

RGPV (DIPLOMA WING) BHOPAL		OBE CURRICULUM FOR THE COURSE		FORMAT-3	Sheet No.1/2
Branch	AUTOMOBILE, MECH, RAC, CHEMICAL, CEMENT, PRODUCTION, CIVIL, CTM, PRINTING and TEXTILE TECH		Semester	I	
Course Code	-----	Course Name	WORKSHOP PRACTICE		
Course Outcome 1	Prepare simple job in carpentry shop.			Teach Hrs	Marks
Learning Outcome 1	Select appropriate carpentry tool.			04	03
Contents	Introduction, Different types of tools, machines and accessories.				
Method of Assessment	Internal :Quiz				
Learning Outcome 2	Prepare simple job as per given specification with safety precautions in carpentry shop.			12	20
Contents	Demonstration of different wood working processes, planning, marking, chiseling, grooving, turning of wood. One job involving any one joint like mortise and tenon dovetail, bridle, half lap. Safety precautions in carpentry shop.				
Method of Assessment	External:Laboratory test by observation				
Course Outcome 2	Make use of metal joining processes for a given job.			Teach Hrs	Marks
Learning Outcome 1	Make use of arc welding process for a given job with safety precautions in arc welding.			08	20
Contents	Introduction, types of welding, ARC welding, welding of dissimilar materials, Selection of welding rod material Size of welding rod and work piece. Elementary symbolic representation. One job involving butt and lap joint. Safety precautions in arc welding.				
Method of Assessment	External:Laboratory test by observation				
Learning Outcome 2	Make use of gas welding for a given job with safety precautions in gas welding.			08	06
Contents	Gas welding, gas cutting, different types of flame. Rebuilding of broken parts with welding. Safety precautions in gas welding.				
Method of Assessment	Internal :Quiz				
Course Outcome 3	Practice fitting job.			Teach Hrs	Marks
Learning Outcome 1	Select appropriate fitting tool.			04	03
Contents	Introduction, various marking, measuring, cutting, holding, striking tools.				
Method of Assessment	Internal :Quiz				
Learning Outcome 2	Prepare simple job as per given specification with safety precautions in fitting shop.			12	06
Contents	Different fitting operations like chipping, filing, right angle, marking, drilling, tapping. One fitting job involving practice of chipping, filing, drilling, tapping, cutting. Safety precautions in fitting shop.				
Method of Assessment	Internal :Quiz				
Course Outcome 4	Prepare pipe fittings job.			Teach Hrs	Marks
Learning Outcome 1	Select appropriate pipe fitting tools.			04	03
Contents	Introduction, various marking, measuring, cutting, holding and striking tools.				
Method of Assessment	Internal :Quiz				
Learning Outcome 2	Prepare simple job as per given specification with safety measures in plumbing shop.			08	06

Contents	Different G.I. pipes, PVC pipes, flexible pipes used in practice G.I. Pipes and PVC pipes fitting and accessories, adhesive solvents chemical action, piping layout. Observing different pipe joint and pipe accessories. Demonstration of different operations in plumbing, One job on pipe joint with nipple coupling for standard pipe. Pipe threading using standard die sets. Safety measures in plumbing shop.		
Method of Assessment	Internal :Quiz		
Course Outcome 5	Practice sheet metal, soldering, riveting joints.	Teach Hrs	Marks
Learning Outcome 1	Select appropriate sheet metal tool.	04	03
Contents	Introduction, Various types of tools, equipments and accessories.		
Method of Assessment	Internal :Quiz		
Learning Outcome 2	Prepare sheet metal, soldering, riveting joints with safety precautions in sheet metal shop.	08	20
Contents	Different types of operations in sheet metal shop. Soldering and riveting. Safety precautions in sheet metal shop.		
Method of Assessment	External:Laboratory test by observation		
Course Outcome 6	Prepare simple job in smithy shop.	Teach Hrs	Marks
Learning Outcome 1	Prepare simple job as per given specification with safety precautions in smithy shop.	09	05
Contents	Demonstration of different forging tools and Power Hammer. Demonstration of different forging processes, likes shaping, caulking, fullering, setting down operations. One job like hook peg, flat chisel or any hardware item. Safety precautions in smithy shop.		
Method of Assessment	Internal :Quiz		
Course Outcome 7	Practice of power tools and utility items.	Teach Hrs	Marks
Learning Outcome 1	Practice of power tools and utility items with safety precautions.	09	05
Contents	Demonstration of power tools and practice of utility items. Demonstration of advance power tools, pneumatic tools, electrical wiring tools and accessories. Making of electrical switch board with 2 sockets and piano buttons and with electrical wiring. Any other item as per the requirement of college/Deptt., with safety precautions.		
Method of Assessment	Internal :Quiz		

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code			Course Code			CO Code		LO Code		Format No.
					-	-	-	-	-	-	<i>1</i>		<i>1</i>		4
COURSE NAME		WORKSHOP PRACTICE													
CO Description		Prepare simple job in carpentry shop.													
LO Description		Select appropriate carpentry tool.													
SCHEME OF STUDY															
S. No.	Learning Content	Teaching –Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks								
1.	Introduction, Different types of tools, machines and accessories.	Interactive classroom teaching, demonstration, quiz, assignments.	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz to make students practice their knowledge.	02	02	Chalk board, PPT, Handout/ lab manual, text book, charts, video film.	NIL								
SCHEME OF ASSESSMENT															
S. No.	Method of Assessment	Description of Assessment			Maximum Marks	Resources Required		External / Internal							
1.	Quiz	Students will be ask to identify carpentry tools.			03	Observation schedule/check-list /rating scales /rubrics		Internal							
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)															
Part of Lab Work															

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code			Course Code			CO Code		LO Code		Format No.
					-	-	-	-	-	-	1		2		4
COURSE NAME		WORKSHOP PRACTICE													
CO Description		Prepare simple job in carpentry shop.													
LO Description		Prepare simple job as per given specification with safety precautions in carpentry shop.													
SCHEME OF STUDY															
S. No.	Learning Content	Teaching – Learning Method			Description of T-L Process			Teach Hrs.	Pract. /Tut Hrs.	LRs Required			Remarks		
1.	Demonstration of different wood working processes, planning, marking, chiseling, grooving, turning of wood. One job involving any one joint like mortise and tenon dovetail, bridle, half lap. Safety precautions in carpentry shop.	Lab demonstration, hands on practice, lab assignments, quiz, assignments.			Teacher will demonstrate the procedure of job preparation. The students will learn through practice.			02	10	Chalk board, PPT, Handout/ lab manual, text book, charts, video film.			NIL		
SCHEME OF ASSESSMENT															
S. No.	Method of Assessment	Description of Assessment						Maximum Marks	Resources Required			External / Internal			
1.	Laboratory test by observation	Students will be asked to prepare simple job as per given specification with safety precautions.						20	Rubrics/rating scales			External			
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)															
Part of end practical exam															

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code			Course Code			CO Code	LO Code	Format No.
					<i>E</i>	<i>0</i>	<i>1</i>	-	-	-	<i>2</i>	<i>1</i>	4
COURSE NAME	WORKSHOP PRACTICE												
CO Description	Make use of metal joining processes for a given job.												
LO Description	Make use of arc welding process for a given job with safety precautions in arc welding.												
SCHEME OF STUDY													
S. No.	Learning Content	Teaching –Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks						
1.	Introduction, types of welding, ARC welding, welding of dissimilar materials, Selection of welding rod material Size of welding rod and work piece. Elementary symbolic representation. One job involving butt and lap joint. Safety precautions in arc welding.	Lab demonstration, hands on practice, lab assignments, quiz, assignments.	Teacher will demonstrate the procedure of arc welding .The students will learn through practice.	04	04	Chalk board, PPT, Handout/ lab manual, text book, charts, video film.	NIL						
SCHEME OF ASSESSMENT													
S. No.	Method of Assessment	Description of Assessment			Maximum Marks	Resources Required	External / Internal						
1.	Laboratory test by observation	Students will be asked to prepare a simple job using arc welding process with safety precautions.			20	Rubrics/rating scales	External						
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)													
Part of end practical exam													

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code			Course Code			CO Code		LO Code		Format No.
					-	-	-	-	-	-	2		2		4
COURSE NAME		WORKSHOP PRACTICE													
CO Description		Make use of metal joining processes for a given job.													
LO Description		Make use of gas welding for a given job with safety precautions in gas welding.													
SCHEME OF STUDY															
S. No.	Learning Content	Teaching –Learning Method			Description of T-L Process			Teach Hrs.	Pract. /Tut Hrs.	LRs Required			Remarks		
1.	Gas welding, gas cutting, different types of flame. Rebuilding of broken parts with welding. Safety precautions in gas welding.	Lab demonstration, hands on practice, lab assignments, quiz, assignments.			Teacher will demonstrate the procedure of gas welding .The students will learn through practice.			04	04	Chalk board, PPT, Handout/ lab manual, text book, charts, video film.			NIL		
SCHEME OF ASSESSMENT															
S. No.	Method of Assessment	Description of Assessment					Maximum Marks	Resources Required			External / Internal				
1.	Quiz	Students will be asked to demonstrate gas welding process with safety precautions.					06	Observation schedule/check-list /rating scales /rubrics			Internal				
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)															
Part of Lab Work															

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code			Course Code			CO Code		LO Code		Format No.
					-			-			3		1		4
COURSE NAME		WORKSHOP PRACTICE													
CO Description		Practice fitting job.													
LO Description		Select appropriate fitting tool.													
SCHEME OF STUDY															
S. No.	Learning Content	Teaching –Learning Method			Description of T-L Process			Teach Hrs.	Pract. /Tut Hrs.	LRs Required			Remarks		
1.	Introduction, various marking, measuring, cutting, holding, striking tools.	Interactive classroom teaching, lab demonstration, quiz, assignments.			Teacher will explain the contents and provide handouts to students. Teacher will conduct quiz/assignments to make students practice their knowledge.			02	02	Chalk board, PPT, Handout/ lab manual, text book, charts, video film.			NIL		
SCHEME OF ASSESSMENT															
S. No.	Method of Assessment	Description of Assessment					Maximum Marks	Resources Required				External / Internal			
1.	Quiz	Student will be asked to select appropriate fitting tools for different operations.					03	Observation schedule/check-list /rating scales /rubrics				Internal			
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)															
Part of Lab Work															

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code			Course Code			CO Code		LO Code		Format No.
					-	-	-	-	-	-	3		2		4
COURSE NAME		WORKSHOP PRACTICE													
CO Description		Practice fitting job.													
LO Description		Prepare simple job as per given specification with safety precautions in fitting shop.													
SCHEME OF STUDY															
S. No.	Learning Content	Teaching –Learning Method			Description of T-L Process			Teach Hrs.	Pract. /Tut Hrs.	LRs Required			Remarks		
1.	Different fitting operations like chipping, filing, right angle, marking, drilling, tapping. One fitting job involving practice of chipping, filing, drilling, tapping, cutting. Safety precautions in fitting shop.	Lab demonstration, hands on practice, lab assignments, quiz, assignments.			Teacher will demonstrate the procedure to prepare fitting job .The students will learn through practice.			02	10	Chalk board, PPT, Handout/ lab manual, text book, charts, video film.			NIL		
SCHEME OF ASSESSMENT															
S. No.	Method of Assessment	Description of Assessment					Maximum Marks	Resources Required			External / Internal				
1.	Quiz	Student will be asked to prepare a simple job with safety precautions.					06	Observation schedule/check-list /rating scales /rubrics			Internal				
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)															
Part of Lab Work															

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code			Course Code			CO Code		LO Code		Format No.
					-			-			4		1		4
COURSE NAME		WORKSHOP PRACTICE													
CO Description		Prepare pipe fittings job.													
LO Description		Select appropriate pipe fitting tools.													
SCHEME OF STUDY															
S. No.	Learning Content	Teaching –Learning Method	Description of T-L Process			Teach Hrs.	Pract. /Tut Hrs.	LRs Required			Remarks				
1.	Introduction, various marking, measuring, cutting, holding and striking tools.	Interactive classroom teaching, lab demonstration, quiz, assignments.	Teacher will explain the contents and provide handouts to students. Teacher will conduct quiz/assignments to make students practice their knowledge.			02	02	Chalk board, PPT, Handout/ lab manual, text book, charts, video film.			NIL				
SCHEME OF ASSESSMENT															
S. No.	Method of Assessment	Description of Assessment				Maximum Marks	Resources Required			External / Internal					
1.	Quiz	Student will be asked to Select appropriate pipe fitting tools for given task.				03	Observation schedule/check-list /rating scales /rubrics			Internal					
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)															
Part of Lab Work															

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code			Course Code			CO Code	LO Code	Format No.
		-	-	-	-	-	-	4	2	4

COURSE NAME	WORKSHOP PRACTICE
CO Description	Prepare pipe fittings job.
LO Description	Prepare simple job as per given specification with safety measures in plumbing shop.

SCHEME OF STUDY

S. No.	Learning Content	Teaching –Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1.	Different G.I. pipes, PVC pipes, flexible pipes used in practice G.I. Pipes and PVC pipes fitting and accessories, adhesive solvents chemical action, piping layout. Observing different pipe joint and pipe accessories. Demonstration of different operations in plumbing, One job on pipe joint with nipple coupling for standard pipe. Pipe threading using standard die sets. Safety measures in plumbing shop.	Lab demonstration, hands on practice, lab assignments, quiz, assignments.	Teacher will demonstrate the procedure of pipe fittings .The students will learn through practice.	02	06	Chalk board, PPT, Handout/ lab manual, text book, charts, video film.	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1.	Quiz	Student will be asked to prepare simple pipe fitting joints with safety measures.	06	Observation schedule/check-list /rating scales /rubrics	Internal

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

Part of Lab Work

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code			Course Code			CO Code		LO Code		Format No.
					-	-	-	-	-	-	5		1		4
COURSE NAME		WORKSHOP PRACTICE													
CO Description		Practice sheet metal, soldering, riveting joints.													
LO Description		Select appropriate sheet metal tool.													
SCHEME OF STUDY															
S. No.	Learning Content	Teaching –Learning Method			Description of T-L Process			Teach Hrs.	Pract. /Tut Hrs.	LRs Required			Remarks		
1.	Introduction, Various types of tools, equipments and accessories.	Interactive classroom teaching, lab demonstration, quiz, assignments.			Teacher will explain the contents and provide handouts to students. Teacher will conduct quiz/assignments to make students practice their knowledge.			02	02	Chalk board, PPT, Handout/ lab manual, text book, charts, video film.			NIL		
SCHEME OF ASSESSMENT															
S. No.	Method of Assessment	Description of Assessment					Maximum Marks	Resources Required					External / Internal		
1.	Quiz	Student will be asked to select appropriate sheet metal tool for given task.					03	Observation schedule/check-list /rating scales /rubrics					Internal		
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)															
Part of Lab Work															

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code			Course Code			CO Code		LO Code		Format No.
					-	-	-	-	-	-	5		2		4
COURSE NAME		WORKSHOP PRACTICE													
CO Description		Practice sheet metal, soldering, riveting joints.													
LO Description		Prepare sheet metal, soldering, riveting joints with safety precautions in sheet metal shop.													
SCHEME OF STUDY															
S. No.	Learning Content	Teaching –Learning Method			Description of T-L Process			Teach Hrs.	Pract. /Tut Hrs.	LRs Required			Remarks		
1.	Different types of operations in sheet metal shop. Soldering and riveting. Safety precautions in sheet metal shop.	Lab demonstration, hands on practice, lab assignments, quiz, assignments.			Teacher will demonstrate the procedure to prepare sheet metal, soldering, riveting joints .The students will learn through practice.			02	06	Chalk board, PPT, Handout/ lab manual, text book, charts, video film.			NIL		
SCHEME OF ASSESSMENT															
S. No.	Method of Assessment	Description of Assessment					Maximum Marks	Resources Required			External / Internal				
1.	Laboratory test by observation	Student will be asked to prepare simple job incorporating sheet metal, soldering, riveting joints.					20	Rubrics/rating scales			External				
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)															
Part of end practical exam															

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code			Course Code			CO Code		LO Code		Format No.
					-			-			6		1		4
COURSE NAME		WORKSHOP PRACTICE													
CO Description		Prepare simple job in smithy shop.													
LO Description		Prepare simple job as per given specification with safety precautions in smithy shop.													
SCHEME OF STUDY															
S. No.	Learning Content	Teaching –Learning Method			Description of T-L Process			Teach Hrs.	Pract. /Tut Hrs.		LRs Required		Remarks		
1.	Demonstration of different forging tools and Power Hammer. Demonstration of different forging processes, likes shaping, caulking, fullering, setting down operations. One job like hook peg, flat chisel or any hardware item. Safety precautions in smithy shop.	Lab demonstration, hands on practice, lab assignments, quiz, assignments.			Teacher will demonstrate the procedure simple job. The students will learn through practice.			03	06		Chalk board, PPT, Handout/ lab manual, text book, charts, video film.		NIL		
SCHEME OF ASSESSMENT															
S. No.	Method of Assessment	Description of Assessment					Maximum Marks	Resources Required				External / Internal			
1.	Quiz	Student will be asked to perform different smithy operations on a work piece with safety precautions.					05	Observation schedule/check-list /rating scales /rubrics				Internal			
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)															
Part of Lab Work															

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code			Course Code			CO Code		LO Code		Format No.
					-	-	-	-	-	-	7		1		4
COURSE NAME		WORKSHOP PRACTICE													
CO Description		Practice of power tools and utility items.													
LO Description		Practice of power tools and utility items with safety precautions.													
SCHEME OF STUDY															
S. No.	Learning Content	Teaching –Learning Method			Description of T-L Process			Teach Hrs.	Pract. /Tut Hrs.	LRs Required			Remarks		
1.	Demonstration of power tools and practice of utility items. Demonstration of advance power tools, pneumatic tools, electrical wiring tools and accessories. Making of electrical switch board with 2 sockets and piano buttons and with electrical wiring. Any other item as per the requirement of college/Deptt. ,with safety precautions.	Lab demonstration, hands on practice, lab assignments, quiz, assignments.			Teacher will demonstrate the procedure to operate power tools and utility items. The students will learn through practice.			03	06	Chalk board, PPT, Handout/ lab manual, text book, charts, video film.			NIL		
SCHEME OF ASSESSMENT															
S. No.	Method of Assessment	Description of Assessment					Maximum Marks	Resources Required					External / Internal		
1.	Quiz	Student will be asked to operate power tools and utility items on a work piece with safety precautions.					05	Observation schedule/check-list /rating scales /rubrics					Internal		
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)															
Part of Lab Work															

RGPV (Diploma Wing) Bhopal			SEMESTER TEACHING LEARNING & ASSESSMENT PLAN										FORMAT- 6			
NAME OF PROGRAMME		THREE YEARS DIPLOMA			SCHEME		OBE		IMPLEMENTING YEAR			2020-21				
BRANCH CODE	-----	NAME OF BRANCH			AUTOMOBILE, MECH, RAC, CHEMICAL, CEMENT, PRODUCTION, CIVIL,CTM,PRINTING and TEXTILE TECH							SEMESTER	FIRST			
S. No	COURSE DETAILS					T-L PLAN		ASSESSMENT PLAN								
	COURSE CODE	COURSE NAME	PAPER CODE	No. of COs	No. of LOs	Total T-L Hrs.	T-L Hrs. /Week	Internal Assessment		External Assessment (University Exam)						Grand Total of Marks
								Theory Paper			Practical Exam *					
								No. of LOs	Total Marks	No. of LOs	Total Marks	Duration	No. of LOs	Total Marks	Duration	
1	-----	WORKSHOP PRACTICE	-----	07	12	90	06	09	40	-	-	-	03	60	3Hrs.	100
2																
3																
4																
5																
TOTAL																
										No. of Theory Papers		nil	No. of Practical Exams			01

*Exam for LOs (Psycho + Affect.)