

İTÜ UÇAK VE UZAY BİLİMLERİ FAKÜLTESİ

UZAY MÜHENDİSLİĞİ BÖLÜMÜ DERS BILGI FORMU

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	OPEN/CLOSE/INQUIRE statements, file i/o, positioning, direct vs. sequential access Linked lists, pointers. ...																											
Önkosul dersleri:	BIL101E MIN FF																											
Ders kitabı(notu):	T.M.R. Ellis and Ivor R. Philips, <u>Programming in F (SUGGESTED)</u> , Harlow, England : Addison-Wesley, 1998, (M.I.L.'s Reserve Section)																											
Yararlanılacak diğer kaynaklar:	Loren P. Meissner, <u>Essential Fortran 90 & 95</u> , Albuquerque, NM : Unicomp, c1997, M.I.L.'s Reserve Section Koffman, Elliot B., Frank L. Friedman, <u>Problem solving and structured programming in FORTRAN</u> , Reading, Mass. : Addison-Wesley Pub. Co., c1977. Michael Metcalf, John Reid, <u>The F programming language</u> , Oxford : Oxford University Press, 1996 Metcalf, Michael and John K. Reid, <u>Fortran90/95 Explained</u> , Oxford University Press 1996 Nyhoff, Larry and Sanford Leestma, <u>Introduction to Fortran90 for engineers and scientists</u> , Upper Saddle River, N.J. : Prentice Hall, c1997																											
Laboratuar Deneyleri	No Laboratory experiments.																											
Bilgisayar kullanımı	During Lectures and Practices Preparing Homeworks																											
Diger uygulamalar																												
Basarı Degerlendirme Sistemi	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Adedi</th> <th style="text-align: center;">Etki Oranı %</th> </tr> </thead> <tbody> <tr> <td>Ara Sinavlar</td> <td style="text-align: center;">2</td> <td style="text-align: center;">40</td> </tr> <tr> <td>Kısa Sinavlar</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Ödevler</td> <td style="text-align: center;">5-10</td> <td style="text-align: center;">20</td> </tr> <tr> <td>Projeler</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Dönem Ödevleri</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Laboratuar</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Diger</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Final Sinavi</td> <td style="text-align: center;">1</td> <td style="text-align: center;">40</td> </tr> </tbody> </table>		Adedi	Etki Oranı %	Ara Sinavlar	2	40	Kısa Sinavlar	-	-	Ödevler	5-10	20	Projeler	-	-	Dönem Ödevleri	-	-	Laboratuar	-	-	Diger	-	-	Final Sinavi	1	40
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Tentative Program of

BIL 106E (F) INTRODUCTION TO SCIENTIFIC AND ENGINEERING COMPUTING (2+2+0)

Week	Date	Subject	Further Details
1	29/1	Introduction + History	History (Computers, FORTRAN, etc.) Algorithm, data, visualization.
2	5/2	-Organizational matters -Fortran 90 (subset F): Basics	Organizational matters, Fortran 90 (subset F): Basics, Example programs in detail, Data types, operators, List-directed I/O, Statements sequence
-	12/2	HOLIDAY	
3	19/2	-Fundamental data types	Fundamental data types, Assignment, List-directed input/output
4	26/2	-Basic Building Blocks -Procedures	Basic Building Blocks, Main program unit, Module program unit, Procedures , functions / Subroutines
5	5/3	Decision Making	Decision Making, Logical variables and operators, Flow Control, if /case
6	12/3	Do Loops	Repeating parts of your program, do loops
7	19/3	Arrays	Midterm1 Arrays, Introduction
8	26/3	More on arrays...	More on arrays...
9	2/4	Improving on building blocks	Improving on building blocks: Recursive procedures, Derived data types and structures
10	9/4	More Control over I/O	input and output (I / O), file processing, More on derived data types
11	16/4	Array processing	Array processing and Matrix manipulation
12	23/4	Arrays, vectors	Arrays, vectors, matrices and cubes Midterm2
13	30/4	An introduction to Numerical Methods	An introduction Numerical Methods in F Programs
14	7/5	Pointers and Linked Structures	Linked lists, pointers, ...