RGPV (DIPLOMA RHOPAI	WI	NG)	OBE CURRIC	ULUM FOR THE	FORMAT-3	Sheet						
Branch	AUT CEN PRC TEX	FOMOBIL MENT, DUCTIO (TILE TE)	LE, MECH, RAC, N, CIVIL,CTM,P CH	CHEMICAL,	Semester	I						
Course Code	A WING)       OBE CURRICULUM FOR THE COURSE       FORMAT-3       Sheet No. 1/3         AUTOMOBILE, MECH, RAC, CHEMICAL, CEMENT, PRODUCTION, CIVIL,CTM,RINTING and TEXTILE TECH       Semester       I         1       Describe forces, couples, moments.       Semester       I         1       Describe forces, couples, moments.       Teach Hrs       Marks         e1       Classify scalar and vector quantity.       02       05         Fundamentals: - Definitions of mechanics, statics, dynamics. Engineering mechanics, body, rigid body, mass, weight, length, time, scalar and vector, fundamental units, derived units, S.I. units.       10       10         e2       Apply the resolution of forces.       10       10       10         Force: - Definition of a force, principle of transmissibility. Resolution of a force: Definition, Method of resolution, Types of component.       10       10         ment       Internal:Laboratory test/Performance of a task –Assessment by observation       10       10         woment of a force: - Definition, measurement of moment of a force, s. I. unit, geometrical meaning of moment of a force, sls. unit, measurement of a components.       10       10         Moment of a force: - Definition, Resultant force, elassification of moment sacording to direction of rotation, sign convention, law of moments Varignon's theorem of moment and it's use, couple definition, S.I. unit, measurement of a couple, properties of couple.       10       10      <											
Course Outcome 1		Describe	forces, couples, r	noments.		Teach Hrs	Marks					
Learning Outcome	e 1	Classify	scalar and vector	quantity.		02	05					
Contents		Fundame mechanic fundame	entals: - Definition cs, body, rigid boo ntal units, derived	ns of mechanics, statics dy, mass, weight, lengt units, S.I. units.	h, dynamics. Eng h, time, scalar an	ineering d vector,						
Method of Assessm	nent	External	:Theory exam									
Learning Outcome	e 2	Apply the	e resolution of for	ces.		10	10					
Contents		Force: - I represent of a force Resolutio forces, Po	Definition of a for ation of a force by e, effects of a force on of a force: Defi erpendicular com	rce, unit force, Newton y vector and by Bow's e, principle of transmis inition, Method of reso ponents and Non-perpe	, S.I. unit of a for notation method ssibility. lution, Types of endicular compor	rce, . Characte componer nents.	eristics nt					
Method of Assessm	nent	Internal:1	Laboratory test/Pe	erformance of a task –A	Assessment by o	bservatior	1					
Learning Outcome	e 3	Determin	he the moment of	a force.		06	10					
Contents		Moment geometric direction moment propertie	of a force: - Defin cal meaning of me of rotation, sign of and it's use, coup s of couple.	oment of a force, class convention, law of mor le definition, S.I. unit,	moment of a for ification of mom nents Varignon's measurement of	ce, S. I. u ents accor s theorem a couple,	nıt, ding to of					
Method of Assessm	nent	Internal:0	Quiz									
Learning Outcome	e 4	Explain f	force system.			06	10					
Contents		Force sys line of ac Composi forces I – Analy (ii) Algel II – Grap diagram, parallel f	stem: - Definition etion tion of Forces: - I ytical method – (i) braic method (met phical method: - Ir and funicular pol force system by ar	, classification of force Definition, Resultant fo Trigonometric method thod of resolution), ntroduction, space diag ygon. Resultant of con nalytical and graphical	system accordin rce, methods of d (law of parallel ram, vector diago current, non-con method.	g to plane compositie ogram of cam, polar current an	e and on of forces) d					
Method of Assessm	nent	External:	Theory exam			<b>T</b> 1						
Course Outcome 2		Solve the	e simple equilibriu	am problems.		Teach Hrs	Marks					
Learning Outcome	e 1	Calculate	e the resultant and	equilibrium force.		06	10					
Contents Method of Assessm	nent	Definitio equilibriu concurren Lami's T solving v Equilibra concurren Internal	n, conditions of e um for concurrent nt and parallel for heorem – stateme various engineerin ont – Definition, re nt and non-concur Paper pen test	quilibrium, analytical a c, non ce system. ent and explanation, Ap g problems. elation between resulta rrent force system.	and graphical cor oplication of Lam nt and equilibrar	nditions of ni's theore nt, equilibr	em for rant of					

	1											
Learning Outcome 2	Calculate the reaction for simply supported beam.	06	10									
Contents	Beams – Definition, Types of beams (cantilever, simply supported, overhanging, fixed, continuous), Types of end supports (simple support, fixed, hinged, roller), classification of loads, point load, uniformly distributed load. Reaction's for a simply supported beam only.											
Method of Assessment	External:Theory exam											
Course Outcome 3	Determine centre of gravity, equilibrium of bodies on a plane.	Teach Hrs	Marks									
Learning Outcome 1	Determine the centroid and centre of gravity in different shapes and lamina.	08	10									
Contents	Centroid: Definition of centroid. Moment of an area about an axis, basic geometrical figures such as square, rectangle, triangle, circle quarter circle. Centroid of composite figure. Center of gravity: Definition, centre of gravity of simple solids suc sphere, hemisphere, cone, cube, and rectangular block. Centre of g composite solids	Centroic , semicirc ch as cyli gravity of	l of ele and nder,									
Method of Assessment	Internal:Laboratory test/Performance of a task -Assessment by ol	oservatior	1									
Learning Outcome 2	Determine coefficient of friction for different surface.	10	15									
Contents	Definition of friction, force of friction, limiting frictional force, confriction, angle of friction, angle of repose, relation between angle of repose and coefficient of friction. cone of friction, types of frict friction, advantages and disadvantages of friction.	friction, force of friction, limiting frictional force, coefficient of of friction, angle of repose, relation between angle of friction, angle coefficient of friction. cone of friction, types of friction, laws of ntages and disadvantages of friction. oratory test/Performance of a task –Assessment by observation										
Method of Assessment	External:Laboratory test/Performance of a task -Assessment by o	bservatio	n									
Learning Outcome 3	Calculate the equilibrium forces.	06	15									
Contents	Equilibrium of bodies on level plane-external force applied horizo up and down. Equilibrium of bodies on inclined plane-external forces is applied plane, horizontal and incline to inclined plane.	ntal and i parallel to	nclined o the									
Method of Assessment	External:Theory exam											
Course Outcome 4	Explain simple machine.	Teach Hrs	Marks									
Learning Outcome 1	Apply the principle of simple machine.	04	05									
Contents	Definitions of simple machine, compound machine, load, effort, advantage, velocity ratio, input on a machine, output of a machine machine, expression for mechanical advantage, velocity ratio and machine. Ideal machine, ideal effort and ideal load, friction in mac in friction and frictional load.	mechanic e ,efficien efficienc chines, ef	al ncy of a y of a fort lost									
Method of Assessment	Internal :Paper pen test											
Learning Outcome 2	Determine the efficiency of simple machine.	08	15									
Contents	Law of machine, maximum mechanical advantage and maximum machine, reversibility of a machine, condition for reversibility of a locking machine. Study of simple machines: Simple axle and wheel, differential axle single purchase crab, double purchase crab, simple screw jack pulleys: First, second and third system of pulleys.	ine, maximum mechanical advantage and maximum efficiency of a ersibility of a machine, condition for reversibility of a machine, self ine. ble machines: Simple axle and wheel, differential axle and wheel, se crab, double purchase crab, simple screw jack , second and third system of pulleys.										
Method of Assessment	External:Laboratory test/Performance of a task -Assessment by o	bservatio	n									
Course Outcome 5	Explain motion of particle and work, power, energy.	Teach Hrs	Marks									
Learning Outcome 1	Determine the horizontal range of projectile.	05	10									

	Motion of particle - Definition of speed, velocity, acceleration, uni	form ve	elocity,											
Contents	uniform acceleration and variable acceleration.													
Contents	Motion under constant acceleration/ retardation (equations of motion	on), Mo	otion											
	under force of gravity, Concept of relative velocity.													
Method of Assessment	External : Theory exam													
Learning Outcome 2	Determine the angular acceleration of a particle.	05	10											
	Definition of projectile, velocity of projection, angle of projection,	time of	light,											
	maximum height, horizontal range and their determination. Definit	maximum height, horizontal range and their determination. Definition of angular												
Contents	velocity, angular acceleration and angular displacement .Linear angular motion													
	analogy. Relation between linear and angular velocity of a particle moving in a													
circular path. Motion of rotation under constant angular acceleration														
Method of Assessment	Method of Assessment       External :Theory exam													
Learning Outcome 3	Determine the moment of a force.	03	05											
Contents	Laws of motion-Newton's laws of motion and their application.													
Method of Assessment	Internal :Paper pen test													
Learning Outcome 4	Establish relation between work, power and energy.	05	10											
	Work, Power and Energy- Definition unit and graphical representa	tion of	work.											
	Definition and unit of power and types of engine power and efficie	ncy of a	an											
Contents	engine. Definition	•												
	and concept of Impulse. Definition, unit and types of energies. Tot	al energ	y of a											
	body falling under gravity.		~											
Method of Assessment	External : Theory exam													

DODU	GPV (Diploma Wing ) Bho				Bra	nch C	ode	Co	urse	Code	COO	Code	LO Code	Format No.
RGPV	(Diploma W	ing ) Bhopal	SCHEME FO	R LEARNING OUTCOME	<u>-</u>	-	-				1	1	1	4
COUR	SE NAME	APPLIED M	ECHANICS					1	1	· · · ·		I		
CO Des	scription	Describe forc	es, couples, mor	nents.										
LO Des	scription	Classify scala	r and vector qua	intity.										
				SCHEME O	F STU	DY								
S. No.	]	Learning Cont	ent	Teaching –Learning Method	Desc	criptio Proc	on of T ess	Γ <b>-</b> L		Teach Hrs.	Pra	act. /Tu Hrs.	t LRs Require	d Remarks
1.	Fundamenta mechanics, Engineering mass, weigh vector, fund S.I. units.	als: - Definition statics, dynami mechanics, bo at, length, time, amental units,	s of cs. dy, rigid body, scalar and derived units,	Interactive classroom teaching, demonstration, quiz, assignments.	Teacher content handou Teacher assignn make st their kn	r will of s and j ts to st r will of nents/ cudents	explain provid tudent conduc quiz to s pract lge.	n the le s. ct o tice		02	NII	L	Handouts chalk board, PPT, text book, charts video film	n.
				SCHEME OF A	SSESS	MEN	Г							
S. No.	Method	of Assessmen	t	Description of Asses	sment					Maximu Marks	ım S	Resour	ces Required	e External / Internal
1.	The	ill be asked to identify scalar	and vec	tor qu	antity	•		05		Quest rat	tion paper + ing scale	External		
			ADDITIO	NAL INSTRUCTIONS FO	R THE	HOD	/ FAC	CUL	TY (	(IF ANY	)			
				NII	L									

DODU					Bra	nch (	Code	Co	urse	Co	de	CO Code	Ι	LO Code	Format No.
KGPV	(Diploma Win	g ) Bhopal	SCHEME FO	DR LEARNING OUTCOM	E -	-	-	6	8	0	5	1		2	4
COU	RSE NAME	APPLIED	MECHANIC	S	I				1	1				I	
CO Des	scription	Describe f	orces, couples,	moments.											
LO Des	cription	Apply the	resolution of fo	rces.											
				SCHEME (	)F STU	DY									
S. No.	Lea	arning Con	tent	Teaching –Learning Method	Des	cripti Pro	on of '	Г-L		Te E	each Irs.	Pract. // Hrs.	ſut	LRs Required	Remarks
1.	Force: - Defini Newton, S.I. u representation Bow's notation of a force, effe transmissibility Resolution of a of resolution, T Perpendicular perpendicular	ition of a for nit of a force of a force by n method. Cl cts of a forc y. a force: Defi Types of con components components	ce, unit force, e, y vector and by haracteristics e, principle of nition, Method nponent forces, and Non-	Lab demonstration, hands on practice, lab assignments, quiz, assignments,	Teache represe Bow's and res The stu through	r will ntation notation olution dents n pract	explain n of a f on met n of a f will lea ice.	n force hod force arn	2.	04		06		Handouts, chalk board, PPT, text book, charts, video film	NIL
	• •	-		SCHEME OF A	SSESS	MEN	Т								
S. No.	Method of	f Assessmen	t	Description of Asses	ssment					Max M	cimu arks	m Reso	urce	es Required	External / Internal
1.	Laborate obse	ory test by rvation	Students	will be asked to apply the reso	olution	of forc	es.				10	( sche /ratin	Dbse dule g sca	ervation e/check-list ales /rubrics	Internal
			ADDITIC	ONAL INSTRUCTIONS FO	R THE	HOD	/ FAC	UL	TY (	IF A	ANY)				
				Part of La	ab Wor	K									

DODU			COULT			Bra	nch (	Code	Co	urse	Code	CC	) Cod	e LO Co	de	Format No.
RGPV (	(Diploma Wil	ng ) Bhopal	SCHEME	FOR LEARNING OU	TCOME	-	-	-	-	-	-		1	3		4
COUR	SE NAME	APPLIED	MECHANIC	CS		1	1	· !_		1				I	I	
CO Des	cription	Describe for	rces, couples,	moments.												
LO Des	cription	Determine t	he moment o	f a force.												
				SCI	HEME OF	STU	DY									
S. No.	Le	arning Cont	ent	Teaching – Learning Method	Descri	ption	of T-I	2 Proce	ess	Te H	each Irs.	Pra /Tut	nct. Hrs.	LRs Requ	uired	Remarks
1.	1.Moment of a force: - Definition, measurement of moment of a force, S. I. unit, geometrical meaning of moment of a force, classification of moments according to direction of rotation, sign convention, law of moment and it's use, couple definition, S.I. unit, measurement of a couple, properties of couple.Interactive classroom teaching, tutorial, quiz, assignments.Teach tack teaching, to study assignments.						xplain rovide acher signm practi	the handowill ments to ce their	uts	04		02		Handout/ l manual, te book, char video film.	ab xt ts,	NIL
				SCHEM	IE OF AS	SESS	MEN	Т								
S. No.	Method o	of Assessmen	t	Description	of Assess	ment				N	/laxir Mar	num ·ks	Res	ources Req	uired	External / Internal
1.		Quiz	ve a quiz or	n learn	ing co	ontents			10	)	Ruł	prics/rating s	cales	Internal		
	·		ADDIT	IONAL INSTRUCTIO	ONS FOR	THE	HOD	/ FAC	UL	ГY (I	FAN	NY)				· · · · · · · · · · · · · · · · · · ·
					Term wo	ork										

DODU	GPV (Diploma Wing ) Bhopal SC			Bra	nch (	Code	C	Cour	se Co	ode	CO Code	LO Code	Format No.	
KGPV (	(Diploma w	ing ) Bhopai	SCHEME FOR LE	ARNING OUTCOME	E	0	1	-		-	-	1	4	4
COURS	SE NAME	APPLIED M	ECHANICS									· · ·	· · · ·	
CO Des	cription	Describe forc	es, couples, moments.											
LO Des	cription	Explain force	system.											
		1		SCHEME OF	STU	DY								
S. No.		Learning C	ontent	Teaching –Learning Method	D	escrip P	otion ( rocess	of ' s	Г-L	,	Teach Hrs.	Pract. /Tu Hrs.	t LRs Require	d Remarks
1.	Force syste force syste action Compositio force, meth I – Analytic method (lav Algebraic r II – Graphi diagram, ve funicular penon-concur analytical a	m: - Definition m according to on of Forces: - ods of compos cal method – (i w of parallelog nethod (method cal method: - I ector diagram, olygon. Resulta rent and parall and graphical m	<ul> <li>classification of plane and line of</li> <li>Definition, Resultant ition of forces</li> <li>Trigonometric ram of forces) (ii) d of resolution), ntroduction, space polar diagram, and ant of concurrent, el force system by nethod.</li> </ul>	Interactive classroom teaching, tutorial, quiz, assignments.	Tead cont hanc Tead quiz to m their	cher w ents a louts t cher w /tutori ake st know	ill exp nd pro o stud ill cor al/assi udents rledge	olai ovic lent ndu ign s pr	n the le ts. ct men ractio	e ( ts ce	06	NIL	Handouts chalk board, PPT, text book, charts, video film	, NIL
				SCHEME OF AS	SESS	MEN'	Т							
S. No.	Method	of Assessmen	t	Description of Assess	nent					Ma N	iximur Aarks	n Resour	ces Required	External / Internal
1.	Th	e asked to solve numerica	l prob	lems t	based of	on			10	Quest	ion paper + ing scale	External		
			ADDITIONAL	INSTRUCTIONS FOR	THE	HOD	/ FA(	CU	LTY	7 ( <b>IF</b>	ANY)			
				NIL										

DCDV		(in a ) <b>Dh</b> anal	SCHEME		Bra	nch C	Code	Co	urse	Code	CO Code	L	O Code	Format No.
KGPV	(Diploma w	ing) Bhopai	SCHEME	FOR LEARNING OUTCOM.	E -	-	-	-	-	-	2		1	4
COUR	SE NAME	APPLIED M	ECHANICS	5			· · ·			· · ·			· · ·	
CO Des	cription	Solve the sim	ple equilibriu	ım problems.										
LO Des	cription	Calculate the	resultant and	equilibrium force.										
		·		SCHEME (	)F STU	DY								
S. No.	L	earning Conte	ent	Teaching –Learning Method	Des	criptio Proc	on of T cess	'-L		Teach Hrs.	Pract. /T Hrs.	ut	LRs Require	d Remark
1.	Definition, analytical a equilibrium concurrent Lami's The explanation theorem for engineering Equilibrant between rea equilibrant concurrent	conditions of e and graphical co a for concurren and parallel for corem – statem n, Application of r solving variou g problems. - Definition, r sultant and equ of concurrent a force system.	equilibrium, onditions of t, non rce system. ent and of Lami's us relation ilibrant, and non-	Interactive classroom teaching, lab demonstration, tutorial, quiz, assignments.	Teache content handou Teache quiz/tu to make their kr	r will ( s and j its to s r will ( torial/a e stude nowled	explain provide tudents conduc assignn ents pra lge.	the e s. et nent actic	o s e	4	02		Handouts chalk boa PPT, text book, charts, video film	, NIL rd, 1.
	1	5		SCHEME OF A	ASSESS	MEN'	Т							I
S. No.	Method	of Assessmen	t	Description of Asse	ssment				N	/aximu Marks	m Resou	irce	s Required	External / Internal
1.	t will be asked to calculate the r or different force system.	resultant	and ed	quilibri	um		10	Test	papo sc	er + rating cale	Internal			
	·		ADDIT	IONAL INSTRUCTIONS FO	OR THE	HOD	)/ FAC	ULI	ГҮ (І	F ANY	)			·
				Part of Prog	gressive	- 1								

DODU	RGPV (Diploma W		CHENE		Bra	nch (	Code	Co	urse	Code	CO Code	I	LO Code	Format No.
RGPV	(Diploma W	ing ) Bhopal	SCHEME	FOR LEARNING OUTCOME	£	-	-	-	-	-	2		2	4
COUR	SE NAME	APPLIED M	ECHANIC	S			·						I	
CO Des	cription	Solve the sim	ple equilibri	um problems.										
LO Des	cription	Calculate the	reaction for	simply supported beam.										
				SCHEME O	)F STU	DY								
S. No.	L	earning Conto	ent	Teaching –Learning Method	Des	criptio Proo	on of T cess	Γ <b>-</b> L		Teach Hrs.	Pract. / Hrs	Tut	LRs Required	Remarks
1.	Beams – D (cantilever, overhangin Types of er support, fix classificatio uniformly o Reaction's beam only.	efinition, Type , simply support ag, fixed, contin and supports (sin ked, hinged, rol on of loads, por distributed load for a simply su	s of beams ted, nuous), nple ler), int load, l. pported	Interactive classroom teaching, quiz, assignments.	Teache content handou Teache quiz/as make st their kr	r will s and ts to s r will signm tudent	explain provid tudents conduc ents to s pract lge.	n the e s. ct ice	e (	)6	NIL		Handouts, chalk board, PPT, text book, charts, video film	NIL
				SCHEME OF A	SSESS	MEN	Т							
S. No.	Method	l of Assessmen	t	Description of Asses	ssment				I	Maximu Marks	im s Reso	ource	es Required	External / Internal
1.	Theory exam Students will be asked to solve nur content.						based o	n		10	Qı	iestic ratin	on paper + ag scale	External
			ADDI	FIONAL INSTRUCTIONS FO	R THE	HOD	/ FAC	UL'	ГΥ (.	IF ANY	<i>(</i> )			
				NII	L									

DODU			COULDAR		Bra	anch (	Code	Coi	ırse	Code	COO	Code	LO Code	Format No.
KGPV	(Diploma W	ing ) Bhopal	SCHEME	FOR LEARNING OUTCOMI	Ľ -	-	-	-	-	-	3	8	1	4
COUR	SE NAME	APPLIED M	ECHANIC	S								'	·	
CO Des	cription	Determine ce	ntre of gravit	y, equilibrium of bodies on a pla	ane.									
LO Des	cription	Determine the	e centroid an	d centre of gravity in different sh	napes ai	nd lam	ina.							
				SCHEME C	)F STU	<b>DY</b>								
S. No.	L	earning Conte	ent	Teaching –Learning Method	Des	criptio Proo	on of T· cess	-L		Teach Hrs.	Pra	act. /Tu Hrs.	t LRs Require	Remarks
1.	Image: Constraint of the section of					er will id, Cer and p its to s er will ssignm student nowlec	explain nter of rovide tudents conduct ents to es practional lge.	the t ce	0	2	06		Handouts chalk board, PPT, text book, charts, video film	, NIL
		<b>.</b>		SCHEME OF A	SSESS	SMEN	Т				I		!	
S. No.	Method	of Assessmen	t	Description of Asses	ssment				N	/laximu Marks	ım S	Resour	ces Required	External / Internal
1.	Laboratory observatior	nt will be asked to determine the in different shapes and lamina.	centroi	d and c	centre of	f		10		Ob schedu /rating s	servation le/check-list cales /rubric	Internal		
			ADDIT	TIONAL INSTRUCTIONS FO	R THE	E HOD	)/ FACI	ULI	ГҮ (І	F ANY	<i>(</i> )			
				Part of La	ab Wor	k								

DCDV	(D:) W		CHEME E		Bra	nch (	Code	C	Cours	e Code	e C	O Code	L	O Code	Format No.
KGPV	(Diploma W	ing ) Bhopal	SCHEME F	OR LEARNING OUTCOM	-	-	-	-	-	-		3		2	4
COUR	SE NAME	APPLIED M	IECHANICS											· ·	
CO Des	cription	Determine ce	ntre of gravity	, equilibrium of bodies on a pla	ine.										
LO Des	cription	Determine co	efficient of frie	ction for different surface.											
		1		SCHEME C	)F STU	DY									
S. No.	I	Learning Cont	ent	Teaching –Learning Method	Des	criptio Proo	on of T cess	Г-I	_	Teac Hrs	:h	Pract. /Tu Hrs.	ıt	LRs Required	Remarks
1.	Definition limiting fri friction, an repose, rela friction, an of friction. friction, law and disadva	of friction, force, c ctional force, c gle of friction, ation between a gle of repose a cone of friction ws of friction, a antages of frict	Interactive classroom teaching, lab demonstration, quiz, assignments.	Teache content handou Teache quiz/as make s their kr	r will s and ts to s r will signm tudent	explain provid tudent conducents to s pract lge.	n t le cs. ct b tice	he	04		06		Handouts, chalk board, PPT, text book, charts, video film	NIL	
				SCHEME OF A	SSESS	MEN	Т								
S. No.	Method	of Assessmen	t	Description of Asses	ssment					Maxin Mar	num :ks	Resour	rces	Required	External / Internal
1.	Laboratory observation	r test by 1	Student different	will be asked to determine coet	fficient	of fric	tion fo	or		15	5	Ot sched /rating	bser ule/ scal	vation check-list les /rubrics	External
			ADDITI	ONAL INSTRUCTIONS FO	R THE	HOD	)/ FAC	CU	LTY	(IF Al	NY)				
				Part of end pra	actical e	exam									

DODU			CHEME		Bra	nch C	Code	Со	urse	Code	CO Co	de	LO Code	Format No.
RGPV	(Diploma W	ing ) Bhopai	SCHEME	FOR LEARNING OUTCOME	-	-	-	-	-	-	3		3	4
COURS	SE NAME	APPLIED M	ECHANICS	5						· · ·			· · ·	
CO Des	cription	Determine cer	ntre of gravit	y, equilibrium of bodies on a pla	.ne.									
LO Des	cription	Calculate the	equilibrium f	forces.										
				SCHEME O	F STU	DY								
S. No.	L	earning Conte	ent	Teaching –Learning Method	Des	criptio Proc	on of T cess	Ր <b>-</b> L		Teach Hrs.	Prac H	t. /Tut [rs.	LRs Required	Remarks
1.       Equilibrium of bodies on level plane- external force applied horizontal and inclined up and down.       Interactive classroom teaching, lab demonstration quiz, assignments.         Equilibrium of bodies on inclined plane-external forces is applied parallel to the plane, horizontal and incline to inclined plane.       Interactive classroom						r will s and ts to s r will signme tudent	explain provid tudents conduc ents to s pract lge.	n the e s. ct tice	e 0	4	02		Handouts chalk board, PPT, text book, charts, video film	, NIL 1.
	·			SCHEME OF A	SSESS	MEN'	Т							
S. No.	Method	of Assessment	t	Description of Asses	sment				N	/laximu Marks	im S	esourc	es Required	External / Internal
1.	Theory exa	ım	Studen	ts will be asked to solve numeric t.	al prob	lems t	based c	on		15		Questie ratir	on paper + ng scale	External
			ADDIT	IONAL INSTRUCTIONS FO	R THE	HOD	/ FAC	CUL	TY (l	F ANY	)			
				NI	Ĺ									

DODV	(Dimlama W	(head) <b>Dh</b> anal	SCHEME	EME FOD I FADNING OUTCOME			Code	C	ourse	Code	le CO Code		LO Code	Format No.	
KGPV	(Diploma w	ing ) Bhopai	SCHEME	FOR LEARNING OUTCOM	E -	-	-	-	-	-	4		1	4	
COUR	SE NAME	APPLIED M	IECHANICS	5			·								
CO Des	scription	Explain simpl	le machine.												
<b>LO Description</b> Apply the principle of simple machine.															
	SCHEME OF STUDY														
S. No.	L	earning Conte	ent	Teaching –Learning Method	Des	criptic Proc	on of 7 cess	T-L	1	Teach Hrs.	Pract H	t. /Tut [rs.	LRs Required	Remarks	
1.	Definitions compound mechanica , input on a machine ,e expression , velocity r machine. Io and ideal lo effort lost i load.	s of simple mac machine, load l advantage, ve machine, outp fficiency of a n for mechanical atio and efficie deal machine, is bad, friction in in friction and f	chine, ,effort, elocity ratio out of a machine, l advantage ncy of a deal effort machines, frictional	Interactive classroom teaching, tutorial, quiz, assignments.	Teacher content handou Teacher quiz/tu to mak their kn	acher will explain the ntents and provide adouts to students. acher will conduct z/tutorial/assignments make students practice ir knowledge.				)4	NIL		Handouts, chalk board, PPT, text book, charts, video film	, NIL 1.	
				SCHEME OF A	ASSESS	SMEN	Т								
S. No.	Method	l of Assessmen	t	Description of Asse	ssment				]	Maximı Mark	um s R	esourc	External / Internal		
1.	Pap	per pen test	Studen conten	t will be asked to define termino ts	ology of	learn	ing			05	]	Fest pap s	Internal		
	·		ADDIT	IONAL INSTRUCTIONS FO	R THE	HOD	/ FAC	CUI	LTY (	IF ANY	7)				
				Part of Prog	ressive	– II									

DCDV	(Dinlama Wi	ng ) Dhonal	SCHEME EO		Bra	Branch Code Co			urse	Code	CO Code		LO Code	Format No.		
KGPV	(Dipionia wi	ng ) bhopai	SCHEME FU	VK LEAKINING OUTCOM	-	-	-	-	-	-	4		2	4		
COUR	SE NAME	APPLIED	MECHANICS													
CO Des	cription	Explain sim	ple machine.													
LO Des	cription	Determine t	he efficiency of	simple machine.												
	SCHEME OF STUDY															
S. No.	L	earning Con	tent	Teaching –Learning Method	Des	criptio Proc	n of ′ ess	T-L		Teach Hrs.	Pract. Hrs	Tut	LRs Required	Remarks		
1.	Law of mac advantage ar machine, rev condition for self locking Study of sim and wheel, d single purch crab, simple second and t	hine, maximum d maximum versibility of a r reversibility machine. uple machines lifferential axi ase crab, doul screw jack, p hird system o	<ul> <li>im mechanical</li> <li>efficiency of a</li> <li>in machine,</li> <li>of a machine,</li> <li>: Simple axle</li> <li>le and wheel,</li> <li>ole purchase</li> <li>ulleys : First,</li> <li>f pulleys.</li> </ul>	Interactive classroom teaching, lab demonstration, quiz, assignments.	Teache conten handou Teache quiz/as make s their k	reacher will explain the contents and provide handouts to students. Teacher will conduct quiz/assignments to make students practice their knowledge.					06	06		chalk board, PPT, text book, charts, video film.		NIL
	1			SCHEME OF A	SSESS	SMENT	Γ									
S. No.	Method o	of Assessmen	t	Description of Asse	ssment				N	laximu Marks	rm S Res	ource	es Required	External / Internal		
1.	Laboratory t observation	est by	Student w machine	vill be asked to determine the efficiency of simple						15	scł /rati	Obser schedule, /rating sca		External		
			ADDITIO	NAL INSTRUCTIONS FO	R THE	E HOD/	/ FAC	CUL	TY (I	F ANY	<i>(</i> )					
				Part of end pr	actical	exam										

5 6 5 1	~						Branch Code Co			Code	CO	Code	LO Code	Format No	
RGPV	(Diploma Wi	ng ) Bhopal	SCHEME FOR	LEARNING OUTCOMI	£ -	-	-	-	-	-		5	1	4	
COUR	RSE NAME	APPLIED	MECHANICS		I		1		1			1		1	
CO Des	scription	Explain mot	tion of particle and	l work, power, energy.											
LO Des	cription	Determine t	he horizontal rang	e of projectile.											
				SCHEME C	)F STU	DY									
S. No.		Learning Co	ontent	Teaching –Learning Method	Des	criptio Proc	on of cess	T-L		Teach Hrs.	P	ract. /Tu Hrs.	t LRs Require	ed Remar	
1.	Motion of pa velocity, acc uniform acc variable acc Motion under retardation ( under force velocity.	article - Defin celeration, uni eleration and eleration. er constant acc equations of r of gravity, Co	form velocity, form velocity, celeration/ notion), Motion oncept of relative	Interactive classroom teaching, quiz, assignments.	Teache conten handou Teache quiz/as make s their kn	Teacher will explain the contents and provide handouts to students. Teacher will conduct quiz/assignments to make students practice their knowledge.					N	L	Handout chalk board, PPT, tex book, charts, video fil	s, NIL t m.	
				SCHEME OF A	SSESS	MEN'	Г								
S. No.	Method	of Assessmen	t	Description of Asses	ssment	ment Max					ım s	Resour	esources Required		
1.	Theory exar	n	Students will content.	ll be asked to solve numeric	cal prot	lems t	ased	on		10		Quest rat	Externa		
			ADDITION	AL INSTRUCTIONS FO	R THE	HOD	/ FA	CUL	TY (l	IF ANY	<u>()</u>				
				NI	L										

DODU		) <b>D</b> I I			Bra	nch C	Code	Co	urse	Code	CO Code		LO Code		Format No.	
RGPV	(Diploma Wi	ng ) Bhopal	SCHEME FOR	LEARNING OUTCOME	-	-	-	-	-	-		5			4	
COUR	SE NAME	APPLIED	MECHANICS			1	· ·		1			I		I		
CO Des	cription	Explain mot	tion of particle and	work, power, energy.												
LO Des	cription	Determine t	he angular accelera	tion of a particle.												
		1		SCHEME O	F STU	DY										
S. No.		Learning Co	ntent	Teaching –Learning Method	Des	scripti Pro	on of <b>T</b> cess	Γ-L	L Teach Hrs.			ract. /Tu Hrs.	t LRs Required		Remarks	
1.	projection, a light, maxim and their det angular velo angular disp motion analo and angular a circular pa constant ang	ngle of projectile, va ngle of projection armination. D city, angular a lacement .Lin ogy. Relation velocity of a th. Motion of gular accelerat	elocity of etion, time of prizontal range Definition of acceleration and ear angular between linear particle moving in rotation under ion	teaching, quiz, assignments.	Teach hando Teach quiz/a make their	nts and outs to her will assignr studer knowle	l provic studen l condu nents to nts prac edge.	de ts. ict o ctice			IN			laouts, lk rd, c, text k, rts, eo film		
				SCHEME OF A	SSESS	MEN'	Т									
S. No.	Method o	of Assessmen	t	Description of Assess	sment				ľ	Maxim Mark	um s	Resour	ces Rec	quired	External / Internal	
1.	Theory exan	n	Students will content.	be asked to solve numeric	lems t	based of	n		10		Question paper + rating scale		ber + le	External		
			ADDITIONA	AL INSTRUCTIONS FOR	R THE	HOD	/ FAC	UL	<b>ГY</b> (1	IF ANY	Z)					
				NIL	J											

RGP	V (Diploma Wi	ng)	SCHEME FOR LEARNING			anch Co	ode	Cours	se Co	de	CO Code		LO Code	Format	
	Bhopal			OUTCOME	-	-	-	-	-	-	5		3	No. 4	
COU	IRSE NAME	APPL	IED ME(	CHANICS											
CO De	escription	Explai	n motion o	of particle and work, pow	ver, ener	gy									
LO De	scription	Descri	be Newton	Newton's law of motion											
	SCHEME OF STUDY														
S. No.	Learnin	g Conte	ent	Teaching –Learning Method	De	scriptio	L Process		Teach Hrs.	each Irs. H		LRs Required	Remarks		
1.	Laws of motion of motion and	n-Newto their app	on's laws plication.	Interactive classroom teaching, quiz, assignments.	Teache and pro Teache quiz/as practic	er will e ovide ha er will c ssignme e their k	ne contents to students ake studen ge.	tents 03 lents. udents				Handouts, chalk board, PPT, text book, charts, video film.	NIL		
				SC	HEME	OF AS	SESSM	ENT							
S. No.	Method of A	ssessme	nt	Descriptio	on of Assessment					Maxim Mark	um s	Res	ources Required	External / Internal	
1.	Paper pe	wton's laws of motion and their						r.	Гest p	Internal					
			А	DDITIONAL INSTRU	CTION	S FOR	THE H	OD/ FAC	ULT	Y (IF A	NY)				
					Part of	Progres	ssive – I	Π							

DODU						nch (	Code	Co	urse	Code	CO Code	LC	) Code	Format No.	
RGPV	(Diploma W	ing) Bhopal	SCHEM	E FOR LEARNING OUTCOM	<u>-</u>	-	-	-	-	-	5		4	4	
COUR	SE NAME	APPLIED M	ECHANI	CS											
CO Des	cription	Explain motio	on of partic	le and work, power, energy.											
LO Des	cription	Establish rela	tion betwee	en work, power and energy.											
	SCHEME OF STUDY														
S. No.	L	earning Conte	ent	Teaching –Learning Method	Des	criptio Proc	on of T cess	Г <b>-</b> L		Teach Hrs.	Pract. /T Hrs.	'ut	LRs Required	Remarks	
1.	Work, Pow unit and gra work. Defin and types of efficiency of and concep unit and type energy of a gravity.	ver and Energy- aphical represe nition and unit of engine power of an engine. D of of Impulse. D pes of energies body falling u	Definition ntation of of power r and efinition Definition, . Total nder	Interactive classroom teaching, quiz, assignments.	Teache content handou Teache quiz/as make s their kn	r will s and ts to s r will signm tudent nowlec	explain provid tudent conduc ents to s pract lge.	n the e s. ct tice	0	5	NIL		Handouts, chalk board, PPT, text book, charts, video film	NIL	
				SCHEME OF A	SSESS	MEN	Т								
S. No.	Method	of Assessmen	t	Description of Asses	ssment				N	laximu Marks	m Resou	irces ]	Required	External / Internal	
1.	Theory exa	ım	ents will be asked to solve numeric ent.	cal prob	al problems based on					Que	Question paper + rating scale				
			ADD	ITIONAL INSTRUCTIONS FO	R THE	HOD	/ FAC	CUL	ГΥ (І	F ANY	)				
				NI	L										