ARYAN SCHOOL OF ENGINEERING & TECHNOLOGY

Dicipline: Mech.	Semester: 6th	Name of the Teaching Faculty: Babita Meher	
Subject: A.M.P	No of Days/Week Class Allotted: 4	Semester From date: 13/02/23 To date 23/05/23	No.of Weeks:

WEEK	Class Day	Theory Topics
1	1st	Comparision with traditional machining
	2nd	Ultrasonic machining principle
	3rd	Description of equipments, applications
	4th	Electro- discharge machining
	5th	
2	1st	Description of equipments, out put.
	2nd	Di-electric tools, characteristics.
	3rd	Wire cut - EDM - principle.
	4th	EDM - description, applications.
	5th	
3	1st	Electro - chemical machining principle.
	2nd	ECM - description of equipments, etc.
	3rd	E.C.M - application.
	4th	Abrassive jet machining - introduction
	5th	

WEEK	Class Day	Theory Topics
4	1st	AJM – M.M.R, application
	2nd	L.B.M – principle, description of equipment.
	3rd	L.B.M – M.M.R, application
	4th	Plasma Arc machining – Introduction
	5th	
5	1st	P.A.M – principle description of equipments.
	2nd	P.A.M – MMR & application
	3rd	P.A.M – performance, characterisation
	4th	E.B.M – Intro & principle.
	5th	
6	1st	E.B.M – description of equipments, M.M.R.
	2nd	E.B.M – process, parameters, application
	3rd	Processing of plastics
	4th	Moulding processes, types.
	5th	

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WEEK	Class Day	Theory Topics
1	1st	Injection moulding, compression moulding.
	2nd	Extruding, Casting, calendering
	3rd	Fabrication methods
	4th	Sheet forming, blow moulding
	5th	
8	1st	Application of plastics
	2nd	Introduction & need of additive mnfing
	3rd	Fundamentals of additive manufacturing
	4th	A.M process chain
	5th	
9	1st	Advantages & limitation of A.M
	2nd	Commonly used terms.
	3rd	Classification of A.M process
	4th	Fundamental automated process.
	5th	

WEEK	Class Day	Theory Topics
10	1st	Application in design:-
	2nd	Aero space industry, automotive industry
	3rd	Web based rapid prototype system
	4th	Concept of flexible manfg
	5th	
11	1st	Concepts of general elements of S.P.M
	2nd	Productive improvement by S.P.M
	3rd	SPM design
	4th	Types of maintenance, repair cycle analysis
	5th	
12	1st	Introduction to total productive maintenance
	2nd	principle of T.P.M
	3rd	process of T.P.M
	4th	Revision of above topics.
	5th	Satyaharam Acharya