

Semester – I							
Sr. No.	Course Code	Course Title	L	T	P	C	Marks
A. Ability Enhancement Compulsory Course							
1	AECC101	Fundamentals of English	2	0	0	2	100
B. Skill Enhancement Courses							
a) Skill Enhancement compulsory course							
2	SECC101	Internship	0	0	2	2	50
3	SECC102	Foundation Course	0	1	1	2	50
C. Core Course							
4	BTEC101	Basics of Electrical & electronics	3	0	2	4	150
5	BTMA102	Mathematics – I	3	1	0	4	100
6	BTCS103	Computer Programming-I	3	0	2	4	150
7	BTPY104	Engineering Physics	3	0	2	4	150
8	BTCS106	ICT Workshop	0	0	2	1	50
9	BTFS106	Fundamental in Fire & Environment, health, Safety	2	0	0	2	100
Total						25	700

Semester – II							
Sr. No.	Course Code	Course Title	L	T	P	C	Marks
A. Ability Enhancement Compulsory Course							
1	AECC201	Communication Skills in English	2	0	0	2	100
B. Skill Enhancement Courses							
a) Skill Enhancement compulsory course							
2	SECC201	Internship	0	0	0	0	100
C. Core Course							
3	BTCS201	Object oriented Programming with C++	3	0	2	4	150
4	BTCS202	Data Structures & Algorithms	3	0	2	4	150
5	BTCS203	Web Technologies	3	0	2	4	150
6	BTCS205	Mathematics - II	3	1	0	4	100
7	BTCS204	Digital Electronics	3	0	2	4	150
8	BTCS206	Emerging Technologies	0	0	0	0	50
Total						22	950

Semester – III								
Sr. No.	Course Code	Course Title	L	T	P	C	Marks	
A. Ability Enhancement Compulsory Course								
1	AECC301	Entrepreneurship Development	2	0	0	2	100	
B. Skill Enhancement Courses								
a) Skill Enhancement compulsory course								
2	SECC301	Internship	0	0	0	2	100	
C. Core Course								
3	BTCS301	Discrete Mathematics	3	1	0	4	100	
4	BTCS302	Object Oriented Programming with JAVA	3	0	2	4	150	
5	BTCS303	Operating System	3	0	2	4	150	
6	BTCS304	Computer Organization	3	1	0	4	100	
7	BTCS305	Specialized Track I / Specialized Track II / Specialized Track III	3	0	2	4	150	
Total							24	850

Semester – IV								
Sr. No.	Course Code	Course Title	L	T	P	C	Marks	
A. Ability Enhancement Compulsory Course								
1	AECC401	Environmental Science	2	0	0	2	100	
B. Skill Enhancement Courses								
a) Skill Enhancement compulsory course								
2	SECC401	Internship	0	0	0	2	100	
C. Core Course								
3	BTCS401	Mathematics - III	3	1	0	4	100	
4	BTCS402	Computer Networks	3	0	2	4	150	
5	BTCS403	Microprocessor & Interfacing	3	0	2	4	150	
6	BTCS404	Database Management Systems	3	0	2	4	150	
7	BTCS405 BTCS406 BTCS407	Specialized Track I / Specialized Track II / Specialized Track III	4	0	2	5	150	
Total							24	900

Semester – V							
Sr. No.	Course Code	Course Title	L	T	P	C	Marks
A. Ability Enhancement Compulsory Course							
1	AECC501	Disaster Risk Management	2	0	0	2	100
B. Skill Enhancement Courses							
a) Skill Enhancement compulsory course							
2	SECC501	Internship	0	0	0	2	100
C. Core Course							
3	BTCS501	NPTEL Elective	2	0	0	2	100
4	BTCS502	Design and Analysis of Algorithms	3	1	0	4	100
5	BTCS503	Software Engineering	3	0	2	4	150
7	BTCS504	Advanced Web Technologies	3	0	2	4	150
8	BTCS505	Specialized Track I /	3	0	2	4	150
	BTCS506	Specialized Track II /					
	BTCS507	Specialized Track III					
Total						22	850

Semester – VI							
Sr. No.	Course Code	Course Title	L	T	P	C	Marks
A. Ability Enhancement Compulsory Course							
1	AECC601	Indian Constitution	2	0	0	2	100
B. Skill Enhancement Courses							
a) Skill Enhancement compulsory course							
2	SECC601	Industrial Internship	0	0	0	2	100
3	SECC602	Minor Project - I	0	0	6	3	100
C. Core Courses							
4	BTCS601	Professional Elective - I	3	0	2	4	150
5	BTCS602	Theory of Computation	3	1	0	4	100
6	BTCS603	Advance Java Technology	3	0	2	4	150

7	BTCS604	Specialized Track I						
	BTCS605	Specialized Track II	3	0	2	4	150	
	BTCS606	Specialized Track III						
8	BTCS607	Specialized Track I						
	BTCS608	Specialized Track II	3	0	2	4	150	
	BTCS609	Specialized Track III						
Total							24	900

Semester – VII

Sr. No.	Course Code	Course Title	L	T	P	C	Marks	
A. Skill Enhancement Courses								
a) Skill Enhancement compulsory course								
1	SECC701	Industrial Internship	0	0	0	2	100	
2	SECC702	Minor Project - II	0	0	6	3	100	
B. Core Courses								
3	BTCS701	Professional Elective - II	3	0	2	4	150	
4	BTCS702	Mobile Application Development	2	0	4	4	150	
5	BTCS703	Specialized Track I	3	0	0	3	100	
6	BTCS704	Specialized Track II	3	0	2	4	150	
7	BTCS705	Specialized Track I						
	BTCS706	Specialized Track II						
	BTCS707	Specialized Track III	3	0	2	4	150	
	BTCS708	Specialized Track III						
Total							23	900

Semester – VIII							
Sr. No.	Course Code	Course Title	L	T	P	C	Marks
A. Skill Enhancement Courses							
a) Skill Enhancement compulsory course							
1	SECC801	Major Project	0	0	20	10	100
Total						5	100

Specialization Courses				
Sr. No.	Semester	Data Science, Artificial Intelligence & Machine Learning	IOT & Automation	Cyber Security (Specialized Track III)
1	Semester III	Python Programming	Python Programming	Python Programming
2	Semester IV	Fundamental of AI & ML	Fundamental of Internet-Of-Things	Fundamentals of Cyber Security
3	Semester V	Data Science for Engineers	IOT Architecture and Protocols	Network security and access control
4	Semester VI	Deep Learning	Wireless Sensor Networks (WSN) & IOT Standards	Platform & Application security principles
5	Semester VI	Big Data Architecture and Programming	Data Analytics for IOT	Wireless and Mobile Device security principles
6	Semester VII	Natural language Processing	Fundamentals of Robotics & RPA	Vulnerability & Risk Management
7	Semester VIII	Machine Learning for Intelligent Systems	Industry 4.0 and Application Areas	Digital forensic, investigation and response