

Salesforce Technologies

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|--|----------|---------------------------------|-------|----------------------|--|
| 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

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|------------|---|-----------|
| 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 | | √ | | | | | | | | | | | √ | |
| CO2 | | | | | √ | | | | √ | | | | | |
| CO3 | | | | | | | | | | √ | | | | |
| CO4 | | | | | | | | | √ | | √ | | | |
| CO5 | | | √ | | | √ | | | | | | | | |

| 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>