SUMMARY OF ASSESSMENT METHODS OF PROGRAM OUTCOMES

OUTCOME	ACTION/ STRATEGY	ASSESS. METHODS	WHEN	HOW / CRITERION	WHO
1. comprehend concepts of mathematics and basic sciences	• Associated courses (as shown in Form D) • Exit survey	• Letter grade • Survey	• Every year at freshman level • Every year at graduation	• Percentage of students above DC • Online / Average scores	• Instructor • Dept. Head
2. be able to apply concepts of engineering	• Associated courses (as shown in Form D) • Special Course Reports on IE 491, IE 492 and IE 499 • Exit survey	• Exam/Assignment grades • Report • Survey	• Every year • Every year at senior level • Every year at graduation	• In class / average score in the related part of the assessment rubric • Coordinators' overall assessment on project outcomes • Online / Average scores	• Instructor • Course coordinator • Dept. Head
3. be able to design and conduct experiments	• Associated courses (as shown in Form D) • Exit survey	• Exam/Assignment grades • Survey	• Every year • Every year at graduation	• In class / average score in the related part of the assessment rubric • Online / Average scores	• Instructor • Dept. Head
4. be able to analyze and interpret data	• Associated courses (as shown in Form D) • Exit survey	• Exam/Assignment grades • Survey	• Every year • Every year at graduation	• In class / average score in the related part of the assessment rubric • Online / Average scores	• Instructor • Dept. Head

5. be able to design and/or improve a system, component, or process effectively by applying notions of optimality to meet desired needs	• Associated courses (as shown in Form D) • Capstone project industrial advisors survey • Exit survey	• Exam/Assignment grades • Survey • Survey	• Every year • Every year at senior level • Every year at graduation	• In class / average score in the related part of the assessment rubric • Online / Feedback • Online / Average scores	• Instructor • IE491, IE492 coordinators • Dept. Head
6. function in interdisciplinary teams through good working habits, time management, and self-discipline	• Special Reports on IE491, IE492, and IE499 • Workshop • Peer Evaluation • Summer training company advisors survey • Exit Survey	• Observation • Participation • Survey • Survey • Survey	• Every year at senior level • Every year at sophomore level • Every year at senior level • Every year at senior level • Every year at graduation	• Coordinators' assessment of ability to function in teams and exhibit required skills • Successful completion • Perception level • Online / Feedback • Online / Average scores	• IE491, IE492, IE499 coordinators • Dept. Head • IE491, IE492 coordinators • IE 499 coordinators • Dept. Head
7. Be able to identify, formulate, and solve engineering problems and design alternatives	• Associated courses (as shown in Form D) • Capstone project industrial advisors survey • Exit Survey	• Exam/Assignment grades • Survey • Survey	• Every year • Every year • Every year at graduation	• In class / average score in the related part of the assessment rubric • Online / Feedback • Online / Average scores	• Instructor • IE491, IE492 coordinators • Dept. Head

Outcome					
8. Demonstrate professional and ethical responsibility	• Seminars • Workshops • Summer training company advisors survey • Capstone project industrial advisors survey • Exit Survey	• Attendance • Participation • Survey • Survey • Survey	• Every year at senior level • Every year at sophomore level • Every year at junior and senior level • Every year • Every year at graduation	• Exposure • Successful completion • Online / Feedback • Online / Feedback • Online / Average scores	• IE491, 492 coordinators • Dept. Head • IE399, 499 coordinators • IE491, IE492 coordinators • Dept. Head
9. Use an advanced level of English in interpersonal communication and self-development	• External Exam • Associated courses (as shown in Form D) • Focus group	• EPE or Equivalent score • Letter Grade • Discussion	• Every year before starting freshman • Every year • Every year at graduation	• Percentage of students above 70% • Percentage of students above DC • In class / Constructed scale	• English Language School • Instructor • Dept. Head
10. Demonstrate effective communication skills	• Associated courses (as shown in Form D) • Capstone project industrial advisors survey • Exit Survey	• Effectiveness of oral presentation and reports • Survey • Survey	• Every year • Every year • Every year at graduation	• In class / average score in the related part of the assessment rubric • Online / Feedback • Online / Average scores	• Instructor • IE491, IE492 coordinators • Dept. Head
11. Be able to express a creative thought on and critical assessment of events and ideas to shape their professional practice in a global/societal context	• Associated courses (as shown in Form D) • Exit Survey	• Exam/Assignment grades • Survey	• Every year • Every year at graduation	• In class / average score in the related part of the assessment rubric • Online / Average scores	• Instructor • Dept. Head

12. Recognize the need for, and have an ability to engage in life-long learning	• Associated courses (as shown in Form D)	• Exam/Assignment grades	• Every year	• In class / average score in the related part of the assessment rubric	• Instructor
	• Capstone project industrial advisors survey	• Survey	• Every year	• Online / Feedback	• IE491, IE492 coordinators
	• Exit Survey	• Survey	• Every year at graduation	• Online / Average scores	• Dept. Head
13. Be able to comprehend contemporary issues	• Associated courses (as shown in Form D)	• Exam/Assignment grades	• Every year	• In class / average score in the related part of the assessment rubric	• Instructor
	• Workshop	• Participation	• Every year at senior level	• Successful completion	• Dept. Head
	• Exit Survey	• Survey	• Every year at graduation	• Online / Average scores	• Dept. Head
14. Use the techniques, skills, and modern engineering tools necessary for engineering practice	• Associated courses (as shown in Form D)	• Exam/Assignment grades	• Every year	• In class / average score in the related part of the assessment rubric	• Instructor
	• Capstone project industrial advisors survey	• Survey	• Every year	• Online / Feedback	• IE491, IE492 coordinators
	• Exit Survey	• Survey	• Every year at graduation	• Online / Average scores	• Dept. Head
15. Recognize and appreciate different cultures and respect individual and cultural differences	• Involvement in student clubs, other social groups, and charities	• Observation	• Every year at graduation	• Involvement level	• Dept. Head
	• Summer training company advisors survey	• Survey	• Every year at junior and senior level	• Online / Feedback	• IE 399 and IE 499 coordinators
	• Capstone project industrial advisors survey	• Survey	• Every year	• Online / Feedback	• IE491, IE492 coordinators
	• Exit Survey	• Survey	• Every year at graduation	• Online / Average scores	• Dept. Head

Each outcome should contain **Data Summary & Evaluation** and **Program Improvements** descriptions, as well.