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| **ISHIK UNIVERSITY FACULTY OF SCIENCE Department of INFORMATION TECHNOLOGY,2017-2018 Spring Course Information for IT 325 COMPUTER AIDED DESIGN** |

|  |  |
| --- | --- |
| **Course Name:** | COMPUTER AIDED DESIGN |
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| --- | --- | --- | --- | --- | --- | --- |
| **Code** | **Course type** | **Regular Semester** | **Theoretical** | **Practical** | **Credits** | **ECTS** |
| IT 325 | 2 | 5 | 2 | 2 | 3 |  |

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| **Name of Lecturer(s)-Academic Title:** | Nawzad Kakamend - |
| **Teaching Assistant:** | - |
| **Course Language:** | - |
| **Course Type:** | Non-area Elective |
| **Office Hours** | Wednesday 4:00 pm to 6:00 pm  |
| **Contact:** | Email:nawzad.kakamand@koyauniversity.org Tel:07510440880  |
| **Teacher's academic profile:** | Assistant Lecturer MSc in Sustainable Building Technology  |
| **Course Objectives:** | Via this course students will learn the logic of 3D images and build some 3D objects by 3D max 2013, for this aim students will learn the fundamentals of 3D max 2013 and 3D image building. |
| **Course Description (Course overview):** | This course is aimed to teach how to draw and animate 3D objects which is a component of multimedia technologies. Via this course students are able to get the logic of 3D object building. Beside 3D object design this course is also aimed to teach the logical and applicable differences of raster and vector graphics. At this point of view students will also learn how to draw some shapes via mathematical functions. |
| **COURSE CONTENT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Week** | **Hour** |               **Date**               | **Topic** |
| **1** | 2 | 8-12/10/2017 | Introduction |
| **2** | 2 | 15-19/10/2017 | 3ds Max essantials - 3DSMax interface, modeling Basics, Rendering |
|  |  |  |  |
| **3** | 2 | 22-26/10/2017 | 3D modeling |
| **4** | 2 | 29/10-2/11/2017 | 3DsMAX ( compound objects ) |
|  |  |  |  |
| **5** | 2 | 5-9/11/2017 | Modifier list 1 |
| **6** | 2 | 12-16/11/2017 | Modifier list 2 |
|  |  |  |  |
| **7** | 2 | 19-23/11/2017 | Midterm Exam |
| **8** | 2 | 26-30/11/2017 | 3ds Max essantials - Polygon Modeling, - |
|  |  |  |  |
| **9** | 2 | 3-7/12/2017 | 3ds Max essantials - Material Basics - |
| **10** | 2 | 10-14/12/2017 | 3ds Max essantials - Rigid bodies 1 - |
|  |  |  |  |
| **11** | 2 | 17-21/12/2017 | 3ds Max essantials - Rigid bodies 2 - |
| **12** | 2 | 24-28/12/2017 | 3ds Max essantials - Camera basics, lighting basics - |
|  |  |  |  |
| **13** | 2 | 31/12/2017-4/1/2018 | 3ds Max essentials - Building a complicated animation - |
| **14** | 2 | 7-11/1/2018 | Presentations of Projects |
|  |  |  |  |
| **15** | 2 | 14-18/1/2018 | Final Exam |
| **16** | 2 | 21-25/1/2018 | Final Exam |
|  |  |  |  |

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| **COURSE/STUDENT LEARNING OUTCOMES**

|  |  |
| --- | --- |
|  |  |
| **1** | To learn the essentials of 3D MAX 2013 |
| **2** | To build 3D models and moving cameras in and around the produced model and form a short movie |
| **3** | Using and editing materials |

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| **COURSE'S CONTRIBUTION TO PROGRAM OUTCOMES**(Blank : no contribution, I: Introduction, P: Profecient, A: Advanced )

|  |  |  |
| --- | --- | --- |
|  | **Program Learning Outcomes** | **Cont.** |
| **1** | An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution | P |
| **2** | An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs | I |
| **3** | An ability to function effectively on teams to accomplish a common goal | I |
| **4** | An understanding of professional, ethical, legal, security, social, and economic issues and responsibilities | I |
| **5** | An ability to analyze the local and global impact of computing on individuals, organizations, and society | A |
| **6** | An ability to use current techniques, skills, and tools necessary for computing practice | A |
| **7** | An ability to use and apply current technical concepts and practices in the core information technologies of human computer interaction, information management, programming, networking, web systems and technologies | P |
| **8** | An ability to identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems | A |
| **9** | An ability to effectively integrate IT-based solutions into the user environment | P |
| **10** | An ability apply problem solving skills, core IT concepts, best practices and standards to information technologies | I |
| **11** | An ability to identify and evaluate organizational requirements and current and emerging technologies | I |
| **12** | An ability to select, design, integrate and administer IT-based solutions into the organizational environment | I |

 |
| **Prerequisites (Course Reading List and References):** | Noble, Allen George. Traditional buildings: a global survey of structural forms and cultural functions. London: I. B. Tauris, 2007. 1-17. Print.ISBN 9781845113056. Hardwood & other, Buie – Bridget May – Curt Sherman, “Architecture & Interior Design through the 18th Century”, Pearson Education, New Jersey, 2002. |
| **Student's obligation (Special Requirements):** | The students should make a documentation about their local historical spaces and then renovate them in order to be used as a touristic place. |
| **Weekly Laboratory/Practice Plan:** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Week** | **Hour** |               **Date**               | **Topics** |
| 1 | 2 | 8-12/10/2017 |  |
| 2 | 2 | 15-19/10/2017 |  |
|  |  |  |  |
| 3 | 2 | 22-26/10/2017 |  |
| 4 | 2 | 29/10-2/11/2017 |  |
|  |  |  |  |
| 5 | 2 | 5-9/11/2017 |  |
| 6 | 2 | 12-16/11/2017 |  |
|  |  |  |  |
| 7 | 2 | 19-23/11/2017 |  |
| 8 | 2 | 26-30/11/2017 |  |
|  |  |  |  |
| 9 | 2 | 3-7/12/2017 |  |
| 10 | 2 | 10-14/12/2017 |  |
|  |  |  |  |
| 11 | 2 | 17-21/12/2017 |  |
| 12 | 2 | 24-28/12/2017 |  |
|  |  |  |  |
| 13 | 2 | 31/12/2017-4/1/2018 |  |
| 14 | 2 | 7-11/1/2018 |  |
|  |  |  |  |
| 15 | 2 | 14-18/1/2018 |  |
| 16 | 2 | 21-25/1/2018 |  |
|  |  |  |  |

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| **Course Book/Textbook:** | Auto desk Official Training Guide Jeffrey M.Harper |
| **Other Course Materials/References:** | Lynda.com, Youtube.com, http://www.ishik.edu.iq/science/gokhan-gumus/ |
| **Teaching Methods (Forms of Teaching):** | Lectures, Practical Sessions, Excersises, Assignments |
| **COURSE EVALUATION CRITERIA**

|  |  |  |
| --- | --- | --- |
| **Method** | **Quantity** | **Percentage (%)** |
| Quiz | 1 | 10 |
| Homework | 1 | 10 |
| Project | 1 | 20 |
| Midterm Exam(s) | 1 | 20 |
| Final Exam | 1 | 40 |
| **Total** | **100** |
| **Examinations:**Fill in the Blanks, Multiple Choices, Short Answers |  |  |

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| **Extra Notes:** |
| **ECTS (ALLOCATED BASED ON STUDENT) WORKLOAD**

|  |  |  |  |
| --- | --- | --- | --- |
| **Activities** | **Quantity** | **Duration (Hour)** | **Total Work Load** |
| Course Duration (Including the exam week: 16x Total course hours) |  |  | 0 |
| Hours for off-the-classroom study (Pre-study, practice) |  |  | 0 |
| Assignments Mid-terms |  |  | 0 |
| Final examination |  |  | 0 |
| Other |  |  | 0 |
| **Total Workload** | **0** |
| **ECTS Credit (Total workload/25)** | **0** |

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**Peer review**

|  |  |  |
| --- | --- | --- |
| Signature: | Signature: | Signature: |
| Name: | Name: | Name: |
| Lecturer                                                                       | Head of Department                                                         | Dean |

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