



Module PMRF-ISSS126/II/2024

## Modeling and Analysis of Wi-Fi MAC Protocols

### Name of the PMRF student

Arthi S

### Details of the content of the module

### Required background of the students taught

ECE, EE

Anyone who would like to model Wi-Fi  
and analyze its performance

1. Introduction to Wi-Fi
2. MAC layer protocols in Wi-Fi
3. Review of Markov chains
4. Renewal theory
5. Renewal reward theorem
6. Analysis of Wi-Fi contention protocols
7. Throughput and Delay analysis



### Schedule of the module

Start date: August 19, 2024

End date: September 27, 2024

Recorded lectures will be uploaded on Tuesdays  
and Thursdays

Meeting link : Will be shared later

[Link register for the course here](#)

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

Registration link:

