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| المملكة العربية السعودية  وزارة التعليم العالي  **جامعة أم القرى**  الكلية الجامعية بالجموم – قسم الحاسب الآلي |  | Kingdom of Saudi Arabia  Ministry of Higher Education  **Umm Al-Qura University**  University College in Al-Jamoum  Computer Dept. |

Course Specification

1. **Course number and name:** (2316333-3) Internet Applications Development
2. **Credits and contact hours:** 3 Credits

(Lecture: 3/week – Practical Session: Non)

1. **Instructor’s or course coordinator’s name:** Dr. Alaa E. Abdel-Hakim
2. **Text books**
3. **Main Text book:** Harvey M. Deitel, Paul J. Deitel, and Abbey Deitel, Internet & World Wide Web: How to Program. Prentice Hall, 5th Edition, 2011.
4. **Reference:** Robert W. Sebesta, Programming the World Wide Web, Addison-Wesley, 8th Edition, 2014.
5. **Specific course information**
6. **brief description of the content of the course (Catalog Description):**

The course cover the essential topics in developing web applications. Explores the issues involved in designing and building enterprise web applications: client/server architectures, database access, and web services. The course ends with a group project.

1. **prerequisites or co-requisites:** Multimedia (2316316-3)
2. **indicate whether a required, elective, or selected elective course in the program:** required
3. **Specific goals for the course**

The student will be able to:

1. Acquire skills necessary to develop web-based applications.
2. Know a theoretical and practical knowledge in web programming in PHP (server side).
3. Design, implement, and maintain dynamic web sites and web-based applications.
4. Design and implement programs for web applications.
5. Use recent platforms for developing web applications.

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| *Course*  *Goals* | *Program Outcomes* | | | | | | | | | | |
| SOa | SOb | SOc | SOd | SOe | SOf | SOg | SOh | SOi | SOj | SOk |
| 1 |  |  | ✓ |  |  |  |  |  |  |  |  |
| 2 |  |  | ✓ |  |  |  |  |  |  |  |  |
| 3 |  |  | ✓ | ✓ |  | ✓ |  |  | ✓ |  |  |
| 4 |  |  | ✓ | ✓ |  | ✓ |  |  | ✓ |  |  |
| 5 |  |  | ✓ | ✓ |  | ✓ |  |  | ✓ |  |  |

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| **Relationship of Course Goals to the Program Student Outcomes** | |
| **SOc** | An ability to design, implement and evaluate a computer-based system, process, component, or program to meet desired needs.   * *Students are required design and implement a software project to meet a specification.* |
| **SOd** | An ability to function effectively on teams to accomplish a common goal.   * *Projects are implemented in teams.* |
| **SOf** | An ability to communicate effectively with a range of audiences.   * *The project requires a written final report.* |
| **SOi** | An ability to use current techniques, skills, and tools necessary for computing practices.   * *Projects use current computing and modeling/design tools.* |

1. **Brief list of topics to be covered**

* Introduction to Internet Protocols
* Dynamic Web Programming
* Web App Development
* Web Services
* Web Search and Mining
* Web Applications and Project