Odd Semester Lesson Plan

Subject : Mathematics

Teacher name: Pinki, Paper 2 Semester 5th

October 2020

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| Definition of a group with example and simple properties of groups, Subgroups and Subgroup criteria, Generation of groups, cyclic groups, Cosets, Left and right cosets, Index of a sub-group Coset decomposition, Largrage’s theorem and its consequences, Normal subgroups, Quotient groups, |

November 2020

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| Homoomorphisms, isomophisms, automorphisms and inner automorphisms of a group. Automorphisms of cyclic groups, Permutations groups. Even and odd per mutations. Alternating groups, Cayley’s theorem, Center of a group and derived group of a group. |

December 2020

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| Introduction to rings, subrings, integral domains and fields, Characteristics of a ring. Ring homomorphisms, ideals (principle, prime and Maximal) and Quotient rings, Field of quotients of an integral domain. |

January2021

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| Euclidean rings, Polynomial rings, Polynomials over the rational field, The Eisenstein’s criterion, |

February 2021

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| Euclidean rings, Polynomial rings, Polynomials over the rational field, The Eisenstein’s criterion, |