Date:12/10/2021	Program Name: Intelligent Systems and Robotics	CIP Code:				Department:ISR
		Year 1	Year 2	Year 3	Year 4	Year 5
Domain	Program-Level Student Learning Outcome (From ALC or ALP)	2020-2021	2021-2022	2022-2023	2024-2025	2026-2027
Content	Analyze, synthesize, and evaluate concepts and	Data Collection	Reflection on and Use of	Data Collection Measure:		Data Collection
	models for intelligent systems and robotics,	Measure: Research	Findings: Implement	Research Methods Class.		Measure: Research
	including analyses based on relevant mathematics,	Methods Class. Gather		Follow-up assessment		Methods Class. Gather
Content	Construct and complete a dissertation project that			Reflection on and Use of	Data Collection Measure:	
	advances knowledge in a focused area of research		Measure: Dissertation	Findings: Implement	Dissertation defense.	
	related to intelligent systems and robotics.		Defense. Gather baseline	actions for improvement	Follow-up assessment	
	Design and create specific hardware and/or	Data Collection	Reflection on and Use of	Data Collection Measure:		Data Collection
Content	software that demonstrates proof of concept in	Measure: Student paper	Findings: Implement	Student paper and open		Measure: Student paper
	conjunction with coursework and dissertation.	and opens source code	actions for improvement	source code. Follow-up		and opens source code
Communication	Analyze, synthesize and communicate research results in oral and written form.	Data Collection	Reflection on and Use of	Data Collection Measure:		Data Collection
		Measure: Qualifying	Findings: Implement	Qualifying Exam. Follow-		Measure: Qualifying
		Exam (rubric). Gather	actions for improvement	up assessment (impact		Exam (rubric). Gather
Critical Thinking	Identify, describe, and appraise the significance of	Data Collection	Reflection on and Use of	Data Collection Measure:		Data Collection
	unresolved research questions pertaining to	Measure: Literature	Findings: Implement	Literature Review. Follow-		Measure: Literature
	intelligent systems and robotics.	Review (rubric). Gather		up assessment (impact		Review (rubric). Gather
Integrity / Values	Demonstrate and apply salient professional ethics to the implementation of research.		Data Collection	Reflection on and Use of	Data Collection Measure:	
			Measure: Dissertation	Findings: Implement	Dissertation course.	
				actions for improvement	Follow-up assessment	
	Design and conduct team-based research in the		Data Collection	Reflection on and Use of	Data Collection Measure:	
Project Management	field of intelligent systems and robotics, and draw		Measure: Class and	Findings: Implement	Class and Dissertation	
	defensible conclusions from that research.		Dissertation Projects.	actions for improvement	Projects. Follow-up	

Assessment Activity (Examples) Gather baseline data (Revise rubric; gather data) Implement actions for improvement Follow-up assessment (impact data)

Direct Measures: Exam questions Student paper (rubric) Presentation (rubric)

Methods of Assessment

Indirect Measures: Focus group Exit interview Alumni survey

External Direct Measures: Supervisor/Employer feedback External Professional Exam

Revised 30 July 2019