RGPV (DIPLOMA WING) BHOPAL				OBE CURR THE	FORMA	г- З	Sheet No. 1/5				
Branch				OPTOELECTONICS	Semester		ш				
Course Code			Course Name Programming in C								
Course	Outco	ome 1		op simple progran f, scanf, getch etc.	ns using library funct	tions viz.	Tea Hr	[™] Mark			
Learning Outcome 1		ome 1	Identify a real life problem and convert it into a65programming problem using flow-charts, algorithms, pseudo-codes etc.6								
Contents		S	Program concept, Assembler, Compiler & Interpreter, Algorithms, Flowcharts								
Method of Assessment			Assignment, Quiz, Project								
Learning Outcome 2		Write, compile, edit, execute and debug simple C65programs on any Integrated DevelopmentEnvironment (IDE).6									
Contents		S	C program structure, pre-processor directives, C tokens, character set, keywords, identifiers, constants, variables, data types, data types conversion, Expressions, Statements, Use of header files								
Method of Assessment		-	Assignment, Quiz, Project								
		Write simple input output programs using library65functions printf, scanf, getch etc.6									
			Input/output functions- printf(), scanf(), getchar(), putchar(), gets(), puts() etc. Formatted I/O using control string.								
	ethod o essme		Assignment, Quiz, Project								

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Branch				OPTOELECTONICS		Semester				
Course	Code			Course Name	Prog	ramming in	C			
Course Outcome 2		Solve simple logical problems using different operators in programs.					ch S Ma	arks		
Learning Outcome 1			ntify different oper gram.	ators available in C		6	5			
Contents		Arithmetic Operators, Logical Operators, assignment operator, Relational Operators, Bitwise Operators, Special Operators: exit(), sizeof(), increment and decrement (post and pre) operators, precedence & associativity, Type casting.								
Method of Assessment			Assignment, Quiz, Project							
Learning Outcome 2		Select and utilize the right operator amongst all the operators in a particular problem scenario.65								
Co	ontent	s	Example practice problems using different types of operators.							
Method of Assessment		Assignment, Quiz, Project								
Learning Outcome 3		Write and execute simple math/logic based programs65using different operators.65								
Contents			Program implementation of example practice problems using different types of operators.							
	ethod o sessme		Assign	nment, Quiz, Projec	t					

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Branch				OPTOELECTONICS		Semester		I	11		
Course	Code			Course Name Programming in C							
Course Outcome 3		Utilize if-else, switch-case, goto, while, do-while, for loops to control the flow of program.					ch s	Marks			
Learning Outcome 1		Identify different control statements (as mentioned in CO) available in C program.						5			
Contents		 Branching statements: <i>if</i> statement, <i>if- else</i>, nested <i>if</i>, <i>goto</i> statement, <i>switch-case</i> statement. Loop statements: <i>for</i> statement, <i>while</i> statement, <i>Do-while</i> statement, <i>break</i> and <i>continue</i> statement, nested loop and infinite loop. 									
Method of Assessment			Assignment, Quiz, Project								
Learning Outcome 2		Select and utilize the right control statement amongst65all the options in a particular problem scenario.65									
Co	ontent	s	Example practice problems using different types of control statements.								
	ethod o essme		Assignment, Quiz, Project								
Learning Outcome 3		Write and execute simple math/logic/display based programs using different flow control statements.65									
Contents		Program implementation of example practice problems using different types of control statements.									
	ethod o essme	-	Assign	nment, Quiz, Projec	t						

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OBE CURRICULUM FOR THE COURSE

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FORMAT-	No. 4/

No.	4/5
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Branch	OPTOELECTONICS		Semester						
Course Code			Course Name Programming in C						
Course Outcome 4 Learning Outcome 1			Develop simple programs using arrays, strings, structures and enums.						
			ntify different deri htioned in CO) ava	ved data types (as ilable in C program.		6	5		
Conten	ts	declar arrays Strin functi Struc	ration, Array initial s. gs: String Manipula ons (concatenation tures: Definition, I	dimensional and Multi ization, operations on ations, gets(), puts(), s , comparison, length of Declaration, initializin ture elements, concep	one and two tring operation of a string etc ng structure, r	-dimensions, string	onal g		
Method Assessme	•	Assignment, Quiz, Project							
Learning Out	come 2	Select and utilize the right derived data type amongst all the options in a particular problem scenario.					5		
Conten	ts	Example practice problems using different types of derived data.							
Method Assessme	-	Assignment, Quiz, Project							
Learning Out	come 3	Write and execute simple mathematics/logic/display65based programs using different derived data types.5							
Conten	ts	Program implementation of example practice problems using different types of derived data.							
Method Assessme	-	Assign	nment, Quiz, Projec	t					

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Branch				OPTOELECTONICS		5	Semester	ш		
Course Code				Course Name	Pro	gra	mming in	С		
Course	Outco	ome 5	Devel	Develop simple programs using pointers and functions. Teach Hrs						Marks
Learnin	g Outo	ome 1	Identify the need for functions and pointers in65C programming.65							
Contents		 declaration, Function prototype, Local and global variables, scope and life of variable, call by value, call by reference. Arguments and Parameter passing mechanisms, recursion, command line argument. Storage classes: static auto, extern, and register. Pointers: Definition, Types, Declaration, & and * operator, pointer expression, pointer arithmetic, pointer to pointer, array of pointer, pointer to 								
	ethod o essme	-	functi Assig	on. gnment, Quiz, Proje	ct					
Learning	g Outo	come 2	Write and execute programs using pointers and65functions.						5	
Co	ntent	s	Program implementation of example practice problems of pointers and functions.							
Method of Assessment		Assignment, Quiz, Project								
Learning Outcome 3		Understand and utilize the concept of call-by-value, call-by-reference, recursion, storage classes and dynamic memory allocation in C .65								
Co	ntent	S	-	•	n of example practic	e pr	oblems of	above	e (L	03).
Method of Ass Assessment				Assignment, Quiz, Project						