

College: **Engineering** Department: **Civil and Environmental Engineering** Program: **Civil Engineering**

Code
MUP11

Assessment methods used to measure Student Learning Outcomes

Code
MUP11

SLO (Code)	Assessment Methods
a	Midterm and final examinations - Assignments, quizzes, and group discussions.
b	Lab exams during and at the end of some courses.
c	Mini projects, exams of Design courses and senior design.
d	Evaluation of student ability to function in a team work during Senior Design and in some acquired data collection for experimental work.
e	Reports and assignments in some courses- Mini and major projects.
f	Assign some few marks for student's obligation, attendance of classes in regular bases, being respectful and collaborative with his colleges and teachers.
g	In relevant courses, some marks are reserved for write technical reports and deliver oral presentations. In other courses such as Senior Design, marks assigned to Group discussions, panel discussions, and his communication skills.
h	Encouraging students to participate in workshops, painting competitions, poster presentation and give them bonus marks for doing this.
i	Assignments and reports from different sources and journals. Revise, correct, instruct students how to prepare and present a certain topic by himself. (Part of the 60 marks during the course).
j	Exams in some courses and discussion in the senior design project.
k	Student evaluation in Senior Design 1 and Senior Design 2 - Reports received upon student engineering practice with a company during summer.

Student Learning Outcomes

a	An ability to apply Knowledge of mathematics, science and engineering
b	An ability to design and conduct experiments, analyze and interpret data
c	An ability to design a system, component or process to meet desired needs within realistic constraints
d	The ability to function on multidisciplinary teams
e	An ability to identify, formulate, and solve engineering problems
f	An understanding of professional and ethical responsibility
g	An ability to communicate effectively
h	The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental and societal context
i	A recognition of the need for and an ability to engage in lifelong learning
j	A knowledge of contemporary issues
k	Ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

CE program is using ABET criteria