

No	Information of every subject	
1	Unit name:	Industrial engineering
2	Code:	ME-5028
3	Classification:	Engineering subject
4	Credit value:	2.5
5	Semester/ Year Offered:	1/2
6	Pre-requisite:	ME-4028 (Industrial Management)
7	Mode of delivery:	Lecture, Tutorial
	Mid-term/ final Examination	80%
	Tutorial	20%
9	Academic staff teaching unit:	
10	<p>Course Outcome of Unit :</p> <p>In this course ,students will be able</p> <p>Semester I</p> <p>(a)To choose the best ordering policy based on minimum cost (b)To utilize the resource or allocate facilities (c)To estimate the elapsed time (d)To understand the relationship of producer's and consumer's risk</p>	
11	<p>Synopsis of Unit:</p> <p>The course introduces students to the study of basic concept and principles of management and economics course covers the industrial engineering and management that is manage inventory level and schedule, quality control . Industrial Engineering subject is comprehensive and design calculation , layout and schedule course.</p>	

Topics
Semester I

- 1 Inventory Control and Management
 - 1.1 Inventory Models recognizing Risk
 - 1.1.1 Demand Constant, Lead – time vary
 - 1.2 Single Stage inventory
 - 1.2.1 Demand vary , Lead – time vary
 - 1.3 Simulation Method
 - 1.3.1 Demand vary , Lead – time vary
 - 1.4 Inventory management systems
 - 1.4.1 ABC analysis
 - 1.4.2 The fixed- order – quantity (FOQ) (continuous- review) system
 - 1.4.3 The fixed – order – quantity (FOI) (periodic – review) system
 - 1.4.4 The base – stock (optional replenishment) system

- 2 Resources Scheduling
 - Introduction
 - 2.1 Network scheduling
 - 2.2 Job Sequencing

- 3 Quality Control
 - 3.1 Total Quality Control
 - 3.2 Acceptance Sampling
 - 3.2.1 Multiple Sampling
 - 3.2.2 Sequential Sampling

3.2.3 Acceptance sampling by variables

3.3 Quality Control Circle

13	Main references: Industrial Engineering and Management volume 2, by U Lin. references:
14	Additional Reference : Facility Layout and Location , by Richard L.Francis , Leon F.McGinnis,Jr.John A.White.

