



**DON BOSCO ARTS & SCIENCE COLLEGE**

Angadikadavu P.O, Kannur Dt., Kerala - 670706

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# Python Programming

2020-21

BCA Department





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## DEPARTMENT OF COMPUTER APPLICATION

### ADD ON COURSE: PYTHON PROGRAMMING

#### SYLLABUS

Academic Year: 2020-2021

#### Module I

**BASIC ELEMENTS AND CONTROL STATEMENTS:** Features of Python, Different Methods to Run Python, Basic Elements, Comments, Indentation in Python, Input and Output in Python, import function, Operators in Python, Branching, Iteration, Tuples, Lists, Sets, Dictionaries, Mutable and Immutable Objects.

#### Module II

**DJANGO:** Installation, features, Features of Django, Django web server, Understanding Django environment, A simple 'Hello world' application, Django architecture, MVC and MTV, Starting a project, Django apps, Activating our first app, A view that displays a hyperlink, Running our first app, Improving the views using templates, Template inheritance, Sending data from url to view, Sending data from view to template

#### Module III

**CREATING A WEBSITE – PROJECT:** Starting a project, creating an app inside the project, activating the app, creating model for our site, converting the model into a table, examples for fields in models, basic data access using Django shell, saving objects into database, retrieving objects from database, modifying objects of database, sorting objects, filtering objects, deleting objects, making changes in the data model, creating sessions and cookies in Django,

#### Module IV:

**USING OTHER DATABASES IN DJANGO:** Using SQLite, Configuring MySQL database, Working with MySQL in Django, Configuring Oracle database, Working with Oracle in Django,  
**LIVE PROJECT IMPLEMENTATION:** Project life cycle, Creating a functional website in Django.

#### Reference

1. Dr. Jeeva Jose, Taming Python By Programming, Khanna Publishing
2. Building Websites with Django: Build and Deploy Professional Websites with Python Programming and the Django Framework – by Awanish Ranjan