

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				
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 cloud using PIG and HIVE tools which enable them to be employed as Big Data Analyst.
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				

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	172SO2T07	Service Oriented Architectures		✓		Students will be able to acquire technical skills to work with web services related to service-oriented architecture.
16	172SO2E07	Secure Software Engineering		✓		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.
17	172SO2E08	Systems Engineering		✓		Students will be able to acquire technical skills to Interpret the usage of Management Information Security in organizations and the constituents of the Management Information Security.
18	172SO2E09	Soft Computing	✓			Students will be able to acquire technical skills to analyze the various neural network algorithms and to develop solutions for soft computing problems using neural networks which enable them to be employed as software developer.

19	172SO2E10	User Interface Design		✓		Students are able to acquire technical skills in identifying the design issues and constraints while designing the GUI for an application.
20	172CO2E08	Cloud Computing	✓			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	172SO2L02	Software Testing and Design Patterns Lab		✓		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
22	17ISO3C01	Comprehensive Viva-Voce				
23	17ISO3R01	Seminar - I				
24	17ISO3P01	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
25	171SO4R02	Seminar - II		✓		
26	171SO4P02	Project Work Part- - II	✓			Students will be able to demonstrate problem identification, analysis, design solutions or applications in electronics and communication domain through the aquired technical, cognitive, communication and creative skills to address societal needs.
	TOTAL	26	10	13		



Program Coordinator



Head of the Department

Head of the Department
Department of IT
Aditya Engineering College