

PROGRAM STRUCTURE**I SEMESTER**

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
1	192SO1T01	Software Engineering		✓		Students will be able to acquire technical skills to plan and manage projects at each stage of the software development life cycle (SDLC)
2	192SO1T02	Advanced Data Structures		✓		Students will be able to acquire technical skills to work on project development by identifying the analyzing different phases in project development like requirements, analysis, design, coding, testing and deployment.
3	192SO1E01	Software Project and Process Management				
4	192SO1E02	Machine Learning				
5	192SO1E03	E-Commerce	✓			Students are able to acquire skills related to developing web pages, enabling them to be employed as front end developers.
6	192SO1E04	Software Quality Assurance and Testing	✓			Students will be able to acquire technical skills to implement the distributed architecture in building real time applications.
7	192SO1E05	Cloud Computing				
8	192CO1E05	Internet of Things				
9	192HS1T01	Research Methodology and IPR	✓			Students will be able to acquire programming skills to develop applications using scripting languages like PROLOG, Pascal, Python, Perl and Ruby which enable them to be employed as software developer.

10	192SO1L01	Advanced Data Structures Lab		✓		Students will be able to acquire technical skills to understand supply chain and enterprise resource management is helpful in developing software applications.
11	192SO1L02	Software Engineering Lab – I	✓			Students will be able to acquire programming skills to develop web pages using HTML, CSS, JavaScript, XML and PHP at server side and also to work with data on cloud using PIG & HIVE tools which enable them to be employed as software developer/Data nalyst.

II SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
12	192MC1A01	English for Research Paper Writing		✓		Students will be able to acquire technical skills to design patterns for the project being developed using UML.
13	192MC1A02	Disaster Management		✓		Students will be able to acquire technical skills to identify and implement different testing strategies.
14	192MC1A03	Sanskrit for Technical Knowledge				
15	192MC1A04	Value Education				
16	192MC1A05	Constitution of India				
17	192MC1A06	Pedagogy Studies				
18	192MC1A07	Stress Management by Yoga				
19	192MC1A08	Personality Development through Life Enlightenment Skills		✓		Students are able to acquire technical skills in identifying the design issues and constraints while designing the GUI for an application.
20	192MC1A09	Soft Skills		✓		Students will be able to acquire technical skills to develop the cloud infrastructure needed to establish a cloud system for real time application development which enable them to be employed as Cloud Engineer.

21	192SO2T03	Service Oriented Architecture	✓			Students will be able to acquire technical skills to develop real time IOT devices which can be used in the field of medicine, agriculture, Vigilance, safety and security services which enable them to be employed as IOT developer.
22	192SO2T04	Mathematical Foundations of Computer Science		✓		Students will be able to acquire technical skills to develop design patterns for software which can be helpful for them to work with different testing strategies.

III SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
23	192SO2E06	Software Testing Methodologies	✓			students will be able to demonstrate problem identification, analysis, design solutions or applications in electronics and communication domain through the acquired technical, cognitive, communication and creative skills to address societal needs.
24	192SO2E07	Agile Software Development	✓			students will be able to demonstrate problem identification, analysis, design solutions or applications in electronics and communication domain through the acquired technical, cognitive, communication and creative skills to address societal needs.
25	192SO2E08	ERP and Supply Chain Management	✓			students will be able to demonstrate problem identification, analysis, design solutions or applications in electronics and communication domain through the acquired technical, cognitive, communication and creative skills to address societal needs.
26	192SO2E09	Secure Software Engineering	✓			students will be able to demonstrate problem identification, analysis, design solutions or applications in electronics and communication domain through the acquired technical, cognitive, communication and creative skills to address societal needs.
27	192SO2E10	Big Data Analytics	✓			students will be able to demonstrate problem identification, analysis, design solutions or applications in electronics and communication domain through the acquired technical, cognitive, communication and creative skills to address societal needs.

28	192SO2E11	Design Patterns	✓			students will be able to demonstrate problem identification, analysis, design solutions or applications in electronics and communication domain through the acquired technical, cognitive, communication and creative skills to address societal needs.
29	192SE2L03	Software Testing Lab	✓			
30	192SE2L04	Software Engineering Lab – II	✓			
31	192SE2P01	Mini Project with Seminar	✓			
32	192MC2A01	English for Research Paper Writing		✓		Students will be able to acquire technical skills to design patterns for the project being developed using UML.
33	192MC2A02	Disaster Management	✓			Students will be able to acquire technical skills to identify and implement different testing strategies.
34	192MC2A03	Sanskrit for Technical Knowledge				
35	192MC2A04	Value Education				
36	192MC2A05	Constitution of India				
37	192MC2A06	Pedagogy Studies				

38	192MC2A07	Stress Management by Yoga				
39	192MC2A08	Personality Development through Life Enlightenment Skills		✓		Students are able to acquire technical skills in identifying the design issues and constraints while designing the GUI for an application.
40	192MC2A09	Soft Skills		✓		Students will be able to acquire technical skills to develop the cloud infrastructure needed to establish a cloud system for real time application development which enable them to be employed as Cloud Engineer.

IV SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
41	171SO3C01	Comprehensive Viva-Voce	✓			students will be able to demonstrate problem identification, analysis, design solutions or applications in electronics and communication domain through the acquired technical, cognitive, communication and creative skills to address societal needs.
	TOTAL	41	16	11	0	



Program Coordinator



Head of the Department

Head of the Department
Department of IT
Aditya Engineering College