Department of Computer Science and Business Systems

Academic Year 2024 – 2025 (Even Semester)

Degree, Semester & Branch: B.Tech. VI & CSBE

Course Code & Title: CCS372 & Virtualization

Name of the Faculty member (s): Mrs.M.Jeya Sundari, AP/CSBE

Innovative Practice Description

- **Unit / Topic: Unit V / VMWARE**
- **Course Outcome:** CO5
- **Topic Learning Outcome:** TLO5
- **Activity Chosen: Learining by Teaching**
- **Justification:**

The "Learning My Teaching" approach encourages continuous reflection and adaptation of teaching methods based on student feedback and learning progress, which helps in effectively conveying complex VMware concepts and improving student engagement and understanding in virtualization technology. By actively assessing what works best during lessons, I can tailor explanations, demonstrations, and hands-on activities to meet diverse learning needs. This iterative process not only enhances the clarity of VMware topics but also fosters a more interactive and student-centered learning environment. Ultimately, this practice leads to better retention of knowledge and practical skills essential for mastering virtualization tools.

Time Allotted for the Activity: 45 Minutes

- **Details of the Implementation:**
  - Divide the class into small groups and assign each group a sub-topic from VMware (e.g., installation, snapshot, virtual machine management).
  - Ask each group to prepare and present the topic to the class using simple explanations, demonstrations, or slides.
  - Encourage peer questions and feedback after each presentation to promote active participation and deeper understanding.
- **CO – PO / PSO mapping:**

CO	PO1	PO2	PO9	PO10	PO12	PSO1	PSO2
CO1	3	3	2	1	1	2	3

(1 – Low 2 – Moderate 3 – High)

- **PO / PSO mapped:**

Innovative practice	**PO1**	**PO2**	**PO9**	**PO10**	**PO12**	**PSO1**	**PSO2**
	3	**3**	**1**	**1**	**1**	**3**	**1**
Justification for correlation	Students apply virtualization concepts to prepare and teach VMware topics.	They analyze VMware tools and features to simplify and explain to peers.	Group work and peer teaching enhance teamwork and collaborative skills.	Improves students' verbal and presentation skills while explaining technical content.	Encourages independent learning and teaching, fostering self-motivated learning habits.	Strengthens understanding of VMware operations and tools through hands-on explanation.	Enhances ability to convey complex virtualization processes clearly and effectively.

- **Images / Screenshot of the practice:**

Reflective Critique:

- ❖ ***Feedback of practice from students and other stakeholders:***
  - The students understood VMware topics better by preparing and teaching them to others.
  - This activity improved the student confidence and communication skills.
- ❖ ***Benefit of the practice:*** (E.g.: Outcome attainment would have increased due to innovative practice over conventional practice)
  - The practice helped students gain deeper understanding of VMware concepts, improved their presentation skills, and boosted their confidence through peer teaching.
- ❖ ***Challenges faced in implementation:***
  - Some students felt nervous or unprepared to teach in front of their peer
  - Extra time was needed to guide students in preparing accurate and clear content.

- **References:**
  - https://www.youtube.com/learning by teaching?v=ilILdQuer0E
  - https://www.ritrjpm.ac.in/images/computer-science/2023-2024/IP/Unit_2_Learning_by_Teaching_CCS339.pdf

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