



Module PMRF-ISSS009/III/2026

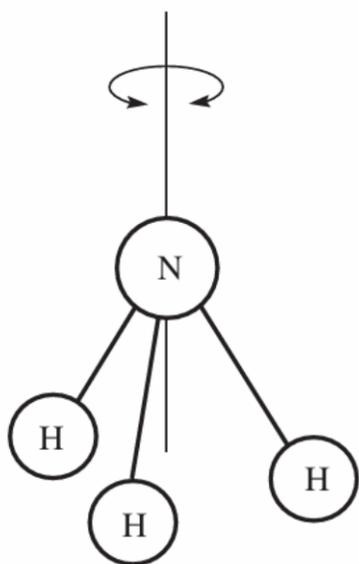
Algebra I: Group Theory

Name of the PMRF student

Sachin Sampath H

Required background of the students taught

Basic Algebra (Pre University Level)
and decent mathematical maturity.



A pyramidal molecule with symmetry group D_3 .

Details of the content of the module

Module 1 : Groups

Module 2 : Subgroups

Module 3 : Group Isomorphisms and Lagrange's
Theorem

Module 4 : Quotient Groups and Isomorphism
Theorems

Module 5 : Symmetric Groups

Module 6 : Alternating Groups and Group
Actions

Module 7 : Counting formula and Cayley's
Theorem

Module 8 : Sylow Theorems.

(Live sessions will be conducted or recorded
lectures/problem solving sessions will be
shared based on the requirements of course
participants. Modules 7 and 8 will only be
covered depending on time constraints.)

Schedule of the module

Start Date: March 16 2026

End Date : April 17 2026

Timings : Monday, Wednesday, Friday; 7pm-
9pm

Meeting link : Will be shared later

[Link](#)

Contact email ID: issf.forum@gmail.com

Registration link:
<https://forms.gle/tEgtEJcXfmGVcG2f8>