JERUSALEM COLLEGE OF ENGINEERING
AN AUTONOMOUS INSTITUTION
Approved by AICTE, New Delhi, Affiliated to Anna University Chennai,
Accredited by NBA, New Delhi and Accredited by NAAC with "A" Grade
Valachery Main Road, Narayanapuram, Pallikaranai, Chennai, Tamil Nadu - 600100.

DEPARTMENT OF INFORMATION TECHNOLOGY

Academic Year 2023-2024 Odd Semester

Degree, Semester& Branch: V Semester B.TECH Information Technology

Course Code& Title: JCS1502 Object Oriented Analysis and Design

Name of the Faculty member (s): Ms. Ms.K.Pushpavalli ,AP/IT

Innovative Practice Description

- **Unit /Topic:** Unit 2/ Aggregation and Composition
- **Course Outcome:** CO2
- **Topic LearningOutcome:**TLO5
- **Activity Chosen:** Flipped Classroom
- **Justification:**
    o A flipped classroom is a type of collaborative learning where students might watch videos took the notes according to their understanding level at home and then do the task provided in classroom with gained knowledge. This improves the habit of self learning among the students.
    o Aggregation and composition is a type of association in domain model refinement.
    o The students can refer many examples related to Aggregation and Composition and they can share their knowledge with their friends through this activity.
- **Time Allotted for the Activity:** 5Minutes
- **Details of the Implementation:**
    o Learning materials such as website URL and Images were shared to the students.
    o The students were asked prepare for the mentioned concepts.
    o On the day of activity, a team of 4 members were asked to find the aggregation and composition between two conceptual classes as shown in Fig 1.
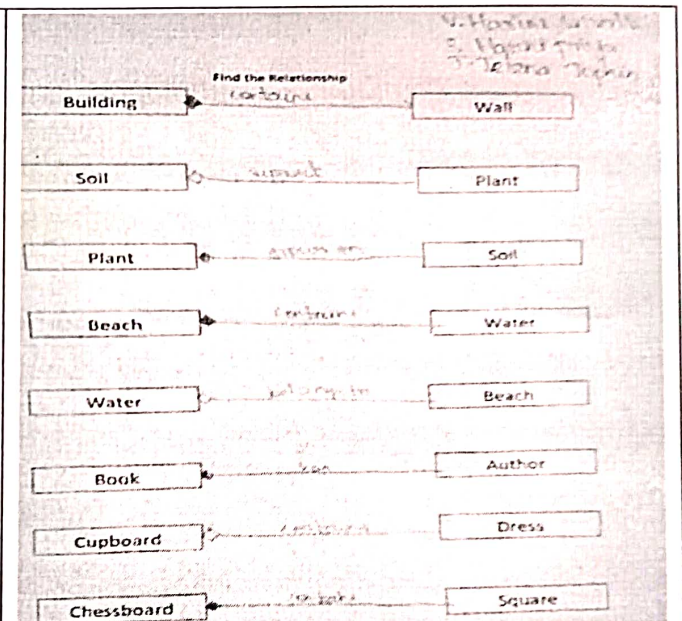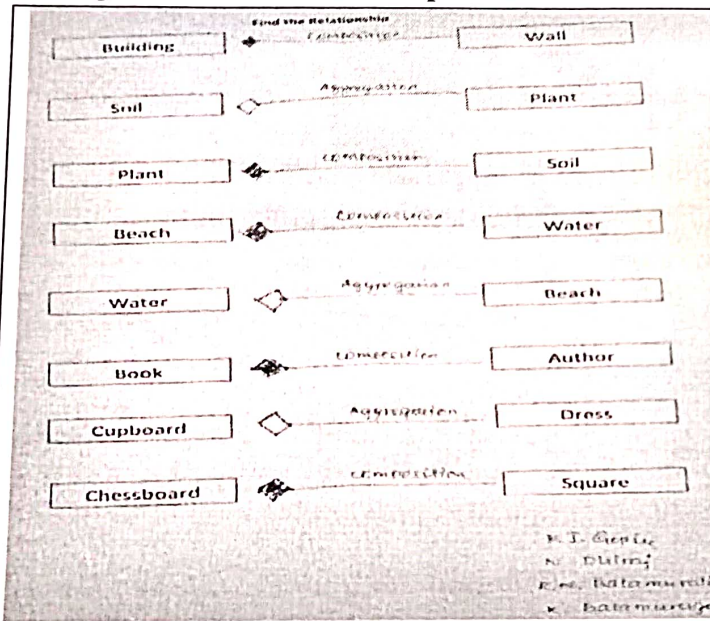- **CO –PO/PSO mapping:**

CO	PO1	PO2	PO10	PSO1
CO1	2	1	1	1

(1–Low   2–Moderate   3–High)

- **PO / PSO mapped:**

Innovative practice	PO1	PO2	PO10	PSO1
Justification for correlation	Students will be able to determine the	Students will be able to understand the	Students communication skill through	The remembering earned
	association between conceptual classes which help to develop an application	problem and choose appropriate association (Either aggregation or composition)	diagrams will be improved as they are determining the aggregation and composition rather than just identifying association	through this activity helps the students in solving problems

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

Fig1:Samples of Flipped Class Room activity

- **Reflective Critique:**
    - ❖ *Feedback of practice from students and other stakeholders:*
        - o Students said that they had a clear understanding about the concept after the activity
        - o They said it would be useful to recollect the concept in short time
        - o They felt com for table to ask doubts with their peers.

    - ❖ *Benefit of the practice:*
        - o Flipped Classroom activity helps the students to remember the concepts of aggregation and composition easily
        - o The students sharing their gained knowledge with their friends help them to gain more understanding about the concepts
        - o This activity helps them to prepare easily during exam
        - o Understanding and remembering of the topic help the students to design any application
    - ❖ *Challenges faced in implementation:*
        - o Students who doesn't have a better understanding about all the concepts found it difficult

References:

- o https://en.wikipedia.org/wiki/Flipped_classroom
- o https://omerad.msu.edu/teaching/teaching-skills-strategies/27-teaching/162-what-why-and-how-to-implement-a-flipped-classroom-model
- o https://educationaltechnologyjournal.springeropen.com/articles/10.1186/s41239-016-0032-z

HOD

Signature of Faculty Member

Dr. K. SUNDARAMOORTHY
Professor & HOD
Department of Information Technology
Jerusalem College of Engineering (Autonomous)
Pallikkaranai, Chennai-600 100.