

PMRF-ISSS Teaching Programme

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



Module PMRF- ISSS020/2024

Radar Technologies: From World War II to In-Home Care

Name of the PMRF student

Easha

Required background of the students taught

Individuals possessing a basic grasp of transforms, circuits, and microwave engineering are welcome to enroll in this course. Participation purely for personal interest or as a hobby is also encouraged.

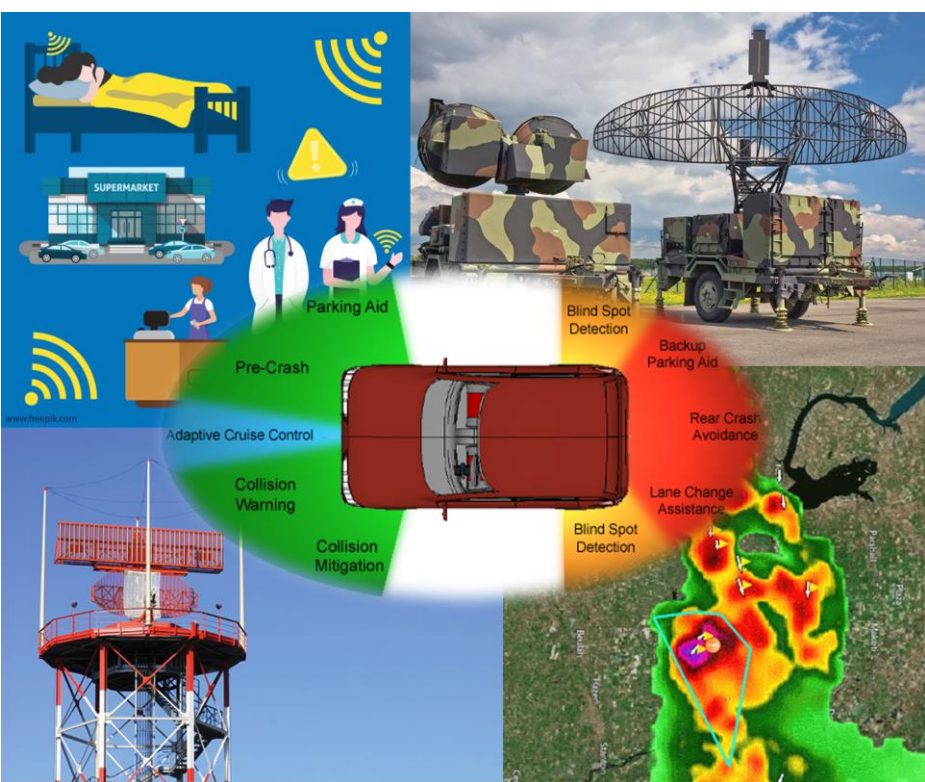
Details of the content of the module

Course Outline

1. Radar applications: Military, Weather, Automotive, Patient Care.
 2. Working principle and Radar range equation
 3. Radar waveforms: Pulsed, Multi-frequency
 4. Subsystems: Transmitter, Receivers, Antennas
 5. Signal and Data Processing
 6. Human Detection With Radar
 7. MATLAB-based system simulations.
 8. Radar Measurements
- Assignments

Link to register:

<https://forms.gle/7yBohYgZ4dRxXJh19>



Schedule of the module

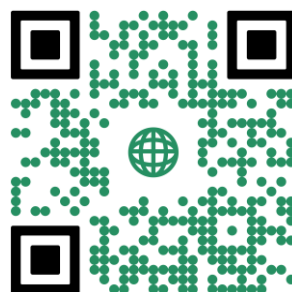
Lecture Schedule – Wed, Friday (6-8 pm)

Number of Lectures: 12

Start Date – Feb 16th, 2024

End Date – May 3rd, 2024 (Tentative)

Course website



Meeting link: Will be shared later

Link

Contact email

ID: issss.forum@gmail.com

Registration link: