51 SH Curriculum	3 SH	Core Course Cluster (6 SH) (Students Select Two Course)		
Program SLOs	ISC 6529 Research methods in ISR	EEE 6772 Foundations in Intelligent Systems	EEE 6730 Special Topics in Intelligent Systems	EML 6805 Foundations of Robotics
Content				
Analyze, synthesize, and evaluate concepts and models for intelligent systems and robotics, including analyses based on relevant mathematics, statistics, and concepts related to machine learning, knowledge representation, and reasoning.	Introduced	Reinforced	Reinforced	Reinforced
Complete a dissertation project that advances knowledge in a focused area of research related to intelligent systems and robotics				
Create specific hardware and/or software that demonstrates proof of concept in conjunction with course work and dissertation.		Introduced	Introduced	Introduced
Critical Thinking				
Identify and evaluate the significance of unresolved research questions pertaining to intelligent systems and robotics	Introduced	Reinforced	Reinforced	Reinforced
Communication				
Present research results using satisfactory oral and communication skills.	Instroduced			

Integrity / Values				
Demonstrate and apply salient professional ethics to the implementation of research.	**Instroduced**	**Reinforced**	**Reinforced**	**Reinforced**
Project Managemnt				
Design and conduct team-based research in the field of intelligent systems and robotics, and draw defensible conclusions from that research. (Project Management)		**Introduced**	**Introduced**	

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CAP 6XX1-1 Machine Learning for ISR	EML 6805 Foundations in Robotics	CAP 6671 Intelligent Agents	CAP 6579 Advanced Data Mining	EEL 6617 Multivariable Linear Control Systems	EEE 6734 Bipedal Walking Robots
Reinforced	Reinforced	Reinforced	Reinforced	Reinforced	Reinforced
Introduced	Reinforced	Reinforced	Reinforced	Reinforced	Reinforced
Reinforced	Reinforced	Reinforced	Reinforced	Reinforced	Reinforced
	Reinforced	Reinforced	Reinforced	Reinforced	Reinforced

Reinforced					
Introduced	**Reinforced**	**Reinforced**	**Reinforced**	**Reinforced**	**Reinforced**

Creation Date: 12/9/21

Elective Course Cluster 1 (18 SH)
(Students Select Six Courses)

EEL 6692 Wearable Robotics	CAP 6667 Advanced Topics in ISR	ISC 7248 Deep Reinforcement Learning	CAP 7640 Topics in NLP	CAP 5668 Human Agent/ Robot Teamwork	EEE 6772 Foundations IN Intelligent Systems
Reinforced	Reinforced	Reinforced	Reinforced	Reinforced	Reinforced
Reinforced	Reinforced	Reinforced	Reinforced	Reinforced	Reinforced
Reinforced	Reinforced	Reinforced	Reinforced	Reinforced	Reinforced
Reinforced	Reinforced	Reinforced	Reinforced	Reinforced	Reinforced

Reinforced	**Reinforced**	**Reinforced**	**Reinforced**	**Reinforced**	**Reinforced**

			24 SH
CAP 6XX1-1 Machine Learning for ISR	**CAP 6XX1-2 Computer Vision**	**EEE 6XX1-1 Aerial Robotics**	**ISC 8980 Dissertation**
Reinforced	**Reinforced**	**Reinforced**	**Mastery/Assessed**
			Mastery/Assessed
Reinforced	**Reinforced**	**Reinforced**	**Mastery/Assessed**
Reinforced	**Reinforced**	**Reinforced**	**Mastery/Assessed**
Reinforced	**Reinforced**	**Reinforced**	**Mastery/Assessed**

			Mastery/Assessed

Reinforced	**Reinforced**	**Reinforced**	**Mastery/Assessed**