



Module PMRF-ISSS120/2024

# Introduction to Combinatorial Designs

## Name of the PMRF student

Krishnan Namboodiri K K

## Details of the content of the module

## Required background of the students taught

No background is assumed.

Students from the background of  
Electrical/Computer Science Engineering or  
Mathematics may find the course useful.

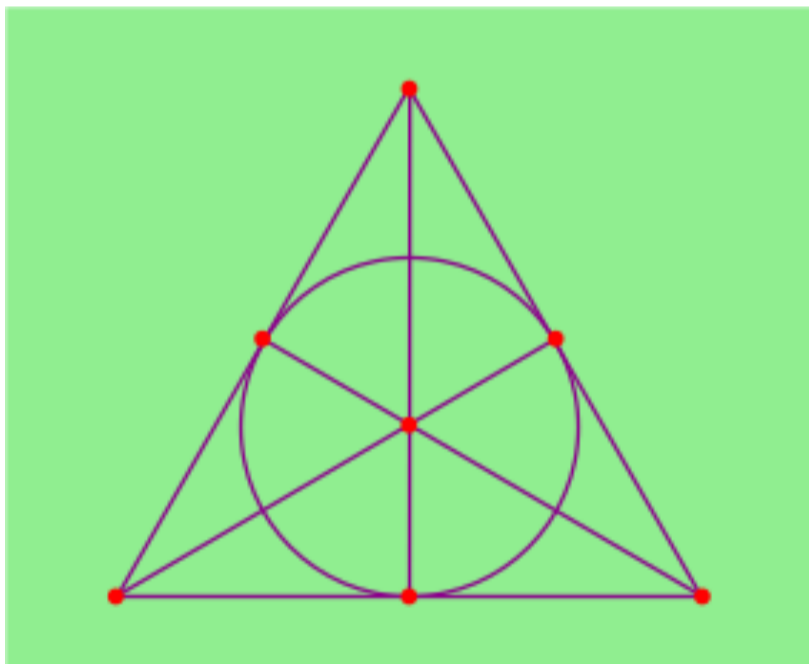
This is an introductory course on combinatorial designs. A brief syllabus is given below:

Module 1: Block designs: BIBDs, Fisher's inequality, Symmetric BIBDs, t-designs.

Module 2: Latin squares, Quasigroups, Triple systems.

Module 3: Hadamard matrices and related designs, Resolvable designs.

Module 4: Orthogonal arrays, Codes, and Applications of combinatorial designs.



## Schedule of the module

Start date: August 10, 2024

End date: August 27, 2024

Class timing: Recorded lectures are uploaded on  
Saturday, Tuesday, and Thursday of every week.

Total lecture hours: 16 hours

Meeting link : Will be shared later

[Link](#)

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

Registration link:

<https://forms.gle/JDoAV39FPy8u4mvU6>