PET ENGINEERING COLLEGE

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Department of Computer Science and Engineering

Academic Year 2022– 2023 (odd Semester)
Degree, Semester & Branch: B.E, III, CSE
DATE: 08/03/2022
Course Code & Title: EC8691 Microprocessor and Microcontroller
Name of the Faculty Member: Mrs. Sujitha S

Innovative Practice Description

- **Unit / Topic: Unit III / Case studies - LCD Display, Keyboard Display Interface and Alarm Controller**
- **Course Outcome:** CO3
- **Activity Chosen: Flipped Classroom**
- **Justification:**

  A flipped classroom is a type of blended learning where students are introduced to content at home and practice working through it at class room. Here, case studies of LCD Display, Keyboard Display Interface and Alarm Controller were given to three different student groups. In that, different interfacing components with 8086 microprocessor can be learned as a group. In a group, students are worked in collaborative manner and present their case study in front of other groups.

- **Time Allotted for the Activity:** One Period (50 Minutes)

- **Details of the Implementation:**
  At first the students are divided into groups of 13 or 14 members (3 Groups).Discussed the Flipped Classroom activity to the students. Asked the preparedness of each group about the case studies

CO – PO / PSO mapping:

CO	PO1	PO2	PO3	PO4	PO5	PSO1
CO3	2	3	3	1	1	2

- **Reflective Critique:**
  - **Feedback of practice from students and other stakeholders:**
    The reaction from the students regarding this activity was excellent. They believed that by engaging in this activity, they would be able to explore this idea more thoroughly.
  - **Benefit of the practice:**
    - They learned a few things separately that led to self-learning. Learning at home naturally becomes student-centric rather than teacher-centric.
    - They participated actively in this meeting rather than having a one-way conversation.

PO / PSO mapped:

Innovative practice	PO9	PSO2
	2	2
Justification for correlation	It helps the students to present results asa team, with smooth integration of contributions from all individual efforts. So, it is mapped at level 2	It helps the students to identify and interface the suitable Peripheral components for real applications.

❖ **Challenges faced in implementation:**

- The fundamental issue is that few pupils have been exposed to flipped classrooms. Students who struggle with self-discipline may show up for class without having fully comprehended the material. To encourage all children to participate, I began by praising others, taking turns for equitable participation, and allowing students tomake decisions together.