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|  | Course name: CENG 103 - Computer Programming I | | Department: Computer Engineering | | Semester | |
| | | | | | 1 | |
| | Methods of Education | | | | | |
| Lecture | Recitation/ (Etud) | Lab | Project/Field Study | Homework | Other | Total |
| 28 | 32 | 40 | 38 | 42 | | 180 |
| | | | | | | 6 |
| Language | English | | | | | |
| Compulsory/Elective | Compulsory | | | | | |
| Prerequisites | None | | | | | |
| Course Contents | This course will introduce the basic elements of a structural and imperative programming language. The C language will be used. Topics include the concept of type, main types, expressions, standard functions, input/output statements, type conversion, flow of control structures, ifthenelse, loop structures, whiledo, repeat until, fortodo, case statements; procedures and functions, modularity in programming, global and local variables, pointers, dynamic variables, and arrays. | | | | | |
| Course Objectives | This course introduces the students to the fundamental concepts of structured programming. | | | | | |
| Learning Outcomes and Competences | <ol style="list-style-type: none"> 1. Explain computer based problem-solving and algorithm. 2. Define the basic concepts of structured programming. 3. Express arithmetic and logical functions in C programming language. 4. Define the concepts of memory management and pointer. | | | | | |
| Textbook and /or References | <ol style="list-style-type: none"> 1. Deitel&Deitel, (1991), "C How to Program", Prentice Hall. 2. Bjarne Stroustrup, (1997), "The C++ Programming Language", Addison-Wesley Pub. | | | | | |
| Assessment Criteria | | | If any, mark as (X) | | Percentage (%) | |
| | Midterm Exams | | X | | 30 | |
| | Quizzes | | | | | |
| | Homework | | X | | 2 | |
| | Projects | | X | | 3 | |
| | Term Paper | | | | | |
| | Laboratory work | | X | | 5 | |
| | Other | | | | | |
| | Final Exam | | X | | 60 | |
| Instructors | Assoc. Prof. Dr. | | | | | |