				SCHE	ME FOR LEAR	NING	Ві	ranch Coc	le		Course Co	ode	CO Code	LO Code	л
RGP	v (Dipi	oma Wing ) E	snopai		OUTCOME		Α	0	3	4	0	2	1	1	Format No. <b>4</b>
COURS	E NAME	AUTO CHASSIS –	II			I			1					1	1
CO Des	cription	Student will be al	ole to expla	in theor	y, construction and	compone	nts a	about	giveı	n fro	ont ax	e /St	eering	; Syste	em
O Des	cription	Student will be al labeled line diagr	•	in theor	y/construction/com	ponents/	worl	king o	f fro	nt a	xle & f	front	whee	geon	netry with help of a
	I				SCHEME O	F STUDY									
S. No.	Lear	ning Content	Teach Learning	-	Description of T-L Process	Teach Hrs.		Pract. 'ut Hrs	5.		LRs	Requ	uired		Remarks
1	functions loads on construc types of direction wheel ge camber,	front axle, s of front axle, front axle, tion details, front axle, nal stability, front cometry: castor, king pin on, toe-in, and	Lecti meth		Teacher will organize lecture inside the class based on his/her session plan. Discuss the topics with students, provide quiz, assignment etc.	5		2	•	R Si D W "/ M	.B.Gup atyaPr elhi V.H. Cr Autom nechar	ota rakasl rouse notive nics", w-Hill	e Tata Publis	2 9 W	If necessary teacher will suggest more video link, learnin resources which will help the students to solve quiz, prepare assignments etc.
					SCHEME OF A	SSESSME	NT								
5. No.	Metho	d of Assessment	Descr	iption of	Assessment	Maximum Marks	ו		Re	sou	rces R	equir	ed		External / Internal
1	T	heory exam		ontent wil	ns related to the I be asked in the paper	10			Ques Chec		paper t	,			External
				INSTR	UCTIONS FOR THE	HOD/ FAC	ULT	Y (IF A	NY)						
					NIL										

				SCHEME FOR I	LEARNING	В	ranch Cod	e	C	ourse Co	ode	CO Code	LO Code	Δ
KGP		oma Wing)	впораі	Ουτςο	ME	Α	0	3	4	0	2	1	2	Format No. <b>4</b>
COURS	E NAME	AUTO CHASSIS -	- 11		·			I		-				
CO Des	cription	Student will be	able to expla	ain theory, construction	on and compone	nts a	about	given	fror	nt axl	e / S	teering	g Syste	m
LO Des	cription	Student will be diagram	able to expla	ain theory /constructi	on / working / co	omp	onent	s of Si	teer	ing S	ysten	n with	help o	f a labeled line
				SCH	IEME OF STUDY									
S. No.		Learning Conte	nt	Teaching -Learning Method	Description of T-L Process		Teach Hrs.		ract ut Hi		LR	s Requ	uired	Remarks
1	steering, s and Davis working a system, c linkages, boxes, wh steering, a	ns for true rolling, or steering geometry, s steering system, or and components of onstructional detai different types of s neel wobble, collap and power assisted e steering system	Ackermann construction, f car steering ls of steering steering gear psible	Lecture method	Teacher will organize lecture inside the class based on his/her session plan. Discuss the topics with students, provide quiz, assignment etc.		07		03		V Ki pu • Au	ol.1 by ripal St ublishe Del tomobi y R.B.C	ile Engg Gupta, kashan,	teacher will suggest more video link, learning resource which will help the students to solve quiz.
				SCHEM	IE OF ASSESSMEN	IT								
S. No.	Method	of Assessment		Description of Assess	ment		Maxir Mar			Resc	ource	s Requ	uired	External / Internal
1	Рар	oer pen test		question related to the d in the test paper	learned content		10	)				Test pa Check l		Internal
			·	INSTRUCTIONS FO	R THE HOD/ FAC	ULT	Y (IF A	NY)						
					NIL									

			hanal	SCHE	ME FOR	LEARNI	NG	Ві	ranch Coo	le	Co	ourse C	ode	CO Code	LO Code	Λ
KGP		oma Wing ) B	nopai		Ουτο	OME		Α	0	3	4	0	2	1	3	Format No. <b>4</b>
COURS	E NAME	AUTO CHASSIS –	II				I									1
CO Des	cription	Student will be a	ble to exp	lain theory	, constructi	ion and con	nponents	s abo	out gi	ven f	ront	axle	/Stee	ering S	ystem	1
LO Des	cription	Student will be a	ble to ider	ntify variou	is compone	nts of give	n front ax	de /	steer	ing sy	/sten	ו				
		I			SC	CHEME OF S	TUDY									
S. No.	Leai	rning Content		hing – g Method	-	ion of T-L cess	Teach Hrs.		Pract Tut Hi		I	.Rs F	Requi	red		Remarks
1	compon	of locations, ctional features nctions of various ents of front axles g systems	demon	ab Istration thod	•	will ate the to the Students tice under dance of	05		02		wc dis axl sys cor	rkin asse e an tem mpo	d ste	dels, d fron ering erent and	t vi re ho	necessary teacher ill suggest more deo link, learning esources which will elp the students to olve quiz, prepare ssignments etc.
					SCHE	ME OF ASS	ESSMENT	Γ		I						
S. No.	Method	l of Assessment	Descrip	tion of Ass	essment	Maximur	n Marks			Res	ourc	es Ro	equir	ed		External / Interna
1		ratory test by		will ask the onents in p on		10	)	dis sys		nbled diffe	fron rent	t axl com	e and pone	dels, l steeri nts and	•	External
		·		INST		OR THE HO	D/ FACU	LTY	(IF Al	IY)						
The ass	essment w	vill be done on basis	of followir	ng performa	ance indicato	ors:-										
		dentification of first	-					-		3- Co	orrect	ness	of ide	entifica	tion of	third component
I- Corre	ctness of i	dentification of four	rth compon	ent 5- Corre	ectness of ide	entification of	of fifth cor	mpoi	nent							

				SCHEN	IE FOR LEA	RNING	В	ranch Coc	le	0	Course C	ode	CO Code	LO Code		л
KGP	v (Dipi	oma Wing ) B	nopai		ουτςομε		Α	0	3	4	0	2	2	1	Form	nat No. <b>4</b>
COURS	E NAME	AUTO CHASSIS – I	l	1				1	1	I						
CO Des	cription	Student will be ab	le to expl	ain theory,	construction a	nd compone	ents o	of the	veł	nicle s	usper	nsion	syster	n		
LO Des	cription	Student will be ab	le to expl	ain theory,	construction a	nd compon	ents	of giv	en	suspe	nsion	l syst	em wi	th hel	p of li	ne diagram
		1			SCHEME	OF STUDY										
S. No.	Lea	arning Content		ching – ng Method	Description	of T-L Proce	ess	Teac Hrs	-	Pra /Tut			LRs Re	equire	d	Remarks
1	various e suspensio and cons and leaf comparis deflectio energy st	of suspension, elements of on system, theory struction of helical springs, their son and uses, spring n, spring stiffness, tored, principle and tion of torsion bar tabilizers		onal Lecture ethod	Teacher will ex concepts and o related to cont assignments ar quizzes to asce learning. Stude assignments ar quizzes. Teach their weakness necessary rem tutorials	lescriptions ents. He will nd organize ertain their ents will prep nd attempt er will identif ses and provi	give bare fy	06		0	2	•	Autom Vol.1 b Kripal, publish Vehicle system electro dampe kashen Publica Springe	y Singh Standa ers N.I suspe and magne rs by n, Naga tion	n Delhi nsion etic	If necessary teacher will suggest video link, learning resources which will help the students to solve quiz, prepare assignments etc.
					SCHEME OF	ASSESSME	NT									
S. No.	Metho	od of Assessment	Desci	ription of As	ssessment	Maximun Marks	n		R	lesour	ces R	equii	red		Exte	ernal / Interna
1	Т	heory exam			s related to the be asked in the aper	10				Questi Check	•	per,				External
				INSTRU	CTIONS FOR TH	IE HOD/ FA	CULT	Y (IF A	NY	)						
						NIL										

<b>D</b> (				SCHEME	FOR LEARNING		Branch Co	ode	C	ourse Code	CO Code	LO Code	Λ
KU	קוע) אין	loma Wing ) Bl	nopai	C	UTCOME	Α	0	3	4	0 3	8 2	2	Format No. <b>4</b>
cou	RSE NAME	AUTO CHASSIS – II		1							i		
CO D	escription	Student will be abl	e to expla	in theory, con	struction and componen	ts of	the su	spensio	n sy	stem			
LO D	escription	Student will be abl help of line diagrai	•	in various effe	ects of spring-suspension	on r	iding c	omfort a	and	devices	used to	neutra	lize them with
		·			SCHEME OF STUDY								
S. No.	Lea	arning Content		ing –Learning Method	Description of T-L Proc	ess	Teac h Hrs.	Pract /Tut Hrs.		LRs	s Requii	ed	Remarks
1	construction telescopic study and different tr suspension driving, bra &torque re suspension Torque tub	n, Hotchkiss drive & pe drive. Anti squate ve system, Concept		ional Lecture method	Teacher will explain contents. He will give assignments and organic quizzes to ascertain the learning. Students will prepare assignments ar attempt quizzes. Teacher will identify their weaknesses and provide necessary remedial and tutorials	ir nd er e	07	03		m Willi Tata Publi • Vehi s elec damp	utomol echanic am H C McGra shing Co Delhi cle susp ystem a ctromag ers by k Nagaraj ation : S	s by rouse, w-Hill o., New ension nd netic ashem ah	resources which will help the students to solve quiz, prepare assignments etc
					SCHEME OF ASSESSMEN	T							
S. No	. Method	d of Assessment		Description o	f Assessment	Μ	laximu	m Mark	s I	Resource	es Requ	ired	External / Internal
1	Pa	per pen test	-		ted to the learned content the test paper		1	0			Test pap Check l		Internal
	I	·		INSTRUCT	IONS FOR THE HOD/ FAC	ULTY	(IF AN	IY)					
					NIL								

	//		havel	SCHE	EME FOR LEAR	NING	6	Branch Co	de		Course Co	ode	CO Code	LO Code	
KGP	י (עוט)	oma Wing ) B	nopai		OUTCOME		Α	0	3	4	0	2	2	3	Format No. <b>4</b>
COURS	E NAME	AUTO CHASSIS –	II							I					
CO Des	cription	Student will be a	ble to exp	lain theo	ry, construction and	d comp	onents	of the	sus	pensi	on sy	stem			
LO Des	cription	Student will be a	ble to ider	ntify vario	ous components of	given S	Suspens	sion Sy	yste	m					
					SCHEME	OF STU	DY								
S. No.	Lear	rning Content	Teach Learning	0	Description of T- Process		each f Irs.	Pract. / Hrs.			LRs	Requ	ired		Remarks
1	function	ents of different of suspension	La demons metł	tration	demonstrate t		05	02		v c s c	Cut-se vorkir lisasse usper liffere ompc ub-as	ng mo emble nsion ent onent	odels, ed systen s and	ns,	If necessary teacher will suggest more video link, learning resources which will help the students to solve quiz, prepare assignments etc.
					SCHEME OF	ASSESS	MENT								
S. No.	Metho	od of Assessment	Des	cription	of Assessment	-	mum Irks		R	esour	ces R	equir	ed		External / Interna
1		oratory test by observation		ents in pi	the students five ractical	1	.0	disas diffe	sem rent	bled s	suspe onen	nsion ts and	nodels syster d sub-		External
				INST	RUCTIONS FOR THE	E HOD/	FACUL	TY (IF /	ANY	)					
1- Corre	ctness of		componen	nt 2- Corr				•		3- Cori	rectne	ess of i	dentifi	catior	n of third component

			Dhanal	SCH	EME FOR LEAR	NING	E	Branch (	Code	C	ourse Co	ode	CO Code	LO Code	
KGP		oma Wing )	впораі		OUTCOME		Α	0	3	4	0	2	3	1	Format No. <b>4</b>
COURS	SE NAME	AUTO CHASSIS	5 — II											1	I
CO Des	scription	Student will be	e able to exp	lain theo	ry, construction and	component	ts of t	he N	1echani	ical B	rake	Syst	em		
.O Des	cription	Student will be	e able to exp	plain theo	ry, construction and	Componen	t of N	lech:	anical B	srake	Syste	em v	vith he	lp of li	ne diagram
		1			SCHEME (	OF STUDY									
S. No.	Learn	ing Content	– Teaching Meth	-	Description of T-I	. Process	Teac Hrs		Pract. /Tut Hr		l	LRs F	Require	ed	Remarks
1	Classifica service & brake, th construct drum bra mechanic actuating	eory and tion of disc & akes, cal brake	Traditiona meth		Teacher will explain concepts. He will gi assignments and or quizzes to ascertain learning. Students of prepare assignmen attempt quizzes. Te identify their weak and provide necess remedial and tutor	ve ganize h their will ts and eacher will nesses ary	06		03	•	Vol Sta Ne <sup>r</sup> Auto Mec H Cr	l.1 by ndai w-De omot hani ouse iraw ishir	tive cs by V e, Tata	, Kripa ishers Villiam	If necessary teacher will suggest video link, learning resources which will help the students to solve quiz, prepare assignments etc.
					SCHEME OF	SSESSMEN	Т								
S. No.	Metho	d of Assessmen	t De	scription	of Assessment	Maximun Marks	ו		Res	ource	es Re	quir	ed		External / Internal
1	т	heory exam	learned	d content v	tions related to the will be asked in the uestion paper	10					estio Chec	•	•		External
	·			INST	RUCTIONS FOR THE	HOD/ FACU	JLTY (	IF AI	NY)						
					Ν	IL									

					SCHEME FOR LEARN	ING	Br	anch Co	ode	C	ourse Co	de	CO Code	LO Code	
RGP	v (Dipl	oma Wir	ng ) Bhop	al	OUTCOME		1	0	3	4	0	2	3	2	Format No. <b>4</b>
COURS	SE NAME	AUTO CHA	SSIS – II	I		I					1	1	1	1	
CO De	scription	Student w	ill be able to	explain	theory, construction and co	mponents	of th	e M	echani	cal B	ake S	Syste	m		
LO Des	scription	Student w	ill be able to	explain	the difference, merits and	d limitatio	ns o	f th	e giveı	n Bra	ke sy	sten	า		
					SCHEME OF S	STUDY									
S. No.	Learnin	g Content	Teachi Learning N	-	Description of T-L Pro	ocess	Tea Hi	ach rs.	Prac /Tut		LR	s Red	quired		Remarks
1	Comparis between Drum bra merits ar limitation Mechania actuating	Disc & akes, nd ns of cal brake	Traditio Lectu meth	ire	Teacher will explain different concepts. He will give assign and organize quizzes to asc their learning. Students will assignments and attempt q Teacher will identify their weaknesses and provide ne remedial and tutorials	nments ertain I prepare uizzes.	0	3	01		Er R. Sa	utom ngg. k .B.Gu atyaP ew D	oy pta rakash	an	If necessary teacher will suggest video link learning resources which will help the students to solve quiz, prepare assignments etc.
					SCHEME OF ASS	ESSMENT									
S. No.	Metho	d of Assessi	ment	Descrip	tion of Assessment	Maximum Marks			Res	ource	es Rec	quire	d		External / Internal
1	Pa	aper pen test			questions related to the ntent will be asked in the test paper	05					Test p Checl	•			Internal
					INSTRUCTIONS FOR THE HO	D/ FACULT	Y (IF	AN	Y)						
					NIL										

		ana Mina Dh		SCHEME	FOR LEAR	NING		Branch C	Code	C	ourse Co	de	CO Code	LO Code	Л
KGP		oma Wing ) Bho	opai	0	UTCOME		Α	0	3	4	Course Code     Code       4     0     2     3       I Brake System.       LRs Required       Cut section /       Vorking Models, disassembled braking systems and components of the braking systems       Inces Required	3	Format No. <b>4</b>		
COURS	SE NAME	AUTO CHASSIS – II	I												I
CO Des	scription	Student will be able	e to exp	ain theory, cor	nstruction and	l compon	ents of t	he N	lechani	cal Bı	rake S	yste	m.		
LO Des	scription	Student will be able	e to ider	ntify various co	mponents of	the Mech	anical B	rake	System	•					
		·			SCHEME	OF STUDY	,								
S. No.	Lea	rning Content		ing –Learning Method	Descriptior Proces		Teach Hrs.		Pract. Fut Hrs.		LRs R	lequ	ired		Remarks
1	constr func compo drum bra and N	dy of locations, uctional features, tions of various onents of disc and akes, parking brakes Aechanical brake uating system		emonstration method	Teacher demonstra contents t students. St will practice the guidar teache	te the to the tudents tuder once of	04		02	k a	Vorkir disas orakin nd co of the	ng M sem g sys mpo e bra	odels, bled stems nents aking	w res he so	ecessary teacher ill suggest video link, learning ources which wil p the students to lve quiz, prepare ssignments etc.
	·				SCHEME OF	ASSESSM	ENT								
S. No.	Metho	d of Assessment	Des	cription of Ass	essment	Maxim Mark	-		Res	ource	es Rec	quire	d		External / Internal
1		oratory Test by Observation	identify	ner will ask the s five major com or arrangement component	ponents in a of variety of	10				Ratir	ng sca	le			Internal
				INSTRUCT	IONS FOR THE	HOD/ FA	CULTY		NY)						
1- Corre	ectness of i	<b>vill be done on basis o</b> f identification of first co identification of fourth	mponen	t 2- Correctnes	s of identificati				t 3- Cori	rectne	ess of i	ident	ificatio	n of th	ird component

R	GPV (D	iploma Win	g )	SCHEME F	OR LEARNING		Branch Co	de	Co	ourse Coo	le CO Code	LO Code	
	Ē	Bhopal		OU	ΤϹΟΜΕ	Α	0	3	4	0	2 4	1	Format No. <b>4</b>
COUR	SE NAME	AUTO CHASSIS	- II	1						1 1	I		
CO De	scription	Student will be	able to e	explain theory, cons	truction and compone	ents of	the Hy	draulio	: / Pn	euma	atic / Serv	o Bra	ke System
LO De	scription	Student will be of line diagram		explain theory, cons	truction and Compon	ent of	Hydrau	lic / Pr	neum	atic /	Servo B	rake S	ystem with help
					SCHEME OF STUDY	,							
S. No.	Lo	earning Content		Teaching – Learning Method	Description of T- Process	·L	Teach Hrs.		act. : Hrs.		LRs Requ	uired	Remarks
	servo bra regarding working a lining mat characteri theory of exhaust b retarders,	ydraulic, pneum ke actuating syst their construction nd components, erial, brake fluid stics, purpose ar dual brake system rakes, antilock bu Eddy current ret t magnet retard retarders.	ems on, brake nd m, raking, tarders,	Traditional Lecture method	Teacher will explain different concepts. H will give assignments organize quizzes to ascertain their learni Students will prepare assignments and atte quizzes. Teacher will identify their weakne and provide necessar remedial and tutoria	s and ng. e empt esses ry	10	C	)4	• / n V T P	Automok Engg. Vol Singh, Kr Standard publishen Delhi Automoti nechanics Villiam H Fata McGr Publishing Iew Delhi	.1 by ipal rs New ve by Crous raw-Hi Co.,	which will help the students to e, solve quiz,
					SCHEME OF ASSESSM	ENT			1				
S. No.	Method	of Assessment		Description of A	ssessment	Max	imum N	/larks	Re	sourc	es Requir	ed	External / Interna
1	Th	eory exam		ory questions related be asked in the univer	to the learned content sity question paper		20		Qı		n paper ieck list		External
				INSTRUCTIO	ONS FOR THE HOD/ FA	CULTY	(IF AN)	()				I	
					NIL								

				h a 11 c 1	SCHEME FOR LEAI	RNING	3	Branch Co	ode	C	ourse Co	de	CO Code	LO Code	
KGP	v (Dipi	ioma	Wing ) Bl	nopai	OUTCOME		Α	0	3	4	0	2	4	2	Format No. <b>4</b>
COURS	E NAME	AUTO	CHASSIS – II	'					1			11		1	
CO Des	cription	Studer	nt will be abl	le to explair	n theory, construction and	compo	nents of	the Hy	ydraul	ic / Pr	neuma	atic /S	ervo	Brak	e System
LO Dese	cription	Studer	nt will be abl	le to explaiı	n the difference, merits an	d limita	tions of	the giv	ven Bra	ake sy	stem				
	1				SCHEME C	OF STUD	Y								
S. No.	Learn Conte	•	Teaching · Met	-	Description of T-L Proc	ess	Teach Hrs.	Pra /Tut			LRs	Requir	ed		Remarks
					Teacher will explain diffe	erent				• A	utom	obile I	Engg.	. by	If necessary
1	Compa betwo hydrau Pneum servo b actuat syste	een Ilic & atic / orake ting	Traditiona met		concepts. He will give assignments and organ quizzes to ascertain th learning. Students wi prepare assignments a attempt quizzes. Teache identify their weaknesses provide necessary reme and tutorials	e nize eir ill ind r will s and	03	02	2	S • A Sy	R atyaP Autom vstem Bircl : S.Ch Comp	.B.Gup rakash Delhi notive . By Th h. Pub nand (G pany Li edition	bta an N Brak oma lishe G/L) cd; 3i	lew ing as W r &	teacher will suggest video link, learning resources whic will help the students to solve quiz, prepare assignments et
					SCHEME OF A	SSESSIV	1ENT								
5. No.	Metho	d of Ass	sessment	Descri	ption of Assessment	Maxir Ma			Re	source	es Rec	quired			External / Internal
1	Ра	iper per	ı test		y question related to the ntent will be asked in the test paper	05	5				Гest p Checl				Internal
			I		INSTRUCTIONS FOR THE	HOD/ F	ACULTY	(IF AN	Y)						
					NI	L									

Hydraulic / TUDY -L Teac	of the ' Pne	e Hydraulio	-		-	/o B	3 Format No. 4 rake System
Hydraulic / TUDY -L Teac	' Pne	•	-		-		rake System
Hydraulic / TUDY -L Teac	' Pne	•	-		-		rake System
TUDY -L Teac		umatic / S	ervo	Brak	e System.		
-L Teac							
Hrs		Pract. /Tut Hrs.		LRs R	equired		Remarks
e 06 s will he	5	02	W	/orkin disass the l syste compo the l	g Models sembled braking ems and onents of braking	, r h	f necessary teacher will suggest video link, learning esources which wil help the students to solve quiz, prepare assignments etc.
ESSMENT							
Мах	ximu	m Marks	Res	source	es Require	ed	External / Interna
	1	LO		Ratir	ng scale		External
D/ FACULTY	' (IF A	ANY)					
ation of seco	ond c	omponent	3- 0	Correc	ctness of i	den	tification of third
	s will the her. ESSMENT Mat five hent of D/ FACULTY ation of seco	e 06 s will the her. ESSMENT ESSMENT Inter of 12 D/ FACULTY (IF / ation of second of	e 06 02 s will the her. 06 02 ESSMENT ESSMENT Maximum Marks five tent of 10 D/ FACULTY (IF ANY) ation of second component	he 06 02   s will 06 02   s will 06 02   the 10 0   The second component 3- 0	he be	ne e s will the her.0602disassembled the braking systems and components of the braking systemsESSMENTMaximum MarksResources Require Rating scalefive ent of10Rating scaleD/ FACULTY (IF ANY)3- Correctness of i	ne e s will the her.0602Working Models, disassembled the braking systems and components of the braking systemsIn her herESSMENTMaximum MarksResources Requiredfive eent of10Rating scaleD/ FACULTY (IF ANY)3- Correctness of identified

RGPV (Diploma Wing ) Bhopa				SCHEME FOR LEARNING			Branch Code			Course Code			LO Code		
			впора	OUTCOME			0	3	4	0	0 2 5		1	Format No. <b>4</b>	
COURS	E NAME	AUTO CHASSIS	- 11												
CO Description Student will be able to ex				xplain theory, const	ruction and working tl	he bat	ttery ele	ectric a	and ł	nybrio	d eleo	ctric v	ehicle	s.	
LO Description Student will be able to diagram			able to e	xplain theory, const	ruction and Compone	nt of e	electric	and hy	ybrid	Elec	tric V	ehicle'	e with	help of line	
		·			SCHEME OF STUDY										
S. No.	Learning Content			Feaching –Learning Method	Description of T-L Process	-	Teach Hrs.	_		i.	LRs Required			Remarks	
	Environmental concerns with traditional vehicles, need of electric vehicles, benefits of electric vehicles, types of electric vehicles, brief history of electric vehicles, theory, construction and working of battery electric and hybrid electric vehicles*, additional infrastructure needed for transportation system based on electric vehicles		of ory of of lal	Traditional Lecture method	Teacher will explain different concepts. He will give assignments and organize quizzes ascertain their learnin Students will prepare assignments and attempt quizzes. Teac will identify their weaknesses and prov necessary remedial an tutorials	to ng. cher ide	10	03		S. Er El Ca Fr Tl	M. Ehsani, Y. Gao S. Gay and Ali Emadi, Modern Electric, Hybrid Electric, and Fuel Cell Vehicles: Fundamentals, Theory, and Design, CRC Press 2005			suggest video link, learning resources *two & four wheelers	
	1			S	CHEME OF ASSESSME	NT									
S. No.	Method	of Assessment		Description of As	on of Assessment M		Maximum Marks		s Resources Required			equir	ed E	External / Interna	
1	The	eory exam One theory questions related content will be asked in the			1			10 Qu			ion p	aper	External		
			-	INSTRUCTIO	NS FOR THE HOD/ FAC	ULTY	(IF ANY	)							
					NIL										

RGPV (Diploma Wing ) Bhopal			Dhanal	SCHEME FOR LEARNING			Branch Code			Course Code			LO Code			
			впораї	OUTCOME			0	3	4	0	2 5		2	Format No. <b>4</b>		
COURS	E NAME	AUTO CHASSIS	- 11	1					1		I		1			
CO Description Student will be able to explain			in theory	, construction and working o	of the l	batter	y elect	ric ve	ehicle	and hy	brid	electı	ric vehicle.			
LO Description Student will be able to exp				in theory	and working of different typ	oes of	hybrio	d electr	ic ve	hicle	drive tr	ains				
					SCHEME OF STUDY											
S. No.	Lea	rning Content	Teach Learning	-	Description of T-L Process		each Irs.	Pract /Tut H	-	LRs Required		ł	Remarks			
1	electric v different drive trai degree o types by Architect electric d and para	Introduction to hybrid electric vehicle drive trains, different types of hybrid drive trains, types by degree of hybridization, types by the power source, Architecture of hybrid electric drive trains, Series and parallel hybrid electric drive trains		ntroduction to hybrid electric vehicle drive trains, lifferent types of hybrid drive trains, types by legree of hybridization, ypes by the power source, architecture of hybrid electric drive trains, Series and parallel hybrid electric		itional cture ethod itional cture itional itional cture itional cture itional itional itiona		09		03		<ul> <li>Iqbal Husain, Electric and Hyb Vehicles: Design Fundamentals, C Press,</li> <li>Electric and hybrid electric vehicle: By Tom Denton publish by Routledge</li> </ul>			gn , CRC c m	RC link, learning resources which will help the students to solve quiz,
`	1				SCHEME OF ASSESSMEN	NT								·		
S. No.	Method	l of Assessment	C	Descriptio	on of Assessment	Maxi	aximum Marks		Re	<b>Resources Required</b>			Ex	External / Interna		
1	Th	eory exam	am í i		related to the learned in the question paper		10		Question pap			er		External		
				INSTR	UCTIONS FOR THE HOD/ FAC	ULTY	(IF AN	IY)								
					NIL											

				SCHEME FOR LEARNING			Branch C	ode	CO Code Code				LO Code		
RGPV (Diploma Wing ) Bhopal				OUTCOME			0	3	4 0 2 5		5	3	Format No. <b>4</b>		
COUR	SE NAME	AUTO CHASS	5IS — II				1	1							
CO Description Student will be able to e			explain theory, construction and working of the electric and hybrid electric vehicle.												
LO Description Student will be able to working, merits and lim				• •	nybrid vehicle with tr	adition	al eng	ine op	erate	d veh	icle re	gardi	ng co	onstruction,	
		·			SCHEME OF STUDY	,									
S. No.	Lea	arning Content		Teaching – Learning Method	Description of T-L Process	Teach Hrs.		act. t Hrs.	LRs Required			ed		Remarks	
1	vehicle* w operated constructi and limita of comme	parison of electric / hybrid le* with traditional engine ated vehicle regarding ruction, working, merits mitations, brief case study mmercially available 2/4 led electric hybrid vehicles		ab demonstration	Teacher will demonstrate the contents to the students. Students will practice under the guidance of teacher	03		02	M. Ehsani, Y. Gao, S. Gay and Ali Emadi, Modern Electric, Hybrid Electric, and Fuel Cell Vehicles: Fundamentals, Theory, and Design, CRC Press, 2005		s le	If necessary teacher will uggest video link earning resources two and four vheelers			
				S	CHEME OF ASSESSM	ENT							·		
S. No.	Method	of Assessment		Description of As	ssessment	ssment Maximum Marks			<b>Resources Required</b>				d E	xternal / Internal	
1	Paper per + Assessme report	n test ent of short	learne (2) Teach by stu			10			Teat paper, rating scale					Internal	
				INSTRUCTIO	NS FOR THE HOD/ FA	CULTY (	IF AN	Y)							
Criteria	for assessm	ent of short ren	ort: - 1 Ext	ent of quality in stud	y (03 marks) 2. Exten	t of qual	itv in r	enortin	g (በ2	marks	;)				