

**SYSC 4907 – Fall 2026/Winter 2027**

Supervisor	Safaa Bedawi
Co-supervisor	
Course section	SYSC 4907
<b>Project ID</b>	
Project title	VisionGuide (closed)
Project description	This project aims to develop an AI-powered navigation and environmental awareness assistant designed for individuals with visual impairments. The proposed system will go beyond reactive question-answering by continuously monitoring the user's surroundings and proactively alerting them to hazards, obstacles, and points of interest — without requiring the user to prompt it. Unlike current systems, the assistant will build and maintain a persistent memory of the user's environment, preferences, and routines over time, enabling increasingly personalized and context-aware guidance the more it is used.
Program(s)	Software, System
Maximum number of students	4
Meeting time with supervisor (optional)	
Do you want the student to contact you before the office assign this project to them ? (Yes/No)	yes