Name	Teaching Hours / Week					EvaluationScheme								
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			Total Marks	
								ESE	CA	PA	Total	PV	TW	Total		
1	25120101	Engineering Mathematics I	4	2	0	6	6	50	10	40	100	-	-	-	100	
2	25120102	English	3	2	0	5	5	50	10	40	100	-	-	-	100	
3	25120103	Applied Physics	3	0	2	5	4	50	10	40	100	30	20	50	150	
4	25120104	Environmental Studies	0	0	2	2	1	-	-	-	-	60	40	100	100	
5	25120105	Engineering Graphics	2	0	4	6	4	50	10	40	100	30	20	50	150	
6	25120106	Mechanical & Electronics Workshop	0	0	4	4	2	-	-	-	-	60	40	100	100	
			12	4	12	28	22								700	

Semester			2													
S#.	Subject Code	Subject Name	Teaching Hours / Week					EvaluationScheme								
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			Total Marks	
								ESE	CA	PA	Total	PV	TW	Total		
1	25120201	Engineering Mathematics II	4	2	0	6	6	50	10	40	100	-	-	-	100	
4	25120202	Fundamentals of Electricals & Electronics Engineering	3	0	2	5	4	50	10	40	100	30	20	50	150	
3	25120203	Applied Mechanics	3	0	2	5	4	50	10	40	100	30	20	50	150	
4	25120204	Material Science	3	0	2	5	4	50	10	40	100	30	20	50	150	
5	25120205	Computer Applications	0	0	4	4	2	-	-	-	-	60	40	100	100	
6	25120206	Professional Practices	0	0	4	4	2	-	-	-	-	60	40	100	100	
			13	2	14	29	22								750	

Semester			3													
S#.	Subject Code	Subject Name	Teaching Hours / Week					EvaluationScheme								
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			Total Marks	
								ESE	CA	PA	Total	PV	TW	Total		
1	25120301	Python Programming	2	0	4	6	4	50	10	40	100	30	20	50	150	
2	25120302	Fluid Mechanics & Machines	4	0	2	6	5	50	10	40	100	30	20	50	150	
3	25120303	Manufacturing Processes	3	0	2	5	4	50	10	40	100	30	20	50	150	
4	25120304	Thermodynamics	3	0	0	3	3	50	10	40	100	-	-	-	100	
5	25120305	Theory of Machine	4	0	2	6	5	50	10	40	100	30	20	50	150	
6	25120306	Social & Cultural Values	0	0	2	2	1	-	-	-	-	60	40	100	100	
			16	0	12	28	22								800	

Semester			4													
S#.	Subject Code	Subject Name	Teaching Hours / Week					EvaluationScheme								
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			Total Marks	
								ESE	CA	PA	Total	PV	TW	Total		
1	25120401	Thermal Engineering	3	0	2	5	4	50	10	40	100	30	20	50	150	
2	25120402	Strength of Materials	3	1	0	4	4	50	10	40	100	-	-	-	100	
3	25120403	Machine Tools & Techniques	3	0	2	5	4	50	10	40	100	30	20	50	150	
4	25120404	Metrology & Measurements	3	0	2	5	4	50	10	40	100	30	20	50	150	
5	25120405	Welding Technology	3	0	2	5	4	50	10	40	100	30	20	50	150	
6	25120406	Management Skills	0	0	2	2	1	-	-	-	-	60	40	100	100	
			15	1	10	26	21								800	

Semester			5													
S#.	Subject Code	Subject Name	Teaching Hours / Week					EvaluationScheme								
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			Total Marks	
								ESE	CA	PA	Total	PV	TW	Total		
1	25120501	Design of Machine Elements	3	0	2	5	4	50	10	40	100	30	20	50	150	
2	25120502	Entrepreneurship & Start-up	3	0	2	5	4	50	10	40	100	30	20	50	150	
3	25120503	Principles of Robotics	3	0	2	5	4	50	10	40	100	30	20	50	150	
4	25120504	Robotics Programming	3	0	2	5	4	50	10	40	100	30	20	50	150	
5	25120505	Advanced Manufacturing Processes	3	0	2	5	4	50	10	40	100	30	20	50	150	
6	25120506	Project-I	0	0	6	6	3	-	-	-	-	100	50	150	150	
			15	0	16	31	23								900	

Semester			6													
S#.	Subject Code	Subject Name	Teaching Hours / Week					EvaluationScheme								
			L	T	P	Total Teaching Hours	Total Credit	Theory Marks				Practical Marks			Total Marks	
								ESE	CA	PA	Total	PV	TW	Total		
1	25120601	Hydraulic & Pneumatics	3	0	2	5	4	50	10	40	100	30	20	50	150	
2	25120602	Industrial Automation	3	0	2	5	4	50	10	40	100	30	20	50	150	
3	25120603	Project-II	0	0	10	10	5	-	-	-	-	100	100	200	200	
4	25120604	Industrial Internship	0	0	12	12	6	-	-	-	-	100	150	250	250	
			6	0	26	32	19								750	