		3030 - CC	OMPUTEI	R PROG	GRA	MM	ING IN	A C			
				ive	Examination Schedule (Marks)						
Teaching Schedule Per Week			Assessment		Theory			Practical Ex.		Total	
Lectures	Practical	Credits ,					+	50		200	
	2	5	50		3Hrs	rs 100					
Pre-requisite		Source COM		Theor	vII	ſest	Total	TW 50	50	Gr Total 1 200	
			Semester	75		a5					
				110		×⊃ 				Interconnected	

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RATIONALE: - Many organisations and educational institutions have substantial number of interconnected computers in operation located far apart. Computer networks has made resource sharing, accessing remote databases, data transfer, etc. simpler, faster & cost effective.

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SYLLABI OF COURSES FOR ENGINEERING DIPLOMA PROGRAMMES OF BTE, GOA	L 1, 2 &	3 4
COURSE CONTENTS		
1. INTRODUCTION TO C	Hrs	
History of C language, important features of C language and structure of C language.	02	03
 LEXICAL ELEMENTS OF C LANGUAGE C character set, constants, variables, variable declaration, data types, labels, delimiters, reserved words and expressions. 	04	06
3. INPUT / OUTPUT IN C Conversion specification, Input functions, Output functions and formatted Input / Output.	03	05
4. OPERATORS & EXPRESSIONS IN C Arithmetic operators & expressions, hierarchy of operators, relational operators, logical operators, assignment operators, increment / decrement operators, bitwise data manipulation, data type conversion and mixed mode operations.	05	06
5. C CONTROL STRUCTURES Unconditional control-the go to statement, bi-directional conditional control -the if- else structure, multi directional conditional control-the switch statement, loop control, the for statement, the while statement, the do-while statement, break and continue statement.	06	14
6. C FUNCTIONS C function, C library functions, user defined functions, advantages of functions, arguments & parameters, return statement, function declaration, recursive functions, scope of the variables, scope rules for identifiers, storage class specifiers.	06	14
ARRAYS & STRINGS IN C Arrays, one-dimensional array, array declaration, multi-dimensional array, array initialisation, rules to initialise an array, strings, strings, character array.	06	15
Structure, declaration of a structure, access members of a structure, initialising a structure, array of structures, structures within a structure.	05	15
POINTERS Concept of pointers, declaration of pointers, pointer initialisation, pointer operators, pointer arithmetic.	06	14
). FILE HANDLING IN C ile-the definition, file handling in C, declaring a file, opening a file, reading from and writing to files, choosing a file.	05	08
Total	48	100
RACTICAL Exercise involving Output & Input formats control. Exercise with operators, expressions in C. Exercise on control statements.		

Exercise with arrays & strings.
 Exercise with functions & subroutines.
 Exercise with functions.
 Exercise with file handling.
 Exercise with structure & pointers.

REFERENCE BOOKS
1. Working with C by Yeshwant Kanetkar
2. The spirit of C by Henry Mullish, Hirbert L.Copper
3. The C Programming Language by Brain W. Kernigham, Denis M. Ritchie.
4. Understanding pointers in C by Yeshwant Kanetkar

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