

GRANDE PRAIRIE REGIONAL COLLEGE
Industrial Training

Industrial Maintenance Technician Program

COURSE SYLLABUS - SEMESTER I

PRINT READING I: IM0020

This course is designed to provide instruction in the fundamentals of engineering drawing interpretation. Students will learn to sketch various objects with all relevant information. In addition, the orthographic and isometric projection of objects, scales, dimensioning, and symbolic representative will be studied.

Prerequisites:	None
Textbooks:	<i>Orthographic Projection Simplified</i> , Quinlan <i>Interpreting Engineering Drawings</i> , Jensen and Hines
Class Hours:	See timetable

Course Objectives

Upon completion of this course, students will be able to:

1. demonstrate the value of sketching objects.
2. describe the terms associated with interpreting engineering drawings.
3. draw the principle views of an object.
4. sketch the isometric projection of an object.
5. dimension an object.
6. demonstrate competency in interpreting the information found on engineering drawings
7. describe welding specifications and symbols.
8. label the auxiliary information required on drawings.

Evaluation

The students will be evaluated as follows.

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|----|-------------------------------|-----|
| 1. | Assignments and Quizzes | 25% |
| 2. | Midterm Exam (1)..... | 20% |
| 3. | Midterm Exam (2)..... | 20% |
| 4. | Final Exam | 35% |

Attendance

Refer to the Attendance Policy - Progression Criteria

SEMESTER I

THEORY AND LAB HOURS

UNIT	THEORY HOURS	LAB HOURS
Safety and Introduction	4	
Measurement	10	
Layout	4	
Benchwork	10	
Threads and Fasteners	10	
Drilling	12	
Lathes	16	
Tapers	3	
Grinding	4	
Lubrication and Coolants	3	
Power Saws	4	
Metallurgy	10	
Alignment	12	6
Rigging and Hoisting	16	
Welding and Fire Safety	12	24
TOTAL	130	176*

*Lab hours are proportioned out in fabricating of shop projects
Some hours are proportioned out for planned tours to plant sites