Curriculum Plan: B.A.(Prog.) Mathematics (Major) (Semester I)- Elements of Discrete Mathematics 2024-25 Odd Sem

| | 202T-20 | ouu som | |
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| Dr. Rajni Kanwar Assistant Professor | | Marks Distribution | Theory - 90 |
| Department of Mathematics | | | Internal Assessment- 30 |
| Kalindi College | | | Tutorial - 40 |
| University of Delhi | | | |
| Delhi- 110008 | | O. | |
| Mobile: 7607401426 | | Classes | Lectures: 1 per week |
| E- mail: rajnikanwar@kalindi.du.ac.in References | 1 Continue Educació | Assigned | had A (2044) Birada Madharatira ith Cook |
| References | 1. Goodaire, Edgar G. & Parmenter, Michael M. (2011). Discrete Mathematics with Graph | | |
| | Theory (3rd ed.). Pearson Education (Singapore) Pvt. Ltd. Indian Reprint. | | |
| | 2. Hunter, David J. (2017). Essentials of Discrete Mathematics (3rd ed.). Jones & Bartlett | | |
| | Learning, LLC | | |
| | 3. Lidl, Rudolf & Pilz, Günter (1998). Applied Abstract Algebra (2nd ed.). Springer. Indian Reprint | | |
| | 2014. | | |
| Week | Topics | | |
| 1 st week | Definition, Examples and properties of posets | | |
| 2 nd week | Questions based on properties of posets | | |
| 3 rd week | Maps between posets | | |
| 4 th week | Algebraic lattice | | |
| 5 th week | Practice of questions based on Algebraic lattice | | |
| 6 th week | Class test | | |
| 7 th week | Lattice as a poset and Duality principle | | |
| 8 th week | Sublattice and Hasse diagrams | | |
| 9 th week | Products and homomorphisms of lattices | | |
| 10 th week | Practice of questions based on Products and homomorphisms of lattices | | |
| 11 th week | Class Test | | |
| 12 th week | Distributive lattice | | |
| 13 th week | Complemented lattice | | |
| 14 th week | Practice of questions based on Distributive lattice and Complemented lattice | | |
| 15 th week | Class Test | | |
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