



C-DAC & Gujarat Technological University
M.E. Computer Engineering
(IT Systems and Network Security)
Gandhinagar

Semester: II

Subject Name: Application Security

Subject Code: 2725101

Course Content:

Part 1: MySQL

Introduction to MySQL, Installing and Configuring MySQL, Creating and Dropping Database, Queries in MySQL, Overview of Regular Expression,

Part 2: Web Application Security

Web application Security Risks, Identifying the Application Security Risks, Threat Risk Modelling
OWASP Top 10

Part 3: Python

Concepts of scripting language, Documenting Functions, object, Indenting Code, Testing Modules, Native Datatypes, Introducing Dictionaries , Defining Dictionaries, Modifying Dictionaries, Deleting Items From Dictionaries, Introducing Lists, Defining Lists, Adding Elements to Lists, Searching Lists, Deleting List Elements, Using List Operators, Introducing Tuples, Declaring variables, Referencing Variables, Assigning Multiple Values at Once, Formatting Strings, Mapping Lists, Joining Lists and Splitting Strings , Historical Note on String Methods, Using Optional and Named Arguments, Using type, str, dir, and Other Built-In Functions, Object References, Filtering Lists, objects and Object-Oriented, Exceptions and File Handling

Text Book:

1. Dive into Python by Mark Pilgrim/ Apress

Reference Book:

1. Network Security Essentials Stallings, Stallings William.
2. Head First Python by Paul Barry, Packt