# **NET 260 Internet Dev & Support**

## **COURSE DESCRIPTION:**

Prerequisites: None Corequisites: None

In this comprehensive capstone course, students will delve into the intricacies of managing and deploying web infrastructures, with a focus on the lifecycle of Internet domain names, on-premise web server and database management, and the migration of services between on-premise and cloud environments, specifically Microsoft Azure. This class is designed to provide hands-on experience and a deep understanding of the technical and administrative aspects of web infrastructure.

Course Hours per Week: Class, 3. Semester Hours Credit, 3.

### **LEARNING OUTCOMES:**

Upon completing requirements for this course, the student will be able to:

- 1. Gain comprehensive knowledge on selecting, purchasing, and managing internet domain names, including DNS configuration and registrar interactions.
- 2. Acquire the skills to set up, configure, and maintain on-premise web seremcqeme 4. Develop proficiency premigsatise services for seamless transitions.
  - 5. Master the process of safely returning services integrity and minimal disruption.

### **OUTLINE OF INSTRUCTION:**

- I. Introduction to Internet standards and TCP/IP
- II. Public Accessibility: DNS, Domain Name Integration, IANA and address registrars
- III. Web servers HTTP protocol and servers
- IV. Setting up a Web Server
- V. Maintaining Web Servers and Databases
- VI. Cloud Migration Strategies and Execution
- VII. Security standards
- VIII. Azure Management
- IX. Azure Metrics
- X. Reverse Migration Strategies
- XI. Ethics and Issues

### **REQUIRED TEXTBOOK AND MATERIAL:**

The textbook and other instructional material will be determined by the instructor.