

**ANDHRA LOYOLAINSTITUTE OF ENGINEERING AND TECHNOLOGY**  
**(Approved by AICTE, New Delhi & Affiliated to JNTUK)**  
**(An ISO 9001:2008 Certified Institution)**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**LESSON PLAN**

**Academic Year: 2018-19**

**A SECTION**

**Year/Sem: IV B.Tech II**

**sem.**

**Subject: Production Planning and Control**

**Faculty: T.SUBBA REDDY**

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Unit	Topic	No. of classes	No. of classes	Dates
<b>I</b>	Introduction: Definition – objectives	12	2	19,20/11/18
	functions of production planning and Control		2	22,24/11/18
	Elements of production control		2	26,27/11/18
	Types of production		2	28,29/11/18
	Organization of production planning and Control department		2	1,3/12/18
	Internal Organization of department.		2	4,5/12/18
<b>II</b>	Forecasting – importance of forecasting	11	2	6,8/12/18
	Types of forecasting, their uses		3	10,11,12/12/18
	General principles of forecasting – forecasting techniques		4	13,15,17,18/12/18
	Qualitative methods and Quantitative Methods		2	19,20/12/18
<b>III</b>	Inventory management – functions of inventories	13	2	22,26/12/18
	Relevant inventory costs - ABC analysis		2	27,29/12/18
	VED analysis - EOQ model		2	31/12/18, 1/1/19
	Inventory control systems		1	2/1/19
	P–Systems and Q-Systems.		1	3/1/19
	Introduction to MRP I		1	5/1/19
	MRP II , ERP		1	7/1/19
	LOB (Line of Balance),		1	8/1/19
	JIT system		1	9/1/19

	KANBAN system		1	10/1/19
IV	Routing- Definition - routing procedure	10	3	24,28,29/1/19
	Route sheets – bill of material		2	30,31/1/19
	Factors affecting routing procedure,		3	2,4,5/2/19
	Schedule –definition – difference with Loading		2	6,7/2/19
V	Scheduling policies	14	2	11,12/2/19
	Scheduling techniques		2	13,14/2/19
	Standard scheduling methods		2	16,18/2/19
	Line balancing		2	19,20/2/19
	Aggregate planning		2	21,23/2/19
	Chase planning		2	25,26/2/19
	Expediting		1	27/2/19
	controlling aspects		1	28/2/19
VI	Dispatching – activities of dispatcher	14	3	2,5,6/2/19
	Dispatching procedure – follow up – definition		2	7,9/2/19
	Reason for existence of functions		3	9,11,12/2/19
	Types of follow up		4	13,14,16,8 /3/19
	Applications of computer in production planning		4	19,20,2,23 /3/19
	<b>Total No. of Classes</b>		<b>76</b>	

**TEXT BOOKS:**

1. Elements of Production Planning and Control / Samuel Eilon.
2. Manufacturing, Planning and Control, Partik Jonsson Stig-Arne Mattsson, Tata Mc Graw Hill.

**REFERENCES:**

1. Inventory Control Theory and Practice / Martin K. Starr and David W. Miller.
2. Production Planning and Control, Mukhopadyay, PHI.
3. Production Control A Quantitative Approach / John E. Biegel.
4. Production Control / Moore

**FACULTY**

**HOD**