

PMRF-ISSS Teaching Programme

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



Module PMRF-ISSS015/III/2025

Helly-Type Theorems and Applications

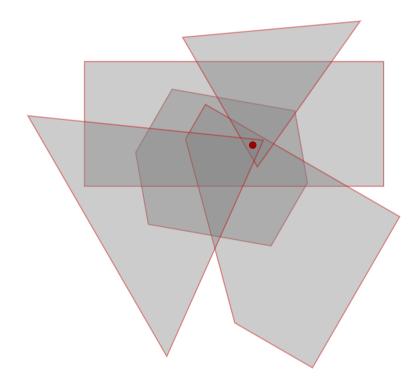
Name of the PMRF student

Rachana Gusain

Required background of the students taught

Computer Science.

Prerequisite: Linear Algebra



Details of the content of the module

Module 1. LP duality, Farkas lemma, Separator Theorem.

Module 2. Convex sets, Radon's Theorem, Helly's Theorem, Fractional Helly Theorem, Applications, Generalization to (p,q) theorem.

Schedule of the module

Starts on 10 February 2025

Ends on 14 April 2025

Class Schedule: Monday, 08:00 to 09:30 am.

Total 10-12 lectures (1.5 hours per lecture)

Meeting link: Will be shared later

Contact email ID: isss.forum@gmail.com

Registration link:

https://forms.gle/jhrXSHbB9Zvoh2S86