# COMPUTER AIDED DESIGN

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| 1 | Course Title: | COMPUTER AIDED DESIGN | |
| 2 | Course Code: | MIM2006 | |
| 3 | Type of Course: | Compulsory | |
| 4 | Level of Course: | First Cycle | |
| 5 | Year of Study: | 2 | |
| 6 | Semester: | 4 | |
| 7 | ECTS Credits Allocated: | 3.00 | |
| 8 | Theoretical (hour/week): | 1.00 | |
| 9 | Practice (hour/week): | 2.00 | |
| 10 | Laboratory (hour/week): | 0 | |
| 11 | Prerequisites: | None | |
| 12 | Language: | Turkish | |
| 13 | Mode of Delivery: | Face to face | |
| 14 | Course Coordinator: | Prof. Dr. M.ÖZGÜR EDİZ | |
| 15 | Course Lecturers: | Yok | |
| 16 | Contact information of the Course Coordinator: | Prof.Dr.Özgür EDİZ<br>ozgur@uludag.edu.tr | |
| 17 | Website: | | |
| 18 | Objective of the Course: | This course aims to teach how to developed the contemporary architecture tools in digital ways in architectural design process. | |
| 19 | Contribution of the Course to Professional Development: | To learn temporary computer technologies,<br>being harmony with other profession | |
| 20 | Learning Outcomes: | | |
| | | 1 | The creativty of relationship betveen concepts and architectural design |
| | | 2 | Putting Inovative approaches to the architectural design studio |
| | | 3 | Using digital design concepts in pre-design and architectural design process |
| | | 4 | Having flexible and free mental behaviors by using digital design tools and approaches |
| | | 5 | Learning flexible and freely thinking aproaches by usingdigital technologies |
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| 21 | Course Content: | | |

**Course Content:**

| Week | Theoretical | Practice |
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| 1 | Systemathic approaches Thorough the modelling architectural design and architectural design process. | |
| 2 | Feautures of digital design environment, communication, presentation and design environment. | |

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| **3** | Theoretical bases of CAAD. | |
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| **22** | Textbooks, References and/or Other Materials: | Augenbroe, G., Eastman, C., (1999), Computers in Building, Kluwer Academic Publ. U.S.A.<br>Coyne, R.D., Rosenman, M.A., Radford, A.D., Balachandran, M., Gero, J.S., (1990), Knowledge-Based Design Systems U.S.A: Addison-Wesley. .<br>Gero, J.S., Maher, M.L. (eds.), (1993), Modeling Creativity and Knowledge-Based Creative Design, NewJersey: Lawrence Erlbaum Ass. Publ. .<br>Gero.J.S., Tyugu,E., (Eds.) (1994), Formal Design Methods for CAD, Elsevier, IFIP. .<br>Jabi, W., (Ed.) (2001), Reinventing the Discourse: How and Learning in a igital World, Lawrence Erlbaum, New Jersey.<br>Butterworth. .<br>Maher, M.L., Pu, P., (1997), Issues and Applications of Associates Publ., New Jersey. .<br>Publ. J., (ed) (1997), Advances in Collaborative Design<br>Stevens, G., (1990), The Reasoning Architect: Mathematics and Science in Design, Singapur: McGraw<br>Timmermans, H.,(ed.), (1993), Design and Decision Support Systems in Architecture, Hollanda: |

| Activites | Number | Duration (hour) | Total Work Load (hour) |
|---|---|---|---|
| Theoretical | 14 | 1.00 | 14.00 |
| Practicals/Labs | 14 | 2.00 | 28.00 |
| Self study and preperation | 5 | 3.00 | 15.00 |
| Homeworks | 2 | 14.00 | 28.00 |
| Projects | 0 | 0.00 | 0.00 |
| Field Studies | 0 | 0.00 | 0.00 |
| Midterm exams | 1 | 3.00 | 3.00 |
| Others | 0 | 0.00 | 0.00 |
| Final Exams | 1 | 2.00 | 2.00 |
| Total Work Load | | | 93.00 |
| Total work load/ 30 hr | | | 3.00 |
| ECTS Credit of the Course | | | 3.00 |

| TERM LEARNING ACTIVITIES | NUMBER | WEIGHT |
|---|---|---|
| Midterm Exam | 1 | 30.00 |
| Quiz | 0 | 0.00 |
| Home work-project | 2 | 20.00 |
| Final Exam | 1 | 50.00 |
| Total | 4 | 100.00 |
| Contribution of Term (Year) Learning Activities to Success Grade | | 50.00 |
| Contribution of Final Exam to Success Grade | | 50.00 |
| Total | | 100.00 |
| Measurement and Evaluation Techniques Used in the Course | | homework |

| 24 | ECTS / WORK LOAD TABLE |
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| 25 | CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS | | | | | | | | | | | | | | | |
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| | **PQ1** | **PQ2** | **PQ3** | **PQ4** | **PQ5** | **PQ6** | **PQ7** | **PQ8** | **PQ9** | **PQ10** | **PQ11** | **PQ12** | **PQ13** | **PQ14** | **PQ15** | **PQ16** |
| **ÖK1** | 5 | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 5 | 1 | 0 | 0 | 0 | 0 | 0 |
| **ÖK2** | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| **ÖK3** | 5 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| **ÖK4** | 1 | 1 | 1 | 1 | 1 | 3 | 2 | 1 | 3 | 1 | 5 | 0 | 0 | 0 | 0 | 0 |
| **ÖK5** | 2 | 1 | 1 | 2 | 5 | 4 | 3 | 1 | 1 | 1 | 5 | 0 | 0 | 0 | 0 | 0 |
| **LO: Learning Objectives PQ: Program Qualifications** | | | | | | | | | | | | | | | | |
| **Contribution Level:** | **1 very low** | | **2 low** | | | **3 Medium** | | | **4 High** | | | **5 Very High** | | | | |