

Course Title	<b>CLOUD &amp; DISTRIBUTED SYSTEMS</b>
Course Code	<b>CSC 317</b>
Course Purpose and Objectives	The purpose of this course is to provide students knowledge in cloud and distributed systems. Initially students will learn how to distinguish the various types of cloud computing and also classify the various security threads within Cloud. Later in the course students will be exposed to some of the most common computing mechanisms and through various case studies, analyse and explain Cloud architectures. Using virtualization technologies students will learn how to design and build distributed systems.
Learning Outcomes	<ol style="list-style-type: none"> <li>1. Explain the fundamentals of Cloud Computing.</li> <li>2. Categorize and analyse the various types of cloud computing.</li> <li>3. Explain the fundamentals of Cloud Security.</li> <li>4. Recommend cloud computing mechanisms for specific case studies.</li> <li>5. Design and Build Distributed Systems.</li> </ol>
Course Content	<ul style="list-style-type: none"> <li>• Understanding cloud computing</li> <li>• Fundamentals concepts and models</li> <li>• Cloud-enabling technology</li> <li>• Fundamental cloud security</li> <li>• Cloud infrastructure mechanisms</li> <li>• Cloud architectures</li> <li>• Serverless computing</li> </ul>