



# Jansons Institute of Technology

Karumathampatti, Coimbatore – 641 659

Approved by AICTE and Affiliated to Anna University

An ISO 9001:2015 certified institution

Industry Readiness Course - Syllabus

Department of Computer Science and Engineering

## Fascinating Python Applications in Real-World and NVMe Storage

2022- 2023 EVEN Semester

### Learning Objectives

- Build basic programs using fundamental programming constructs like variables, conditional logic, looping, and functions
- Work with user input to create fun and interactive programs
- Create simple games with images, animations, and audio using our custom beginner-friendly programming library, Wizardlib

### Learning Outcomes

- Understand the structure, syntax, and semantics of the Python language.
- Understand how object-oriented programming concepts work in Python.
- Develop your own Desktop/Web-based applications using the Python programming language.
- Illustrate memory management of file handling through file/region lock.

### MODULE 1

#### Introduction to Python

Introduction to Python - Data Analysis & Data Visualization– Web Scraping - Natural Language Processing - Data wrangling and data exploration –

### MODULE 2

#### Introduction to Internet of Things (IoT)

Physical design of IoT - Logical design of IoT- Architecture & Implementation–IoT Functional Blocks - IoT Standards and Protocol - IoT Communication models - IoT Communication APIs - IoT Supported devices - IoT Enabling Technologies and Future of IoT



  
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MODULE 3

**NVMe over fabric**

Introduction -Uses of NVMe over Fabrics – Types of Fabric transports for NVMe – NVMe over Fabrics Technical Characteristics - NVMe over Fabrics vs. NVMe: Key differences - NVMe Qualified Name - NVMe transport mapping - API testing tools - API through Python

**Course Designed By**



Dr A Velayudham

Professor / CSE

Jansons Institute of Technology



MsMPavithra

AP / CSE

Jansons Institute of Technology

**Approved By**



Dr E S Shamila, Prof / CSE

Industry Readiness Coordinator

**Approved By**



Dr A Velayudham,

Prof & Head /CSE

Head of Department



Principal  
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