**Ankara Üniversitesi  
Kütüphane ve Dokümantasyon Daire Başkanlığı**

**Açık Ders Malzemeleri**

Ders izlence Formu

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| Dersin Kodu ve İsmi | **COM101-B** |
| Dersin Sorumlusu | Dr. Öğretim Üyesi Hacer YALIM KELEŞ |
| Dersin Düzeyi | Lisans |
| Dersin Kredisi | Ulusal Kredi:5  AKTS Kredi: 9 |
| Dersin Türü | Zorunlu |
| Dersin İçeriği | Introduction to Programming Languages and C Programming Language, Sequential Structures ( A simple sequential program, character set, built-in C data types, variable declarations, constants, arithmetic operators), Expressions and Statements ( Evaluation of an expression, precedence and associativity rules, parantheses rule, assignment statements, increment and decrement operators, compound assignment operators, nested assignments, basic input/output library functions, type conversions, simple macros),Selective Structures (Logical operators, relational operators, conditional expression operator, conditional statements, nested conditional statements, dangling else problem, multiway conditional statements, constant MCS-switch statements), Repetitive structures (Pre-test loop structure, post-test loop structure, while statements, do-while loops, for loops, infinite loops, nested loops, loop interruption, null statement, comma operator), Function definition, local variable declarations, return statement, function call, call by value/reference conceptes, Function prototypes, external variables, storage classes, automatic/static variables, recursion, Basics, array declaration, accessing array elements, initialization, passing arrays as function arguments, Basics of pointers, address and dereferencing ops, pointer type declaration, pointer assignment and initialization, Functions and pointers, call by reference, arrays vs pointers, strings and pointers, string library functions, multi-dimensional arrays and pointers, pointer arrays, command-line aguments, dynamic memory management, Stucture definition, structure variable declarations, intialization, accessing members, structure assignments, nested structures, pointers to structures, structures and functions, Arrays of structures, self-referencial structures, linked lists, trees, unions, Bitwise operators, precedence and associativity rules, left/right shift operators, bit fields. |
| Dersin Amacı | Dersin amacı, bilgisayar programlama konusunundaki temel içeriği C programlama dili kullanarak öğretmektir. Dersin sonunda öğrenci sadece C dilinin syntaxı ve semantiği ile ilgili bilgi edinmekle kalmayacak, zorlu programlama ödevleri ve haftalık lab uygulamalarıyla da programlama pratiği yapma imkanı bulacaktır. |
| Dersin Süresi | Teorik: 4 saat/hafta,  Uygulama: 2 saat/hafta |
| Eğitim Dili | İngilizce |
| Ön Koşul | Yok |
| Önerilen Kaynaklar | “Programming in ANSI C”, Kumar & Agrawal, West Publishing Co., 1992 |
| Dersin Kredisi | Ulusal Kredi:5  AKTS Kredi: 9 |
| Laboratuvar | 2 saat/hafta |
| Diğer-1 |  |