PMRF-ISSS Teaching Programme

Prime Minister Research Fellowship students' teaching requirement
facilitated by the Institute of Smart Structures and Systems

Module PMRF-ISSS160/IV/2024

Stochastic Control and Communications

## Name of the PMRF student

Aniket Mukherjee

Required background of the students taught

Basic course on probability,
Students of control,
communication and automation
across any discipline

Details of the content of the module

- Expected Utility Functions
- MDP
- LQR & LQG problem
- Kalman filter
- Witsenhausen counterexample
- Communication & decentralized control
- Source & channel coding
- Rate distortion theory
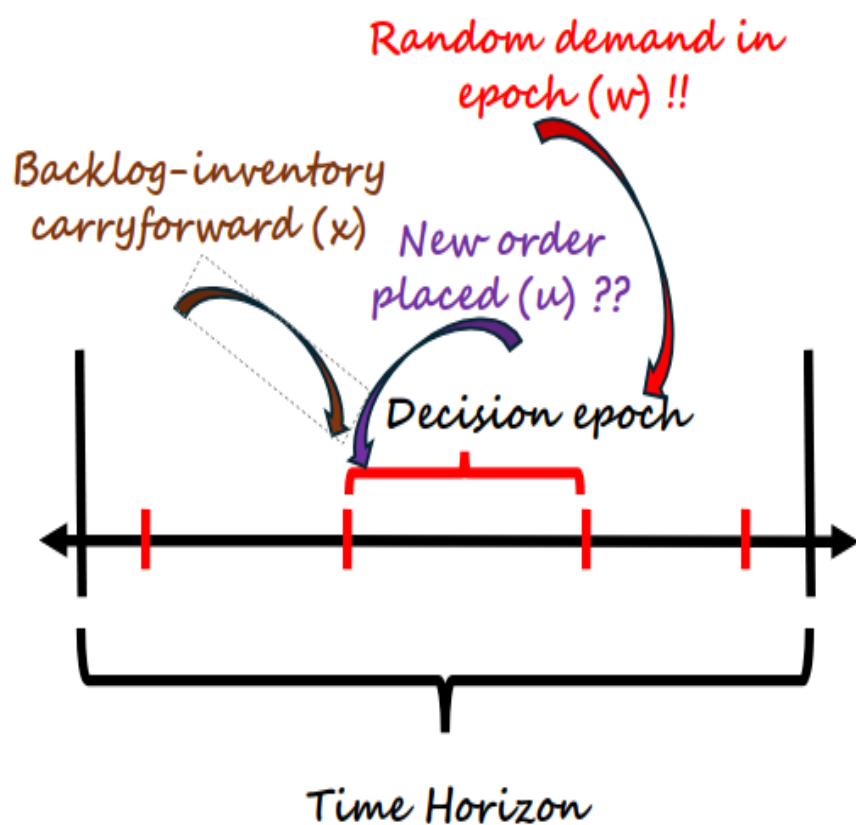
Schedule of the module

Start date: 14th October 2024

Class time: (Tues, Wed, Thurs, Fri) 4.00-5:30pm

Last date: 29th November 2024 (Tentative)

Number of hours: 30

Meeting link : Will be shared later

Contact email ID: isss.forum@gmail.com

Registration link: Click here