

INDU 421: Facilities Design and Material Handling Systems.

- Lab Outline:

Introduction to AUTOCAD	Lab-01 : Introduction
Introduction to FACTORYCAD	
Introduction to Factory Design Using FACTORYCAD	Lab-02 : Introduction
Introduction to Factory Design Optimization Using FACTORYFLOW	
Introduction to Facility Design Projects	Lab-03 : Project
Individual Project Definition	
Additional FACTORY Tools	Lab-04 : Project
Project Selection	
Individual Project - Workshop Session	Lab-05 : Project - LINGO
Introduction to Facility Design Using LINGO	
Additional LINGO Models	Lab-06 : LINGO - Project
Individual Project - Workshop Session	
Individual Project - Workshop Session	Lab-07 : Project
Individual Project - Submission	

- Project Definition:

S1 - Select Target Facility	<p>Examples :</p> <ul style="list-style-type: none"> - Custom Manufacturing - Distribution & Transportation - Mass Producer 		
S2 - Define - Optimize - Design	<p>Define: - Departments - Machines - Personnel - Space Requirements</p>	25%	Submission Required - Format : E-Document
	<p>Optimize Using FACTORYFLOW</p>	25%	Activity Relationship Diagram Required
	<p>Design using FACTORYCAD</p>	50%	Final Design Evaluation Criteria

- Evaluation Scheme:

Lab-Attendance	50%	Final Design Evaluation Criteria
Project-Related	50%	
		Design Departments
		Activity Relationship
		Factory Design Complexity
		Factory Esthetic