RGPV (DIPLOMA WING) BHOPAL

OBE CURRICULUM FOR THE COURSE

FORMAT-

Sheet No. 1/3

WING) BHOPAL		THE COURSE		J	110. 1/3	
Branch				Semester	III	
Course Code		Course Name	ADDTIVI	ES & COM	POUNI	OING
Course Outcome 1 To introd		uce the basics of polymer additives & their signif		ficance.	Teach Hrs	Marks
Learni Outcom	0	duce the basic knowledge of additiv	es.			
Conter	nts Definition	Definition of Additives, Importance of additives Classification of additives.				
Method Assessm						
Learni Outcom	0	ribe properties of Additives.				
Conter	,	Technical requirements of additives, General effect of additives on properties of plastic, Formulation of additives in different plastic materials.				
Method Assessm						
Cours Outcom	-	To understand the role of Additives used in plastic material for different applications.				
Learni Outcom	 5	different additives & their represen	ntative formula	ations.		
Conter	•]	Role of Additives as • Properties modifier :- Plasticizers, Fillers, Impact modifiers, Extenders • Processing Aids :- Thermal stabilizer, Lubricants, Solvents, Diluents				
Method Assessm						
Learni Outcom	 .	To understand the role of additives as colouring agents & anti-aging agents in plastic material.				
Conter	onts • (Role of Additives as ColouringAgents: - Pigments, Dyes, Anti-ageing Agents: - Anti-oxidants, Anti-ozonants, U.V. Stabilizer, Bactericides 				
Method Assessm	ent					
Learni Outcom	0	y the other miscellaneous additives	in plastic mate	rials.		
Conter	14a	Role of Additives as • Role of Additives as:- Blowing agents, Flame Retardants, Mould Release agent				se agent
Method Assessm						
Cours Outcom		To select suitable compounding equipments for specific application.				
Learni Outcom	0	To understand the basic of compounding.				
Conter	14a	Definition of Compounding, Need of Compounding, Effects of mixing/ Compounding parameters.				
Method Assessm						

Learning Outcome 2	To describe the constructional features & working of the compounding equipments.				
Contents	Machines for compounding (construction & working):- Two Roll mill, Ribben Blender, High speed mixers, Banbury mixer, Kneader, Dispenser, Twin screw extruder (co-rotating, counter-rotating)				
Method of Assessment					
Course Outcome 4	To acquire knowledge of compounding of PVC.				
Learning Outcome 1	To study properties of PVC &ingradients for PVC.				
Contents	Physical & chemical properties of PVC, various ingradients for PVC compounding.				
Method of Assessment					
Learning Outcome 2	To learn modification of PVC properties by compounding.				
Contents	Compounding of Rigid PVC, Compounding of semi-rigid PVC, Compounding of flexible application of PVC, Selecting compounding processes & machines, Effect of process/parameters.				
Method of Assessment					
Course Outcome 5	To impart knowledge of plastic for product application.				
Learning Outcome 1	To understand the usage of plastics in product application				
Contents	Product application in agriculture fields, Product application in packaging fields & Product application in building fields.				
Method of Assessment					
Learning Outcome 2	To study the application of plastic products.				
Contents	Product application in automotive fields, Product application in medical fields & Product application in furniture fields.				