FACULTY OF MECHANICAL ENGINEERING

COURSE STRUCTURE

1	**Course Code and Name**	Technical Informatics I		
2	**Year**	1		
3	**Program Level/Category**	Degree/Computing		
4	**Unit**	3 Credits		
5	**Prerequisite Course**	Nil		
6	**Contact Hours**	Lecture	1 units	1 hours X 14 weeks
		Tutorial	0 unit	0 hour X 14 weeks
		Laboratory	2 unit	2 hours X 14 weeks
7	**Course Synopsis**	This course is an introductory course to C programming which includes programming basics, program structures, input/output functions, variables, math functions, selection and repetition control structures, numeric arrays, and functions.		
8	**Course Outcomes**	By the end of semester, students should be able to: CO1: Understand computing fundamentals and construct simple C programs that utilises standard input/output functions CO2: Construct C programs that uses math operations and math function CO3: Construct C programs with selection control structure (if, else if, else, switch) CO4: Construct C programs with repetition control structure (for, while, do-while loops) CO5: Construct C programs with functions and numeric arrays		
11	**References**	1. Harry H. Cheng, *C for Engineers and Scientists: An Interpretive Approach*, McGraw Hill 2010 2. Brookshear, J.G., *C Programming for Engineering & Computer Science*, Benjamin-Cummings 2000 3. Forouzan, B.A and Gilberg, R.F., *Computer Science: A Structured Programming Approach Using C*, Brooks/Cole 2001 4. Jeri R.Hanly and Elliot Koffman, *Problem Solving & Program Design in C,* Addison Wesley, 2002 5. Elice E. Fischer, David W.Eggert and Stephen M.Ross, *Applied C: An Introduction and More,* McGraw-Hill, 2001		