

DEPARTMENT OF BACHELOR OF COMPUTER APPLICATIONS

LESSON PLAN & WORK DONE DIARY FOR AY: 2025-26, EVEN SEMESTER

| Course with Code: Discrete Mathematical Structure [BBCA203] | | | | Faculty: Ms. Sushmitha B H | | Semester & Section: II Sem | | |
|---|----------------------|-------------------------------------|--------------|----------------------------|----------------------------|----------------------------|--------------|--------------------------|
| Class No. | Date planned (DD/MM) | Topics to be covered | TLP Planned | Class No. | Date of Conduction (DD/MM) | Topics Covered | TLP Executed | Remarks if any deviation |
| MODULE-1 | | | | | | | | |
| 1 | 3/3/2026 | Propositional Logic | Chalk& Talk | | | | | |
| 2 | 5/3/2026 | Applications of Propositional Logic | Chalk& Talk | | | | | |
| 3 | 6/3/2026 | Propositional Equivalences | Chalk &Talk | | | | | |
| 4 | 9/3/2026 | Predicates and Quantifiers | Chalk &Talk | | | | | |
| 5 | 10/3/2026 | Nested Quantifiers | Chalk & Talk | | | | | |
| 6 | 12/3/2026 | Rules of Inferences | Chalk &Talk | | | | | |
| 7 | 13/3/2026 | Introduction to Proofs | Chalk &Talk | | | | | |
| 8 | 16/3/2026 | Proof Methods and Strategy | Chalk &Talk | | | | | |

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LESSON PLAN & WORK DONE DIARY FOR AY: 2025-26, ODD SEMESTER

| MODULE-2 | | | | | | | | |
|-----------|----------------------|--------------------------------|--------------|-----------|----------------------------|----------------|--------------|--------------------------|
| Class No. | Date planned (DD/MM) | Topics to be covered | TLP Planned | Class No. | Date of Conduction (DD/MM) | Topics Covered | TLP Executed | Remarks if any deviation |
| 9 | 17/3/2026 | Operations on Sets | Chalk & Talk | | | | | |
| 10 | 20/3/2026 | Power Set, Venn Diagram | Chalk & Talk | | | | | |
| 11 | 23/3/2026 | Cartesian Product | Chalk & Talk | | | | | |
| 12 | 24/3/2026 | Relations and their Properties | Chalk & Talk | | | | | |
| 13 | 26/3/2026 | Closures of Relations | Chalk & Talk | | | | | |
| 14 | 27/3/2026 | Equivalence Relations | Chalk & Talk | | | | | |
| 15 | 6/4/2026 | Partial Orderings | Chalk & Talk | | | | | |
| 16 | 7/4/2026 | Functions, Types of Functions | Chalk & Talk | | | | | |

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| MODULE-3 | | | | | | | | |
|-----------------|----------------------|------------------------------------|--------------|-----------|----------------------------|----------------|--------------|--------------------------|
| Class No. | Date planned (DD/MM) | Topics to be covered | TLP Planned | Class No. | Date of Conduction (DD/MM) | Topics Covered | TLP Executed | Remarks if any deviation |
| 17 | 9/4/2026 | Mathematical Induction | Chalk & Talk | | | | | |
| 18 | 13/4/2026 | Strong Induction and Well Ordering | Chalk & Talk | | | | | |
| 19 | 16/4/2026 | Recursive Definitions | Chalk & Talk | | | | | |
| 20 | 17/4/2026 | Structural Induction | Chalk & Talk | | | | | |
| 21 | 21/4/2026 | Recursive Algorithms | Chalk & Talk | | | | | |
| 22 | 23/4/2026 | Program Correctness | Chalk & Talk | | | | | |
| 23 | 24/4/2026 | Problem Solving on Induction | Chalk & Talk | | | | | |
| 24 | 27/4/2026 | Problem Solving on Recursion | Chalk & Talk | | | | | |

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| MODULE-4 | | | | | | | | |
|-----------|----------------------|--|--------------|-----------|----------------------------|----------------|--------------|--------------------------|
| Class No. | Date planned (DD/MM) | Topics to be covered | TLP Planned | Class No. | Date of Conduction (DD/MM) | Topics Covered | TLP Executed | Remarks if any deviation |
| 25 | 28/4/2026 | The Basics of Counting | Chalk & Talk | | | | | |
| 26 | 30/4/2026 | The Pigeonhole Principle | Chalk & Talk | | | | | |
| 27 | 4/5/2026 | Permutations | Chalk & Talk | | | | | |
| 28 | 5/5/2026 | Combinations | Chalk & Talk | | | | | |
| 29 | 7/5/2026 | Segmentation | Chalk & Talk | | | | | |
| 30 | 8/5/2026 | Permutations and Combinations (Problems) | Chalk & Talk | | | | | |
| 31 | 14/5/2026 | Binomial Coefficients | Chalk & Talk | | | | | |
| 32 | 15/5/2026 | Binomial Identities | Chalk & Talk | | | | | |

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| MODULE-5 | | | | | | | | |
|-----------------|----------------------|---|--------------|-----------|----------------------------|----------------|--------------|--------------------------|
| Class No. | Date planned (DD/MM) | Topics to be covered | TLP Planned | Class No. | Date of Conduction (DD/MM) | Topics Covered | TLP Executed | Remarks if any deviation |
| 33 | 18/5/2026 | Graphs and Graph Models | Chalk & Talk | | | | | |
| 34 | 19/5/2026 | Graph Terminology and Special Types of Graphs | Chalk&Talk | | | | | |
| 35 | 21/5/2026 | Representing Graphs and Graph Isomorphism | Chalk & Talk | | | | | |
| 36 | 22/5/2026 | Representing Graphs and Graph Isomorphism | Chalk&Talk | | | | | |
| 37 | 29/5/2026 | Connectivity | Chalk & Talk | | | | | |
| 38 | 1/6/2026 | Euler and Hamilton Paths | Chalk & Talk | | | | | |
| 39 | 2/6/2026 | Shortest-Path Problems | Chalk & Talk | | | | | |
| 40 | 4/6/2026 | Planar Graphs and Graph Coloring | Chalk & Talk | | | | | |

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| | Activity | Planned | Actual | Remarks |
|---------------------------|--|---------|---------------------------|---------|
| 1 | Theory Classes | 40 | | |
| 2 | Assignments/Quizzes/Activity/ Self-study | 2/2 | | |
| 3 | Tutorials/ Extra classes | - | | |
| 4 | Internal Assessments | 3 | | |
| 5 | ICT based Teaching (% of usage in Curriculum) | 0% | | |
| Planning | | | Execution | |
| Faculty Signature: | | | Faculty Signature: | |
| HoD Signature: | | | HoD Signature: | |