**Al al-Bayt University**
**Information Technology College**
**Information Systems Department**

| **902333 Information Retrieval** |
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| **Fall 2012** |

| **Course Catalog** |
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| Functional view of information retrieval, types of IRS, design issues of IRS (keyword-based retrieval, file structures, thesaurus construction, etc.), Evaluation of IRS, and the types of query languages used to express the user need, and what are the operations should be used in order to enhance the relevancy. |

| **Textbook(s)** | |
| :--- | :--- |
| **Title** | Modern Information Retrieval |
| **Author(s)** | Baeza-Yates and Ribeiro-Netao |
| **Edition** | 2 |
| **Publisher** | Addison-Wesley |
| **Year** | 1999 |
| **Number of copies in university library** | 2 |

| **References** | |
| :--- | :--- |
| **Books** | **Title and Authors:** Introduction to Information Retrieval, C.D. Manning, P. Raghavan, H. Schütze<br>Edition Number: 1st<br>Publisher: Cambridge University Press<br>Date Published: 2009<br>ISBN:<br>Number of copies in university library: |
| **Internet Links** | www-a2k.is.tokushima-u.ac.jp/member/kita/NLP/IR.html |

| **Instructors** | |
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| **Coordinator** | Saif Addeen AlRababah |
| **Office Location** | IT College |
| **Office Phone** | 6297000 ext. 3386 |
| **Email** | Saif_r@aabu.edu.jo |
| **Other Instructor** | |

| Class Schedule and Locations |
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| **Section 1:**<br>Time(s): 10:00 – 11:00<br>Location: 286 Quraish |

| Office Hours |
|---|
| Saif Rababah |
| Sun, Thu → 9-10        Mon→12.30-1.30        Tue →1-2 |

| Course Objectives | Assessment Method |
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| learn the important concepts, algorithms, and data/file structures that are necessary to specify, design, and implement Information Retrieval (IR) systems | Exams |
| The student should be able discover the applications of IR systems on the Web by selecting any research paper talking about the applications of IR and the student should summarize the ideas mentioned in the paper using a power point presentation and present these ideas to his/her colleagues | Term Paper |
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| Topics Covered | | |
|---|---|---|
| Topic | Chapter(s) in Text | Week(s) |
| Introduction  To Information Retrieval Systems | 1 | 1 |
| Models of Information Retrieval (Vector Space Model, Boolean Model,..) | 2 | 2,3 |
| IR Evaluation | 3 | 4,5 |
| Test 1 | | |
| Query Languages | 4 | 6,7 |
| Query Operations | 5 | 8,9 |
| Test 2 | | |
| Text Processing | 6 | 10 |
| Indexing and Searching | 7 | 11,12 |
| Web Information Retrieval | 8 | 14,15 |
| Students Presentations | | 15 |
| Final exam | | 16 |

**Course Outcomes:**

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| Recognize the Boolean Model, Vector Space Model, and Probabilistic Model |
| Understanding the languages which are used in expressing the query |
| Understanding the operations to reformulate the query and query expansion |
| Understanding the text operations that should be applied on documents to convert them to Logical view |
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| Evaluation | | |
|---|---|---|
| **Assessment Tool** | **Expected Due Date** | **Weight** |
| Test 1 | 6th week | 20% |
| Test 2 | 12th week | 20% |
| Presentations | Submission date: 14th week | 10% |
| Final Exam | TBA | 50 % |

| Policies | |
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| **Attendance** | It is strongly recommended that students attend all data structure lectures. Also, university regulations mandate that students may not miss more than 10% of classes without valid excuses. In all cases, they may not miss more than 20% of classes. Should they do, they will be not be allowed to take course exams. |
| **Homework/Lab** | Students are expected to attend lab sessions and submit assignments on time. |
| **Exams** | Exams will be close-book. Exam dates will be announced later according to departmental and university schedules. |
| **Plagiarism** | You should not copy other people's work and claim it is yours. Detected plagiarism will be dealt with as per university regulations. |