

**II YEAR IV SEMESTER
SRI VENKATESWARA UNIVERSITY
B.Sc. DEGREE COURSE IN CLOUD COMPUTING
IV SEMESTER
(Syllabus under CBCS w.e.f. 2021-22)**

APEX & Visual force Programming

Objective

After completing this subject the student would be having knowledge on data types and operators, understanding core concepts of apex and visual force, which includes collections and interfaces.

Outcome:

This subject will be exploring basics of programming through Salesforce.com with apex and visual force, which are programming language and framework respectively.

UNIT-I

Data Types and Operators- Primitive, Complex, Expressions and operators, Defining Functions, Oops Concept- Abstraction, Encapsulation, Inheritance and Polymorphism

UNIT-II

Understanding Apex core concepts, Developing code in the cloud Apex Development process: Learning Apex, App Quick Start, Writing Apex class, Creating a custom object, Adding the Test class,

UNIT –III

Collections- List, Set, Map Working with DML Operations- Insert, Update, Upsert, Delete, Undelete and Merge, Execution flow in Apex- Exception Handling, Assertions and Annotations.

UNIT –IV

Interface in Apex- Batch Apex, Schedule Apex. Working with Triggers- Trigger Syntax, Trigger Context variables, Validations and Automations

UNIT-V

Introduction to Visual Force, Working on Visual Force components- Format Tags, Input Tags, Action Tags, Output Tags and Miscellaneous Tags. Working on Various Controllers- Custom controllers, Standard controllers, Extensions.

References

1. Apex Complete Developer Guide bySalesforce.com
2. Visual Force Developer guide bySalseforce.com

II YEAR IV SEMESTER

RECOMMENDED CO-CURRICULAR ACTIVITIES:

(Co-curricular activities shall not promote copying from textbook or from others work and shall encourage self/independent and group learning)

A. Measurable

1. Assignments (in writing and doing forms on the aspects of syllabus content and outside the syllabus content. Shall be individual and challenging)
2. Student seminars (on topics of the syllabus and related aspects (individual activity))
3. Quiz (on topics where the content can be compiled by smaller aspects and data (Individuals or groups as teams))
4. Study projects (by very small groups of students on selected local real-time problems pertaining to syllabus or related areas. The individual participation and contribution of students shall be ensured (team activity))

B. General

1. Group Discussion
2. Try to solve MCQ's available online.
3. Others

RECOMMENDED CONTINUOUS ASSESSMENT METHODS:

Some of the following suggested assessment methodologies could be adopted;

1. The oral and written examinations (Scheduled and surprise tests),
2. Closed-book and open-book tests,
3. Problem-solving exercises,
4. Practical assignments and laboratory reports,
5. Individual and group project reports.
6. Efficient delivery using seminar presentations,
7. Viva voce interviews.
8. Computerized adaptive testing, literature surveys and evaluations,
9. Peers and self-assessment, outputs form individual and collaborative work

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APEX and Visual Force Lab

1. How to write a Business class and Test class and how to create an Object?
2. Create a Rectangle class Apex class?
3. Create a Point class Apex class?
4. Create a Bank Account class?
5. How to write Collection class?
6. How to write DML statements like insert, Update, delete, Undelete, merge andUpsert?
7. How to implement Exception Handling?
8. How to write Assertion and Annotations?
9. How to write Trigger Class
10. How to write Batch Apex class?
11. How to write Schedule Apex class?
12. How to create Visual force page?
13. How to work on Standard Controllers and Custom Controllers
14. How to work on Standard list controllers?

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Business Intelligence

Purpose

This subject will be exploring concepts on Wave Analytic basics, Wave Desktop Exploration, Wave App Basics, Sales Wave App, and Service Wave App.

Objective

After completing this subject the student will gain the knowledge of Business Intelligence using which they can convert raw data into pictorial format and analyse it to predict the future business.

Unit-I

Wave Analytic basics – Exploring Wave Analytics, Setup Wave analytics, Creating wave analytic App

Unit-II

Wave Desktop Exploration- Data Explorer, Analyse Data Explorer, Compare Table. Wave Mobile Exploration: Mobile Data Explorer, Mobile Exploration interface.

Unit- III

Wave App Basics: Creating Wave App basics, setting up Wave app Licenses and permissions

Unit- IV

Sales Wave app – Creating and Analysing Sales wave using Wizard, Sales wave on Mobiles

Unit-V

Service Wave App – Creating Service Wave using wizard, Service wave to Manage Service Load, Basic Wave Dashboard Customization.

References

Introduction to Sales force Analytics - Building Reports and Dashboards:
Class Slides & Workbook for Sprd-101 by Steve Wasula (Author)

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C. Measurable

1. Assignments (in writing and doing forms on the aspects of syllabus content and outside the syllabus content. Shall be individual and challenging)
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D. General

1. Group Discussion
2. Try to solve MCQ's available online.
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8. Computerized adaptive testing, literature surveys and evaluations,
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