

Salesforce Technologies

Course Code	20SA8755	Year	IV	Semester	I
Course Category	SOC/JOC	Branch	CSE	Course Type	Theory/Practical
Credits	2	L-T-P	1-0-2	Prerequisites	Fundamentals in any programming language
Continuous Internal Evaluation:	-	Semester End Evaluation:	50	Total Marks:	50

Course Outcomes

Upon Successful completion of course, the student will be able to

CO1	Apply basics of CRM, multi-tenancy, Data modelling and management in Sales force for solving problems in Apex.	L3
CO2	Implement programming constructs of Apex like class, interface triggers as an individual on different IDEs/ online platforms.	L3
CO3	Develop an effective report based on various programs implemented.	L3
CO4	Apply technical knowledge for a given problem and express with an effective oral communication.	L3
CO5	Analyze outputs using given constraints/test case/ debugging and deployment tools of Sales force.	L4

Contribution of Course Outcomes towards achievement of Program Outcomes & Strength of correlations (3: High, 2: Medium, 1: Low)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1		2											2	
CO2					2				2					
CO3										3				
CO4									2		2			
CO5			1			1								

Syllabus		Mapped CO
Unit No	Contents	
I	<p>Sales force Fundamentals: What is a multi-tenancy, consideration, MVC paradigm, Core CRM objects?</p> <p>Data Modeling and Management: Data modeling, Relationship types, Visualizing and creating entity relationships, Importing and exporting data into development environments.</p> <p>Practical Exercises:</p> <ol style="list-style-type: none"> 1. Create, setup Salesforce developer account and access developer console. 2. Exercise on Standard and custom objects, Relationship fields. 3. Exercise on how to import and export data. 	CO1, CO2, CO3, CO4, CO5
II	<p>Apex: Apex Basics, Class and instance, Features of Apex, Apex variables, constants and expressions, Access modifiers, Control flow statements, working with data in salesforce.</p> <p>Practical Exercises:</p> <ol style="list-style-type: none"> 1. Exercise on install Force.com IDE and create projects. 2. Exercise on primitive datatypes, sObject, Enum and collections. 3. Exercise on control statements and looping statements. 	CO1, CO2, CO3, CO4, CO5
III	<p>Apex Classes, Interfaces & Triggers: Apex classes, interfaces, Apex triggers, sObject relationships, Implementing SOQL & SOSL queries, the order of execution, Exception handling, Security in Apex, Web service callouts</p> <p>Practical Exercises:</p> <ol style="list-style-type: none"> 1. Exercise on creating Apex class. 2. Exercise on SOQL and SOSL Queries. 3. Exercise on working with Apex Triggers. 	CO1, CO2, CO3, CO4, CO5
IV	<p>Salesforce user interface: Introduction, Displaying Salesforce data using Visualforce, Lightning component framework, Benefits of Lightning component framework, Resources in Lightning component.</p> <p>Practical Exercises:</p> <ol style="list-style-type: none"> 1. Exercise on displaying data using Visualforce and Visualforce pages. 2. Practice components in Lightning component framework. 	CO1, CO2, CO3, CO4, CO5
V	<p>Debugging and Deployment tools: Debugging and Deployment tools, Monitoring and accessing debug logs, deploying metadata to another org.</p> <p>Practical Exercises:</p> <ol style="list-style-type: none"> 1. Exercise on creating sandbox and deployment strategies. 	CO1, CO2, CO3, CO4, CO5

Learning Resources**Text Books**

1. Salesforce Platform Developer I Certification Guide, John Vandavelde, Gunther Roskams, Packt Publishing.

References

1. Beginning Salesforce Developer, Michael Wicherski, Apress.

e-Resources and other Digital Material

1. Salesforce Platform Developer I, Trail:
<https://trailhead.salesforce.com/content/learn/trails/platform-developer-i-certification-study-guide>