Proposed CO-PO of CSE 400

Table 1: COs-POs along with Semester applied and Marks distribution

COs	Description	PO	Assessment	Marks	Semester
CO1	Identify a real-life problem that can be translated to an engineering and/or computing solution through design, development and validation	(l) Life-long learning	Report	30	4_1
CO2	Identify outcomes and functional requirements of the proposed solution considering software and/or hardware specification and standards	(b) Problem analysis(c) Design/development	Report	10	4_1
CO3	Identify sub components of a complex problem, prepare timeline and appropriate budget using the project management skill	(k) Project management and finance	Report	10	4_1
CO4	Identify and validate the impact of environmental considerations and the sustainability of a	(g) Environment and sustainability	Report	5	4_1
	system/subsystem of a complete project			5	4_2
CO5	Assess professional, ethical, and social	(f) The engineer and society (h) Ethics	Report	5	4_1
	impacts and responsibilities of the design project			5	4_2
CO6	Function effectively in a multi disciplinary team	(i) Individual work and teamwork	Reflective Journal / Version Control	20	4_1
				20	4_2
CO7	Analyze, design, build, and evaluate engineering/computing system/subsystem with given specifications and requirements	(c) Design/development (d) Investigation (e) Modern tool usage	Project Demo	40	4_2

CO8	Present design project results through written technical documents and	(j)Communication	Report, Presentation	20	4_1
	oral presentations			30	4_2

Remarks:

- 1) COs covered in 4th year 1st semester: CO1 CO6, CO8. Total marks: 100 (for marks distribution please see table 1)
- 2) COs covered in 4th year 2nd semester: CO4 CO8. Total marks: 100 (for marks distribution please see table 1)
- 3) Every group must achieve each and every COs as per UAP guideline for OBE system.
- 4) However, each may have different P's and A's of Complex Engineering Problem
- 5) Supervisors should help students to fulfill requirement of Complex Engineering Problems

Recommendations

- 1) Final Mark = 0.3 * (4-1) + 0.7 * (4-2) = 100
- 2) Department should assign one external evaluator/guide per Group in addition to the supervisor, from 4th year 1st semester. External guide will be responsible for ensuring quality of the project as per OBE guideline of Complex Engineering problem and crosscheck the deliverables of the project.
- 3) Every group should submit the mapping of CO_PO and P's and A's (an example of such mapping is attached) along with the report of CO1.
- 4) Department should set rubrics for the assessment of COs (examples are attached)