United International University (UIU)
Dept. of Computer Science and Engineering (CSE)

COURSE OUTLINE

Course Code: IPE 401 Course Title: Industrial Management
Fall Trimester: 2020

Instructor : Gourab Kumar Roy
Classes : Sec. A
Class Time: Sun Wed 11:40 AM – 1:10 PM (Room #406)
Sec. B
Class Time: Sat Tues 1:30 PM – 03:00 PM (Room #325)

Office and Counseling hr: Sat Tues 12:PM-1:00 PM
Sun Wed 9:30AM- 11:30 PM,3:00PM-4:30PM
Room# (619)
Email : gourab@ins.uiu.ac.bd

Text Books

[1] Stephen P. Robbins, Mary Coulter, Management,11th ed., Prentice Hall
[2]William J. Stevenson, Operations Management, 8th ed., McGraw-Hill.Garrison
[3]Garrison, R. H. and Noreen, E. W., *Managerial Accounting, 10th ed.* McGraw-Hill.
[4]Hillier, F.S., and Liberman, G.J., *Operations Research, 2nd ed*., CBS Publishers and Distributors Ltd, 2000.
[5]Hasin, A.A., *Quality Control and Management, 1st ed*., Bangladesh Business Solution, 2007.
[6] William G. Sullivan, James A. Bontadelli, Elin M. Wicks, Engineering Economy,
[7]11th ed., Pearson Education Philip Kotler, *Marketing Management*, Pearson Education
[8] Managerial Accounting, 14th Edition: Ray Garrison, Eric Noreen, Peter ..
[9] Management of technology –Tarek Khalil& Ravi Shankar

Homework Home work will be given throughout the session. Homework will not carry any weights for final evaluation.

Assignment There will be two assignments. The 1st one need to be submitted before mid-term and the 2nd one before final.

Class Test There will be total **5** quizzes in class. The **best three** will be taken.

Exams Quizzes, Mid-terms and final exams will be closed book, closed notes. The materials for quiz, mid-term and final exam will be informed in due time. There will be no grade exemptions from the final. Final examination is not comprehensive.

Test Policy **If you are absent from a test, and you have not spoken to me personally beforehand or did not inform me via email, your grade for the test will be zero. If you violate rules in the exam hall, your marks will be deducted from class tests, So do not try to copy or take extra time.**

Grading The course grade will be determined from a weighted average of the quizzes, homework assignments, mid-term exams and the final.

-Percentage of weight age of the tests/exams is as follows:

Attendance	5%
Class Test & Assignments	50%
Mid-term Exam	20 %
Final Exam	25 %

Course Grade The following scale will be used to convert numerical grades to letter grade:

Letter Grade	Marks	Grade Point	Letter Grade	Marks	Grade Point
A (Plain)	90-100	4.0	C+ (Plus)	70-73	2.33
A- (Minus)	86-89	3.67	C (Plain)	66-69	2.00
B+ (Plus)	82-85	3.33	C- (Minus)	62-65	1.67
B (Plain)	78-81	3.00	D+ (Plus)	58-61	1.33
B- (Minus)	74-77	2.67	D (Plain)	55-57	1.00

Objectives:

- To develop managerial knowledge.
- To learn about leadership skills, motivation and organization.
- To study and learn industrial tools and techniques used to manage the operations of an organization.
- To study different types optimization techniques.
- To study Cost and Financial Management, Operations Management and Quality management

Class Lecture Mapping

Lecture	Lecture Plan	Reference Book #
1	Course objective and plan, Introduction	
2	Managing and Managers	[1]
3	Engineering Economy: Cost of capital, present value and future value concept	[6]
4	Project Selection: payback period, net present value analysis	[6]
5	Project Selection: internal rate of return, benefit cost ratio	[2]
6	**Class Test 1** on Lecture 2 to 3 Problem Solving Class	
7	Inventory management	[2]
8	**Class test 2**	[2]
9	Material Requirement Planning (MRP)	[7]
10	**Class Test 3** on Lecture Problem Solving Class	
11	Marketing Management	[7]
12	Management of Technology	[9]
13	Demand Forecasting	[2]
14	Demand Forecasting	[2]
15	Scheduling	[2]
16	Quality Management & Basic tools of TQM	[5]
17	Quality Management & Basic tools of TQM	[5]
18	**Class Test 3** on Lecture 13-14	
19	Linear programming	[4]
20	Linear programming	[4]
21	**Class Test 4** on Lecture 15-17 Problem Solving Class	
22	Lean Manufacturing, Six Sigma Production and Reliability Theory	[4]
23	**Class test 5**	
24	Solve Class	
Final Exam		