

Course Code – 214303
Machine Drawing

Credit Points	Teaching Hrs/Week	Practical Hrs/Week
2	-	4

Objective	After Completion of the course student will be able to read and detailed and assembly drawings of various machine parts conforming to IS conventions.
Prerequisites	Engineering Drawing.

Unit	Topic Name	Term work	Hrs
1	IS conventions	One Full Imperial sheet based on various IS conventions	8
2	Standard Machine Components	One Full Imperial sheet based on drawing the standard components like various Nuts, Bolts, Washers, Different Screws, Seals, Locking pins etc.	8
3	Projections	A Drawing Project involving Two Full Imperial sheets on Orthographic Projections of assemblies like Cottar Joint, Knuckle Joint, Couplings, etc to illustrate the significance of missing views, various types of sections, Oblique projections etc.	8
4	Assembly and Dismantling	<p>One assignment on Dismantling, Assembly & Measurements of dimensions of a simple mechanical assembly like: Two Wheeler Gearbox, Clutch, Tailstock, Vice, Valves, Carburetor etc.</p> <p>Study of tools used during above exercise. General study of measuring instruments used for measuring the dimensions. Dismantling and assembly sequence.</p> <p>Qualitative observation of fits between different mating parts.</p> <p>Application and working of the studied assembly.</p> <p>A detailed report on the above assignment is to be submitted in the form of a journal.</p> <p>One Full Imperial sheet of this assembly. One full Imperial sheet on the details of the assembly.</p>	12
5		One assignment on Brief description and working of any one industrial assembly by procuring drawing	12

		<p>from concerned industry.</p> <p>Nature of working in the concerned industry.</p> <p>A detailed report on the above assignment is to be submitted in the form of a journal.</p> <p>One Full Imperial sheet of this assembly. One full Imperial sheet on the details of the assembly.</p>	
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Text Books	<ol style="list-style-type: none"> 1. Siddheshwar, "Machine Drawing", Tata-McGraw Hill. 2. N. D. Bhat, "Machine Drawing", Charotar Publishing Company
Reference Books	<ol style="list-style-type: none"> 1. James H. Earle, "Engineering Design Graphics", Addison-Wesley Publishing Co. 2. K. L. Narayana and P. Kannaiah, "Machine Drawing", New Age International Ltd 3. David I. Cook and Robert N. McDongal, "Engineering Graphics and Design with Computer Applications", Holt-Sounders International Editors 4. IS Code SP 46
Related Websites	

Examination Scheme	Internal Assessment –	NIL
	Term Work – 50 marks	
	Final Theory Paper –	NIL