

OPERATING SYSTEM 1 COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	University of Baghdad/ College of Science for Women
2. University Department/Centre	Computer Science Department
3. Course title/code	Operating Systems1\406 COS1
4. Programme(s) to which it contributes	Computer Science
5. Modes of Attendance offered	Physical Attendance
6. Semester/Year	Fourth Year/ First Semester

7. Number of hours tuition (total)	60 total (30 theoretical, 30 practical)
8. Date of production/revision of this specification	16/6/2016
9. Aims of the Course	
<p>To understand the basic components of the operating System starting from first platform ending to modern OS going through all the changes that have been done to get what is available nowadays, also to go through different OS algorithms that is used to manage the system in (H/W and S/W) and how can overcome some malfunction errors and turbulences that may occur during its operation, besides knowing the structure of the memory and how organized by it.</p>	

10. Learning Outcomes, Teaching ,Learning and Assessment Methode
<p>F- Knowledge and Understanding</p> <p>A1- recognize the concept of operating systems, and what are the most important functions and features and how to assess their work.</p> <p>A2- learn about the history of operating systems and what other knowledge associated fields.</p> <p>A3-. Also you have the ability to know or estimate the extent of systems that have been built, its validity, and areas of weaknesses</p>
<p>B. Subject-specific skills</p> <p>B1. Writing algorithms to coordinates the operating systems controlling task</p> <p>B2. Locates the errors and faults that may arise during the operation of OS</p> <p>B3. Major maintenance on the operation of the OS</p>
Teaching and Learning Methods
<ul style="list-style-type: none"> • Education: provide lectures and printed sources from the modern, diverse and rich sources including examples • Education: Harnessing smart blackboard to the goal of teaching students and

explain the steps the solution and extraction results

- Education: resolving some questions, with intent to contain mistakes and make the students extracted error
- Learning: asking questions and inquiries and making the student turn into a teaching explanation and solution on the blackboard at that point, brainstorming method
- Learning: questions directly and consequently all students to learn the extent of interaction and the rest to be paid attention to
- Learning: Each specific group and explain its interaction between students with questions and answers and provide an environment that enables the student to lecture management or debate

Assessment methods

- Quizzes (quiz) semi-weekly
- Reporting and in the form of aggregates by a report for each set and presented over students
- Questions sudden and overlapping put up with to explain Article
- laboratory tests on the computer and is written to enable the student to the solution without a computer
- monthly and quarterly tests

C. Thinking Skills

C1-providing range solutions to the same problem and discussed both individually and determine the appropriate method of solution to the problem at hand with a stand on the disadvantages of the rest of the solutions

C2- put forward solutions contain inaccuracies and identifying these mistakes After discussion and processed

C3-oral exceptional questions that need exceptional answers where heavyweight grades are assigned and some tipoff grades also provides

C4- choose the most appropriate algorithm used to manipulate the image checking out the image descriptions

Teaching and Learning Methods

Discussions that arise during the time of lecture, and an attempt to involve the largest possible number of students in the conversations and discussion, and direct the discussions to be objectively purpose.

Assessment methods

- Oral evaluated by involving students in discussions
- Quizzes (quiz)
- laboratory tests on the computer and is written
- exams monthly and quarterly

D. General and Transferable Skills (other skills relevant to employability and personal development)

D1- distribution of specific topics for each group of students to prepare research reports from the the World Wide Web, the sources or the library and drafted in accordance with the basis of the approved formulation research

D2-giving leadership debate administration, however, the group discussion and enable them to drive and manage the dialogue

D3- alert on errors in the answers to the oral and discuss them to learn their mistake

D4- alert on errors in the answers of students in the written exams to clarify to the student

11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	4	Java Overview	OS Definition and Generations	According to point 10 hereinabove and on demand	According to point 10 hereinabove and on demand
2	4	Create Application in Java	Chapter1: OS overview	According to point 10 hereinabove and on demand	According to point 10 hereinabove and on demand
3	4	Read and Write in Java	Chapter1: OS overview	According to point 10 hereinabove and on demand	According to point 10 hereinabove and on demand
4	4	Debug first Application	Chapter2 : Computer System Operation	According to point 10 hereinabove and on demand	According to point 10 hereinabove and on demand
5	4	Access Modifiers in Java	Chapter2 : Computer System Operation	According to point 10 hereinabove and on demand	According to point 10 hereinabove and on demand

6	4	Access Modifiers in Java	Chapter2 : Computer System Operation	According to point 10 hereinabove and on demand	According to point 10 hereinabove and on demand
7	4	Adding/Removing Classes to a Package	Chapter 3: OS Structure	According to point 10 hereinabove and on demand	According to point 10 hereinabove and on demand
8	4	Defining Methods	Chapter 3: OS Structure	According to point 10 hereinabove and on demand	According to point 10 hereinabove and on demand
9	4	Building Constructors	Chapter 3: OS Structure	According to point 10 hereinabove and on demand	According to point 10 hereinabove and on demand
10	4	Overloading Methods	Chapter 3: OS Structure	According to point 10 hereinabove and on demand	According to point 10 hereinabove and on demand
11	4	Overriding Methods	Chapter 4: Process Management	According to point 10 hereinabove and on	According to point 10 hereinabove and on demand

				demand	
12	4	Overriding Constructors	Chapter 4: Process Management	According to point 10 hereinabove and on demand	According to point 10 hereinabove and on demand
13	4	Linking the Shared Classes in Different Packages	Chapter 4: Process Management	According to point 10 hereinabove and on demand	According to point 10 hereinabove and on demand
14	4	String Class Operations	Chapter 5: Thread Management	According to point 10 hereinabove and on demand	According to point 10 hereinabove and on demand
15	4	Integer Class Operations	Chapter 5: Thread Management	According to point 10 hereinabove and on demand	According to point 10 hereinabove and on demand
16	4		Exam	According to point 10 hereinabove and on demand	According to point 10 hereinabove and on demand

12. Infrastructure

<p>Required reading:</p> <ul style="list-style-type: none"> · CORE TEXTS · COURSE MATERIALS · OTHER 	<ol style="list-style-type: none"> 1- Applied Operating System Concepts, Peter Gatrin, 6'th Edition, 2005 2- An introduction to Operating System, Framingham,1'st edition, 1983 3- Operating System Concept Silber Schatz Galvin, 5'th Edition, 1997
<p>Special requirements (include for example workshops, periodicals, IT software, websites)</p>	<p>Java language</p>
<p>Community-based facilities (include for example, guest Lectures , internship , field studies)</p>	

<p>13. Admissions</p>	
<p>Pre-requisites</p>	
<p>Minimum number of students</p>	<p>Subject to classroom size, 20 student as minimum</p>
<p>Maximum number of students</p>	<p>Subject to classroom size, maximum 30 students</p>