



K. S. INSTITUTE OF TECHNOLOGY

(An Autonomous Institution Under VTU)

Department of Computer Science & Engineering

Academic Year 2025-26

Skill Development Activity

Course Code: BCS601

Section: C

Subject Title: Cloud Computing

SEM: VI

1. Activity Description:

As part of this skill development activity, each team must actively work on understanding and applying virtualization concepts by exploring the assigned tool, performing the required setup, and gaining hands-on experience through execution. The focus should be on developing practical skills, achieving a clear understanding of concepts, and recognizing their real-world relevance.

- A live demonstration is mandatory for evaluation, and each team must be fully prepared to perform the demo in real time, clearly explain their work during the presentation, and submit the report on the day of the presentation.

2. Task:

Each team must:

- a) Install any virtualization software (VMware / VirtualBox)
- b) Create a Virtual Machine
- c) Install an Operating System (preferably Ubuntu, Fedora Linux)
- d) Install, run, and show output of an application inside the VM

3. Application Requirement (IMPORTANT):

Team must demonstrate a working application with visible output.

- **ACCEPTABLE options** (choose anyone):
 - a) Install Apache/Nginx → create a simple HTML page → open in browser.
 - b) Run a Python Flask app → access output in browser (127.0.0.1:5000).

c) Install MySQL → create table → execute queries and show output.

(The above options are not limited; teams may choose and execute any similar application)

4. Presentation: Team must demonstrate LIVE

- a) Virtualization software installed
- b) VM created and listed
- c) VM configuration (RAM, CPU, storage)
- d) Live OS booting
- e) Terminal usage inside VM
- f) Application running with output (**mandatory**)
