

Revised Short KPI

SLO # (a)	An ability to apply knowledge of mathematics, science, and engineering
KPI (1)	Apply mathematical and scientific principles to formulate models and systems relevant to civil engineering
KPI (2)	solve engineering problems by using the concepts of integral and differential calculus and/or linear algebra
KPI (3)	Translates academic theory into engineering applications
KPI (4)	Executes calculations correctly
SLO # (b)	An ability to design and conduct experiments, as well as to analyze and interpret data
KPI (5)	Experimental plan of data gathering
KPI (6)	Data documentation
KPI (7)	Selection of appropriate equipment and instruments to perform the experiment
KPI (8)	The analysis and interpretations of data using appropriate theory
SLO # (c)	An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
KPI (9)	Developing a design strategy
KPI (10)	Using computer engineering tools
KPI (11)	Developing a solution that includes realistic constraints
KPI (12)	Applying engineering and/or scientific principles correctly to design practical processes

SLO # (d)	An ability to function on multidisciplinary teams
KPI (13)	Team Participation (<i>Cooperation</i>)
KPI (14)	Sharing information and providing Assistant
KPI (15)	Role in a group
KPI (16)	Encouraging participation among all team members
SLO # (e)	Ability to identify, formulate, and solve engineering problems
KPI (17)	Practical problem solving using theoretical concepts
KPI (18)	Predict and defend problem outcomes
KPI (19)	The uses of appropriate resources needed to solve problems
KPI (20)	Strategies for solving problems
SLO # (f)	An understanding of professional and ethical responsibility
KPI (21)	In class discussions and exercises on ethics and professionalism
KPI (22)	Ethical behavior among peers and faculty
KPI (23)	Personal responsibility for his/her actions
KPI (24)	Punctual, professional, and collegial
SLO # (g)	An ability to communicate effectively
KPI (25)	The organization of the written materials
KPI (26)	The Use of graphs, tables, and diagrams
KPI (27)	Grammar and spelling
KPI (28)	Oral presentation delivery
SLO # (h)	The broad education necessary to understand the impact of

	engineering solutions in a global, economic, environmental, and societal context
KPI (29)	Awareness of current trends and events
KPI (30)	Historical aspects of civil engineering solutions
KPI (31)	Technical periodicals
KPI (32)	Personal Perspective in civil engineering
SLO # (i)	A recognition of the need for, and an ability to engage in life-long learning
KPI (33)	Assignment completion
KPI (34)	Continuous improvement
KPI (35)	Capability to think for one's self
KPI (36)	Participation in professional and technical societies
SLO # (j)	A knowledge of contemporary issues
KPI (37)	Knowledge of current events in the civil engineering discipline
KPI (38)	Current job market
KPI (39)	Ability to discuss major political issues at national, state and local levels
SLO # (k)	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
KPI (40)	Lab procedure
KPI (41)	Experimental plan of data gathering
KPI (42)	Relate data to theory
KPI (43)	Measurement awareness of errors