PMRF-ISSS Teaching Programme

Prime Minister Research Fellowship students' teaching requirement

facilitated by the Institute of Smart Structures and Systems

Module PMRF-ISSS025/2022

Digital Electronics
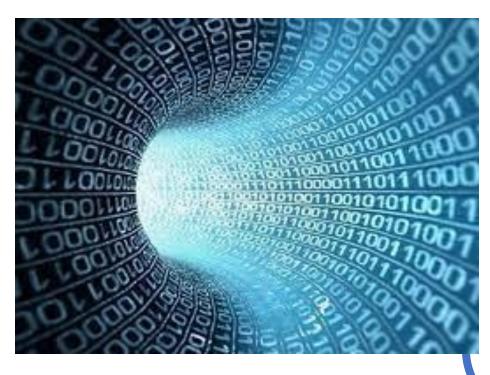
Name of the PMRF student

Suman Raj

Required background of the students taught

Electrical and Electronics Engineering, Electronics and Communication Engineering, Instrumentation and Control Engineering, Computer Science and Engineering, Students from Mechanical Engineering with an interest in robotics/IoT may also register.

Online session coordinator

Will be chosen from the list of registrants

Details of the content of the module

Week 1: Introduction, Number Systems

Week 2: Boolean Algebra

Week 3: Logic Gates

Week 4: Combinational function – K Map

Week 5: Arithmetic Circuits

Week 6: Code converters

Week 7: Multiplexers

Week 8: Encoders and Decoders

Week 9: Sequential Circuits

Week 10: Counters

Week 11: Shift Registers

Week 12: Sample and Hold Circuits

Week 13: ADC, DAC

Week 14: Summary class, Feedback

Note: Content may vary slightly

Lecture (65 min) + Q&A (10min)

Schedule of the module

Course Start Date: 20th August 2022

Course End Date: 19th November 2022 (Tentative)

Total Duration: 14 hours

Weekly Sessions: Saturday

Session Timings: 11 AM – 12:15 PM IST

Meeting link : Will be shared later

Link

Contact email ID: isss.forum@gmail.com

Registration link:
https://forms.gle/Hy8K5zuStPJrLas16