

COMPUTER OPERATING SYSTEMS

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| 1 | Course Title: | COMPUTER OPERATING SYSTEMS | |
| 2 | Course Code: | BMB3004 | |
| 3 | Type of Course: | Compulsory | |
| 4 | Level of Course: | First Cycle | |
| 5 | Year of Study: | 3 | |
| 6 | Semester: | 6 | |
| 7 | ECTS Credits Allocated: | 5.00 | |
| 8 | Theoretical (hour/week): | 3.00 | |
| 9 | Practice (hour/week): | 0.00 | |
| 10 | Laboratory (hour/week): | 0 | |
| 11 | Prerequisites: | | |
| 12 | Language: | Turkish | |
| 13 | Mode of Delivery: | Face to face | |
| 14 | Course Coordinator: | Dr. Öğr. Üyesi Metin BİLGİN | |
| 15 | Course Lecturers: | | |
| 16 | Contact information of the Course Coordinator: | Bilgisayar Müh. Bölüm Binası, 1. kat, oda 3 Tel.:+90 (224) 275 52 63 email: metinbilgin at uludag.edu.tr | |
| 17 | Website: | | |
| 18 | Objective of the Course: | The objective of this lecture is to enable the students to describe the basic tasks of operating systems and explain the process management and memory management services of operating systems in detail | |
| 19 | Contribution of the Course to Professional Development: | | |
| 20 | Learning Outcomes: | | |
| | | 1 | To define the basic tasks of operating systems. |
| | | 2 | To define the basic concepts related to operating systems. |
| | | 3 | To compare processes and threads. |
| | | 4 | To compare the performances of process scheduling algorithms. |
| | | 5 | To detect and solve deadlock problems in process execution. |
| | | 6 | To explain basic memory management strategies. |
| | | 7 | To compare memory management mechanisms. |
| | | 8 | To detect the interactions between the modules of operating systems. |
| | | 9 | To make deductions based on available information. |
| | | 10 | To analyze and solve problems. |
| 21 | Course Content: | | |
| | | Course Content: | |
| Week | Theoretical | Practice | |
| 1 | History of operating systems and introduction to operating systems | | |
| 2 | Hardware requirements of operating systems | | |
| 3 | Processes and process management mechanisms | | |

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| ÖK5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | | | |