



**SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES & TECHNOLOGY  
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P&A.I/X/68/Syllabus/VOP/SCTIMST/2009

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**NOTICE**

The syllabus for written test for selection to the post of **Foreman (Tool Room)** at BMT Wing— as approved by the Director is notified for the information of all concerned.

1. Metal cutting and cutting tools. ✓  
Types of cutting tools, Cutting tool materials, Cutting tool nomenclature, Cutting speeds and feeds, Calculation of cutting speed and feed, Tool life and wear. ✓
2. Cutting fluids. ✓  
Purpose of cutting fluids, Properties of cutting fluids, Types of cutting fluids. ✓
3. Machine Tools. ✓  
Types of lathe, Lathe operations, Tools used for turning operations, various thread forms and its significance. ✓  
Types of milling machine, Milling machine operations, Work holding devices, Milling cutters and tools, Cutting speed feed and depth of cut. ✓  
Types of grinding machines and grinding operations, CNC machines – axis of motion, classification of CNC system, position and motion control in CNC machines. ✓
4. Non – traditional machining ✓  
Types of non-traditional machines, EDM - Principle and operation, Wire EDM principle and operation. ✓
5. Limits, Fits and surface quality. ✓  
Tolerance, fits and allowance, Types of fit, Hole basis and shaft basis system, Evaluation of surface quality, Surface finish symbols on drawings. Limits and fits- Indian standard. ✓
6. Engineering materials. ✓  
Properties of ferrous and non ferrous materials used in manufacturing industry. ✓
7. Strength of materials. ✓  
Stress, strain and elongation, Tensile stress, Stress strain diagram of engineering materials. ✓

**Reference Books:**

1. Elements of workshop technology – Volume 2 – Machine tools, by S.K.Hajra Choudhry.
2. Production technology by HMT.

To

Notice Board (Hospital/BMT Wing)

13/9/09  
**ADMINISTRATIVE OFFICER GR – I**