

<b>RGPV (Diploma Wing ) Bhopal</b>	<b>SCHEME FOR LEARNING OUTCOME</b>				Branch Code		Course Code			CO Code	LO Code	Format No. <b>4</b>
					<b>C03</b>		<b>3</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>1</b>	
					<b>C05</b>							

<b>COURSE NAME</b>	<b>SURVEYING</b>
<b>CO Description</b>	Explain the basics of surveying and apply the principles of chain surveying to make the survey plans.
<b>LO Description</b>	Explain basics of surveying and use of equipments in chain surveying.

#### SCHEME OF STUDY

S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
01.	Definition, Object, Principles and Scope of surveying. Classification of Surveying- Primary- plain & Geodetic. Secondary- based on instruments, Methods, Object & Nature of field. Principle of chain surveying Study and use of instrument required for chain surveying- Metric chain, Tapes, Ranging rod, Arrow, Pegs, Cross Staff and Optical Square.	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	4	0	Chalk board, PPT, text book, video film.	NIL

#### SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria	Resources Required	External / Internal
01.	External :End sem Exam-pan paper test	Student will be asked to basics of surveying and use of equipments in chain surveying.	8	Test Paper + Rating scale	Handouts, chalk board, PPT, text book, video film.	External

**ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)**

NIL

<b>RGPV (Diploma Wing ) Bhopal</b>	<b>SCHEME FOR LEARNING OUTCOME</b>	Branch Code			Course Code			CO Code	LO Code	Format No. <b>4</b>
		C	0	3	3	0	2	1	2	

<b>COURSE NAME</b>	<b>SURVEYING</b>
<b>CO Description</b>	Explain the basics of surveying and apply the principles of chain surveying to make the survey plans.
<b>LO Description</b>	Describe different terminology and operations of chain surveying.

**SCHEME OF STUDY**

S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
01.	Ranging- Direct and indirect Ranging Chaining- plain and sloping ground. Different types of chain lines-Survey line, check line, tie lines and Base line Offsets- long, short. Survey station and their selection, Factors affecting the selection of survey station. Obstacles in chaining & oblique. Errors in chain surveying & applying Corrections for chain & Tape (Numerical problems).	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	6	0	Chalk board, PPT, text book, video film.	NIL

**SCHEME OF ASSESSMENT**

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria	Resources Required	External / Internal
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<b>01.</b>	External :End sem Exam-pan paper test	Student will be asked to different terminology and operations of chain surveying.	<b>12</b>	Test Paper + Rating scale	Handouts, chalk board, PPT, text book, video film.	External
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**ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)**

NIL

<b>RGPV (Diploma Wing ) Bhopal</b>		<b>SCHEME FOR LEARNING OUTCOME</b>			Branch Code		Course Code		CO Code	LO Code	Format No. <b>4</b>	
					<i>C</i>	<i>0</i>	<i>3</i>	<i>3</i>	<i>0</i>	<i>2</i>		<i>1</i>
<b>COURSE NAME</b>	<b>SURVEYING</b>											
<b>CO Description</b>	Explain the basics of surveying and apply the principles of chain surveying to make the survey plans.											
<b>LO Description</b>	Determine the distance with chain and tape on the ground and the area of the field.											
<b>SCHEME OF STUDY</b>												
<b>S. No.</b>	<b>Learning Content</b>	<b>Method of teaching</b>	<b>Description of T-L Process</b>	<b>Teach Hrs.</b>	<b>Pract. /Tut Hrs.</b>	<b>LRs Required</b>	<b>Remarks</b>					

01.	Chain & cross staff survey for finding area of a field (Numerical problem), Plotting of field notes Use of conventional signs.	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	4	0	Chalk board, PPT, text book, video film.	NIL
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#### SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria	Resources Required	External / Internal
01.	Internal: mid sem exam- Pen Paper Test/assignment/quiz	Student will be asked to Determine the distance with chain and tape on the ground and the area of the field.	8	Test Paper + Rating scale	Handouts, chalk board, PPT, text book, video film.	Internal

#### ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

NIL

<b>RGPV (Diploma Wing ) Bhopal</b>	<b>SCHEME FOR LEARNING OUTCOME</b>	Branch Code			Course Code			CO Code	LO Code	Format No. <b>4</b>
		<i>C</i>	<i>0</i>	<i>3</i>	<i>3</i>	<i>0</i>	<i>2</i>	<i>1</i>	<i>4</i>	
<b>COURSE NAME</b>	<b>SURVEYING</b>									
<b>CO Description</b>	Explain the basics of surveying and apply the principles of chain surveying to make the survey plans.									

<b>LO Description</b>	Measure the distance and taking offsets using different instruments chain/tape, cross staff/optical square.
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**SCHEME OF STUDY**

S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
01.	1. Measurement of distance with chain and tape on ground with direct/indirect ranging.(3)  2.taking offsets by cross staff, optical square and plot the same.(3)	Lab demonstration , hands on practice, lab assignments	Teacher will explain the contents and provide handout to students. Students will learn through practice.	0	6	Handouts, chalk board, PPT, manual, virtual lab	NIL

**SCHEME OF ASSESSMENT**

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria	Resources Required	External / Internal
01.	Internal :Laboratory Assessment- Task /Experiment performance in Laboratory	Students will be asked to Measure the distance and taking offsets using different instruments chain/tape, cross staff/optical square.		Rating scale/ Rubrics	Lab record/ rating scales	Internal

**ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)**

Part of Practical Exam : Internal Marks for Practical : 02 Marks

**OUTCOME**

C 0 3 3 0 2 2 1

**COURSE NAME** SURVEYING**CO Description** Perform traversing using chain and compass survey.**LO Description** Explain bearing system, terminology and working of compass survey.**SCHEME OF STUDY**

S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
01.	Principle of Compass survey Bearing of lines, Meridian– True, magnetic and arbitrary meridian, Bearing – fore bearing, back bearing. Systems of bearings- whole circle bearing & quadrantal bearing, Conversion of bearing. Calculate included angles from bearings. Prismatic compass component, construction and use. Numerical problems on calculation of bearing, angles.	Interactive classroom teaching, assignments, quiz, presentation .	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	6	0	Chalk board, PPT, text book, video film.	NIL

**SCHEME OF ASSESSMENT**

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria	Resources Required	External / Internal
01.	External :End sem Exam-pan paper test	Student will be asked to bearing system, terminology and working of compass survey.	12	Test Paper + Rating scale	Handouts, chalk board, PPT, text book, video film.	External

**ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)**

NIL

<b>RGPV (Diploma Wing ) Bhopal</b>		<b>SCHEME FOR LEARNING OUTCOME</b>			Branch Code			Course Code			CO Code	LO Code	Format No. <b>4</b>
					C	0	3	3	0	2	2	2	
<b>COURSE NAME</b>	<b>SURVEYING</b>												
<b>CO Description</b>	Perform traversing using chain and compass survey.												
<b>LO Description</b>	Calculate corrected angles after elimination of local attraction.												
<b>SCHEME OF STUDY</b>													
<b>S. No.</b>	<b>Learning Content</b>	<b>Method of teaching</b>	<b>Description of T-L Process</b>	<b>Teach Hrs.</b>	<b>Pract. /Tut Hrs.</b>	<b>LRs Required</b>						<b>Remarks</b>	
01.	Local attraction- causes, precautions to be taken to avoid it and correction of bearing affected due to local attraction. Numerical problem on local attraction.	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	4	0	Chalk board, PPT, text book, video film.						NIL	
<b>SCHEME OF ASSESSMENT</b>													
<b>S. No.</b>	<b>Method of Assessment</b>	<b>Description of Assessment</b>	<b>Maximum Marks</b>	<b>Passing Criteria</b>	<b>Resources Required</b>			<b>External / Internal</b>					

<b>01.</b>	External :End sem Exam-pan paper test	Student will be asked to Calculate corrected angles after elimination of local attraction.	<b>8</b>	Test Paper + Rating scale	Handouts, chalk board, PPT, text book, video film.	External
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**ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)**

NIL

<b>RGPV (Diploma Wing ) Bhopal</b>	<b>SCHEME FOR LEARNING OUTCOME</b>	Branch Code			Course Code			CO Code	LO Code	Format No. <b>4</b>
		<i>C</i>	<i>0</i>	<i>3</i>	<i>3</i>	<i>0</i>	<i>2</i>	<i>2</i>	<i>3</i>	
<b>COURSE NAME</b>	<b>SURVEYING</b>									
<b>CO Description</b>	Perform traversing using chain and compass survey.									
<b>LO Description</b>	Explain traversing and plotting the details.									
<b>SCHEME OF STUDY</b>										
<b>S. No.</b>	<b>Learning Content</b>	<b>Method of teaching</b>	<b>Description of T-L Process</b>	<b>Teach Hrs.</b>	<b>Pract. /Tut Hrs.</b>	<b>LRs Required</b>	<b>Remarks</b>			



01.	Traversing by chain and compass, open and closed traverse, check on open and closed traverse and graphical adjustment for closing errors. Plotting of traverse using conventional signs.	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	3	0	Chalk board, PPT, text book, video film.	NIL
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### SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria	Resources Required	External / Internal
01.	Internal: mid sem exam- Pen Paper Test/assignment/quiz	Student will be asked to Explain traversing and plotting the details.	6	Test Paper + Rating scale	Handouts, chalk board, PPT, text book, video film.	Internal

### ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

NIL

<b>RGPV (Diploma Wing ) Bhopal</b>	<b>SCHEME FOR LEARNING OUTCOME</b>	Branch Code			Course Code			CO Code	LO Code	Format No. <b>4</b>
		<i>C</i>	<i>0</i>	<i>3</i>	<i>3</i>	<i>0</i>	<i>2</i>	<i>2</i>	<i>4</i>	
<b>COURSE NAME</b>	<b>SURVEYING</b>									
<b>CO Description</b>	Perform traversing using chain and compass survey.									

<b>LO Description</b>	Perform traversing and measure the bearings and angles using compass.
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**SCHEME OF STUDY**

S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
01.	<p>1. Use of prismatic compass and measuring fore bearing and back bearing of 5-6 side closed polygon. Identifying station affected by local attraction and calculation of corrected fore bearing and back bearing.(3)</p> <p>2. Measuring fore bearing and back bearing for an open traverse (5-6 sides), calculate direct angles between successive lines.(3)</p> <p>3. Measurement of fore bearing, back bearing and length of lines of a 5- 6 side closed traverse. Calculation of included angles, locating details, plotting them and adjustment of closed error graphically.(6)</p>	Lab demonstration, hands on practice, lab assignments	Teacher will explain the contents and provide handout to students. Students will learn through practice.	0	12	Handouts, chalk board, PPT, manual, virtual lab	NIL

**SCHEME OF ASSESSMENT**

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria	Resources Required	External / Internal
01.	Internal :Laboratory Assessment- Task /Experiment performance in Laboratory	Student will be asked to Perform traversing and measure the bearings and angles using compass.		Rating scale/ Rubrics	Lab record/rating scales	Internal

**ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)**

**Part of Practical Exam : Internal Marks for Practical : 04 Marks**

<b>RGPV (Diploma Wing ) Bhopal</b>	<b>SCHEME FOR LEARNING OUTCOME</b>	Branch Code			Course Code			CO Code	LO Code	Format No. <b>4</b>
		<i>C</i>	<i>0</i>	<i>3</i>	<i>3</i>	<i>0</i>	<i>2</i>	<i>3</i>	<i>1</i>	

<b>COURSE NAME</b>	<b>SURVEYING</b>
<b>CO Description</b>	Apply basic techniques and engineering tools for leveling.
<b>LO Description</b>	Explain basics of leveling and working of Auto level.

**SCHEME OF STUDY**

S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
01.	Definitions, meaning of various terms used in leveling – Level surface, Level line, horizontal line, Vertical line, Datum surface , Reduced level, Bench mark and its types Study and use of tilting level and dumpy level. Auto level –Components, Construction, Line of sight, Line of Collimation, Bubble tube axis, temporary adjustment of auto level. Fundamental axes and their relationship. Leveling Staff – Telescopic and folding. Foresight, back sight, Intermediate sight, Change point, Height of collimation (height of instrument). Recording in level book.	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	6	0	Chalk board, PPT, text book, video film.	NIL

**SCHEME OF ASSESSMENT**

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria	Resources Required	External / Internal
01.	External :End sem Exam-pan paper test	Student will be asked to Explain basics of leveling and working of Auto level.	12	Test Paper + Rating scale	Handouts, chalk board, PPT, text book, video film.	External

**ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)**

NIL

RGPV (Diploma Wing ) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code			Course Code			CO Code	LO Code	Format No. 4
					C	0	3	3	0	2	3	2	
<b>COURSE NAME</b>	SURVEYING												
<b>CO Description</b>	Apply basic techniques and engineering tools for leveling.												
<b>LO Description</b>	Calculate R.L. by different methods												
SCHEME OF STUDY													
S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required						Remarks	

01.	Method of Reduction of levels – Height of instrument method and Rise and fall method. Arithmetical checks, Numerical problems. Computation of missing readings.	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	5	0	Chalk board, PPT, text book, video film.	NIL
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### SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria	Resources Required	External / Internal
01.	External :End sem Exam-pan paper test	Student will be asked to Calculate R.L. by different methods	10	Test Paper + Rating scale	Handouts, chalk board, PPT, text book, video film.	External

### ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

NIL

<b>RGPV (Diploma Wing ) Bhopal</b>	<b>SCHEME FOR LEARNING OUTCOME</b>	Branch Code			Course Code			CO Code	LO Code	Format No. <b>4</b>
		C	0	3	3	0	2	3	3	
<b>COURSE NAME</b>	<b>SURVEYING</b>									
<b>CO Description</b>	Apply basic techniques and engineering tools for leveling.									

<b>LO Description</b>	Explain different types of leveling and errors in leveling.
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**SCHEME OF STUDY**

S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
01.	Classifications of leveling - simple, differential, profile, cross sectional, fly and check leveling. Plotting L-section & Cross-section. Sources of errors in leveling, precautions and difficulties faced in leveling.	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	4	0	Chalk board, PPT, text book, video film.	NIL

**SCHEME OF ASSESSMENT**

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria	Resources Required	External / Internal
01.	Internal: mid sem exam- Pen Paper Test/assignment/ quiz	Student will be asked to Explain different types of leveling and errors in leveling.	10	Test Paper + Rating scale	Handouts, chalk board, PPT, text book, video film.	Internal

**ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)**

NIL

## OUTCOME

C 0 3 3 0 2 3 4

**COURSE NAME** SURVEYING

**CO Description** Apply basic techniques and engineering tools for leveling.

**LO Description** Determine the R. L. Using auto level by different methods, setting out bench mark and plotting - plan, L-section and C- section.

### SCHEME OF STUDY

S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
01.	1. Use of Auto level, temporary adjustment, taking reading on levelling staff and record on field book.(3) 2. Differential leveling practice, calculation of R.L. by H.I. and rise and fall methods.(6) 3. Carrying bench mark from one station to another by fly levelling with Auto Level.(6) 4. Running longitudinal section for a road of length of 500m and take cross section suitably. Plotting plan, L-section and C-section.(12)	Lab demonstration, hands on practice, lab assignments	Teacher will explain the contents and provide handout to students. Students will learn through practice.	0	27	Handouts, chalk board, PPT, manual, virtual lab	NIL

### SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria	Resources Required	External / Internal
01.	Internal :Laboratory Assessment- Task /Experiment performance in Laboratory	Student will be asked to Determine the R. L. Using auto level by different methods, setting out bench mark and plotting - plan, L-section and C- section.		Rating scale/ Rubrics	Lab record/rating scales	Internal

**ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)**

**Part of Practical Exam : Internal Marks for Practical : 10 Marks**

<b>RGPV (Diploma Wing ) Bhopal</b>		<b>SCHEME FOR LEARNING OUTCOME</b>			Branch Code			Course Code			CO Code	LO Code	Format No. <b>4</b>
					C	0	3	3	0	2	4	1	
<b>COURSE NAME</b>	<b>SURVEYING</b>												
<b>CO Description</b>	Apply basics of plane table survey for making plan.												
<b>LO Description</b>	Explain basics of plane table survey and various operations of plane table survey.												
<b>SCHEME OF STUDY</b>													
<b>S. No.</b>	<b>Learning Content</b>	<b>Method of teaching</b>	<b>Description of T-L Process</b>	<b>Teach Hrs.</b>	<b>Pract. /Tut Hrs.</b>	<b>LRs Required</b>						<b>Remarks</b>	
01.	Principles of plane table survey, Accessories required. Setting out of plane table, Leveling, Centering and orientation. Situations where plane table survey is used. Use of Telescopic Alidade.	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	3	0	Chalk board, PPT, text book, video film.						NIL	
<b>SCHEME OF ASSESSMENT</b>													
<b>S. No.</b>	<b>Method of Assessment</b>	<b>Description of Assessment</b>	<b>Maximum Marks</b>	<b>Passing Criteria</b>			<b>Resources Required</b>			<b>External / Internal</b>			



<b>01.</b>	Internal: mid sem exam- Pen Paper Test/assignment/quiz	Student will be asked to Explain basics of plane table survey and various operations of plane table survey.	<b>6</b>	Test Paper + Rating scale	Handouts, chalk board, PPT, text book, video film.	Internal
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**ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)**

NIL

<b>RGPV (Diploma Wing ) Bhopal</b>	<b>SCHEME FOR LEARNING OUTCOME</b>	Branch Code			Course Code			CO Code	LO Code	Format No. <b>4</b>
		<i>C</i>	<i>0</i>	<i>3</i>	<i>3</i>	<i>0</i>	<i>2</i>	<i>4</i>	<i>2</i>	
<b>COURSE NAME</b>	<b>SURVEYING</b>									
<b>CO Description</b>	Apply basics of plane table survey for making plan.									
<b>LO Description</b>	Describe various methods of plane table survey.									
<b>SCHEME OF STUDY</b>										
<b>S. No.</b>	<b>Learning Content</b>	<b>Method of teaching</b>	<b>Description of T-L Process</b>	<b>Teach Hrs.</b>	<b>Pract. /Tut Hrs.</b>	<b>LRs Required</b>				<b>Remarks</b>

01.	Methods of plane table surveying – Radiation, Intersection, and Traversing. Merits and Demerits of plane table Surveying.	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	3	0	Chalk board, PPT, text book, video film.	NIL
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### SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria	Resources Required	External / Internal
01.	External :End sem Exam-pan paper test	Student will be asked to Describe various methods of plane table survey.	8	Test Paper + Rating scale	Handouts, chalk board, PPT, text book, video film.	External

### ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

NIL

<b>RGPV (Diploma Wing ) Bhopal</b>	<b>SCHEME FOR LEARNING OUTCOME</b>	Branch Code			Course Code			CO Code	LO Code	Format No. <b>4</b>
		C	0	3	3	0	2	4	3	
<b>COURSE NAME</b>	<b>SURVEYING</b>									
<b>CO Description</b>	Apply basics of plane table survey for making plan.									

LO Description		Perform plane table survey by different methods and plotting.					
SCHEME OF STUDY							
S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
01.	1. Plane table survey by radiation method.(3) 2. Plane table survey by intersection method.(3) 3. Plane table survey by traversing method and adjustment of closing error (if any) graphically.(6)	Lab demonstration, hands on practice, lab assignments	Teacher will explain the contents and provide handout to students. Students will learn through practice.	0	12	Handouts, chalk board, PPT, manual, virtual lab	NIL
SCHEME OF ASSESSMENT							
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria	Resources Required	External / Internal	
01.	Internal :Laboratory Assessment- <i>Task /Experiment performance in Laboratory</i>	Student will be asked to Perform plane table survey by different methods and plotting.		Rating scale/ Rubrics	Lab record/rating scales	Internal	
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)							
Part of Practical Exam : Internal Marks for Practical : 04 Marks							

