

BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

SIVARAM VIHAR, GHATAKESWAR HILLS
MOHADA, BERHAMPUR (GM.)



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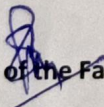
STUDENT'S ATTENDANCE REGISTER


Time	9.55	10.45	11.35	12.25	1.55
Day	$\frac{9.55}{10.45}$	$\frac{10.45}{11.35}$	$\frac{11.35}{12.25}$	$\frac{12.25}{1.45}$	$\frac{1.55}{2.45}$
MON					
TUES	✓				
WED	✓				
THU		✓			
FRI	✓	✓			

Year/ Session	2022 Summer
Semester & Branch	6th Sem. Mech Engg.
Subject with Code	AMP
Name of the Faculty Member	Er. Sanjosh Kumar Nayak.

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
MARCH	2nd	10/03	<u>1.1</u> - Introduction - Comparison with traditional machining.
		11/03	<u>1.2</u> - Ultrasonic Machining:- Principle, Description of Equipment, applications.
	3rd	15/03	<u>1.3</u> - <u>Electric Discharge Machining</u> :- Principle, Description of Equipment, Dielectric fluid, tools, Process parameters, out-put characteristics; applications.
		16/03	<u>1.4</u> - <u>wire cut EDM</u> :- principle, Description of Equipment, Controlling Parameters, applications.
		17/03	<u>1.5</u> - <u>Abrasive Jet Machining</u> :- Principle, description of Equipment, Material removal rate application.

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
	4th	22/03	1.5 - Laser Beam Machining, description of Equipment, Material removal rate application.
		23/03	1.6 - Electro. Chemical Machining - Principle, description of Equipment, Material, removal application
		24/03	1.7 - Plasma Arc Machining - Principle, description of Equipment, Material, removal rate, process Parameters, Performance Characterization Applications.
		25/03	1.8 - Electron Beam Machining Principle, description of Equipment Material, removal rate, process parameters, Performance characterization application
		30/03	2.1 - Processing of plastics.
	5th		

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
MARCH	1st	31/03	Moulding process :- Injection moulding, Compression moulding, Transfer moulding. <u>2.2</u> -
APRIL	1st	05/04	<u>2.3</u> - Extruding ; Casting ; Calendering
		06/04	<u>2.4</u> - Fabrication Methods - Sheet - forming, Blow moulding, Laminating plastic - Reinforcing.
		07/04	2.5 - Application of plastic.
		08/04	<u>3.1</u> - Introduction, Need for Additive Manufacturing.

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
Month	Week	Class Day	Theory/Practical Topic
	2nd	12/09	<u>3.2</u> - Fundamentals of Additive Manufacturing, AM process Chain.
		13/09	<u>3.3</u> - Advantages and limitation of AM, process chain Commonly used terms.
	3rd	19/09	<u>3.4</u> - Classification of AM process, Fundamental Automated processes, Distinction: between AM and CNC, other related technologies.
		20/09	<u>3.5</u> - <u>Application</u> - Application in Design, Aerospace Industry, Automotive Industry, Jewelry Industry, Arts and Architecture. RP. Medical and Bioengineering Application.

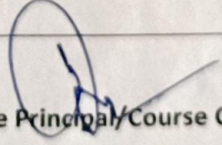
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Month	Week	Class Day	Theory/Practical Topic
MAY	ISE	21/04	3.6 - Web-Based Rapid Prototyping System.
		22/04	3.7 - Concept of Flexible manufacturing Process, Concurrent Engineering, Production tools like Capstan and turret lathes, rapid prototyping Processes.
		23/04	4.1 - Concept, General Elements of SPM, Productivity improvement by SPM, Principle of SPM design.
		05/05	5.1 :- Types of maintenance, Repair Cycle analysis, Repair Com. plentiy, Maintenance manual, Maintenance records, Housekeeping. Introduction to Total Productive Maintenance. (TPM).

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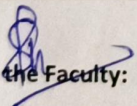
Month	Week	Class Day	Theory/Practical Topic
		08/05	LBM Advantages & disadvantages
	2nd	10/05	PAM Advantages & disadvantages
		11/05	EBM Advantages & disadvantages
		12/05	LBM Advantages & disadvantages

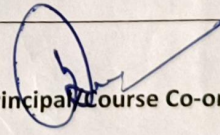
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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
		13/05	EDM Process parameter Advantages & disadvantages,
	3rd	15/05	CBM Equipments detail advantages & disadvantages
		18/05	ABM Parameters Advantages & disadvantages
		19/05	Manufacturing - wire cut details
		20/05	<u>4.1</u> Concept of SPM - Applications.

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
	4th	24/05	SPM process details
		25/05	productivity improvements
		26/05	Improvement by SPM - design
		27/05	- Requirements to improve SPM - Advantages - Disadvantages.

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
June		31/05	productivity Management by SPM
June	1st	01/06	General elements of SPM
		02/06	<u>5.0</u> Maintenance of M/c tools - Repair cycle Analysis - Repair cycle preparation
		03/06	TPM (Total productive Maintenance) - Preventive - Schedule

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
	2nd	02/06	Maintenance Records - Record Keeping
		03/06	- Laser maintenance
		04/06	
		05/06	
	2nd	16/06	Revision CH-01
		17/06	Revision CH-02
		21/06	Revision CH-03
		22/06	Revision CH-04

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