

**The below syllabus is broadly indicative but not exhaustive**

## TA- MECHANICAL

Basic of applied Physics  
Basics of applied Chemistry  
Advanced Strength of Materials  
Thermal Engineering  
Manufacturing Processes  
Fundamentals of Electronics  
Engineering Materials  
M.E.Drawing  
Thermal Engineering  
Principles of Electrical Engineering  
Principles of Electronics Engineering  
Engineering Metrology  
Theory of Machines & Mechanism  
Fluid Mechanics & Machinery  
Advanced Manufacturing Processes  
Measurement & Control  
Power Engineering  
Automobile Engineering  
Mechatronics  
Machine Tools / Tool Engineering  
Industrial Project & Entrepreneurship  
Basics of Computer Programming-C++/ java  
Design of M/C Elements  
Industrial Management  
Fluid Power  
Refrigeration & Air-Conditioning  
CAD-CAM & Automation / Engg graphics  
Alternate Energy Sources & Management  
Material Handling Systems  
Production Management  
Casting & Forming Processes  
Welding Technology  
Automation &CNC Machines  
Industrial Management