

Table V. Program outcomes assessment and evaluation plan.

Program Outcome	Assessment & Evaluation Methods	Performance Criteria	Logistics
<i>(a) an ability to apply knowledge of mathematics, science, and engineering</i>	<ul style="list-style-type: none"> • Math 101, Math 102, Math 201, Math 260, Phys 101. Phys 102, Chem 101 • COE Exit Exam • Samples of COE 400, COE 485 and COE 351 reports • Graduate Exit Survey • Coop Employer Survey 	<ul style="list-style-type: none"> • Average GPA ≥ 2.5 out of 4 • A score $\geq 60\%$ • A score ≥ 2.5 out of 4 • A score ≥ 3 out of 5 • A score ≥ 3 out of 5 	Assessment based on grades of Math, Phys, and Chem. Courses will be conducted yearly. Other assessment methods will be conducted every semester.
<i>(b) an ability to design and conduct experiments, as well as to analyze and interpret data</i>	<ul style="list-style-type: none"> • Samples of COE 400, COE 344 and COE 305 lab reports • Graduate Exit Survey • Coop Employer Survey 	<ul style="list-style-type: none"> • A score ≥ 2.5 out of 4 • A score ≥ 3 out of 5 • A score ≥ 3 out of 5 	Assessments will be conducted every semester.
<i>(c) an ability to design a system, component, or process to meet desired needs</i>	<ul style="list-style-type: none"> • Samples of COE 400, COE 485 and COE 351 reports • COE Exit Exam • Graduate Exit Survey • Coop Employer Survey 	<ul style="list-style-type: none"> • A score ≥ 2.5 out of 4 • A score $\geq 60\%$ • A score ≥ 3 out of 5 • A score ≥ 3 out of 5 	Assessments will be conducted every semester.
<i>(d) an ability to function on multi-disciplinary teams</i>	<ul style="list-style-type: none"> • Samples of COE 400, COE 485 and COE 351 reports • Peer & instructor evaluations in COE 400 • Graduate Exit Survey • Coop Employer Survey 	<ul style="list-style-type: none"> • A score ≥ 2.5 out of 4 • A score ≥ 2.5 out of 4 • A score ≥ 3 out of 5 • A score ≥ 3 out of 5 	Assessments will be conducted every semester.
<i>(e) an ability to identify,</i>	<ul style="list-style-type: none"> • Samples of COE 	<ul style="list-style-type: none"> • A score ≥ 2.5 out of 4 	Assessments will be

<i>formulate, and solve engineering problems</i>	<ul style="list-style-type: none"> 400, COE 485 and COE 351 reports Graduate Exit Survey Coop Employer Survey 	<ul style="list-style-type: none"> A score ≥ 3 out of 5 A score ≥ 3 out of 5 	conducted every semester.
<i>(f) an understanding of professional and ethical responsibility</i>	<ul style="list-style-type: none"> Students GPA in IAS 211 COE 390 Indirect Assessment Graduate Exit Survey Coop and Summer Training Employer Survey 	<ul style="list-style-type: none"> Average GPA ≥ 2.5 out of 4 A score ≥ 2.5 out of 4 A score ≥ 3 out of 5 A score ≥ 3 out of 5 	Assessments will be conducted every semester.
<i>(g) an ability to communicate effectively</i>	<ul style="list-style-type: none"> Samples of COE 400, COE 485, COE 399 and COE 351 reports Sample COE 485 and COE 351 presentations Graduate Exit Survey Coop and summer training Employer survey 	<ul style="list-style-type: none"> A score ≥ 2.5 out of 4 A score ≥ 2.5 out of 4 A score ≥ 3 out of 5 A score ≥ 3 out of 5 	Assessments will be conducted every semester except for COE 399 which will be assessed in a yearly basis.
<i>(h) the broad education necessary to understand the impact of engineering solutions in a global and societal context</i>	<ul style="list-style-type: none"> Samples of COE 400, COE 485 and COE 351 reports Graduate Exit Survey Coop Employer Survey 	<ul style="list-style-type: none"> A score ≥ 2.5 out of 4 A score ≥ 3 out of 5 A score ≥ 3 out of 5 	Assessments will be conducted every semester.
<i>(i) a recognition of the need for, and an ability to engage in life-long learning</i>	<ul style="list-style-type: none"> Samples of COE 400, COE 485 and COE 351 reports Graduate Exit Survey Coop Employer Survey 	<ul style="list-style-type: none"> A score ≥ 2.5 out of 4 A score ≥ 3 out of 5 A score ≥ 3 out of 5 	Assessments will be conducted every semester.
<i>(j) knowledge of contemporary issues</i>	<ul style="list-style-type: none"> Samples of COE 400, COE 485 and COE 351 reports Graduate Exit Survey Coop Employer 	<ul style="list-style-type: none"> A score ≥ 2.5 out of 4 A score ≥ 3 out of 5 A score ≥ 3 out of 5 	Assessments will be conducted every semester.

	Survey		
<i>(k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.</i>	<ul style="list-style-type: none"> • Samples of COE 400, COE 485 and COE 351 reports • Graduate Exit Survey • Coop Employer Survey 	<ul style="list-style-type: none"> • A score ≥ 2.5 out of 4 • A score ≥ 3 out of 5 • A score ≥ 3 out of 5 	Assessments will be conducted every semester.
<i>(l) Knowledge of Probability and Statistics and their applications in Computer Engineering</i>	<ul style="list-style-type: none"> • STAT319 • Graduate Exit Survey • Coop Employer Survey 	<ul style="list-style-type: none"> • Average GPA ≥ 2.5 out of 4 • A score ≥ 3 out of 5 • A score ≥ 3 out of 5 	Assessment will be made every semester except for STAT319 which will be assessed in a yearly basis.
<i>(m) Knowledge of Discrete Mathematics</i>	<ul style="list-style-type: none"> • ICS 251 • Graduate Exit Survey • Coop Employer Survey 	<ul style="list-style-type: none"> • Average GPA ≥ 2.5 out of 4 • A score ≥ 3 out of 5 • A score ≥ 3 out of 5 	Assessment will be made every semester except for ICS251 which will be assessed in a yearly basis.
<i>(n) The ability to design a system that involves the integration of hardware and software components</i>	<ul style="list-style-type: none"> • Samples of COE 400, COE 485 and COE 351 reports • Graduate Exit Survey • Coop Employer Survey 	<ul style="list-style-type: none"> • A score ≥ 2.5 out of 4 • A score ≥ 3 out of 5 • A score ≥ 3 out of 5 	Assessments will be conducted every semester.