#### Lesson Plan Course: ETME-301

# **Management of Manufacturing Systems**

Session:	2018-19

Unit	Topic (from syllabus)	Lecture No.	Lecture Plan Date	Sub-Topics (& References from Text-books)	Assesme nt	Exam
		1		Introduction ,T1-Pg-9-10		
	Introduction	2		Management system, Production function TI-Pg 9-14		
	inti oddotion	3		Production and Productivity,T1-Pg23-26		
		4		Different Approaches to measure Productivity and problems, T1-Pg.26-32		
1	Plant Organization	5		Organization and Principles of Organizations, T1-Pg 601-604		
	Tidit Organization	6		Organization structure and types, T1- Pg-604-605		
	Plant Layout	7		Plant location and site selection,T1-Pg 69-78		
		8		Types of plant layout- Process, Product and combination, T1- Pg 81-86		
		9		Economics of plant layout and group technology, T1-Pg87-88		
	Production Planning and Control	10		Types of product and demand forecasting T1-Pg 46-50		irst Term Exams
		11		Forecasting techniques- Curve fitting , Moving average, Weighted Moving Average T1-Pg51-66		
		12		Forecasting techniques-exponential Smoothening and Regression Analysis, Problems. T1-Pg51-66		
		13		Marketing strategies T1-Pg 779-790		<del> </del>
		14		Production planning and control. T1-Pg 125-136	_ <u>_</u> _ <u>_</u>	Firs
2		15		Work study T1-Pg.369-371	<u>e</u>	
	Method Study	16		Method study T1Pg 372-391	_ &	
		17		Method study procedure T1Pg 372-391	)uc	
		18		Recording techniques and problems T1-Pg.386-387	atic	
		19		Micro motion study,SIMO ChartsT1-Pg 386-387	ent	
		20		Therbligs T1-Pg387-391	Ğ.	
		21		Work Measurement, objective and techniques T1 Pg 393-400	] <u>é</u>	
	Work Measurement	22		Time study equipments T1 Pg 393-400	ਨੂੰ	
		23		Work sampling T1 Pg 404-409	Str	
		24		Allowances and types of allowances, standard time, PMTS T1 Pg 401-402	] se	
	Industrial Maintenance	25		Concept of maintenance	Ţ Ö	
		26		Organization of maintenance department	izs/	
		27		Types of maintenance	7 g	
		28		Breakdown and preventive maintenance	7 📜	
		29		Organization of maintenance department	Assignment / Quizs/Case Study/Presentation/ Role Ply	
3		30		Introduction to Inventory control T1 Pg343-344	] <u>E</u>	
		31		Srategies for selective Inventory control, T1 Pg-261-263	Sisic	
	Inventory control and replacement analysis	32		EOQ Models -I,II T1 Pg245-254	7 %	
		33		EOQ Models -III, IV T1 Pg 255-261	1	
		34		EOQ problems	7	exam.
		35		Replacement policy and Method adopted T1 Pg-225-231	7	
	Management Concept	36		Development of Management, T1 Pg 587-589	7	ler l
		37		Management Concept T1 Pg 592-593	7	2nd term
		38		Management Principles T1 Pg 589	7	
		39		Scientific Management T1 pg 589-590	7	
4		40		Human Relation Aspects, T1 pg 590-592	7	
		41		Cost of production		
	Production Cost	42		Cost centre and unit		
	Concept	43		Break Even Analysis, T1-Pg 217-223	7	
		44		Break Even Analysis Problems T1-Pg 217-223	7	
5	Boyond Cullahira	45		6-Sigma, Introduction of TQM, T1-Pg-467-491		
	Beyond Syllabus	46		ISO9000 & ISO 14000 T1, Pg 492-498	7	

## List of Books

#### Text books:

- [T1]. Ravi Shanker, "Industrial Engineering & Management", Galgotia publications
- [T2]. S. K. Sharma, "Industrial Engineering & Operation Management", S. K Kataria and sons publications

### Reference Bokks:

- $[R1]. \quad Joseph \ S. \ Martinich \ , ``Production \ \& \ Operation \ Management'' \ , \ John \ Wiley \ and \ sons.$
- [R2] S.N.Chary, "Production & Operation Management", TMH 4<sup>th</sup> edition

- [R3] Harold T. Amrine, John A. Ritchey, Colin L. Moodie, Joseph F. Kmec, "Manufacturing Organization and Management" Pe
- [R4]. S.Anil Kumar, N. Suresh," Production & Operation Management", New age international, 2<sup>nd</sup> edition
- [R5]. M. Mahajan, "Industrial Engineering & Production Management", Dhanpat Rai & sons.