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Department of Architectural Engineering

Descriptive Geometry (62117)

Total Credits	2

major compulsory

Prerequisites	P1 : Eng'g Drawing (61104) OR Architectural Drawing I (62113) OR Engineering Drawing (62102)

Course Contents

Descriptive Geometry is a graphical communication system, concerned with describing space in a mathematical way, so that the geometrical objects and their interaction can be imagined and drawn, basic concepts of descriptive geometry are solving space problems using graphic solutions through orthographic projection within the limits of accuracy of the graphic method and empirical data.

	Intended Learning Outcomes (ILO's)	Student Outcomes (SO's)	Contribution
1	To apply knowledge of Engineering Drawing, and it's relations with other Sciences and Arts. Analyze and solve basic problems involving graphics and spatial manipulations for industrial and engineering applications. Develop simple and complex devel	A	70 %
2	An ability to use the techniques, skills, and tools necessary to produce high quality drawings.	K	15 %
3	To be able to communicate effectively with others, using drawings and sketches.	G	15 %

Textbook and/ or Refrences

E.G. Pare: Descriptive Geometry Metric. Fifth edition.

Assessment Criteria	Percent (%)
First Exam	20 %
Second Exam	20 %
Homeworks	20 %
Final Exam	40 %

Course Plan

Week	Topic
1	Orthographic Projection
2	Primary Auxiliary Views
3,4	Lines and Points
5	Planes
6	The first Exam
7	Successive Auxiliary Views
8	Piercing Points
9,10	Intersection of Planes
11	The Second Exam
12	Angles between planes
13	Parallelism
14,15	Perpendicularity
16	Final Exam