

PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH





PROGRESS REGISTER Session-2022-2023

Discipline: Mechanical Engg

Semester:.....5th..... Subject:.....I.E.M.....

Name of the Teaching Faculty:Amit Karra.....

Subject: IEM (A)No. of Days/per week class allotted 04Semester From Date: 14/02/2023 To Date: 23/05/23 No. of Weeks: 14

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
	Selection of site, Plant layout	Site selection, Plant layout (intro)	Factors - site selection Definition	
	Principles of Plant layout, Types	Principles, Classification Plant layouts	Principles / Classification of layouts	- do -
	Process, Product & combination layouts	Process, Product & combination	Comparison between diff. layouts	- do -
	Improvement of layouts	Improvement of layouts	Techniques related	- do -
	Material - Handling - Equipments	Material - Handling Equip.	Suitable e.g. of MHE	- do -
	Plant Maintenance (intro)	Plant - Maint. (intro)	Definitation Appl ^s , Types	- do -
	Break Down Maintenance	Break down Maint.	Suitable e.g. Definition	- do -
	Preventative Maintenance	Preventative Maint.	Suitable e.g.	- do -
	Scheduled Maintenance	Scheduled Maint.	- do -	- do -
	OR - Operation Research (intro)	OR - (intro)	Definition Appl ^s	- do -
	Applications of OR	Appl ^s of OR	Suitable e.g. related to it	

Subject: IEMNo. of Days/per week class allotted 04

Semester From Date :

To Date :

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Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (In brief)	Signature of Teacher
	Applications of OR	Applications of OR	Suitable ex. related to OR	<i>Chinn</i>
	Revision of topics covered	Revision work	Past topics	- do -
	Linear Prog. Problems (LPP)	L.P.P. (Intro)	Definition Types, Methods	- do -
	Graphical Method (2PP)	Graphical Method	Solutions to LPP	- do -
	Repeat class on 2PP	Repeat classes on LPP	Solutions to LPP.	- do -
	Evaluation of Project time	Evaluation of Proj. time	Critical Path Method	- do -
	Simple problems on CPM	Simple Problems CPM	- do -	- do -
	PERT (Intro.)	PERT (Intro.)	PERT (Sample Problems)	- do -
	Simple problems on PERT	Simple Problems on PERT	- do -	- do -
	Difference between PERT / CPM	Diff. bet. PERT / CPM	Relative adv. / dis-adv.	- do -
	Doubt clearing session	Doubt clearing session	Past topics	<i>Chinn</i>

Subject: JEMNo. of Days/per week class allotted 04

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To Date : _____

No. of Weeks : 14

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (In brief)	Signature of Teacher
	Inventory Control (intro.)	Inventory Control (intro.)	Advantages Benefits Definition	<i>Jmm</i>
	Classification of Inventory Control	Classification of IC	Functions Characteristics	- do -
	Functions of Inventory	Functions of Inventory	In, out, time, cost capacity etc.	- do -
	Benefits of IC	Benefits of IC	Advantages App ^l etc.	- do -
	Costs associated with Inventories	Costs Associated with IC	Ordering, Holding, etc.	- do -
	Terminology used in IC	Terminology used in IC	EOQ, JIT, ABC Analysis etc.	- do -
	Explanation of EOQ	Derivation of EOQ	Basic Model of EOQ	- do -
	Numericals on EOQ	Numericals on EOQ	Sample Questions	- do -
	ABC Analysis (intro.)	ABC Analysis	Accurate, Moderate min? control	- do -
	Numericals (topics covered)	Numericals (topics covered)	Sample Qs (previous year)	- do -
	Inspection & Quality Control (IQC)	IQC (intro. - definition)	Standards related to IQC	<i>Jmm</i>

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	Inspection Planning / importance	Inspection - do -	Measuring, Examining, Testing etc.	<i>dm</i>
	Types of inspection	- do -	Pre prod ⁿ , In-process etc.	- do -
	Advantages / disadv. of QC	- do -	Reduced - cost, Min ^m defects etc.	- do -
	factors affecting quality	- do -	Policy, design materials etc.	- do -
	Control charts (\bar{x} -, R-)	- do -	Monitor the arithme-matic mean etc.	- do -
	Control charts (p, c)	- do -	Monitor proportions, data etc.	- do -
	Methods of attributes in IQC	- do -	Affordability Efficiency etc.	- do -
	ISO-9001, 2008 (concept)	ISO-9001, 2008 (concept)	Scope, terms definition etc.	- do -
	Quality Mgmt System (QMS)	QMS (intro.)	Registration certification etc.	- do -
	Just intime (JIT) Six Sigma	JIT, Six- Sigma	Analytical- tools, time- mgmt. etc.	- do -
	7s / Lean - Manufacturing	7s / Lean Manufacturing	scope, Benefits etc.	<i>dm</i>

Subject: TEM No. of Days/per week class allotted 04

Semester From Date: _____ To Date: _____ No. of Weeks: 14

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
	Revision of QC techniques	- do -	QMS, JIT, 7s etc.	<i>Amr</i>
	Revision work	- do -	Sample Questions	- do -
	Production Planning / Control (PPC)	PPC (introduction)	Scope, definition, fun. etc.	- do -
	Major fun. of PPC	- do -	Product, Material, process etc.	- do -
	Methods of forecasting	Methods of forecasting	Routing / Scheduling	- do -
	- do -	- do -	Dispatching / Controlling	- do -
	- do -	- do -	Revision work	- do -
	Sample Quest. discussion	- do -	Previous Year Questions	- do -
	Types of production	Types of production	Mass, Batch etc.	- do -
	Types of production	- do -	Mass - prod. (detail)	- do -
	Batch production	Batch - production	Suitable examples	<i>Amr</i>

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	Methods of forecasting	Revision work	Revision work	<i>Chmm</i>
	Job-order production	Job-order production	Suitable examples, definition	- do -
	Principles of Product, process	Principles of Product, process	Detailed discussion	- do -
	Principles of Process planning	- do -	- do -	- do -
	Revision (Ch. 1)	Revision (Ch. 1)	Plant-Engg.	- do -
	Revision (Ch. 2)	Revision (Ch. 2)	- do -	- do -
	Revision (Ch. 2)	Revision (Ch. 2)	Operation Research	- do -
	- do -	- do -	PERT CPM	- do -
	Revision (Ch. 3)	Revision (Ch. 3)	EOQ, ABC - Analysis	- do -
	Revision (Ch. 4, 5)	Revision (Ch. 4, 5)	Control charts, forecasting	- do -
	Sample question discussion	Sample question discussion	Previous Year	<i>Chmm</i>