MALLA REDDY UNIVERSITY

II Year B Tech CBCS POOL-1

L/T/P/C
2/0/2/3

(MR22-1CS0155) SALESFORCE PLATFORM DEVELOPER

COURSE OBJECTIVES:

1. To be intended for an individual who has experience developing and deploying basic business logic and user interfaces.
2. Train the individuals to the next level, who have the knowledge, skills, and experience in building custom applications on the Lightning Platform.
3. To learn the fundamental programmatic capabilities of the Lightning Platform to develop custom business logic and interfaces to extend Salesforce using Apex, and basic Lightning Components.
4. To use the programmatic capabilities in practice with the Lightning Platform, including Practical application of the skills and concepts.

UNIT–I:

Introduction: Introduction to Salesforce Platform**:** Understand the Salesforce Architecture, Data Modeling and Data Management**,** Picklist Administration, Formulas and Validations**:** Logical Operator, Formula Fields, Validation Rules, and String Functions.

UNIT–II:

Apex Fundamentals: Introduction to Apex, Apex Classes, Database structure, Execute SOQL and SOSL Queries. **Apex Triggers:** Introduction Apex Triggers, Bulk Apex Triggers.

UNIT–III:

Apex Testing: Get Started with Apex Unit Tests, Test Apex Triggers, Create Test Data for Apex Tests,

Developer Console Basics: Get Started with the Developer Console, Navigate and Edit Source Code, Generate and Analyze Logs, Inspect Objects at Checkpoints.

UNIT–IV:

Salesforce User Interface: Lightning Web Components Basics**:** Discover Lightning Web Components, Create Lightning Web Components, Deploy Lightning Web Component Files, Handle Events in Lightning Web Components, Add Styles and Data to a Lightning Web Component Secure Server-Side Development: Write Secure Apex Controllers, Mitigate SOQL Injection, Request Forgery.

UNIT–V:

Apex Integration. & Deployment.

Project with Case Study: Hands on real world Projects and case study on Travel App, Dream house App etc.

REFERENCE BOOKS:

1. Michael Wicherski, "Beginning Salesforce Developer", 2018, Wiley Apress Publisher
2. Paul Battisson, "Learning Salesforce Development with Apex", 2020, BPB Publishers
3. Dan Appleman, "Advanced Apex Programming in Salesforce", 2018, PACKT Publisher
4. Paul Battisson, "Mastering Apex Programming", 2020, PACKT Publisher.
5. Mohith Shrivastava, "Learning Salesforce Lightning Application Development: Build and test Lightning Components for Salesforce Lightning Experience using Salesforce DX", 2018, PACKT
6. Brian Cline, "Lightning Web Components (LWC) Development on the Salesforce Platform: A Salesforce developer's guide to building, testing, and deploying Lightning Web Components", 2023, PACKT Publisher
7. Saifullah Saifi and Ashwini Kumar Raj, "Cloud Computing Using Salesforce", 2021 BPB

COURSE OUTCOMES:

1. Acquire a fundamental understanding of the CRM and Salesforce tools necessary to effectively generate useful applications on the Salesforce platform to support the customer requirements.
2. Gain experience in using the Salesforce tools and techniques of CRM to complete projects focused on obtaining actionable insights from complex data
3. Dive deeply into a Salesforce Developer practice to fully prepare to use knowledge gained inthe course to add significant value in a professional setting.
4. Be able to utilize knowledge and skills to continue learning and adapting to other advancedSalesforce technologies.