VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY
LESSON PLAN

Year >>4TH	**Contact Hours per week >>4**			
Branch >> Electrical Engg. **Subject**: Production and operation management	**Total Credit >>4**			
	DAY	**DAY**	**DAY**	**DAY**
	Monday	**Tuesday**	**Wednesday**	**Friday**

Dr. Swagatika Mishra

Jan,2015-April,2015

Recommended Books:

1. Production systems, planning ,analysis and control by Riggs john, willy and sons
2. Modern production and operation management by Buffa and sarin
3. Production & Operation Management: By- Panneer Salvem,R(2nd Edn.)
4. Operations management by Chary, S.N. (TMH)

Lecture no	Topics to be covered	Assignment submission date/Remark
1	Introduction, Productivity: Importance, Productivity ratio	
2	Productivity measurement, Productivity index	
3	Awareness, improvement of Productivity	
4	Improvement of productivity, Maintenance	
5	Production System: Models of Production system	
6	Production Vs Services, Process focused system	
7	Product focused system,	
8	product strategies	
9	Product life cycle, production function	
10	Forecasting: Methods-moving average, problem solving	
11	Exponential smoothing, problem solving	
12	Regression analysis, problem solving	
13	Coefficient of co-relation, Delphi Method, Market survey	
14	Facilities planning, site location , Facilities location	Assignment 1 to be given to students
15	center of gravity method, problem solving	
16	Simple median model, application of break even analysis	
17	work place design using CRAFT, Working conditions, noise, illuminations etc.	
18	Motion study: steps in motion study.	Assignment 1 Submission date
19	principles of motion economy Time study, standard time	
20	Work sampling, Problems on standard time calculation	
21	Production planning and control: aggregate planning	
22	aggregate planning , Sequencing,	
23	Line balancing, problems on line balancing.	
24	Flow control, dispatching, expediting ,Gantt chart	
25	Line of balance,	
26	Line of balance, Problem solving	Assignment 2 to be given to students
27	learning curve , Problem solving	
28	Project management Network scheduling PERT	

29	Critical path Problem solving	Assignment 2 submission date
30	Most likely time estimate, Problem solving	
31	Resource leveling	
32	Modern Trends in Manufacturing	Assignment 3 to be given to students
33	Basic concepts of CAD,CAM,	
34	Basic concepts of FMS,CIM	
35	JIT, ISO 9000	
36	Quality circle	
37	Kaizen, Kanbans	Assignment 3 submission date
38	Poke Yoke's supply chain	
39	Questions and Discussions	
40	Questions and Discussions	

Swagatika Mishra
Signature of Teacher
Dept of Mechanical Engg.