



MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY JAMSHORO


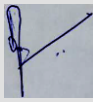

Department of Chemical Engineering

LESSON PLAN

COURSE TITLE: Introduction to Computing and Programming		COURSE CODE: CS146	CREDIT HOURS: 02	MINIMUM CONTACT HOURS: 32
COURSE INSTRUCTOR: Dr. Fahad Rehman Abro (A+B+C+D)				
Batch: 23CE	Semester: 1ST	Semester Starting Date: 15-08-2023	Semester Suspension Date: 24-11-2023	
COURSE LEARNING OUTCOMES:				
CLO No.	Description	Taxonomy level	Associated PLO	
1	UNDERSTAND basic computer organization and functions of various computer hardware and software components.	C2	1	
2	APPLY effective solutions to computer oriented civil engineering problems.	C3	3 & 5	
LESSON CONTENTS AND ASSOCIATED CLO(s)				
Contents	CLO No.	Marks Assigned	Delivery Methods	Assessment Methods (Marks)
<ul style="list-style-type: none"> Application areas of computer Information/Data Processing Cycle. History, Evolution and Generations of Computer. Input, output and peripheral Devices. Computer Memory: RAM, ROM, SRAM, DRAM, PROM, EPROM, EEPROM, Primary, cache memory, Secondary storage: Magnetic, Optical, and solid state, Units of memory measurement Basic CPU organization, Parts of CPU: ALU, MU, CU, FPU and Registers, Number systems (Binary, Octal, Decimal, Hexadecimal) Basic functions of operating system Computer Networks and their types. Computer software and its types. <p>No. of lectures: 22</p>	1	35	<ul style="list-style-type: none"> Class Lecture Discussion 	<ul style="list-style-type: none"> Assignment-I (03) Class Test-I (02) Mid semester Exam (15) Final Exam (15)
<ul style="list-style-type: none"> Instruction and program, Source, and object code Language Translators: Assembler, Interpreter and Compiler, Bug and Debugging, Compilation process. Basic program structure, Statement, functions, header files, Conditional controlled structures: If, If-Else, Else-If, Switch Iterative control structures: for, while, do-while, break and continue Iterative Control Structures: while & do while loops break and continue. Arrays: one and multi-dimensional, Strings Functions: predefined and user-defined, Structures and nested structures. <p>No. of lectures: 10</p>	2	15	<ul style="list-style-type: none"> Class Lecture Discussion Programing 	<ul style="list-style-type: none"> Final Exam (10) Assignment-II (02) Class Test-II (03)

ASSESSMENT DETAILS

S. No.	Assessment Activities	Marks	Activities		CLO(s) to be assessed
1	Quiz/Assignment/	10	Assignment(s)	2	1 and 2
			Class Test(s)	2	1 and 2
2	Mid Semester Exam	15	1		1
3	Final Semester Exam	25	1		1 & 2

Prepared by: Dr. Fahad Rehman Abro Signature:  Dated: 22-08-2023	Reviewed by: Curriculum Review Committee  Signature: Dated: 14/10/2023	Approved by: Chairman, CED  Signature: Dated: 14/10/2023
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