

PROGRAM STRUCTURE**I SEMESTER**

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
1	172SO1T01	Software Requirements And Estimation		✓		Students will be able to acquire technical skills to plan and manage projects at each stage of the software development life cycle (SDLC).
2	172SO1T02	Software Metrics And Reuse		✓		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	172SO1T03	Software Project And Process Management		✓		Students will be able to acquire technical skills to plan and manage projects at each stage of the software development life cycle (SDLC)
4	172SO1T04	Big Data Analytics	✓			Students are able to acquire technical skills to work with data on the loud using PIG and HIVE tools which enable them to be employed as Big Data Analysts.
5	172SO1E01	Web Technologies	✓			Students are able to acquire skills related to developing web pages, enabling them to be employed as front-end developers.
6	172SO1E02	Middleware Technologies	✓			Students will be able to acquire technical skills to implement the distributed architecture in building real time applications.
7	172SO1E03	Mobile Computing	✓			Students are able to acquire technical skills which helps them in developing mobile applications using J2EE and android which enable them to be employed as Mobile Application Developer.

8	172SO1E04	E-Commerce		✓		Students are able to acquire technical skills to identify different categories and trends in e-commerce applications, understanding technologies used behind e-commerce, pro's and con's of e-commerce applications
9	172SO1E05	Scripting Languages	✓			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	172SO1E06	ERP and Supply Chain Management		✓		Students will be able to acquire technical skills to understand supply chain and enterprise resource management is helpful in developing software applications.
11	172SO1L01	Web Technologies and Big Data Analytics Lab	✓			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 analyst.

II SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
12	172SO2T05	Software Architecture And Design Patterns		✓		Students will be able to acquire technical skills to design patterns for the project being developed using UML.
13	172SO2T06	Software Quality Assurance And Testing		✓		Students will be able to acquire technical skills to identify and implement different testing strategies.
14	172CO2T06	Cyber Security		✓		Students will be able to acquire technical skills to identify and prevent different types of attacks performed by the intruder to gain access over a network.
15	172SO2E10	User Interface Design				
16	172CO2E09	Internet Of Things	✓			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.
17	172SO2L02	Software Testing and Design Patterns Lab				

III SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
18	171SO3C01	Comprehensive Viva-Voce				
19	171SO3R01	Seminar – I				
20	171SO3P01	Project Work – Part - I	✓			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.

IV SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
21	171SO3R02	Seminar – II	✓			students will be able to acquire technical, cognitive, communication and creative skills .
22	171SO3P02	Project Work Part - II	✓			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	22	9	8		



Program Coordinator



Head of the Department

Head of the Department
Department of IT
Aditya Engineering College