17CS31P2 – WEB APPLICATION DEVELOPMENT USING PYTHON LABORATORY

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| **Course Category:** | Core | **Credits:** | 2 |
| **Course Type:** | Practical | **Lecture – Tutorial – Practical:** | 0-0-3 |
| **Prerequisite:** | Knowledge in Fundamental concepts of Java programming and Databases. | **Sessional Evaluation:**  **Univ.Exam Evaluation:**  **Total Marks:** | 40  60  100 |
| **Objectives** | The course is designed to provide Basic knowledge of Python. Python programming is intended for software engineers, system analysts, program managers and user support personnel who wish to learn the Python programming language.. | | |

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| **Course Outcomes** | Upon successful completion of the course, the students will be able to acquire knowledge on Python and to create web applications using python. |
| **Course Content** | 1) Write a Program to illustrate the flow control in Python using django.  2) Write a Python Program to illustrate Exception Handling in Python.  3) Design a blog application in python using django.  4) Write a Python program to illustrate views and templates using django.  5) Write a Python program to publish django project to a web server.  6) Write a Python Program to illustrate the usage of advanced JavaScript and Ajax toolkit with django.  7) Write a Python program to customize the admin using django.  8) Create a photo Gallery-application using django.  9) Create your own web site using django web development frame work. |
| **Text Books and References:** | **Text Books:**   1. Jeff Forcier, Paul Bissex, Wesley Chun, Python Web Development with Django”, Pearson Education,2009   **Reference Books:**  1. Marty Alchin “Pro Django”, APress, 2013  2. Holovaty, Adrian, Kalpan-Moss,Jacob,”The Definitive Guide to Django Web Development Done Right”, Apress,2009.  3. Steve Holden, “Python Web Programming”, New Riders, 2002. |
| **E-Resources** | 1. <https://Wiki.python.org/moin/WebProgrammingBooks> 2. <https://realpython.com/tutorials/web-dev/> 3. <https://nptel.ac.in/courses> 4. https://freevideolecture.com/university/iitm |