

Back-End Web Development

Credit distribution, Eligibility and Prerequisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course (if any)
		Lecture	Tutorial	Practical/ Practice		
Back-End Web Development	2	0	0	2	Class XII	NIL

Learning Objectives:

The Learning Objectives of this course are as follows:

- To introduce the basic concepts and techniques of server-side web programming.
- To enable the students to apply the basic concepts and techniques of server-side web programming.

Learning Outcomes

The Learning Outcomes of this course are as follows:

- After studying this course, students will be able to build interactive and dynamic websites.
- After studying this course, students will be able to write the server side programming techniques with Django for accessing the contents to/from the server
- After studying this course, students will be able to learn to validate server-side/backend data
- After studying this course, students will be able to use GET and POST methods for sending data within client and server.

SYLLABUS

Unit-1

(15 hours)

Installation of Django, Introduction to Django; Model–view–controller(MVC) model; Django structure; HTML templates; URL dispatcher, Django Template System, Interacting with a Database

Unit-2

(15 hours)

The Django Administration Site , Wrapper Functions, Custom Views GET and POST methods;Deployment of Django; Automating tasks with Django; Building Web APIs using Django REST

Project Work**(30 hours)**

Build a website for student admission in a college/university.

Essential/recommended readings

<https://docs.djangoproject.com/>

Examination scheme and mode:

Evaluation scheme and mode will be as per the guidelines notified by the University of Delhi.