Course number and name: 446CIS-4 Internet Application Development

Credits and contact hours: 4 crs.; 6hrs (3hrs theory, 2hrs Lab and 1 hr. Tutorial)

Course Coordinator's name: Mr. Muhammad Akram

Text book, Title, Author, and Year: X. Bai, M. Ekedahl, J. Farrell, et al, The web warrior guide to Web Programming, Thomson, Course Technology, Latest Edition. (TB)

a. **Supplemental Materials:** H. M. Deitel, P. J. Deitel, Internet & World Wide Web How to Program, Prentice Hall, Latest Edition (RF)

Specific Course Information

a. **Catalog Description:** This course explores advanced and modern concepts and technologies used in the development of electronic business applications. Topics include component development and reuse, distributed object technologies, multitier applications, client-side versus server-side technologies, service oriented architectures, enterprise application integration, data transformation, role of open source technologies, and finally e-business application installation and deployment issues.
b. **Pre-requisites or Co-requisites: IS 342**
c. **Required, Elective, or Selected elective:** Required

Specific Goals for the Course

a. **Specific Outcomes of the Instruction**
   - Identify the basic of technologies in the development of internet application in the modern world.
   - Recognize the basic Syntax and Semantics of Client side and Server side technologies with Programming Language. (Such as HTML, CSS, JavaScript, PHP, MySQL)
   - Apply the modern web development tools to design the interactive web applications.
   - Evaluate the several web technologies and application architectures.
   - Develop the real Internet Applications using the latest application architectures.
b. **Students Outcomes Addressed by the Course:** a, b, c, i, j, h

Brief List of Topics to be Covered

- Explores advanced and modern concepts and technologies used in the development of electronic business applications .
- Application development platform & web browser.
- Distributed object technologies
- Client side programming such as HTML, CSS, JavaScript
- Multitier applications
- Client side programming such as HTML, CSS, JavaScript
- Client-side versus server-side technologies

- Server side database management such as MySQL
- Service oriented Architectures
- Server side scripting such as PHP
- Enterprise application integration
- Server side scripting such as PHP
- Data transformation and open source technologies
- Server side scripting such as PHP