



Module PMRF-ISSS026/V/2025

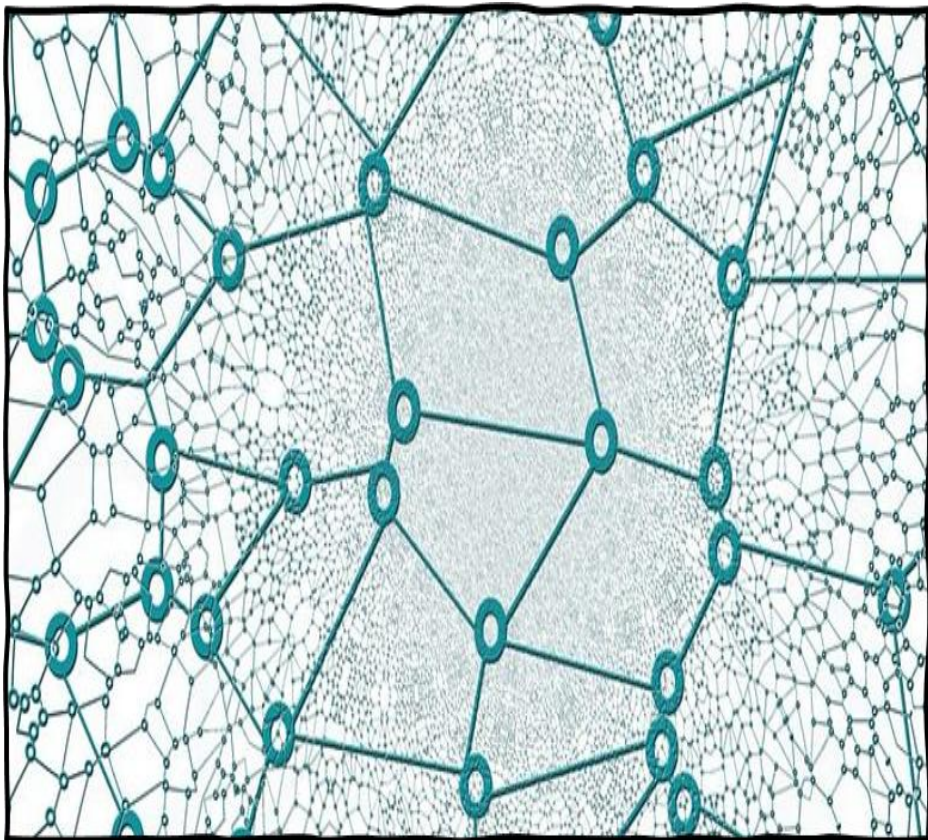
## Communication Networks

### 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

- **Network Architecture and algorithms:**
  1. Internet architecture
  2. Links: statistical multiplexing and queues
  3. Scheduling
  4. Network utility maximization
  5. Network protocols
  6. Peer to peer networks
- **Performance analysis:**
  1. Queuing Theory in continuous time
  2. Asymptotic analysis of queues
  3. Geometric random graph models of wireless networks

### Schedule of the module

Start date: 11th March 2025

Class time: (Tues, Thurs, Sat) 09:30-11:00pm

Last date: 30th May 2025 (Tentative)

Number of hours: 50

Meeting link : [Click Here](#)

Contact email ID: [issforum@gmail.com](mailto:issforum@gmail.com)

Registration link: [Click Here](#)

<https://forms.gle/74TEDU2DbQGDWiCv7>