

## LESSON PLAN

Name of Assistant Professor: Manutesh Ravi

Class: B.A. 4th Sem

Subject: Mathematics

Lesson Plan: 1 Jan 2024 to 30 April 2024

- Week 1 → Introduction of Computer, C, Topology of Real Numbers
- Week 2 → Data-Types, Sequence, Power Series
- Week 3 → Operators and Expressions, Infinite Series
- Week 4 → Decision Control Structures, Bernoulli's  $e^x$  and function
- Week 5 → Loops, Alternating series, Legendre, Hermite  $e^x$
- Week 6 → Functions, Laplace transforms
- Week 7 → The C preprocessor
- Week 8 → Arrays, Arbitrary Series
- Week 9 → String, Inverse Laplace transforms
- Week 10 → Structures and Unions
- Week 11 → Pointers, Infinite Products
- Week 12 → Files in C, Use of Laplace transform
- Week 13 → Solution of Algebraic and Transcendental eq<sup>n</sup>
- Week 14 → Simultaneous Linear Algebraic eq<sup>n</sup>
- Week 15 → Fourier transforms.
- Week 16 → Use of Fourier transforms in differential eq<sup>n</sup>s.

Week 17 → Revision

Week 18 —

**Examinations**

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## LESSON PLAN

Name of Assistant Professor: Manjota Rani

Class: B.A. - 6th Sem

Subject: Mathematics

Lesson Plan: 1 Jan 2024 to 30 April 2024

- Week 1 → Jacobians, Motion along a plane curve, Vector space
- Week 2 → Beta & Gamma  $f^n$ , Relative motion, Basis & Dimension
- Week 3 → Quotient space
- Week 4 → Double & Triple Integrals, S.H.M.
- Week 5 → Elastic string, Linear transformations
- Week 6 → Fourier series, Work Power Energy
- Week 7 → Motion of particle on smooth & Rough plane
- Week 8 → Calculus of Complex  $f^n$ , Rank & Nullity
- Week 9 → Projectile, Algebra of Linear Transformation
- Week 10 → Elementary  $f^n$  & Mobius  $f^n$
- Week 11 → Central orbits, Matrix of Linear Transformation
- Week 12 → Critical Mapping
- Week 13 → Kepler's law
- Week 14 → Particle Motion in three dim.
- Week 15 → Dual space, Eigen Values & Eigen Vectors
- Week 16 → Inner product space

Week 17 → Linear operators on Inner product space  
+ Revision

Week 18

Examinations

Nautesh