RGPV (DIPLOMA WING) BHOPAL		,	OBE CURRICULUM FOR THE COURSE		.3	Sheet No. 1/5		
Branch		AUTOMOBILE ENG	JTOMOBILE ENGINEERING		ter	Fifth		
Course Code	504	O4 Course Name TRACTORS AND EARTHN			VIOVERS			
Course Outco	Course Outcome 1 Student will be able to explain the construction/ working/ components of the given hydraulic control system				T-L Hrs	Marks		
Learning Outcome 1		Student will be able to explain the construction / working/ components of the basic hydraulic control circuit				10		
Content	s wo	Introduction to basic hydraulic control system, purpose, construction, working and components with schematic &flow diagram and applications						
Method of Asse	ssment The	Theory exam						
Laarning Outcoma 2		Student will be able to identify the main components of the given hydraulic control system			7	10		
Content	Main components used in basic hydraulic control systems, their purpose, construction with neat sketch and working							
Method of Asse	ssment Lab	oratory exam						
Student will be able to develop simple hydraulic control circuit for the given purpose and operational conditions				7	10			
Content	s circ	Introduction to development of various types of simple logical control circuits for the given purpose and operational conditions in hydraulics mode.						
Method of Asse	ssment The	eory exam						

RGPV (DIPLOMA WING) BHOPAL		OBE CURRICULUM FOR THE COURSE		FORMAT-3		Sheet No. 2/5		
Branch		Al	AUTOMOBILE ENGINEERING		Semester		Fifth	
Course Code	5	Course Name TRACTORS AND EARTHN			VIOVERS			
Course Outcome 2 work		workin	ent will be able to explain the construction / ing /systems / components / specifications of the tractor			T-L Hrs	Marks	
Learning Outcome 1		Student will be able to classify the various tractors on basis of their use / technology adopted/ special features					15	
Contents		Introduction, development, purpose, applications and classifications of tractor on the basis of various features.						
Method of Assessment		Paper-pen test						
Learning Outcome 2 w		workin	Student will be able to explain the construction / working/ systems / components / specifications of the basic tractor			7	10	
Contents		Working of various systems of basic tractor with layout. Main components and their functions. Technical specifications of basic tractor.						
Method of Assessment	•	Theory exam						
Learning Outcome 3		nt will be able to identify various system / onents of the given tractor		7	10			
Contents		Demonstration of various system and components of a tractor						
Method of Assessment		Laboratory exam						

RGPV (DIPLOMA WING) BHOPAL			OBE CURRICULUM FOR THE COURSE		т.3	Sheet No. 3/5
Branch Al		AUTOMOBILE ENG	UTOMOBILE ENGINEERING		ster	Fifth
Course Code	504	4 Course Name TRACTORS AND EARTH				ERS
Course Outcome 3 wo		Student will be able to explain the construction / working/ components of the special purpose systems of the given tractor			T-L Hrs	Marks
Learning Outco	ome 1 wor	Student will be able to explain construction/ working / main components of the transmission system / power take off unit / hydraulic control system / ballasting of the given tractor			13	20
Contents	box	•	he transmission system, e off (PTO) unit, ballastir	•	•	•
Method of Asses	sment The	ory exam				
Learning Outcome 2		Student will be able to identify the various components of the transmission system / power take off unit / hydraulic control system of the given tractor			8	10
Contents	layo	Demonstration of the transmission system, gear shift pattern, gear box layout, power take off (PTO) unit, wheel, and braking and hydraulic control system.				
Method of Assessment Laboraory exam						

RGPV (DIPLOMA WING) BHOPAL		OBE CURRICULUM FOR THE COURSE		FORMAT-3		Sheet No. 4/5
Branch		AUTOMOBILE ENGINEERING		Semester		Fifth
Course Code	504	Course Name	TRACTORS AI	TRACTORS AND EARTHMOVERS		
Course Outcome	4 work	ent will be able to explain the construction / ing / systems / main components / fications of the given earthmover			T-L Hrs	Marks
Learning Outcome 1 e		Student will be able to classify different earthmovers on basis of their application/technology used / special features			10	15
Contents Introduction, purpose, applications and classifications on the basis of various features.					of earth	imovers
Method of Assessm	ment Paper-pen test					
Learning Outcome 2 /wor		udent will be able to explain the construction orking / main components/ specifications of the oen power shovel/ backhoe / bulldozer		7	10	
Contents		Main components and their functions of power shovel, backhoe and bulldozer with labelled diagram.				
Method of Assessm	ent Theo	Theory exam				
Learning Outcom	_ ? │	ent will be able to identify various system / ponents of the given tractor		7	10	
Contents		Demonstration of various system and their components of power shovel, backhoe and bulldozer				wer
Method of Assessm	nent Laboratory Test by Observation					

RGPV (DIPLOMA WING) BHOPAL		OBE CURRICULUM FOR THE COURSE		FORMAT-3		heet 5. 5/5		
Branch		AU	AUTOMOBILE ENGINEERING Semester			Fifth		
Course Code	50)4	4 Course Name TRACTORS AND EARTH			HMOVERS		
Course Outco	Course Outcome 5 Student will be able to explain the construction / working / components / specifications of special purpose systems used on the earthmovers			T-L Hrs	Marks			
Learning Outcome 1		Student will be able to explain the construction / working / components / specifications of special purpose systems (three systems) used on the earthmovers			8	10		
			se systems used ir	components and sp n power shovel, ba		-		
Method of Assessment Theory exam								
Learning Outcome 2			identify the compo ystem used in eart		7	10		
Contents		Demonstration of special purpose systems and their components of power shovel, backhoe and bulldozer						
Method of Asses	sment	Laboratory Test by Observation						