

SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE
DEPARTMENT OF COMPUTER ENGINEERING

B.E. COMPUTER ENGINEERING

Subject : CLOUD COMPUTING

Session Feb-April 2021

Lab Assignments

S.No	Detailed Content	Mapping
1	<p>Objective: To learn about Amazon/Google cloud. Use Public cloud computing platforms and learn their virtual computing platform that allows users to rent virtual machine on which they can run their applications.</p> <p>Title: Getting Started in the Public Cloud Computing Platform like AWS/Google.</p> <p>Task: Create AWS instances, Connecting to Your Linux Instance Using SSH and Run a Linux OS in a Virtual Machine .Explore its Computing and Storage.</p>	CO 1
2	<p>Objective: To learn HDFS commands and design Map Reduce Algorithm.</p> <p>Title: Explore HDFS and design Map Reduce algorithm.</p> <p>Task: Write Map reduce code for some basic problems like word count problem.</p>	CO 3
3	<p>Objective: To learn basic Task scheduling algorithms in cloud .</p> <p>Title: Implement cloud Task Scheduling algorithm using cloud simulator.</p> <p>Task: Install cloudsim and implement basic task scheduling algorithm.</p> <p>a. Roundrobin</p> <p>b. Priority Scheduling</p>	CO 4
4	<p>Objective :To learn use and design of REST APIs</p> <p>Title: Designing an web application that uses REST API's .</p> <p>Task: Design any application that uses the REST interface in json format and xml format.</p>	CO 2

5	<p>Objective: To learn Resource Management techniques in cloud like Load Management .</p> <p>Title: Study and implementation of cloud load management techniques</p> <p>Task: Install cloudsim and simulate load balancing algorithm .</p>	CO 4
6	<p>Objective: To learn Task Optimization in cloud environment</p> <p>Title: Explore workflow simulator and run workflow application redesign the code with some optimization algorithm like ACO,PSO.</p>	CO 4