

C++ Programming language (Practical) (18BSM605P)										
Teaching Scheme					Examination Scheme					
L	T	P	C	Hrs./Week	Theory			Practical		Total Marks
					MS	ES	IA	LW	LE/Viva	
--	--	2	1	2	--	--	--	50	50	100
<b>OBJECTIVES</b>										
<ul style="list-style-type: none"> <li>To understand concepts and methods of procedural programming using C++.</li> <li>To code and implement a well-structured, efficient computer program using the C/C++ programming language.</li> <li>To code efficiently, communicate effectively with colleagues and understand an improve software development practices.</li> </ul>										
<b>SYLLABUS</b>										
<p>Students will be able to learn various programming concepts and implement those concepts in the following practical tasks to be performed in practical lab hours:</p> <ul style="list-style-type: none"> <li>Write C++ programs that use selection (if, switch, conditional operator)</li> <li>Write C++ programs that use loops (while, do while, for)</li> <li>Write C++ programs that use sequential files for input and output</li> <li>Write C++ programs that make use of functions for transfer of control</li> <li>Write C++ programs that use arrays, including sorting and searching arrays</li> <li>Write C++ programs that use pointers</li> <li>Write a C++ program to print Fibonacci series without using recursion and using recursion.</li> </ul>										
<b>OUTCOMES</b>										
<p>CO 1: To learn basic syntax and programming operations in C++.</p> <p>CO 2: To learn the basic concept of Object-Oriented Programming with C++.</p> <p>CO 3: Learn various features of Object-Oriented Programming.</p> <p>CO 4: To be able to correctly use various data types available in C++ programming language and apply them in solving computational problems.</p> <p>CO 5: Demonstrate an understanding of algorithms in the problem-solving process.</p> <p>CO 6: Analyze programming errors in create effective and efficient computational codes.</p>										
<b>TEXTS AND REFERENCES</b>										
<ol style="list-style-type: none"> <li>Object-Oriented Programming with C++, Balagurusamy, TMH.</li> <li>Object Oriented Programming &amp; C++, R. Rajaram, New Age International.</li> <li>C++ The complete Reference, Schildt, 4th Ed, TMH.</li> <li>Object-Oriented Programming with C++&amp;JAVA, Samanta, PHI.</li> </ol>										