



**Academic Year: 2022-23**

**Skill Oriented Course-I**

S.No.	Sem & Section	Title	Date (From -to)
1.	III SEM CST	DJango using Python	26/12/2022 to 31/12/2022

**Skill Oriented Course-II**

S.No.	Sem & Section	Title	Date (From -to)
1.	IV SEM CST	AWS Academy Solutions Architect	13/03/2023 to 18/03/2023

**Skill Oriented Course-III**

S.No.	Sem & Section	Title	Date (From -to)
1.	V SEM CST	Verbal & Soft Skills	03/11/2022 to 12/11/2022

**Skill Oriented Course-IV**

S.No.	Sem & Section	Title	Date (From -to)
1.	VI SEM CST	ReatJS	23/01/2023 to 06/02/2023



**Skill Oriented Course-I**

<b>S.No.</b>	<b>Sem &amp; Section</b>	<b>Title</b>	<b>Date (From -to)</b>
1.	III SEM CST	Django using Python	26/12/2022 to 31/12/2022



## Web Development Using Django

**Course Outcomes:** After Successful completion of the Course, the student will be able to:

- |   |      |
|---|------|
| <b>CO1:</b> Explain oops concepts.          | [K2] |
| <b>CO2:</b> Discuss Django.                 | [K2] |
| <b>CO3:</b> Describe database connectivity. | [K2] |

### **Topics Covered:**

#### **1. Introduction to Python**

- Object-Oriented Programming (Classes, Objects)
- Constructors
- Inheritance
- Python Packages and modules using oop's.

#### **2. Django :**

- Introduction to Django
- MVC, MVT, Architecture of Django
- Django Installation
- Project Creation, APP creation and use of admin app
- URL mapping (creation), Dynamic URL mapping, views
- Interface between controller (urls.py & views.py) files
- Http Request and Responses.
- Django Templates
- Providing an interface between controller and templates
- Static file handling
- Data rendering from HTML to views and then views to HTML with example.
- Model creation
- Migrations, ORM
- Model Queries (Django shell)
- Super user Creation (admin part)
- Roles of the superuser.
- Crud operations, Messages generation
- Form Validations
- Database Connectivity and Database Migrations with MYSQL
- Mail Sending
- File Uploading
- User Registration & User Authentication



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**Department of Computer Science & Technology**

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## Skill Oriented Course-II

<b>S.No.</b>	<b>Sem &amp; Section</b>	<b>Title</b>	<b>Date (From -to)</b>
1.	IV SEM CST	AWS Academy Solutions Architect	13/03/2023 to 18/03/2023



## **AWS Academy Solutions Architect**

**Course Outcomes: After Successful completion of the Course, the student will be able to:**

<b>CO1:</b> Discuss architecture of AWS.	[K2]
<b>CO2:</b> Illustrate VPC.	[K3]
<b>CO3:</b> Describe storage concepts.	[K2]
<b>CO4:</b> Explain database connectivity.	[K2]

### **Topics Covered:**

**Module 1** - Welcome to AWS Academy Cloud Architecting

**Module 2** - Introducing Cloud Architecting

**Module 3** - Adding a Storage Layer

**Module 4** - Adding a Compute Layer

**Module 5** - Adding a Database Layer

**Module 6** - Creating a Networking Environment

**Module 7** - Connecting Networks

**Module 8** - Securing User and Application Access

**Module 9** - Implementing Elasticity, High Availability and Monitoring

**Module 10** - Automating Your Architecture

**Module 11** - Caching Content

**Module 12** - Building Decoupled Architectures

**Module 13** - Building Microservices and Serverless Architectures

**Module 14** - Planning for Disaster

**Module 15** - Bridging to Certification



**Skill Oriented Course-III**

<b>S.No.</b>	<b>Sem &amp; Section</b>	<b>Title</b>	<b>Date (From -to)</b>
1.	V SEM CST	Verbal & Soft Skills	03/11/2022 to 12/11/2022



## Verbal & Soft Skills

**Course Outcomes: After successful completion of the Course, the student will be able to:**

**CO1:** Illustrate the Speaking skills and Question Forms. [K3]

**CO2:** Apply the concepts of critical and analytical reading skills. [K3]

**CO3:** Develop the Interview and Professional skills. [K3]

### **Topics Covered:**

- 1 Phonetics
- 2 Intonation
- 3 Speaking Skills
- 4 Reading Comprehension
- 5 Question Forms
- 6 Tenses
- 7 Articles
- 8 Prepositions
- 9 Sentences correction and Construction
- 10 Direct and Indirect Speech
- 11 Modals
- 12 Comprehension Ordering
- 13 Parts of Speech
- 14 Active Voice and Passive Voice
- 15 Idioms and Phrasal Verbs
- 16 Vocabulary
- 17 Resume
- 18 Interview Skills
- 19 Dressing Sense



**Skill Oriented Course-IV**

<b>S.No.</b>	<b>Sem &amp; Section</b>	<b>Title</b>	<b>Date (From -to)</b>
1.	VI SEM CST	ReatJS	23/01/2023 to 06/02/2023





## ReactJS

**Course Outcomes: After successful completion of the course student will be able to learn:**

<b>CO1:</b> Discuss fundamentals of HTML .	[K2]
<b>CO2:</b> Discuss CSS.	[K2]
<b>CO3:</b> Discuss Javascript.	[K2]
<b>CO4:</b> Discuss ReactJS.	[K2]
<b>CO5:</b> Develop an application using REACTJS.	[K3]

### Topics Covered:

**SECTION 1: WHAT IS REACT JS?**

**SECTION 2: OVERVIEW OF JSX**

**SECTION 3: REACT JS ENVIRONMENT SETUPS**

#### **Real-time Practical's**

- NPM Installation by locally and Globally
- Create a Basic App with React JS and other Supported NPM

**SECTION 4: A REAL-TIME APPLICATION BY USING REACT JS**

#### **Real-time Practical's**

- Create a Small React Module
- Use All the states in the created Application.

**SECTION 5: REACT JS FORMS and UI**

#### **Real-time Practical's**

- Create a React Form.
- Client-side form validation.
- Applying form components.
- Submit and Rest the form.

**SECTION 6: REACT JS COMPONENT LIFE CYCLES OVERVIEW**

#### **Real-time Practical's**

- Applying Different Life cycles in the Application.
- When to choose Appropriate lifecycles.

**SECTION 7: ROUTING IN REACT JS AND OTHER JS CONCEPTS**

#### **Real-time Practical's**

- Create a Single Page Application.
- Applying Routing.
- Dynamically render the components based on the url.

**SECTION 8: EVENT HANDLING IN JSX**

#### **Real-time Practical's**

- Communicate Data between components.
- Applying all lists of events.

**SECTION 9: HOW TO WRITE STYLES IN REACT JS?**

#### **Real-time Practical's**

- Styling the application using styled component
- How to use Animations in the Application.

**SECTION 10: REACT ROUTER WITH NAVIGATION**

**SECTION 11: FLUX , REDUX OVERVIEW**

#### **Real-time Practical's**

- Redux application Development with Real-time Project

**SECTION 12: UNIT TESTING OVERVIEW**

**SECTION 13: INTEGRATION WITH OTHER LIBRARIES**

**SECTION 14: REACT SERVER INTEGRATION & DEPLOYMENT**

**SECTION 15: HOOKS**



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**SECTION 16: CODE SPLITTING**

**SECTION 17: ISOMORPHIC REACT**

**SECTION 18: TESTING COMPONENT**

**SECTION 19: EPILOGUE**

**SECTION 20: NEW FEATURES OF REACT 16**

**SECTION 21: WEBPACK PRIMER AND ISOMORPHIC REACT**

**SECTION 22: FETCH DATA USING GRAPHQL**