

Lesson Plan for The Month Aug 2022 to Dec 2022	Subject: Group and Rings
Name of the Teacher : Dr. Sachin Kumar	Class : BSc 5th Sem
16-08-2022 To 20-08-2022	Definition of a group and examples, Properties of groups
22-08-2022 To 27-08-2022	Subgroups and Subgroup criteria, Generation of groups
29-08-2022 To 03-09-2022	Cyclic groups
05-09-2022 To 10-09-2022	Cosets, Left and right cosets, Index of a sub-group, Coset decomposition
12-09-2022 To 17-09-2022	Largrage's theorem and its consequences methods, Normal subgroups, Quotient groups
19-09-2022 To 24-09-2022	Homoomorphisms, isomophisms, automorphisms of a group
26-09-2022 To 01-10-2022	Inner automorphisms of a group, Automorphisms of cyclic groups
03-10-2022 To 08-10-2022	Permutations groups, Even and odd permutations, Alternating groups
10-10-2022 To 15-10-2022	Cayley's theorem, Center of a group and derived group of a group
16-10-2022 To 21-10-2022	Introduction to rings, subrings, integral domains and fields
22-10-2022 To 30-10-2022	Break
31-10-2022 To 05-11-2022	Characteristics of a ring, Ring homomorphisms, Assignment
07-11-2022 To 12-11-2022	Ideals (principle, prime and Maximal)
14-11-2022 To 19-11-2022	Quotient rings, Field of quotients of an integral domain
21-11-2022 To 26-11-2022	Prime, irreducible, associate, unit elements and examples, Unit-Test

28-11-2022 To 03-12-2022	Euclidean rings, Principle ideal domain, Unique factorization domain
05-12-2022 To 10-12-2022	Polynomial rings, Polynomials over the rational field
12-12-2022 To 17-12-2022	The Eisenstein's criterion, Polynomial rings over commutative rings