ISE

💡 **Notion Tip:** Drag the ⠿ handle to the left of any to-do item to re-order. Color coordinate your to-do's by right-clicking and selecting `Color`.

APPLIED MATHEMATICS

MODULE 2

- RANK OF MATRIX AND SYSTEM OF EQUATION

☐ Types of matrices: Hermitian, Skew-Hermitian, Unitary and Orthogonal matrix

☐ Rank of a matrix using row echelon forms, reduction to normal form

☐ System of homogeneous and non-homogeneous equations, their consistency and solutions

☐ Linearly dependent and independent vectors

ENGINEERING PHYSICS

MODULE 1

☐ Principle of lasers

☐ Optical Fibres

MODULE 2

☐ Semiconductors

☐ Dielectrics

☐ Liquid Crystals

ENGINEERING MECHANICS

MODULE 1

☐ Coplanar Forces: Resolution and Composition of Forces

☐ Space Forces

MODULE 2

☐ Kinematics of Particles

☐ Kinematics of Rigid Bodies

☐ Solution of system of linear algebraic equations by (a) Gauss Seidal method (b) Jacobi iteration method

MODULE 3

- Partial Differentiation and Application

☐ Functions of several variables, Partial derivatives of first and higher order (definition using limits and simple problems)

☐ Differentiation of composite functions

☐ Maxima and minima of a function of two independent variables

☐ Introduction of Jacobian of two and three independent variables (sim le roblems)