Course Code-Name	CSE 101 – COMPUTER ENGINEERING CONCEPTS & ALGORITHMS

Course Schedule	**Mon** 12:00-14:00; Thu 13:00-14:00 **Online** **Lab:** Thu 14:00-16:00 (sec1) Wed 16:18:00 (sec2)
Instructor's Name **Phone** **E-mail** **Office Hours**	Prof. Sezer Gören Uğurdağ 1421 sgoren@cse.yeditepe.edu.tr **TBA** **https://coadsys.**yeditepe.edu**.tr** **COADSYS password:** Ewu8NTXK
Assistant's Name **Phone** **E-mail**	CSE101.1 Gökhan Akgün gakgun@cse.yeditepe.edu.tr CSE101.2 Yiğit Bilgin ybilgin@cse.yeditepe.edu.tr
Textbook	J. G. Brookshear, **Computer Science an Overview**, Addison Wesley
Rec. Prerequisites	-
Course Outline	Week 01: Introduction, History of Computers Week 02: Hardware: CPU, data storage, I/O units Week 03: Numbering Systems, Binary Arithmetic, Logic Gates Week 04: Data Communication and Networking Week 05: Operating Systems and Application Software Week 06: Computer Ethics, Social Issues About Computer Engineering Week 07: Midterm I - Languages, Algorithms, Pseudocodes, and Flowcharts Week 08: Algorithm Design: Conditionals, Loops Week 09: Algorithm Design: Subroutines Week 10: Algorithm Design: Recursion Week 11: Midterm II Week 12: Introduction to Programming Week 13: Introduction to Programming Week 14: Introduction to Programming
Midterm Dates	Midterm I: Week 7, Midterm II: Week 12
Grading (Tentative)	You will be given some assignments, quizzes, lab work, two midterms and a final exam. Grade distribution: Lab Work: 10% Assignments: 10% Final Exam: 30% 2 Midterms: 50%
Attendance	80% class, 80% lab attendance is mandatory.
Course Objectives	This course will give an introduction to computer science and engineering concepts, department and faculty orientation, evolution of computers, software and hardware concepts, data storage and representation, operating systems, application programs, introduction to algorithms and programming.

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Additional Remarks	• Copied assignments will be accepted as **not submitted** for both parties. • If you miss a midterm and have a medical report for the day, your midterm weight will be distributed over the final and/or lab work and/or the final project, or you may be given a make up. • There is no make up for the final exam.

Course Outcomes

• Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modelling methods for this purpose.

• Ability to work efficiently in intra-disciplinary and multi-disciplinary teams; ability to work individually.

• Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.

• Consciousness to behave according to ethical principles and professional and ethical responsibility; knowledge on standards used in engineering practice.

• Knowledge about the global and social effects of engineering practices on health, environment, and safety, and contemporary issues of the century reflected into the field of engineering, awareness of the legal consequences of engineering solutions.