



Module PMRF-ISSS087/III/2024

Optimal Design of Queueing Systems

Name of the PMRF student

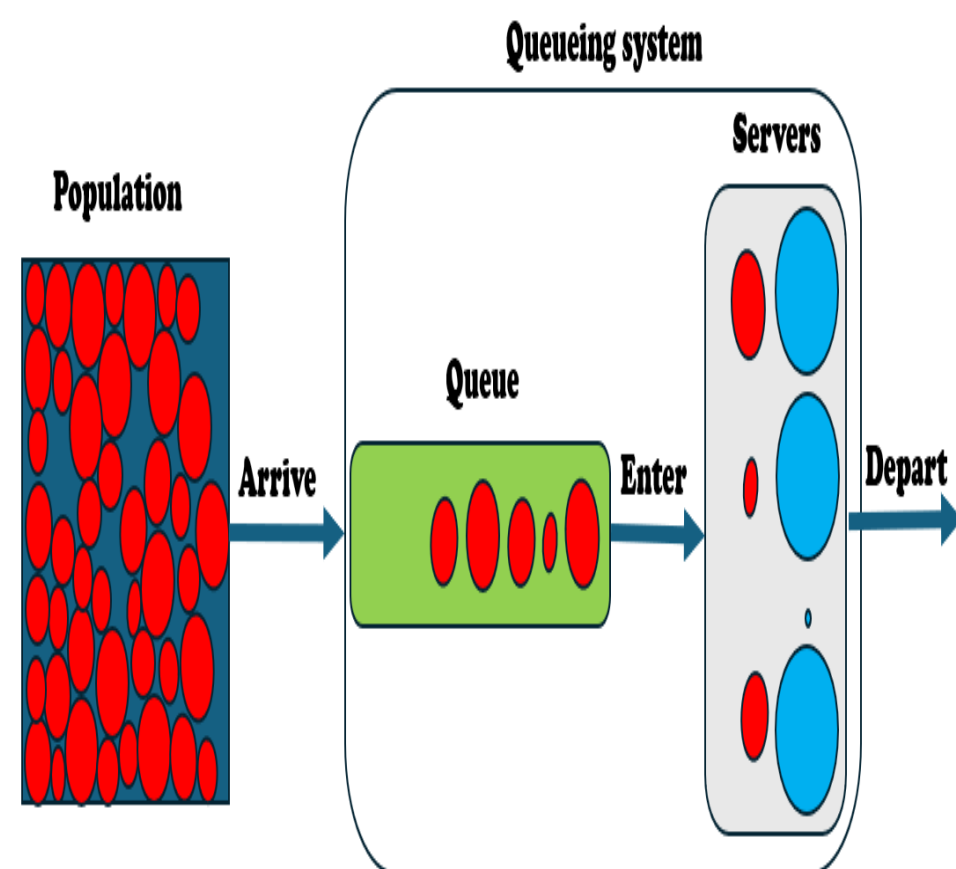
Aniket Mukherjee

Required background of the students taught

Electronics and communication engineering and any field involving queueing theory.

Details of the content of the module

1. Introduction to design models
 - Optimal service rates
 - Optimal arrival rates
2. Optimal arrival rates on single class queue
 - Generalization (GI/GI/1) queue
 - Stability, power criterion
3. Dynamic adaptive algorithms
 - Discrete time (Model, variants)
 - Continuous time (Algorithms, variants)
4. Optimal arrival rates multiclass queue
 - Multiclass (Model, optimal solutions, algorithms)



Schedule of the module

June 11 to June 28,
Tuesday to Friday
(10:00 PM – 11:59 PM)

Meeting link : Will be shared later

Contact email ID: issc.forum@gmail.com

Registration link: [Optimal design of queueing systems](#)

<https://forms.gle/ofCo3k14AUxktCeZA>