RGPV (D	IPLOI BHOP		NG)	OBE CURRIC THE CO	CULUM FOR DURSE	FORMA	. т- З		Sheet No. 1/5
Branch		Α	UTON		RING	Semester		Four	rth
Course C	Code	403	3	Course Name	Vehic	le Body Engi	neer	ing	
Course	Outco	me 1		lent will be able t y and design.	to explain differ	ent types of	car	T-L Hrs	Marks
Learning	Outco	ome 1	/con	lent will be ab nstruction /compo ropriate sketches.	-	-	•	08	05
Cor	ntents		regu com stud	oduction to Car boo lations, driver's v ponents* of car b y of different type rding construction	isibility, car bod body regarding l es of doors and	y construction ocation, purp window actu	n, st ose,	udy o [.] const	f major ruction,
Method o	f Asse	ssment	Раре	er pen test					
Learning	Outco	ome 2	imp	lent will be able to rove the visibility, n car.			the	07	05
Cor	ntents		impr Cone	pility and space roving visibility an cept, working prin ral lock	d space in cars.	Safety requ	ireme	ents fo	or cars.
Method o	f Asse	ssment	Раре	er pen test					
Learning	Outco	ome 3		lent will be able to ponents of car boo	-	panels and		10	20
Cor	ntents		Low Pane Whe	itification of Bump er Door skin, Rock el, Wheel House, I eel tub, Tailgate struction/location	er Panel, Cab co Lower Rear Beds , Front and I	rner, Lower fi ide, Header I Rear Quarte	ront Panel r Pa	Bedsid I, Root anel t	le, Rear f Panel, through
	thod o ssmei			, pratory test by obse	ervation				

RGPV (I	DIPLON BHOP	1A WING) Al	OBE CURRICULUM FOR THE COURSE	FORM	иат-3	She No	eet . 2/5
Branch		AUTON	OBILE ENGINEERING	Semester	I	Fourtl	า
Course	Code	403	Course Name Ver	nicle Body E	ngineeri	ng	
Cours	e Outco	me 2 ir	tudent will be able to explain nportance of aerodynamics and ody design.			T-L Hrs	Marks
Learnii	ng Outc	ome 1	tudent will be able to apply princip n minimizing the air resistance for t			07	05
C	Contents	s d	erodynamics, principles of aerody rag on vehicle, types of air drags an cting on vehicle body.	-	•		-
Method	of Asse	ssment P	aper-pen test				
Learnii	ng Outc		tudent will be able to apply princip ar body interior space for maximu	•		08	05
		а	nd passengers				
C	Contents	E p d	nd passengers rgonomics, principles of ergonomic osition, leg room, head clearance, iscomfort, reach and limitation of h isual obstruction	, lateral clea	rance, sit	tting c	:omfort/

	(DIPLON BHOP	/IA WING) AL	OBE CURR THE (ICULUM F	OR	FOF	RMAT- З	She No	eet . 3/5
Branch		ΑυτοΜά	DBILE ENGINEERII	NG	Semes	ster	Fo	ourth	
Course	Code	403	Course Name	V	ehicle B	ody	Engineeri	ng	
Course	e Outcon	ne 3	dent will be able t y and design	o explain the	differen	t typ	es of bus	T-L Hrs	Marks
Learnin	ng Outco	me 1 con	dent will be ab struction / comp ropriate sketches.	onents of bu			••	08	05
C	ontents	regu	oduction to bus bo ulations, engine lo		· ·	exit, s		-	
		loca	y construction, stu ition, purpose, con construction	udy of major of struction, type	•				
Method	of Asses	loca skin	tion, purpose, con		•				• •
	of Asses	sment Pap	tion, purpose, con construction	struction, type	es of me	tal se	ctions use		
Learnin		sment Pap me 2 Ider fund asse	ition, purpose, con construction er pen test dent will be able t	o identify variation, type o identify variation ody. ous panels / nt features for ing, Bumper, S	ious par compc bus boo Side swi	tal se nels a onent dy su ng, V	nd s with th ch as Doo Vind shield	d and 10 neir lo or glas	20 cation, ss, door

RGPV (DI B	IPLOMA BHOPAL	-	OBE CURRICULUM F THE COURSE	OR	FORMA	т- З	She No	eet . 4/5
Branch		AUTO	MOBILE ENGINEERING		Semester	F	ourt	n
Course Co	ode	403	Course Name Vehicle	Body	Engineering			
Course Ou	tcome 4	k	udent will be able to select ap ven car body component.	propri	iate material	for the	T-L Hrs	Marks
Learning C)utcome	e 1 ai	udent will be able to explain nd specific uses of metallic allo sed for car body components.			•	08	05
Со	ntents	re m	ar body material requirements, egarding their important prope naterials requirements, types, mination, defrosting in glasses	rties	and uses in v	vehicle b	ody,	interior
Method o	f Assessi	ment Pa	aper pen test					
Learning C	Outcome	2 gi	udent will be able to select ap ven function/ working cor omponent / interior componen	ditior			06	05
Co	ntents	in	election of appropriate mater terior components on basis orking conditions			•	•	-
Method of	f Assessi	ment Pa	aper pen test					

RGPV (I	DIPLON BHOPA	1A WING) AL		CULUM FOR OURSE	FORM	иат-3		eet 9. 5/5
Branch		AUTO	MOBILE ENGINEEF	RING	Semester	I	Fourth	I
Course	Code	403	Course Name	Vehicle Body E	ngineering			
Course O	utcome	e 5	tudent will be able f given metallic / no				T-L Hrs	Marks
Learning	Outcor	ne 1 p	tudent will be ab rocedures for surfa n metallic and non-	ace treatment, p	ainting and	sealing	08	05
C	ontents	th	eed of car body c neory of surface tre urface treatment /p rimers / paints and	atment / painting painting / sealing	g / sealing, c	lifferent	proced	ures for
Method Learning		ne 2	aper pen test tudent will be able f given metallic / no	••			10	20
C	ontents	tr tr	lentification and eatment/painting/ eatment / painting urface treatment/pa	/ sealing, finishi	g standard	procedur	es for	surface
Method	of Asse	ssment La	aboratory test by ob	oservation				

				, SCHEN	IE FOR LEARNING	В	ranch Co	de		Course C	ode	CO Code	LO Code		Л
RGPV	/ (Diploi	ma Wi	ng) Bhoj	pal	OUTCOME	Α	0	3	4	0	3	1	1	Forma	at No. 4
COURS		Vehicle k	oody Engine	ering			1							1	
CO Des	cription	Student	will be able	to explain differen	t types of car body and de	sign.									
LO Des	cription	Student	will be able	to explain differen	t types/construction/com	ponent	s of ca	ar bo	dy v	with he	elp of	appro	opriate	e sketch	ies.
					SCHEME OF STUDY	1									
S. No.	Lear	rning Coi	ntent	Teaching – Learning Method	Description of T-L Process	Teacl Hrs.		Prac Tut H	-		LRs R	equire	ed		Remarks
1	purpose, types, din regulation visibility, o construct compone regarding construct	requirem nensiona ns, driver car body ion, stud nts* of c location ion, stud types of ictuating ms regar ion, mer	I 's y of major ar body , purpose, y of doors and	Lecture method	Teacher will explain different concepts and descriptions related to contents. He will give assignments and organize quizzes to ascertain their learning. Students will prepare assignments and attempt quizzes. Teacher will identify their weaknesses and provide necessary remedial and tutorials	06		02		e R C V L A L C C V C C	ngine Tami PR ehicle ayout .nalys ivesey PR	is- And y. oobile Anil ura. eir	_ in. / drew	Door Centr Pane skin, Cab c front Rear Hous Bedsi Pane Whee Tailga	nper, Fende panel, re post, Cow l, Lower Doo Rocker Pane corner, Lowe Bedside, Panel, Whee e, Lower Rea ide, Header l, Roof Panel el tub, ate, Front an Quarter l
	1				SCHEME OF ASSESSM	ENT	1								
S. No.	Metho Assess			Description	of Assessment		Max	imun	n M	arks	Reso	urces	Requi	red	External / Internal
1	Paper pe	en test	Two theor asked in th		to the learned content wil	l be		05	5			st pap ale	er, Ra	ting	Internal
	1			INSTRU	ICTIONS FOR THE HOD/ FA	CULTY	(IF AI	NY)							

NIL

		ama Mina	Dhanal	SCH	HEME FOR LEA	RNING	Brar	nch Code			Course	Code	CO Code	LO Code	
KGP		oma Wing)	впораі		OUTCOME		Α	0	3	2	l 0	3	1	2	Format No. 4
COURS	E NAME	Vehicle body E	Ingineering											1	
CO Des	cription	Student will be	e able to exp	lain dif	fferent types of car b	ody and des	sign.								
LO Des	cription	Student will be	e able to sug	gest va	rious methods to im	prove the vi	sibility	, avai	lable	e sp	ace a	nd saf	ety foi	the g	jiven car.
					SCHEM	E OF STUDY	, ,								
S. No.	Learni	ing Content	Teaching Learning Me		Description of T-L	Process	Teach Hrs.		Pra /Tut		•	LR	s Requ	ired	Remarks
1	requiren various r improvir and spac Safety re for cars. working basic cor	and space nents in cars, methods for ng visibility ce in cars. equirements Concept, principle and nstruction of k and central	Traditiona lecture met	al hod	Teacher will explain concepts and descrip related to contents. give assignments and quizzes to ascertain learning. Students w assignments and atte quizzes. Teacher will their weaknesses and necessary remedial a tutorials	otions He will d organize their ill prepare empt identify d provide	05		02	2	•	engir R.Tar OR Vehic and A Andro Autor Vol.5 OR	cle Bod neering nilaras cle Bod Analysi ew Live mobile - Anil (equiva	y Layo s- esey. (Engg Chhika	OR which will help the students to
					SCHEME O	F ASSESSME	INT								
S. No.	Method	of Assessment	Descri	iption o	of Assessment	Maximur Marks	n		Re	esou	irces	Requi	red		External / Interna
1	Рар	er pen test	tion related to the will be asked in the uestion paper	05						t pape eck lis			External		
				11	NSTRUCTIONS FOR T	HE HOD/ FA	CULTY	(IF AI	NY)						
						NIL									

				SCHEN	/IE FOR	LEARN	ING	Br	anch Coo	e	Coι	urse Co	de	CO Code	LO Code		A
RGP	V (Diplor	ma Win	g) Bhopal		ουτςο	ME		Α	0	3	4	0	3	1	3	Format	No. 4
COURS		ehicle bo	dy Engineeri	ng													
CO Des	scription St	tudent wil	l be able to exp	olain differe	ent types of	f car bod	y and de	sign	l•								
LO Des	cription St	tudent wil	l be able to ide	entify variou	is panels a	nd comp	onents o	f cai	r bod	7.							
	I				SCH	HEME OF	STUDY										
S. No.		Learni	ng Content		Teachi Learning	-	Descrip Pr	tion oces		L Tea Hi			ract. ut Hrs		LRs Re	equired	Remarks
1	Centre post Rocker Pan Rear Panel, Header Par Front and R Constructio	ntification of Bumper, Fender, Door panel, tre post, Cowl Panel, Lower Door skin, ker Panel, Cab corner, Lower front Bedside r Panel, Wheel House, Lower Rear Bedside der Panel, Roof Panel, Wheel tub, Tailgate, nt and Rear Quarter Panel through struction/ location of these panels and ponents in the given car Body				b tration nod	Teacher demons content student Student practice the guid teacher	strat s to s. s wi e unc danc	e the the II Jer	0	8		02		engin differ comp and se assen	ent onents	NIL
					SCHEN	IE OF AS	SESSMEN	IT									
S. No.	Metho Assessi			Desc	ription of A	Assessme	ent					axim Mark			esourc equire		External / Internal
1	Assessment Laboratory test by Observation for bus and describe t					•		•	•			20			Rati scal	0	External
				INSTRU	ICTIONS FO	OR THE H	OD/ FAC	ULTY	(IF A	NY)							
Marking	scheme			Max. marks First body con Second body of	component	Location 02 02	Function 02 02	Imp	0: 0:	-	;						
				Third body co Fourth body c	•	02 02	02 02		0: 0:		_						

				SCHEN	1E FOR LEA	RNING	В	ranch Co	de	Co	ourse Co	de	CO Code	LO Code	Δ
KGPV		oma Wing) Bho	opai		OUTCOME		Α	0	3	4	0	3	2	1	Format No. 4
COURS	E NAME	Vehicle body Engi	neering				I	1			1	1	1	1	
CO Des	cription	Student will be abl	e to expl	ain the con	cepts and impo	ortance of	aerody	/nami	cs and	d erg	onor	nics i	n car	body	design.
LO Des	cription	Student will be abl	e to appl	y principles	s of aerodynam	ics in mini	mizing	the a	ir res	istan	ice fo	r the	movi	ng ca	r
					SCHEME	E OF STUD	Y								
S. No.	Lea	rning Content		ching – Ig Method	Description Process		Teach Hrs.		act. t Hrs.		LR	s Red	quired		Remarks
1	aerodyn aerodyn drag on drags an	amic devices, air vehicle, types of air d their effects, nd moments acting		cture ethod	Teacher will of lecture inside class based on his/her session Discuss the top with students, provide quiz, assignment et	the n plan. pics	05	(02	•	Babu Vehi engi R.Ta Auto	neeri ı cle B neeri milar omob	ing –A ody	gg.	If necessary teacher will suggest more video link, learning resources which will help the students to solve quiz, prepare assignments etc.
					SCHEME OF	FASSESSN	IENT								
S. No.	Metho	d of Assessment	Desci	ription of A	ssessment	Maximu Mark			Res	sourc	ces Ro	equir	ed		External / Internal
1	1 Paper-pen test the l			<i>,</i> ,	n related to will be asked	05				st pa heck	aper, list				Internal
		· · · ·		INSTRU	CTIONS FOR TH	HE HOD/ F	ACULT	Y (IF A	ANY)						
						NIL									

				SCHEME	FOR LEA	RNING	Br	anch Co	de		Course	e Code		CO Code	LO Code	Δ
KGP		oma Wing) B	nopai	οι	JTCOME	E	Α	0	3		4 (כ	3	2	2	Format No. 4
COURS	SE NAME	Vehicle body Eng	gineering					1			I				1	1
CO Des	scription	Student will be al	ole to apply	v principles of A	Aerodynam	ics and ergo	onomics	s in ca	ar bo	ody	desig	n.				
LO Des	cription	Student will be at	ole to apply	r principles of e	ergonomics	in car body	interio	r spa	ce fo	or m	naxim	um	con	nfort	of driv	ver and passengers
		·			SCHEM	IE OF STUDY	,									
S. No.		Learning Content		Teaching – Learning Method	•	tion of T-L ocess	Teach Hrs.		Pra /Tut			LR	s Re	equir	ed	Remarks
1	ergonon ergonon room, ho clearanc discomfo human,	nics, principles of nics, Automotive nics, seating positio ead clearance, late e, sitting comfort/ ort, reach and limit visual field, visual r	ral ation of	Lecture method	session p	e lecture le class n his/her olan. the topics dents, quiz,	6		2	2	•	eng Bak Veł eng R.T Aut	gine ou nicle gine ami com gg. \	e Bod ering e Bod ering ilaras ilaras iobile /ol.5- ira.	–А.К У – an.	If necessary teacher will suggest more video link, learning resources which will help the students to solve quiz, prepare assignments etc.
				1	SCHEME C	F ASSESSM	ENT									
S. No.	Metho	d of Assessment	Descr	ption of Assess	sment	Maximum	Marks			Res	sourc	es Ro	equ	ired		External / Internal
1	Pa	iper pen test	ory question re ed content will n the test pape	be asked	05				Tes	st pap	er, C	Che	ck list		Internal	
			•	INSTRUCTI	ONS FOR T	HE HOD/ FA	CULTY	(IF A	NY)							
						NIL										

				SCHEME	FOR LEARNIN	G	Br	anch Coo	le		Course Co	ode	CO Code	LO Code	Δ
KGPV		ma Wing)	Bnopai	0	UTCOME		A	0	3	4	0	3	3	1	Format No. 4
COURS	E NAME	Vehicle body E	Engineer	ing		I	!							-	I
CO Des	cription	Student will be	able to e	xplain the differ	ent types of bus boo	dy and	des	ign							
LO Des	cription	Student will be	able to e	xplain different	types / construction	n / com	npor	nents	of b	us bo	ody w	ith he	elp of	approj	oriate sketches
	· · · · · · · · · · · · · · · · · · ·				SCHEME OF ST	UDY									
S. No.	Le	arning Content	Le	Teaching – earning Method	Description of T- L Process	Teac Hrs.		Prac /Tut H			LF	Rs Re	quired	I	Remarks
1	purpose, types, di regulatic entrance dimensic construc compone regardin construc	tion to bus body , requirements, mensional ons, engine locat e and exit, seatin ons bus body tion, study of ma ents* of bus bod g location, purpo tion, types of ma used and double struction	ion, g ajor y ose, etal	Lecture method	Teacher will organize lecture inside the class based on his/her session plan. Discuss the topics with students, provide quiz, assignment etc.	06		02		e • \ • • • • •	Vehiclengine R.Tam Vehicle and A Livese Auton	eerin le Boo eerin nilara le Boo nalys ey. nobile	g –A.K dy g –	out drew ;.	*Door glass, door assembly, Pedal housing, Bumper, Side swing, Wind shield, Sun shade, Skirt panels, Wheel arch, Roof panel bays, Valance panel
					SCHEME OF ASSES	SSMEN	IT								
S. No.	Method	of Assessment		Description of	f Assessment		Max	kimun	n Ma	arks	Res	ource	es Req	uired	External / Internal
1	Рар	er pen test	ated to the learned he university question	on		05	5				Test p Checl		Internal		
			paper	INSTRUCT	FIONS FOR THE HOD)/ FACI	ULT۱	((IF A	NY)						1
					NIL										

V (DIDI E NAME cription cription	oma Wing) Bl Vehicle body Eng Student will be abl Student will be al	gineering		OUTCOMI	Ξ	Α							Format I	
cription	Student will be abl					A	0	3	4 0	3 3	3	2	TOTHAL	NU. -
•		le to explai				I	1						1	
cription	Student will be al		n differei	nt types of car bo	dy and design	l.								
		ble to ider	ntify vari	ous panels and	components	of bu	ıs boo	dy.						
	1			SCHEN	IE OF STUDY									
	Learning Conte	ent		Teaching – Learning Method	-							LRs R	equired	Remarks
vith their eatures fo ssembly, Vind shie	location, function or bus body such as Pedal housing, Bur Id, Sun shade, Ski	n and im Doorgla mper, Side irt panels,	portant ss, door e swing,	Lab demonstration method	demor conte students. practice	nts to Stude ounde	e the the ents v er the	will e	07	(03	com ar ass	iponents id sub- emblies	NIL
				SCHEME C	OF ASSESSME	NT								
Method	of Assessment		Descripti	on of Assessme	nt	Ma	aximu	um Mar	ks R	esour	ces Rec	quired	Externa	/ Internal
		bus bo	dy compo	onents and descr	ibe their			20		Rat	ting sca	le	Ext	ernal
1	'		INST	RUCTIONS FOR T	HE HOD/ FA	CULT	Y (IF /	ANY)					1	
ssment will	be done on basis of follo	owing perform	nance indic	ators:-										
				Γ	Max. marks			Location	Functi	on Ir	mportant	features]	
					1 1			02						
					1								4	
													-	
	ith their eatures for ssembly, /ind shie rch, Roof Method Labor ob	lentification of various pan ith their location, functio eatures for bus body such as ssembly, Pedal housing, Bu /ind shield, Sun shade, Sk rch, Roof panel bays, Valanc Method of Assessment Laboratory test by observation	ith their location, function and impatures for bus body such as Door glassembly, Pedal housing, Bumper, Side Vind shield, Sun shade, Skirt panels, rch, Roof panel bays, Valance panelMethod of AssessmentExaminer bus bod location	Interference <td>Learning Content Learning Method Ientification of various panels / components ith their location, function and important eatures for bus body such as Door glass, door ssembly, Pedal housing, Bumper, Side swing, /ind shield, Sun shade, Skirt panels, Wheel rch, Roof panel bays, Valance panel Lab demonstration method SCHEME C SCHEME C Method of Assessment Description of Assessment Laboratory test by observation Examiner will ask the students to ic bus body components and describies and describies and important Image: Structure of the student of the stu</td> <td>Learning ContentLearning MethodDescrip PrIentification of various panels / components ith their location, function and important batures for bus body such as Door glass, door ssembly, Pedal housing, Bumper, Side swing, /ind shield, Sun shade, Skirt panels, Wheel rch, Roof panel bays, Valance panelLab demonstration methodTead demon contend students. practice guidanceMethod of AssessmentDescription of AssessmentSCHEME OF ASSESSMEMethod of AssessmentExaminer will ask the students to identify four bus body components and describe their location, function and important featuresLaboratory test by observationExaminer will ask the students to identify four bus body components and describe their location, function and important featuresINSTRUCTIONS FOR THE HOD/ FARSement will be done on basis of following performance indicators:-Max. marks First body comp Second body comp</td> <td>Learning ContentLearning MethodDescription Processlentification of various panels / components ith their location, function and important eatures for bus body such as Door glass, door ssembly, Pedal housing, Bumper, Side swing, /ind shield, Sun shade, Skirt panels, Wheel rch, Roof panel bays, Valance panelLab demonstration methodTeacher w demonstration students. Stude practice und guidance of teMethod of AssessmentDescription of AssessmentMat MaterLaboratory test by observationExaminer will ask the students to identify four bus body components and describe their location, function and important featuresMat MaterImage: Structure of the text of text of the text of the text of the text of text of the text of text of</td> <td>Learning Content Learning Method Description of 1-1 Ientification of various panels / components ith their location, function and important eatures for bus body such as Door glass, door ssembly, Pedal housing, Bumper, Side swing, //ind shield, Sun shade, Skirt panels, Wheel rch, Roof panel bays, Valance panel Lab demonstration method Teacher will demonstrate the contents to the students. Students. Students. Students will ask the students of teacher will guidance of teacher guidance of teacher between their body components and describe their location, function and important features Maximum teatures Laboratory test by observation Examiner will ask the students to identify four bus body components and describe their location, function and important features Maximum teatures INSTRUCTIONS FOR THE HOD/ FACULTY (IF Actions are the components) Important features Maximum teatures Instructions for the top of the teacher their guidance of teacher teacher their location, function and important features Important features Instructions for the top of the teacher tea</td> <td>Learning Content Learning Method Description of 1-L Process I Initial control of the process Process Process I Initial control of the process I Process I Initial control of the process I I I I Initial control of the process I I I I I Initial control of the process I<!--</td--><td>Learning Content Learning Method Description of 1-L Process Teach Hrs. Ientification of various panels / components ith their location, function and important atures for bus body such as Door glass, door ssembly, Pedal housing, Bumper, Side swing, Vind shield, Sun shade, Skirt panels, Wheel rch, Roof panel bays, Valance panel Lab demonstration method Teacher will demonstrate the contents to the students. Students will practice under the guidance of teacher. 07 Method of Assessment Description of Assessment Maximum Marks Ref 20 Ref 20 Laboratory test by observation Examiner will ask the students to identify four bus body components and describe their location, function and important features 20 1 Image: Struction of Assessment will be done on basis of following performance indicators:- Image: Struction Second body component 20 2 Image: Struction of Assessment will be done on basis of following performance indicators:- Image: Struction Second body component 1 2</td><td>Learning ContentLearning MethodDescription of 1-L ProcessTeach Hrs.Pr TuIt their location of various panels / components ith their location, function and important batures for bus body such as Door glass, door ssembly, Pedal housing, Bumper, Side swing, /ind shield, Sun shade, Skirt panels, Wheel rch, Roof panel bays, Valance panelLab demonstration methodTeacher will demonstrate the contents to the students. Students will practice under the guidance of teacher.07Iteach Hrs.<!--</td--><td>Learning ContentLearning MethodDescription of 1-L Processleach Hrs.Pract. /Tut Hrs.Identification of various panels / components ith their location, function and important batures for bus body such as Door glass, door ssembly, Pedal housing, Bumper, Side swing, /ind shield, Sun shade, Skirt panels, Wheel rch, Roof panel bays, Valance panelLab demonstration methodTeacher will demonstrate the contents to the students. Students will practice under the guidance of teacher.0703Method of AssessmentDescription of AssessmentMaximum MarksResources RecLaboratory test by observationExaminer will ask the students to identify four bus body components and describe their location, function and important features20Rating scaLaboratory test by observationExaminer will ask the students to identify four bus body components and describe their location, function and important features20Rating scaINSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)Second body component location do yo qui dui location do yo qui dui location do yo qui dui0202INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)Important First body component location do yo qui dui locationImportant First body component locationImportant locationIndication location020200Indication location020200Indication location020200Indication location020200Indication location020200Indication loc</br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></td><td>Learning ContentLearning MethodDescription of ri-L Processleach Hrs.Pract. /Tut Hrs.LRs RIentification of various panels / components ith their location, function and important ratures for bus body such as Door glass, door ssembly, Pedal housing, Bumper, Side swing, /find shield, Sun shade, Skirt panels, WheelLab demonstration methodTeacher will demonstrate the contents to the students. Students will practice under the guidance of teacher.0703• di com ar ass of BMethod of AssessmentDescription of AssessmentMaximum MarksResources RequiredLaboratory test by observationExaminer will ask the students to identify four bus body components and describe their location, function and important featuresMaximum MarksResources RequiredLaboratory test by observationExaminer will ask the students to identify four bus body components and describe their location, function and important features20Rating scaleINSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)State is dide to monoment is body componentAddition important featuresInstruction important featuresInstruction important featuresInstruction of AssessmentInstruction of AssessmentMethod of AssessmentDescription of AssessmentLaboratory test by observationExaminer will ask the students to identify four bus body component and important features20INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)Intert i</td><td>Learning ContentLearning MethodDescription of 1-L Processleach Hrs.Pract. /Tut Hrs.LRs Requiredlentification of various panels / components ith their location, function and important eatures for bus body such as Door glass, door ssembly, Pedal housing, Bumper, Side swing, ind shield, Sun shade, Skirt panels, WheelLab demonstration methodTeacher will demonstrate the students. 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		I	SCHEME FOR LEARNING			E	Branch Co	de	Course Code			CO Code	LO Code	Л		
RGPV (Diploma Wing) Bhopal			opai	C	Α	0	3	4 0 3 4				1	Format No. 4			
COURS	E NAME	Vehicle Body Engi	1			1						1				
CO Des	cription	Student will be ab	le to sele	ct appropriate	e material for	the give	n car b	ody co	omp	onent	t.					
LO Des	cription	Student will be ab car body compone	•	ain the impor	tant propert	ies and sp	ecific (uses o	f me	tallic	alloy	s / no	on-me	tallic n	naterials used for	
		·			SCHEME		γ									
S. No.	Learning Content			ng –Learning ⁄lethod	Description L Proces		each Irs.				LR	s Req	uired		Remarks	
1	Car body material requirements, study of steel sheet, plastics, GRP, CRP regarding their important properties and uses in vehicle body, interior materials requirements, types, applications, Glasses, their types, glass lamination, defrosting in glasses			.ecture nethod	Teacher will organize lecture inside the class based on his/her session plan. Discuss the topics with students, provide quiz, assignment etc.		06	02		 Vehicle Body Engineering –A.K B Vehicle Body Engineering – R.Tamilarasan Automobile Eng Vol.5- Anil Chhika 			g –A.K e Body ering - arasai bile En	Babu / - n. gg.	If necessary teacher will suggest more video link, learnin resources which will help the students to solv quiz, prepare assignments etc	
					SCHEME OF	ASSESSI	/ENT									
S. No.	Metho	od of Assessment	Desc	essment	nent Maximu Marks			R	esour	ces R	equir	ed		External / Internal		
1	Paper pe	en test	t Two theory questions r the learned content wi in the test paper							est p Checl	•			Internal		
				INSTRUCT	IONS FOR TH	IE HOD/ F		[Y (IF /	ANY)							

NIL

				SCHEME FOR LEARNING			Br	anch Coc	le	Co	urse C	ode	CO Code	LO Code		
KGP		oma Wing) E	snopai	OUTCOME				0	3	4 0 3		4	2	Format No. 4		
COURS	SE NAME	Vehicle Body En	gineering			I			II					1		
CO Des	scription	Student will be	able to sele	ect appro	priate material for the gi	ven ca	r bo	ody co	mpor	nent.						
LO Des	scription	Student will be a interior compon		ect appro	priate material for the gi	ven fu	ncti	on/ w	orkin	g coi	nditi	on of	f a car	body	component /	
					SCHEME OF ST	UDY										
S. No.	Learning Content		Teach Learning	-	-			Pract. Hrs		LRs Required					Remarks	
1	Selection of appropriate materials for the car body components / interior components on basis of given component function and its working conditions		Traditional lecture method Traditional lecture method Traditional lecture method Traditional lecture method Traditional lecture inside the class based on his/her session plan. Discuss the topics with students, provide quiz, assignment etc.			02	02 04				ginee Ve eng R.Ta Aut	ering hicle ginee amila omol	Body –A.K E Body ring – irasan bile En I Chhil	gg.	If necessary teache will suggest more video link, learning resources which wi help the students t solve quiz, prepare assignments etc.	
					SCHEME OF ASSES	SSMEN	Т									
S. No.	Method of Assessment Description		Descriptic	on of Assessment		Maximum Ma			s F	Reso	urces Required			External / Internal		
1	Рар	Paper pen test the ability to select mate which could be solve			on will be framed to asse material in the given cas solved by the student in rox. 08 min		05			Test paper, rating scale					Internal	
				INST	RUCTIONS FOR THE HOD)/ FACL	JLT	Y (IF A	NY)							
					NIL											

		SC	SCHEME FOR LEARNING			В	Cou	rse Co	de	CO Code	LO Code	Л					
RGPV (Diploma Wing) Bhopal			OUTCOME					0	3	4	0	3	5	1	Format No. 4		
COU	RSE NAME	Vehicle body Engin	eering			I		11	I	I		1		L			
CO D	escription	Student will be abl	e to treat, pai	nt and	seal the surface of gi	ven m	netal	lic / no	on-me	etallio	: cai	[,] bod	y com	ponen	t		
LO Description Student will be able to metallic car body com			•	heory a	and general procedure	es for	surf	ace tre	atme	nt, p	aint	ing a	ind sea	aling o	n metallic and non-		
		·			SCHEME OF ST	UDY											
S. No.	Learning Content		Teaching Learning M	-	Description of T-L Process	Teac Hrs				LRs Required					Remarks		
1	Need of car body component surface treatment / painting / sealing, theory of surface treatment / painting / sealing,		ent ng / ling, Lecture method		Teacher will organize lecture inside the class based on his/her session plan. Discuss the topics with students, provide quiz, assignment etc.			02		 Vehicle Body engineering –A.K Bal Vehicle Body engineering – R.Tamilarasan. Vehicle Body Layout a Analysis- Andrew Livesey. Automobile Engg. Vo Anil Chhikara. 					will help the students to solve		
					SCHEME OF ASSES	SSME	NT										
S. No	No. Method of Assessment		Desc	Description of Assessment			Maximum Ma			arks Resource			es Req	uired	External / Internal		
1	1 Paper pen test		Two theory questions related to the lea content will be asked in the test pap				d 05)5			[.] est pa Check	Internal			
	·	· · · · · · · · · · · · · · · · · · ·	11	NSTRU	CTIONS FOR THE HOD)/ FAC	CULT	Y (IF AI	NY)								
					NIL												

		SCHEME FOR LEARNING			Branch Code Course C					CO Code	LO Code		A	
RGPV (Diploma Wing) Bhopal			Ουτοο	Α	0	3	3 4	0	3	5	2	Format No. 4		
COUF	SE NAME	Vehicle body Engineering											1	
CO De	escription	Student will be able to trea	t, paint and seal the su	urface of giver	n meta	llic / no	on	-meta	llic ca	r bod	y com	poner	nt	
LO De	escription	Student will be able to trea	t, paint and seal the su	urface of giver	n meta	llic / no	on	-meta	llic ca	r bod	y com	poner	nt	
			SCH	EME OF STUD	Υ									
S. No		Learning Content	Teaching –Learning Method	Description Process		Teach Hrs.		Pra /Tut		LRs Required			red	Remarks
1	car body treatmen applying surface to sealing, f safety wh	tion and preparation of component surface for t/painting/ sealing, standard procedures for reatment / painting / inishing, housekeeping and hile surface t/painting/ sealing	Lab demonstration method	Teacher will demonstrate contents to t students. Students will practice unde the guidance teacher.	he er	06		04	1	different components and sub-assemblies of car body components, tools and equipments for surface treatment/ painting/ sealing, raw materials/ consumables, safety devices				NIL
			SCHEM	E OF ASSESSN	IENT	1								
S. No	Method of Assessmen	Description of	Maximum Marks				Reso		External Internal					
1	Laboratory test by observation	body part surface for pa	20	body treatr	Ferent components and sub-assemblies of car by components, tools and equipments for surface atment/ painting/ sealing, raw materials nsumables, safety devices, Rating scale							External		
			INSTRUCTIONS FO	R THE HOD/ F	ACULT	Y (IF A	NY	()						
The a	ssessment v	vill be done on basis of follo	wing performance ind	licators:-										
	1. Quality	of task planning (4)												

- 2. Extent to which standard procedure followed (4)
- 3. Extent to which tools used in appropriate ways (4)
- 4. Extent of housekeeping during completion of task (4)
- 5. Extent of safety precautions taken during the work (4)