RGPV (DIPLOMA BHOPAL	A WING)	OBE CURRIC COURSE	ULUM FOR THE	FORMAT-3	Sheet No. 1/3								
Branch	CEMENT	TION, CIVIL,CTM,I		Semester	I								
Course Code		Course Name	APPLIED MECHANIC	CS									
Course Outcome 1	Desc	ribe forces, couples,	moments.		Teach Hrs	Marks							
Learning Outcome	e 1 Class	Classify scalar and vector quantity. 02 05											
Contents	mech	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.											
Method of Assessm	nent Exter	External :Theory exam											
Learning Outcome	e 2 Appl	Apply the resolution of forces. 10 10											
Contents	of a t Reso force	representation of a force by vector and by Bow's notation method. Characteristics of a force, effects of a force, principle of transmissibility. Resolution of a force: Definition, Method of resolution, Types of component forces, Perpendicular components and Non-perpendicular components. Internal:Laboratory test/Performance of a task –Assessment by observation											
Method of Assessm Learning Outcome		nal:Laboratory test/P rmine the moment of		-Assessment by o	06	n 10							
	Mon	nent of a force: - Defi	nition. measurement of	of moment of a for	rce. S. I. u	init.							
Contents	direc mom	tion of rotation, sign	noment of a force, class convention, law of mo ble definition, S.I. unit	sification of momoments Varignon'	ents acco s theorem	rding to							
Contents Method of Assessm	direc mom prop	tion of rotation, sign ent and it's use, coup	noment of a force, class convention, law of mo	sification of momoments Varignon'	ents acco s theorem	rding to							
	direc mom prop nent Inter	tion of rotation, sign ent and it's use, coup erties of couple.	noment of a force, class convention, law of mo	sification of momoments Varignon'	ents acco s theorem	rding to							
Method of Assessm	direc mom prop nent Inter e 4 Expl Force line o Com force I – A (ii) A II – O diagn	tion of rotation, sign ent and it's use, coup erties of couple. nal:Quiz ain force system. e system: - Definition of action position of Forces: - es analytical method – (in Algebraic method (me Graphical method: - I ram, and funicular po	noment of a force, class convention, law of mo- ble definition, S.I. unit n, classification of force Definition, Resultant	sification of mom oments Varignon' , measurement of ce system accordin force, methods of od (law of paralle gram, vector diag oncurrent, non-cor	ents acco s theorem a couple, 06 ng to plane compositi logram of ram, polar	10 e and forces)							
Method of Assessm Learning Outcome	direc mom prop nent Inter e 4 Expl Force line o Com force I – A (ii) A II – O diagn paral	tion of rotation, sign ent and it's use, coup erties of couple. nal:Quiz ain force system. e system: - Definition of action position of Forces: - es analytical method – (in Algebraic method (me Graphical method: - I ram, and funicular po	noment of a force, class convention, law of mo- ble definition, S.I. unit n, classification of force Definition, Resultant to ) Trigonometric methor ethod of resolution), ntroduction, space dia lygon. Resultant of co	sification of mom oments Varignon' , measurement of ce system accordin force, methods of od (law of paralle gram, vector diag oncurrent, non-cor	ents acco s theorem a couple, 06 ng to plane compositi logram of ram, polar	10 e and forces)							
Method of Assessn Learning Outcome Contents	direc mom prop nent Inter e 4 Expl Force line o Com force I – A (ii) A II – O diagn paral nent Exter	tion of rotation, sign ent and it's use, coup erties of couple. nal:Quiz ain force system. e system: - Definition of action position of Forces: - s analytical method – (i Algebraic method (me Graphical method: - I ram, and funicular po lel force system by a	noment of a force, class convention, law of mo- ble definition, S.I. unit n, classification of force Definition, Resultant f ) Trigonometric methor ethod of resolution), ntroduction, space dia lygon. Resultant of co- nalytical and graphica	sification of mom oments Varignon' , measurement of ce system accordin force, methods of od (law of paralle gram, vector diag oncurrent, non-cor	ents acco s theorem a couple, 06 ng to plane compositi logram of ram, polar	10 e and forces)							
Method of Assessm Learning Outcome Contents Method of Assessm	direc mom prop nent Inter e 4 Expl Force line o Com force I – A (ii) A II – O diagn paral nent Exter Solve e 1 Calci	tion of rotation, sign ent and it's use, coup erties of couple. nal:Quiz ain force system. e system: - Definition of action position of Forces: - es analytical method – (in Algebraic method (me Graphical method: - I cam, and funicular po lel force system by a rnal:Theory exam e the simple equilibri ulate the resultant and	noment of a force, class convention, law of mo- ble definition, S.I. unit n, classification of force Definition, Resultant to ) Trigonometric methor ethod of resolution), ntroduction, space dia lygon. Resultant of co- nalytical and graphica um problems. d equilibrium force.	sification of mom oments Varignon' , measurement of ce system accordin force, methods of od (law of paralle gram, vector diag oncurrent, non-cor l method.	of the orem a couple, a couple, 06 ng to plane composition logram of ram, polar neurrent an Teach Hrs 06	rding to of 10 e and ion of forces) r nd Marks 10							
Method of Assessm Learning Outcome Contents Method of Assessm Course Outcome 2	direc mom prop nent Inter e 4 Expl Force line o Com force I – A (ii) A II – O diagn paral nent Exte Solve e 1 Calce Defin equil conc Lam solvi Equi	tion of rotation, sign ent and it's use, coup erties of couple. nal:Quiz ain force system. e system: - Definition of action position of Forces: - is analytical method – (i Algebraic method (me Graphical method: - I cam, and funicular po lel force system by a rnal:Theory exam e the simple equilibri ulate the resultant and nition, conditions of e ibrium for concurren urrent and parallel for i's Theorem – statem ng various engineerin	noment of a force, class convention, law of mo- ble definition, S.I. unit n, classification of force Definition, Resultant f ) Trigonometric methor ethod of resolution), ntroduction, space dia lygon. Resultant of co- nalytical and graphica um problems. d equilibrium force. equilibrium, analytical t, non rce system. ent and explanation, A- ng problems. relation between result	sification of mom oments Varignon' , measurement of ce system accordin force, methods of od (law of paralle gram, vector diag oncurrent, non-cor l method.	of the orem a couple, a couple, 06 ng to plane compositi logram of ram, polar neurrent ar Teach Hrs 06 nditions o ni's theorem	rding to of 10 e and ion of forces) r nd Marks 10 f em for							

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	Definition, conditions of equilibrium, analytical and graphical con equilibrium for concurrent, non concurrent and parallel force system. Lami's Theorem – statement and explanation, Application of Lam solving various engineering problems. Equilibrant – Definition, relation between resultant and equilibran concurrent and non-concurrent force system.	i's theore	em for
Method of Assessment	Internal:Laboratory test/Performance of a task -Assessment by ob	oservatior	1
Learning Outcome 2	Determine coefficient of friction for different surface.	10	15
Contents	Definition of friction, force of friction, limiting frictional force, co friction, angle of friction, angle of repose, relation between angle of of repose and coefficient of friction. cone of friction, types of frict friction, advantages and disadvantages of friction.	of friction ion, laws	, angle of
Method of Assessment	External:Laboratory test/Performance of a task –Assessment by o	1	1
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.		
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, a 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.	e ,efficiei efficienc	ncy of a y of a
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 of 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.	a machine	, self eel,
Method of Assessment	External:Laboratory test/Performance of a task –Assessment by o	bservatio	n

Learning Outcome 1	Determine the horizontal range of projectile.	05	10
Contents	Motion of particle - Definition of speed, velocity, acceleration, uni uniform acceleration and variable acceleration. Motion under constant acceleration/ retardation (equations of moti 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
Contents	Force: - Definition of a force, unit force, Newton, S.I. unit of a for representation of a force by vector and by Bow's notation method. of a force, effects of a force, principle of transmissibility. Resolution of a force: Definition, Method of resolution, Types of c forces, Perpendicular components and Non-perpendicular compon	Charac	
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
Contents	Work, Power and Energy- Definition unit and graphical representa Definition and unit of power and types of engine power and efficie engine. Definition and concept of Impulse. Definition, unit and types of energies. Tot body falling under gravity.	ency of a	an
Method of Assessment	External :Theory exam		

DODI						anch (	Code	Co	ourse	Code	C	O Code	LO Code	Format No.		
RGPV	(Diploma W	ving ) Bhopal	SCHEME FO	OR LEARNING OUTCOME	-	-	-	6	8	0 5		1	1	4		
COUR	SE NAME	APPLIED M	IECHANICS		I		1		1	II	1	I				
CO De	scription	Describe forc	ces, couples, mor	ments.												
LO De	scription	Classify scala	ar and vector qua	antity.												
		1		SCHEME O	F STU	DY										
S. No.	J	Learning Cont	tent	Teaching –Learning Method	on of cess	T-L	Hrs.			Pract. /Tu Hrs.	t LRs Require	d Remarks				
1.	mechanics, Engineering mass, weigh	als: - Definition statics, dynami mechanics, bo at, length, time, amental units,	cs. ody, rigid body, , scalar and	teaching, demonstration, quiz, assignments.	conten handou Teache assigni make s	Process Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz to make students practice their knowledge.					1	NIL	Handouts chalk board, PPT, text book, charts video filr			
				SCHEME OF A	SSESS	SMEN	Т									
S. No.	Method	of Assessmen	ıt	Description of Asses	sment					Maxin Mar		Resour	ces Require	d External / Internal		
1.	. Theory exam Student will be asked to identify sca						alar and vector quantity. 05 Question paper + rating scale Extern									
			ADDITIO	NAL INSTRUCTIONS FO	R THE	HOD	)/ FA	CUL	TY (	IF AN	Y)					
				NII												

DODI		<u>, p</u>				nch C	Code	Co	urse	e Co	ode	CO Code	LO Code	Format No.
RGPV	(Diploma Wir	ng ) Bhopal	SCHEME FO	OR LEARNING OUTCOME	£ -	-	-	6	8	0	5	1	2	4
COU	RSE NAME	APPLIED	MECHANIC	S				1	1					
CO De	scription	Describe f	orces, couples,	moments.										
LO De	scription	Apply the	resolution of fo	rces.										
				SCHEME O	)F STU	DY								
S. No.	Le	earning Con	tent	Teaching –Learning Method	Description of T-L Process					1	「each Hrs.	Pract. /T Hrs.	ut LRs Requi	Remark
1.	Bow's notatio of a force, effe transmissibilit Resolution of	unit of a force of a force by on method. Cl ects of a forc cy. a force: Defi Types of con components	e, y vector and by haracteristics e, principle of nition, Method nponent forces, and Non-	hands on practice, lab assignments, quiz, assignments,	represe Bow's and res The stu	<b>.</b>					1	06	Handou chalk board, PPT, te book, charts, video fi	xt
				SCHEME OF A	SSESS	MEN'	Т							
S. No.	Method o	of Assessmen	t	Description of Asses	ssment				-		iximu Iarks	Resou	rces Requi	red Externa / Interna
1.	Laborat obse	will be asked to apply the reso	usked to apply the resolution of forces.						10	sched	bservation lule/check-li scales /rubr			
			ADDITIC	ONAL INSTRUCTIONS FO	R THE	HOD	/ FAC	CUL	ΓY (	(IF	ANY	)		
				Part of La	ab Wor	k								

				SCHEME FOR LEARNING OUTCOME		Bra	nch C	ode	Co	urse (	Code	COO	Code	LO Code	Format No.
RGPV (	Diploma Wi	ng ) Bhopal	SCHEME	FOR LEARNING OU	ГСОМЕ	-	-	-	-	-	-	1	1	3	4
COUR	SE NAME	APPLIED	MECHANI	CS							1				
CO Des	cription	Describe for	rces, couples	, moments.											
LO Des	cription	Determine t	he moment o	f a force.											
		1		SCH	IEME OF	STU	DY								
S. No.	Le	earning Cont	Teaching – Learning MethodDescription of T-Lrce: - Definition,InteractiveTeacher will explain t									Pract /Tut H		LRs Required	l Remarks
1.	measurement S. I. unit, get moment of a moments act rotation, sig moments V moment and definition, S	a force: - Def nt of moment cometrical me a force, classi cording to dir n convention, arignon's theo d it's use, cou S.I. unit, meas operties of co	Teacher contents to studen conduct quiz/tuto make stu knowled	and puts. Te arial/as adents	covide acher signm	hando will ents to	D	04		02	1	Handout/ lab manual, text book, charts, video film.	NIL		
				SCHEM	E OF AS	SESS	MEN	Г							
S. No.	Method	of Assessmen	t	Description	of Assess	ment				N	laxin Mar		Resou	urces Require	External / Internal
1.	Quiz Students will be asked to give a						give a quiz on learning contents 10 Rubrics/rating scales In							S Internal	
			ADDIT	IONAL INSTRUCTIO	ONS FOR	THE	HOD	/ FAC	CUL	ГΥ (І	F AN	( <b>Y</b> )			1
					Term we	ork									

	D. I						Co	urse	Code	CO Code	LO Code	Format No.	
KGPV (	Diploma W	ing ) Bhopal	SCHEME FOR LE	CARNING OUTCOME	E	0	1	-	-	-	1	4	4
COURS	SE NAME	APPLIED M	ECHANICS		1		1					ΙΙ	
CO Dese	cription	Describe forc	es, couples, moments										
LO Desc	cription	Explain force	system.										
		1		SCHEME OF	' STU	DY							
S. No.		Learning C	ontent	Teaching –Learning Method	I	)escrip P	otion o rocess		-L	Teach Hrs.	Pract. /Tu Hrs.	it LRs Required	Remarks
1.	force system action Composition force, meth I – Analytic method (law Algebraic r II – Graphi diagram, ver funicular pen non-concur	m according to on of Forces: - 1 ods of compos cal method – (i w of parallelog nethod (method cal method: - I ector diagram, j olygon. Resulta	) Trigonometric ram of forces) (ii) d of resolution), ntroduction, space polar diagram, and ant of concurrent, el force system by	Interactive classroom teaching, tutorial, quiz, assignments.	cont hand Tead quiz to m	cher w ents an louts t cher w /tutori ake st chow	nd pro o stud ill con al/assi udents	vide ents duct gnm pra	t nents	06	NIL	Handouts chalk board, PPT, text book, charts, video film	
				SCHEME OF AS	SESS	MEN	Г						
S. No.	Method	of Assessmen	t	Description of Assess	ment				Ν	Aaximu Marks	Recourt	rces Required	External / Internal
1.	Th	eory exam	Students will be content.	e asked to solve numerica	erical problems based on 10 Question paper + rating scale Ex							External	
			ADDITIONAL	INSTRUCTIONS FOR	THE	HOD	/ FAC	CUL	TY (l	(F ANY)	)		
				NIL									

DODI	Diploma Wing ) Bhopal SCHEME			anch (	Code	Cou	rse (	Code	CO Code	LO Code	Forma	at No.		
RGPV	(Diploma W	ing) Bhopal	SCHEME	FOR LEARNING OUTCOMI	£	-	-	-	-	-	2	1	4	
COUR	SE NAME	APPLIED M	ECHANICS	5	I								1	
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 Proo	on of T- cess	-L	Teach Hrs.		Pract. /Tu Hrs.	ıt LRs Requir		Remark s
1.	analytical a equilibrium concurrent Lami's The explanation theorem fo engineering Equilibrant between re equilibrant	conditions of e and graphical co a for concurren and parallel for corem – statemen and parallel for corem – statemen and parallel for core system.	onditions of t, non rce system. ent and of Lami's us elation ilibrant,	Interactive classroom teaching, lab demonstration, tutorial, quiz, assignments.	content handou Teache quiz/tu	ts and its to s r will torial/a e stude	explain provide tudents. conduct assignm ents pra lge.	t nents		1	02	Handout chalk bo PPT, tex book, charts, video fil	ard, t	<b>NIL</b>
	1			SCHEME OF A	SSESS	SMEN'	Т						I	
S. No.	Method	l of Assessmen	t	Description of Asses	ssment					laximu Marks	Recourt	rces Require		xternal nternal
1.	Paper pen test Student will be asked to calculate the force for different force system.						resultant and equilibrium 10 Test paper + rating scale						g In	nternal
	1		ADDIT	IONAL INSTRUCTIONS FO	R THE	HOD	)/ FACU	ULT	Y (II	F ANY	·)			
				Part of Prog	ressive	- 1								

Diploma W E NAME	ing ) Bhopal		THEME FOR LEARNING OUTCOME			Branch Code			Code	CO Code	LO Code	Format No.
		SCHEWIE	FOR LEARNING OUTCOME	£ -	-	-	-	-	-	2	2	4
	APPLIED M	ECHANIC	S	I	11				1		I	
ription	Solve the sim	ple equilibri	am problems.									
ription	Calculate the	reaction for	simply supported beam.									
			SCHEME O	F STU	DY							
L	earning Conte	ent	Teaching –Learning Method	Process					Teach Hrs.	Pract. /Tu Hrs.		Remarks
Beams – Definition, Types of beams cantilever, simply supported, overhanging, fixed, continuous), Cypes of end supports (simple upport, fixed, hinged, roller), lassification of loads, point load, miformly distributed load. Reaction's for a simply supported eam only.			teaching, quiz, assignments.	content handou Teache quiz/as make s	s and p ts to st r will c signme cudents	orovide udents conduc ents to practi	e s. :t		6	NIL	chalk board, PPT, text book, charts,	
			SCHEME OF A	SSESS	MENT	Г						
Method	of Assessmen	t	Description of Asses	sment				N			ces Required	External / Internal
Theory exam			1								1 1	External
		ADDI	<b>NONAL INSTRUCTIONS FO</b>	R THE	HOD	/ FAC	UL	ГҮ (І	F ANY	)		[
			NII	Ĺ								
	ption L eams – D cantilever, verhangin ypes of er pport, fix lassification iformly c eaction's eam only. Method	ption       Calculate the         Learning Contender       Learning Contender         eams – Definition, Type       Search (Search)         eams – Definition, Type       Search (Search)         verhanging, fixed, conting       Search (Search)         ypes of end supports (Simpport, fixed, hinged, rollassification of loads, point       Search (Search)         informly distributed load       Search (Search)         mean only.       Method of Assessmen	ption       Calculate the reaction for a         Learning Content         eams – Definition, Types of beams         eams – Definition, Types of beams         cantilever, simply supported,         verhanging, fixed, continuous),         ypes of end supports (simple         upport, fixed, hinged, roller),         lassification of loads, point load,         niformly distributed load.         eaction's for a simply supported         eam only.         Method of Assessment         heory exam       Studen	ption       Calculate the reaction for simply supported beam.         SCHEME O         Learning Content         Teaching –Learning Method         the arms of beams         cancile colspan="2">Calculate the reaction for simply supported beams         Calculate the reaction for simply supported         Teaching –Learning Method         the arms of beams         Calculate the reaction for simply supported,         eams of beams         Interactive classroom         teaching, quiz, assignments.         verhanging, fixed, continuous),         ypes of end supports (simple       Interactive classroom         upport, fixed, hinged, roller),       assification of loads, point load,         niformly distributed load.       eaction's for a simply supported         eaction's for a simply supported         Bescription of Assessment         Method of Assessment         Method of Assessment         heory exam         Students will be asked to solve numeric content.         ADDITIONAL INSTRUCTIONS FO	ption       Calculate the reaction for simply supported beam.         SCHEME OF STU         Learning Content       Teaching –Learning Method       Desc Desc         eams – Definition, Types of beams cantilever, simply supported, verhanging, fixed, continuous), ypes of end supports (simple upport, fixed, hinged, roller), lassification of loads, point load, niformly distributed load. eaction's for a simply supported eam only.       Interactive classroom teaching, quiz, assignments.       Teacher content handou Teacher quiz/assi make st their kr         SCHEME OF ASSESS       SCHEME OF ASSESS         Method of Assessment       Description of Assessment         heory exam       Students will be asked to solve numerical prob content.	Image: Property of the second system of the system of t	ption       Calculate the reaction for simply supported beam.         SCHEME OF STUDY         Learning Content       Teaching –Learning Method       Description of T Process         eams – Definition, Types of beams antilever, simply supported, verhanging, fixed, continuous), ypes of end supports (simple upport, fixed, hinged, roller), lassification of loads, point load, niformly distributed load. eaction's for a simply supported eam only.       Interactive classroom teaching, quiz, assignments.       Teacher will explain contents and provide handouts to students Teacher will conduc quiz/assignments to make students pract their knowledge.         Kethod of Assessment       Scheme OF ASSESSMENT         Method of Assessment       Description of Assessment         heory exam       Students will be asked to solve numerical problems based o content.         ADDITIONAL INSTRUCTIONS FOR THE HOD/ FAC	Image: Properties of the section for simply supported beam.         Calculate the reaction for simply supported beam.         SCHEME OF STUDY         Learning Content       Teaching –Learning Method       Description of T-L Process         eams – Definition, Types of beams antilever, simply supported, verhanging, fixed, continuous), ypes of end supports (simple apport, fixed, hinged, roller), lassification of loads, point load, niformly distributed load. eaction's for a simply supported eam only.       Interactive classroom teaching, quiz, assignments.       Teacher will conduct quiz/assignments to make students practice their knowledge.         Method of Assessment       Description of Assessment       Students will be asked to solve numerical problems based on content.         Method version of Assessment       Students will be asked to solve numerical problems based on content.       ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULY	Piton       Calculate the reaction for simply supported beam.         SCHEME OF STUDY         Learning Content       Teaching –Learning Method       Description of T-L Process       Description of T-L Process         eams – Definition, Types of beams cantilever, simply supported, verhanging, fixed, continuous), ypes of end supports (simple upport, fixed, hinged, roller), lassification of loads, point load, niformly distributed load. eaction's for a simply supported       Interactive classroom teaching, quiz, assignments.       Teacher will explain the contents and provide handouts to students. Teacher will conduct quiz/assignments to make students practice their knowledge.       O         Method of Assessment       Description of Assessment       M         heory exam       Students will be asked to solve numerical problems based on content.       M         ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (T       M	ptionCalculate the reaction for simply supported beam.SCHEME OF STUDYLearning ContentTeaching –Learning MethodDescription of T-L ProcessTeach Hrs.eams – Definition, Types of beams cantilever, simply supported, verhanging, fixed, continuous), ypes of end supports (simple apport, fixed, hinged, roller), lassification of loads, point load, niformly distributed load. eaction's for a simply supported eam only.Interactive classroom teaching, quiz, assignments.Teacher will explain the contents and provide handouts to students. Teacher will conduct quiz/assignments to make students practice their knowledge.06Method of AssessmentDescription of AssessmentMaximu Marksheory examStudents will be asked to solve numerical problems based on content.10ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY	ption       Calculate the reaction for simply supported beam.         SCHEME OF STUDY         Learning Content       Teaching –Learning Method       Description of T-L Process       Teach Hrs.       Pract. /Tu Hrs.         aasilever, simply supported, verhanging, fixed, continuous), ypes of end supports (simple upport, fixed, hinged, roller), aasification of loads, point load, niformly distributed load.       Interactive classroom teaching, quiz, assignments.       Teacher will explain the contents and provide handouts to students. Teacher will conduct quiz/assignments to make students practice their knowledge.       06       NIL         SCHEME OF ASSESSMENT         Method of Assessment       Maximum Marks       Resour         heory exam       Students will be asked to solve numerical problems based on content.       10       Quest rat	Prion       Calculate the reaction for simply supported beam.         SCHEME OF STUDY         Learning Content       Teaching -Learning Method       Description of T-L Process       Teach Hrs.       Pract./Tut Hrs.       LRs Required Required         eams – Definition, Types of beams trantilever, simply supported, werhanging, fixed, continuous), ppes of end supports (simple upport, fixed, hinged, roller), assification of loads, point load, niformly distributed load. eaction's for a simply supported eam only.       Interactive classroom teaching, quiz, assignments. SCHEME OF ASSESSMENT       O6       NIL       Handouts chalk board, PPT, text book, charts, video film         Method of Assessment       Description of Assessment       Maximum Marks       Resources Required marks         heory exam       Students will be asked to solve numerical problems based on content.       10       Question paper + rating scale

<b>D G D Z -</b>	·					anch (	Code	Co	urse	Code	CO Code	LO Code	Format No.
RGPV	(Diploma W	ving ) Bhopal	SCHEME	FOR LEARNING OUTCOMI	-	-	-	-	-	-	3	1	4
COUR	SE NAME	APPLIED M	ECHANIC	S					1	1 1			
CO Des	cription	Determine ce	ntre of gravit	ty, equilibrium of bodies on a pla	ne.								
LO Des	cription	Determine the	e centroid an	d centre of gravity in different sh	apes ar	nd lam	ina.						
		1		SCHEME C	F STU	DY							
S. No.	L	earning Conte	ent	Teaching –Learning Method	Des	criptio Proo	on of T cess	Г <b>-</b> L		Teach Hrs.	Pract. /Tu Hrs.	it LRs Require	d Remarks
1.	Moment of Centroid of such as squ circle, sem Centroid of Center of g of gravity of cylinder, sp cube, and r	Definition of ce f an area about f basic geometr lare, rectangle, icircle and quar f composite fig gravity: Definiti of simple solids ohere, hemisphe ectangular bloc of composite so	an axis. fical figures triangle, rter circle. ure. fon, centre s such as ere, cone, ck. Centre	Lab demonstration, hands on practice, lab assignments, quiz, assignments,	Teacher Centro gravity handou Teacher quiz/as make s their kn	id, Cen and p its to s er will ssignm tudent	nter of rovide tudent condu- ents to s pract	s. ct	e 0	2	06	Handouts chalk board, PPT, text book, charts, video film	
				SCHEME OF A	SSESS	SMEN	Т						
S. No.	Method	l of Assessmen	t	Description of Asses	sment				N	laximu Marks	Recourt	ces Require	d External / Internal
1.	Laboratory observation	nt will be asked to determine the y in different shapes and lamina.						10 schedule/ch		oservation ule/check-list scales /rubric			
			ADDIT	<b>FIONAL INSTRUCTIONS FO</b>	R THE	E HOD	)/ FAC	CUL	TY (I	F ANY			
				Part of La	ıb Wor	k							

	·	/ing ) Bhopal SCHEME FO	~~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		anch (	Code	Co	ourse	Code	CO Code	LO Code	Format No.	
RGPV	(Diploma W	/ing ) Bhopal	SCHEME F	OR LEARNING OUTCOMI	£	-	-	-	-	-	3	2	4
COUR	SE NAME	APPLIED M	IECHANICS										1
CO Des	scription	Determine ce	ntre of gravity,	, equilibrium of bodies on a pla	ine.								
LO Des	scription	Determine co	efficient of frid	ction for different surface.									
		1		SCHEME C	F STU	DY							
S. No.	]	Learning Cont	tent	Teaching –Learning Method	Des	criptio Proo		Hrs.			Pract. /Tu Hrs.	t LRs Require	d Remarks
1.	limiting fri friction, an repose, rela friction, an of friction. friction, lav	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	oefficient of angle of ingle of nd coefficient n, types of advantages		Teache conten handou Teache quiz/as make s their k	ts and its to s er will ssignm tudent	provid tuden condu ents to s prac	le ts. ict o			06	Handout chalk board, PPT, tex book, charts, video film	
				SCHEME OF A	SSESS	SMEN	Т						
S. No.	Method	of Assessmen	t	Description of Asses	sment				N	/Iaximu Marks	Recour	ces Require	d External / Internal
1.	Laboratory observation	•		will be asked to determine coerts surface	fficient	of fric	tion fo	or		15	schedu	servation lle/check-list scales /rubric	
			ADDITI	ONAL INSTRUCTIONS FO	R THE	E HOD	)/ FA(	CUL	TY (l	F ANY	)		
				Part of end pra	actical	exam							

		oma Wing ) Bhopal SCH	~ ~ ~ ~ ~ ~ ~ ~			nnch (	Code	Cou	rse (	Code	CO Code	LO Code	Format No.
RGPV	(Diploma W	ing) Bhopal	SCHEME	FOR LEARNING OUTCOMI	£ -	-	-	-	-	-	3	3	4
COUR	SE NAME	APPLIED M	ECHANICS	5	1						I		1
CO Des	scription	Determine ce	ntre of gravit	y, equilibrium of bodies on a pla	nne.								
LO Des	cription	Calculate the	equilibrium	forces.									
				SCHEME (	)F STU	DY							
S. No.	L	earning Conte	ent	Teaching –Learning Method	Des		on of T cess	<b>`-L</b>	,	Feach Hrs.	Pract. /Tut Hrs.	LRs Require	d Remarks
1.	Equilibrium of bodies on level plane external force applied horizontal and inclined up and down. Equilibrium of bodies on inclined plane-external forces is applied parallel to the plane, horizontal and incline to inclined plane.		izontal and inclined oplied	Interactive classroom teaching, lab demonstration, quiz, assignments.	Process Teacher will explain the contents and provide handouts to students. Teacher will conduct quiz/assignments to make students practice their knowledge.				04		02	Handout chalk board, PPT, tex book, charts, video fil	t
	1			SCHEME OF A	SSESS	MEN	Т						
S. No.	Method	l of Assessmen	t	Description of Asses	Maximum Resources Required Ex								d External / Internal
1.	Theory exa	am	Studen conten	ts will be asked to solve numerion.	cal prob	lems ł	based o	on				ion paper + ng scale	External
			ADDIT	<b>TIONAL INSTRUCTIONS FO</b>	R THE	HOD	)/ FAC	ULT	Y (I	F ANY)	· · · · · · · · · · · · · · · · · · ·		
				NI	L								

					anch (	Code	C	ours	se Co	de	CO Code	LO Code	Format No.
(Diploma W	ing ) Bhopal	SCHEME	FOR LEARNING OUTCOM	E _	-	-	-		-	-	4	1	4
SE NAME	APPLIED M	ECHANICS	5				1						
cription	Explain simp	le machine.											
cription	Apply the pri	nciple of sim	ple machine.										
			SCHEME C	)F STU	DY								
L	earning Conte	ent	Teaching –Learning Method	Des	-		Γ-L	I			Pract. /Tu Hrs.		d Remark
compound mechanical , input on a machine ,et expression , velocity ra machine. Ic and ideal lo	machine , load advantage , ve machine ,outp fficiency of a n for mechanical atio and efficie leal machine, i pad, friction in	,effort , elocity ratio ut of a hachine , l advantage ncy of a deal effort machines,	Interactive classroom teaching, tutorial, quiz, assignments.	conten handou Teache quiz/tu to mak	ts and its to s er will torial/a e stude	provid tudent conduc assigni ents pr	le s. ct mei	nts	04		NIL	chalk board, PPT, text book, charts,	
			SCHEME OF A	SSES	SMEN	Т							
Method	of Assessmen	t	Description of Asses	ssment							1 Resour	ces Require	Externa / Interna
Pap	er pen test			ology of	f learn	ing				05	-		Internal
		ADDIT	IONAL INSTRUCTIONS FO	R THE	E HOD	)/ FAC	CUI	LTY	(IF .	ANY)			
			Part of Prog	ressive	- II								
5	SE NAME cription cription L Definitions compound mechanical , input on a machine ,ef expression , velocity ra machine. Ic and ideal lo effort lost i load. Method	SE NAME       APPLIED M         cription       Explain simple         cription       Apply the print         Learning Content       Definitions of simple mackine, load         Definitions of simple mackine, load       machine, outperation         machine, efficiency of a mechanical advantage, vec, input on a machine, outperation for mechanical, velocity ratio and efficient       machine, if and ideal load, friction in effort lost in friction and fload.	SE NAME       APPLIED MECHANICS         cription       Explain simple machine.         cription       Apply the principle of sim         Learning Content       Definitions of simple machine, compound machine , load ,effort , mechanical advantage , velocity ratio , input on a machine ,output of a machine ,efficiency of a machine , expression for mechanical advantage , velocity ratio and efficiency of a machine. Ideal machine, ideal effort and ideal load, friction in machines, effort lost in friction and frictional load.         Method of Assessment       Paper pen test	SE NAME       APPLIED MECHANICS         cription       Explain simple machine.         cription       Apply the principle of simple machine.         cription       Apply the principle of simple machine.         SCHEME C         CHEME C         Definitions of simple machine, compound machine , load ,effort , mechanical advantage , velocity ratio , input on a machine ,output of a machine ,efficiency of a machine , expression for mechanical advantage , velocity ratio and efficiency of a machine. Ideal machine, ideal effort and ideal load, friction in machines, effort lost in friction and frictional load.       Interactive classroom teaching, tutorial, quiz, assignments.         SCHEME OF A         Method of Assessment       Description of Assessment         Paper pen test       Student will be asked to define terming contents	Cipipiona Wing ) Bhopal       SCHEME FOR LEARNING OUTCOME       .         SE NAME       APPLIED MECHANICS       .         cription       Explain simple machine.       .         cription       Apply the principle of simple machine.       .         cription       Apply the principle of simple machine.       SCHEME FOR LEARNING OUTCOME         cription       Explain simple machine.       SCHEME FOR LEARNING OUTCOME         Definitions       Apply the principle of simple machine, compound machine, load effort , mechanical advantage , velocity ratio , input on a machine ,output of a machine , efficiency of a machine , efficiency of a machine , ideal effort and ideal load, friction in machines, effort lost in friction and efficiency of a machine, ideal effort and ideal load, friction in machines, effort lost in friction and riction in machines, effort lost in the riction and friction in machines, effort lost in the riction and friction in machines, effort lost in the riction and friction in machines, effort lost in the riction and friction in machines, effort lost in the riction and friction in machines, effort lost in the riction and friction in machines, effort lost in the riction and friction in machines, effort lost in the riction and friction in machines, effort lost in the riction and efficiency of a machine in the riction of Assessment       Description of Assessment         Method of Assessment       Description of Assessment       Student will be asked to define terminology of contents	SCHEME FOR LEARNING OUTCOME       - <td>APPLIED MECHANICS         SE NAME       APPLIED MECHANICS         cription       Explain simple machine.         Cription       Apply the principle of simple machine.       SCHEME OF STUDY         Learning Content       Teaching -Learning Method       Description of Teacher will explait contents and provid handouts to student reaching, tutorial, quiz, assignments.       Interactive classroom teachine, teaching, tutorial, quiz, assignments.       Teacher will condu quiz/tutorial/assign to make students priteir knowledge.         velocity ratio and efficiency of a machine, explait conduct and chaine, ideal effort and ideal load, friction in machines, effort lost in friction and frictional load.       Scheme of Assessment       Description of Assessment         Method of Assessment       Description of Assessment       Student will be asked to define terminology of learning contents       attermine contents         Paper pen test       Student will be asked to define terminology of learning contents       student structions for the content structions for the content structions for the content struction struction structions for the content struction struction struction structionstructionstructionstructions for the content structionstructionst</td> <td>(Diploma Wing ) BhopalSCHEME FOR LEARNING OUTCOME  <ul><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li< td=""><td>(Diploma Wing ) BhopalSCHEME FOR LEARNING OUTCOME (International diploma Character Contents and provide assignments.Image: Content Content contents and provide (Interactive classroom teaching, tutorial, quiz, assignments.Image: Content co</td><td>Chippiona Wing ) Bhopal         SCHEME FOR LEARNING OUTCOME         .         <th< td=""><td>Apploin Set NAME Set NAMESet Heme FOR LEARNING OUTCOME Applue by the price of the pr</td><td>Diploma Wing ) Bhopal         SCHEME FOR LEARNING OUTCOME         .</td><td>Diploma Wing ) BhopalSCHEME FOR LEARNING OUTCOME (a)</td></th<></td></li<></ul></td>	APPLIED MECHANICS         SE NAME       APPLIED MECHANICS         cription       Explain simple machine.         Cription       Apply the principle of simple machine.       SCHEME OF STUDY         Learning Content       Teaching -Learning Method       Description of Teacher will explait contents and provid handouts to student reaching, tutorial, quiz, assignments.       Interactive classroom teachine, teaching, tutorial, quiz, assignments.       Teacher will condu quiz/tutorial/assign to make students priteir knowledge.         velocity ratio and efficiency of a machine, explait conduct and chaine, ideal effort and ideal load, friction in machines, effort lost in friction and frictional load.       Scheme of Assessment       Description of Assessment         Method of Assessment       Description of Assessment       Student will be asked to define terminology of learning contents       attermine contents         Paper pen test       Student will be asked to define terminology of learning contents       student structions for the content structions for the content structions for the content struction struction structions for the content struction struction struction structionstructionstructionstructions for the content structionstructionst	(Diploma Wing ) BhopalSCHEME FOR LEARNING OUTCOME <ul><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li>.</li><li< td=""><td>(Diploma Wing ) BhopalSCHEME FOR LEARNING OUTCOME (International diploma Character Contents and provide assignments.Image: Content Content contents and provide (Interactive classroom teaching, tutorial, quiz, assignments.Image: Content co</td><td>Chippiona Wing ) Bhopal         SCHEME FOR LEARNING OUTCOME         .         <th< td=""><td>Apploin Set NAME Set NAMESet Heme FOR LEARNING OUTCOME Applue by the price of the pr</td><td>Diploma Wing ) Bhopal         SCHEME FOR LEARNING OUTCOME         .</td><td>Diploma Wing ) BhopalSCHEME FOR LEARNING OUTCOME (a)</td></th<></td></li<></ul>	(Diploma Wing ) BhopalSCHEME FOR LEARNING OUTCOME (International diploma Character Contents and provide assignments.Image: Content Content contents and provide (Interactive classroom teaching, tutorial, quiz, assignments.Image: Content co	Chippiona Wing ) Bhopal         SCHEME FOR LEARNING OUTCOME         . <th< td=""><td>Apploin Set NAME Set NAMESet Heme FOR LEARNING OUTCOME Applue by the price of the pr</td><td>Diploma Wing ) Bhopal         SCHEME FOR LEARNING OUTCOME         .</td><td>Diploma Wing ) BhopalSCHEME FOR LEARNING OUTCOME (a)</td></th<>	Apploin Set NAME Set NAMESet Heme FOR LEARNING OUTCOME Applue by the price of the pr	Diploma Wing ) Bhopal         SCHEME FOR LEARNING OUTCOME         .	Diploma Wing ) BhopalSCHEME FOR LEARNING OUTCOME (a)

DCDV	(Diploma Wi	ng ) Phonol	SCHEME FO	R LEARNING OUTCOM		nch Code	e Co	urse	Code	CO Code	LO Code	Format No.
NGIV		ng ) bhopai	SCHEWIE FU	OK LEAKINING OUTCOMI	-		-	-	-	4	2	4
COUR	RSE NAME	APPLIED	MECHANICS						· · ·			
CO Des	scription	Explain sim	ple machine.									
LO Des	scription	Determine t	he efficiency of	simple machine.								
		1		SCHEME O	<b>F STU</b>	DY						
S. No.	L	earning Con	tent	Teaching –Learning Method	Desc	ription o Process			Teach Hrs.	Pract. /Tu Hrs.	t LRs Required	Remark
1.	advantage and machine, rev condition for self locking Study of sim and wheel, of single purch crab, simple	nd maximum versibility of a r reversibility machine. pple machines lifferential ax ase crab, doub	of a machine, : Simple axle le and wheel, ble purchase pulleys : First,	Interactive classroom teaching, lab demonstration, quiz, assignments. SCHEME OF A	content handou Teacher quiz/ass make st their kn	will expl s and prov ts to stude will cond signments udents pra owledge.	vide ents. duct to				Handouts chalk board, PPT, text book, charts, video film	
S. No.	Method	of Assessmen	t	Description of Asses				N	/laximu Marks	Resour	ces Required	Externa / Interna
1.	Laboratory to observation	test by	Student w machine	rill be asked to determine the		15	Observation schedule/check-li /rating scales /rubr		External			
			ADDITIO	NAL INSTRUCTIONS FO	R THE	HOD/ FA	ACUL	TY (l	F ANY	)		
				Part of end pra								

COURSE NAME       APPLIED MECHANICS         CO Description       Explain motion of particle and work, power, energy.         LO Description       Determine the horizontal range of projectile.         SCHEME OF STUDY         S. No.       Learning Content         Teaching –Learning Method       Description of T-L Process       Teach Hrs.       Pract. /Tut Hrs.       LRs Required							nch C	ode	Co	urse C	Code	CO Code	LO Code	Format No.
CO Description       Explain motion of particle and work, power, energy.         LO Description       Determine the horizontal range of projectile.         S. No.       Learning Content       Teaching –Learning Method       Description of T-L Process       Teach Hrs.       Pract. /Tut Hrs.       LRs Required         1.       Motion of particle - Definition of speed, velocity, acceleration, uniform velocity, uniform acceleration.       Interactive classroom teaching, quiz, assignments.       Teacher will explain the contents and provide handouts to students. Teacher will conduct quiz/assignments to make students practice their knowledge.       NIL       Handouts, chalts, video film         S. No.       Method of Assessment       Description of Assessment       Maximum       Resources Required	KGPV	(Diploma Wi	ng ) Bhopal	SCHEME FOR	LEARNING OUTCOM	E -	-	-	-	-	-	5	1	4
LO Description       Determine the horizontal range of projectile.         SCHEME OF STUDY         S. No.       Learning Content       Teaching –Learning Method       Description of T-L Process       Teach Hrs.       Pract. /Tut Hrs.       LRs Required         1.       Motion of particle - Definition of speed, velocity, acceleration, uniform velocity, uniform acceleration. Motion under constant acceleration/ retardation (equations of motion), Motion under force of gravity, Concept of relative velocity.       Interactive classroom teaching, quiz, assignments.       Teacher will explain the contents and provide handouts to students. Teacher will conduct quiz/assignments to make students practice their knowledge.       NIL       Handouts, chalk board, PPT, text book, charts, video film         SCHEME OF ASSESSMENT	COUR	RSE NAME	APPLIED	MECHANICS		I	1 1					I		
SCHEME OF STUDY         S. No.       Learning Content       Teaching -Learning Method       Description of T-L Process       Teach Hrs.       Pract. /Tut Hrs.       LRs Required         1.       Motion of particle - Definition of speed, velocity, acceleration, uniform velocity, uniform acceleration and variable acceleration. Motion under constant acceleration/ retardation (equations of motion), Motion under force of gravity, Concept of relative velocity.       Interactive classroom teaching, quiz, assignments.       Teacher will explain the contents and provide handouts to students. Teacher will conduct quiz/assignments to make students practice their knowledge.       NIL       Handouts, chalk board, PPT, text book, charts, video film         SCHEME OF ASSESSMENT	CO Des	scription	Explain mot	tion of particle and	work, power, energy.									
S. No.       Learning Content       Teaching –Learning Method       Description of T-L Process       Teach Hrs.       Pract. /Tut Hrs.       LRs Required         1.       Motion of particle - Definition of speed, velocity, acceleration, uniform velocity, uniform acceleration and variable acceleration.       Interactive classroom teaching, quiz, assignments.       Teacher will explain the contents and provide handouts to students. Teacher will conduct quiz/assignments to make students practice their knowledge.       05       NIL       Handouts, chalk         S. No       Method of Assessment       Description of Assessment       Maximum       Required	LO Des	scription	Determine t	he horizontal rang	e of projectile.									
S. No.       Learning Content       Method       Process       Hrs.       Hrs.       Required         1.       Motion of particle - Definition of speed, velocity, acceleration, uniform velocity, uniform acceleration and variable acceleration.       Interactive classroom teaching, quiz, assignments.       Teacher will explain the contents and provide handouts to students.       05       NIL       Handouts, chalk         Motion under constant acceleration/ retardation (equations of motion), Motion under force of gravity, Concept of relative velocity.       Motion under constant acceleration/ retardation (equations of motion), Motion under force of gravity, Concept of relative velocity.       Scheme of Assessment       Maximum       Resources Required					SCHEME C	)F STU	DY							
velocity, acceleration, uniform velocity, uniform acceleration and variable acceleration. Motion under constant acceleration/ retardation (equations of motion), Motion under force of gravity, Concept of relative velocity.       teaching, quiz, assignments.       contents and provide handouts to students. Teacher will conduct quiz/assignments to make students practice their knowledge.       chalk board, PPT, text book, charts, video film         S No         Method of Assessment       Maximum	S. No.		Learning Co	ntent	8 8	Dese	-		Γ-L					d Remarks
S No Method of Assessment Description of Assessment Maximum Resources Required		velocity, acc uniform acc variable acc Motion under retardation ( under force	celeration, uni eleration and eleration. er constant acc equations of r	form velocity, celeration/ notion), Motion	teaching, quiz,	content handou Teache quiz/as make st	contents and provide nandouts to students. Feacher will conduct quiz/assignments to nake students practice heir knowledge.				,	NIL	chalk board, PPT, text book, charts,	
S No Method of Assessment Description of Assessment Resources Required					SCHEME OF A	SSESS	MENI	Г						
	S. No.	Method	of Assessmen	t	Description of Asses	ssment						Resour	ces Require	d External / Interna
1.Theory examStudents will be asked to solve numerical problems based on content.10Question paper + rating scale	l.	Theory exar	n		ll be asked to solve numerio	cal prob	lems ba	ased o	on		10	-		External
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)				ADDITION	AL INSTRUCTIONS FO	R THE	HOD/	/ FAC	CUL	ГY (II	FANY	)		
NIL					NI	L								

DODU						nch Code	e Co	urse (	Code	CO Code	LO Code	Format No.
RGPV	(Diploma Wi	ng ) Bhopal	SCHEME FOR	LEARNING OUTCOME	-		-	-	-	5	2	4
COUR	SE NAME	APPLIED	MECHANICS						L L_			
CO Des	cription	Explain mot	ion of particle and	work, power, energy.								
LO Des	cription	Determine t	he angular accelera	tion of a particle.								
		1		SCHEME O	F STUI	DY						
S. No.		Learning Co	ntent	Teaching –Learning Method	Des	cription o Process			Teach Hrs.	Pract. /Tu Hrs.	it LRs Require	Remarks
1.	projection, a light, maxim and their det angular velo angular disp motion anale and angular a circular pa	ermination. D city, angular lacement .Lin ogy. Relation velocity of a p	ction, time of prizontal range Definition of acceleration and ear angular between linear particle moving in rotation under	Interactive classroom teaching, quiz, assignments.	conter hando Teach quiz/a make	er will exp nts and pro- uts to stuc- er will con ssignment students p nowledge	ovide lents. nduct ts to practice		,	NIL	Handouts chalk board, PPT, text book, charts, video film	2
				SCHEME OF AS	SSESS	MENT						
S. No.	Method	of Assessmen	t	Description of Assess	sment				laximu Marks	Resolut	rces Required	External / Interna
1.	Theory exam	n	Students will content.	be asked to solve numericate	al probl	ems based	d on		10	-	tion paper + ting scale	External
			ADDITIONA	<b>AL INSTRUCTIONS FOR</b>	R THE	HOD/ FA	ACULT	ГY (II	F ANY	) )		

RGP	V (Diploma W	ing) SO	-	IE FOR LEARNING	Br	anch C	ode	Cours	se Co	de	CO Code		LO Code	Format
	Bhopal			OUTCOME	-	-	-	-	-	-	5		3	No. <b>4</b>
COL	JRSE NAME	APPLIED	) MEC	CHANICS					-					1
CO De	escription	Explain m	otion o	of particle and work, pow	ver, ener	gy								
LO De	escription	Describe 1	Newtor	n's law of motion										
					SCHE	ME OF	STUD	Y						
S. No.	Learnii	ng Content		Teaching –Learning Method	De	escripti	on of T	-L Process		Teacl Hrs.	Pra /T /T	ut	LRs Required	Remarks
1.	Laws of motic of motion and			Interactive classroom teaching, quiz, assignments.	and pr Teache quiz/as	ovide ha er will c	he contents to students nake studen lge.	5.	03 NIL			Handouts, chalk board, PPT, text book, charts, video film.	NIL	
				SC	HEME	OF AS	SESSM	IENT					1	1
S. No.	Method of A	ssessment		Descriptio	on of As	sessme	nt			Maxim Mark		Res	External / Internal	
1.	Paper p	en test		lent will be asked to New lication	wton's laws of motion and their					05	Т	est p	paper + rating scale	Internal
			A	DDITIONAL INSTRU	CTION	S FOR	THE F	IOD/ FAC	ULT	Y (IF A	NY)			
					Part of	Progre	ssive –	II						

DODU						nch (	Code	Co	urse	Code	CO Code	LO Code	Format No.
RGPV (	(Diploma W	ing) Bhopal	SCHEME	FOR LEARNING OUTCOMI	E -	-	-	-	-	-	5	4	4
COURS	SE NAME	APPLIED M	ECHANIC	8	I				1				
CO Des	cription	Explain motio	on of particle	and work, power, energy.									
LO Des	cription	Establish rela	tion betweer	work, power and energy.									
				SCHEME C	)F STU	DY							
S. No.	L	earning Conto	ent	Teaching –Learning Method	Des	criptio Proo		T-L		Teach Hrs.	Pract. / Hrs.	Fut LRs Require	Remarks
1.	unit and gra work. Defin and types o efficiency o and concep unit and typ	er and Energy- aphical represe nition and unit f engine power of an engine. D t of Impulse. I bes of energies body falling u	ntation of of power r and efinition Definition, . Total	Interactive classroom teaching, quiz, assignments.	Teache content handou Teache quiz/as make s their kn	ts and ts to s r will signm tudent	provie tuden condu ents t s prace	de ts. ict o	e (	)5	NIL	Handouts chalk board, PPT, text book, charts, video film	, 
				SCHEME OF A	SSESS	MEN	Т						
S. No.	Method	of Assessmen	t	Description of Asses	ssment				I	Maximu Mark	Reco	urces Require	External / Interna
1.	Theory exa	m	Studer	nts will be asked to solve numeriont.	cal prob	lems ł	based	on		10	-	estion paper + rating scale	External
			ADDI	<b>FIONAL INSTRUCTIONS FO</b>	R THE	HOD	)/ FA	CUL'	ГΥ (	IF ANY	)		
				NI	L								

	RGPV (I	Diplo	ma Wi	ng ) Bhop	al		SEM	ESTER	R TEACH	HING L	EARNI	ING &	ASSES	SMENT	PLAN		FORM	ат- <b>6</b>
N	AME OF P	PROGF	RAMME	THRE	E YEARS I	DIPLC	OMA		SCHEME	OBE					NG YEA	AR	2020-21	
BI	RANCH CO	ODE		NAME OF	BRANCH				BILE, M N, CIVIL						SEM	ESTER	FIRS	5 <b>T</b>
			COL	JRSE DETAIL	.S			T-L	PLAN				AS	SESSMEN <sup>.</sup>	T PLAN			
S.			cou	DCT		No	No.	Total			ernal		Externa	l Assessme	nt (Unive	ersity Exa	m)	Grand
No	COURSE CODE		NAI	-	PAPER CODE	No. of	of	Total T-L	T-L Hrs. /Week	Asses	sment	T	heory Pa	aper	Pr	actical Ex	kam *	Total of
					CODE	COs	LOs	Hrs.	/ Week	No. of LOs	Total Marks	No. of LOs	Total Marks	Duration	No. of LOs	Total Marks	Duration	Mark
1	6805	APPL	IED MEC	HANICS		05	15	90	06	06	50	07	70	3Hrs.	02	30	3Hrs.	150
2			RKSHO CTICE	Р		07	12	90	06	09	40	-	-	-	03	60	3Hrs.	100
3																		
4																		
5																		
			TOTAL															
											No. o	of Theory	Papers		No. c	of Practic	al Exams	