

Course Details:**Module 1: Advances in AI, robotics for high-impact outdoor applications**

Speaker: Dr. Girish Chowdhary, University of Illinois at Urbana Champaign

Date	Topic	Hours
DAY 1	Introduction Refresher, mathematical preliminaries Classical AI: search, path planning with RRT	2
DAY 2	Kalman filters and Bayesian estimation	2
DAY 3	Supervised learning	2
DAY 4	Markov decision processes and reinforcement learning	3
DAY 5	Adaptive control and MPC Applications of AI, Robotics	3
DAY 6	Assignment/ Exam	xx