

Department of Computer Science and Engineering, MIST

COURSE OUT LINE

Course Code: CSE 291

Course Title: Computer Programming

Level/Term: 2/1

Academic Session: 2017-2018

Course Teacher(s):

Office/Room:	E-mail and Telephone:
Room No: 805	azim518000@gmail.com
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	Room No: 805 Tower-1 Room No: 810

Course Outline:

CSE 291 Computer Programming

Objectives:

- 1. To provide basic concepts of compilers, interpreters and IDE
- 2. To know about various syntax, semantics of structured programming languages
- 3. To analyze and design various applications using different library functions of structured programming language

Learning Outcomes:

Upon completion of the course, the students will be able to:

- 1. Describe algorithm and solve problems using computers.
- 2. Analyze the fundamental principles, typical characteristics and mechanisms of a structured programming language.
- 3. Develop basic programming skills with respect to program design and development.



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Text and Reference books:

- a. Teach Yourself C Herbert Schidlt
- b. C: The Complete Reference Herbert Schildt
- c. C Programming Language Dennis M. Ritche

Weekly schedule:

Week	Lecture	Торіс	Class Test
1	Lec 1	Programming Concepts, Program development	
	Lec 2	Stages, Structured programming language.	
	Lec 3		
2	Lec 4	Number System: binary, octal, decimal and	
	Lec 5	hexadecimal systems; Data types and their	Class Test 1
	Lec 6	memory allocation.	
3	Lec 7	Operators, expressions, Basic Input/output;	
	Lec 8	Control Structure: "if else", "switch", Flow	
	Lec 9	Charts	
4	Lec 10	Control structures: loop	
	Lec 11	-	
	Lec 12		
5	Lec 13	Control structures: Nested loop	
	Lec 14		
	Lec 15		Ola 22 Ta 24 2
6	Lec 16	Function, parameter passing convention;	Class Test 2
	Lec 17	Recursion	
	Lec 18		
7	Lec 19	Advanced recursion; Variable length argument	
	Lec 20	list, Command line parameters	
	Lec 21	·	
8	Lec 22	Arrays, Strings	
	Lec 23		
	Lec 24		Cl T
9	Lec 25	Pointers	Class Test 3
	Lec 26		
	Lec 27		



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Week	Lecture	Topic	Class Test
10	Lec 28	Multidimensional array; Dynamic memory	
	Lec 29	allocation	
	Lec 30		
11	Lec 31	File I/O; Header files, Preprocessor. User	
	Lec 32	defined data types: structures, unions,	
	Lec 33	enumerations	
12	Lec 34	Error Handling; Bitwise Operations	
	Lec 35		
	Lec 36		Class Tast 1
13	Lec 37	Linking, Library functions.	Class Test 4
	Lec 38		
	Lec 39		
14	Lec 40	Basic Data Structures: Stack, Queue and	
	Lec 41	Review	
	Lec 42		

Marks Distribution:

Class Participation/Observation	10%
Class Attendance	10%
Homework assignment and quizzes	20%
Final Examination (3 hours)	60%
Total	100%