

University of Engineering & Technology Taxila  
Mechanical Engineering Department

Postgraduate Degree Studies in

Industrial & Manufacturing Engineering

Fall (First Semester) 2008

Course Instructor : Prof Rafi Javed ([rajaqu2004@yahoo.com](mailto:rajaqu2004@yahoo.com)) (M):03465300275

Course Title: **Engineering Optimization Techniques**

Wk#	Date	Topic	Activity
1	Sep 06' 08	Linear Optimization	
2	Sep 13' 08	Simplex Method	
3	Sep 20' 08	Duality Theory	
4	Sep 27' 08	LP :Applications	Short Test-1
	Oct 04' 08	<b><i>EID-UL-FITR BREAK</i></b>	
5	Oct 11' 08	Integer Programming	
6	Oct 18' 08	ILP : Applications	
7	Oct 25' 08	Goal Programming	Short Test-2
8	Oct 01' 08	GP : Applications	
9	Nov 08 ' 08	Dynamic Programming	Short Test-3
	Nov 15 ' 08	Non-Linear Programming	
10	Nov 22' 08	<b>MID – TERM - EXAMINATION</b>	
11	Nov 29 ' 08	Probability Models	
	Dec 06' 08	<b><i>EID-UL-AZHA BREAK</i></b>	
12	Dec 13' 08	Waiting Line Models	
13	Dec 20' 08	Monte Carlo Technique/Simulation	Short Test-4
14	Dec 27' 08	Markov Chains	
15	Jan 03' 09	Reliability Basics	Case Studies : Presentations
16	Jan 10' 09	Network/Graph Theory	Case Studies : Presentations
17	Jan 17' 09	Network/Graph Theory	Case Studies: Presentations
18	Jan 24' 09*	Network/Graph Theory	Case Studies: Presentations
	Jan 26 - onwards	<b>FINAL EXAMS</b>	

\*End of Term Course Project Presentation date to be arranged

Grades Distribution:

Short Tests : 12% (3x4)

Mid Term: 20%

Case Studies Presentation: 8%

Final Exam: 40%

Course Project/Viva-Voce Examination: 20%

