

SCHOOL OF DIPLOMA STUDIES	PROGRAM: DIPLOMA – CIVIL ENGINEERING
ACADEMIC YEAR - 2023-24	SEMESTER – I (Batch: 2023-26)
DEFINITION OF ONE CREDIT:	<ol style="list-style-type: none"> <li><b>Lecture (L):</b> 1 hour / week / semester,</li> <li><b>Practical (P):</b> 2 hour / week / semester,</li> <li><b>Tutorial (T):</b> 2 hour / week / semester.</li> </ol>

Course Code	Course Name	TEACHING SCHEME						Max. Marks of TSEE	CIE	PSEE	TCIE-I Assessment Scheme	Remarks if any
		Teaching Hours			SS H	Credits	Max. Marks of TSEE					
		TH	TU	PR								
DGN119	Matrix Algebra and Trigonometry	3	2	0	3	4	100	Y	N	Assignment	Revised	
ESL001	English as a Second Language-I	3	0	0	3	3	100	Y	N	Assignment + Presentation	Revised	
DME111	Engineering Graphics	3	0	4	3	5	100	Y	Y	Task Based Assignment	Revised	
DME110	Elements of Mechanical & Electrical Engineering	3	0	2	3	4	100	Y	Y	Assignment	New Course	
DME114	Workshop Practice	0	0	2	0	1	-	Y	Y	NA	Revised	
ES001	Environmental Science*	2	0	0	4	3	50	Y	N	Assignment	As it is	
	<b>TOTAL</b>	14	2	08	16	20						
		<b>Total Teaching Hours 24</b>										

1. CIE – Continuous internal evaluation (TCIE &/OR PCIE)	2. SSH - Self-study hours
3. PSEE – Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc..	4. (@) Audit Course / Non-Gradual Course
5. TSEE – Theory Semester End Examinations	6. Y – Yes I N- No
7. TH – Theory   PR – Practical   TU – Tutorial	8. Any other abbreviation

HOD

Director

SCHOOL OF DIPLOMA STUDIES	PROGRAM: DIPLOMA – CIVIL ENGINEERING
ACADEMIC YEAR - 2023-24	SEMESTER – II (Batch: 2023-26)
DEFINITION OF ONE CREDIT:	<ol style="list-style-type: none"> <li>Lecture (L): 1 hour / week / semester,</li> <li>Practical (P): 2 hour / week / semester,</li> <li>Tutorial (T): 2 hour / week / semester.</li> </ol>

TEACHING SCHEME											
Course Code	Course Name	Teaching Hours			SSH	Credits	Max. Marks of TSEE	CIE	PSEE	TCIE-I Assessment Scheme	Remarks if any
		TH	TU	PR							
DGN219	Basic Calculus and Applied Geometry	3	2	0	3	4	100	Y	N	Assignment	Revised
ESL002	English as a Second Language-II	3	0	0	3	3	100	Y	N	Assignment + Presentation	Revised
DCE104	Computer Applications	0	0	2	0	1	-	Y	Y	NA	Revised
DCV204	Engineering Mechanics	3	0	2	3	4	100	Y	Y	Assignment	As it is
DCV115	Fundamentals of Civil Engineering	3	0	2	3	4	100	Y	Y	Assignment	Revised
DGN105	Applied Science	3	0	2	3	4	100	Y	Y	Assignment	Revised
	<b>TOTAL</b>	15	02	08	15	20					
		<b>Total Teaching Hours 25</b>									

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5. TSEE – Theory Semester End Examinations	6. Y – Yes   N- No
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HOD

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# DETAILED TEACHING SCHEME

SCHOOL OF DIPLOMA STUDIES  
ACADEMIC YEAR – 2023-24

PROGRAM: DIPLOMA – CIVIL ENGINEERING  
SEMESTER – III (Batch - 2022-25)

DEFINATION OF CREDIT: **1. Lecture (L):** 1 hour/week/semester, **2. Practical (P):** 2 hours/week/semester **3. Tutorial(T):** 2 hours/week/semester

## TEACHING SCHEME

Course Code	Course Name	Teaching Hours per week			SSH	Credits	Max. Marks of TSEE	CIE	PSEE	TCIE-I Assessment Method	Remarks any
		Theory	Tutorial	Practical							
DCV320	SURVEYING-I	3	0	2	3	4	100	Y	Y	MCQ	
DCV321	CONCRETE TECHNOLOGY	3	0	2	3	4	100	Y	Y	PBL	
DCV322	BUILDING PLANNING	3	0	2	3	4	100	Y	Y	MCQ	
DCV326	FLUID MECHANICS	3	0	2	3	4	100	Y	Y	Assignment	
DCV324	MECHANICS OF STRUCTURE-I	3	2	0	3	4	100	Y	Y	Assignment	
DCV325	CONSTRUCTION TECHNOLOGY	3	2	0	3	4	100	Y	Y	Poster Presentation	
	<b>TOTAL</b>	<b>18</b>	<b>04</b>	<b>08</b>	<b>18</b>	<b>24</b>					
	<b>Total Teaching Hours- 30</b>										

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2. SSH - Self-study hours
3. PSEE – Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc..
4. (@) Audit Course / Non-Gradial Course
5. TSEE – Theory Semester End Examinations
6. Y – Yes | N- No

Signature of HOD

Signature of Director

3.	<p><b>GROUND WATER</b> Sources of water, Importance of underground water in Gujarat., Terms related to groundwater engineering, Aquifer, Aquiclude, Aquifuge, Aquifer porosity Specific yield, Specific retention, storage coefficient, coefficient of permeability, coefficient of transmissibility, Yield, Specific yield. Types of well, Open, (water table) Tube and flowing well. Concept, location and importance.</p>	06
4.	<p><b>Hydraulics Structures</b> Classification of dam functions and uses, Component of dam, Site selection of dam.</p>	04
<b>Total</b>		<b>21</b>
<b>SECTION-II</b>		
5.	<p><b>Introduction:</b> Necessity of irrigation, benefits and ill effects of irrigation, Types of irrigation systems, Soil water plant relationship, Classification of soil water, depth of soil water available to plants, choice of method of irrigation, surface and subsurface irrigation methods, Sprinkler and Drip Irrigation method major irrigation project in India.</p>	03
6.	<p><b>Water Requirements of Crops:</b> Introduction, Crop seasons of India, Depth of water applied during irrigation, Duty of water, delta, base period, Improvement of duty, Command area, Intensity of Irrigation, Consumptive use of water and evapo-transpiration, Irrigation efficiencies, Assessment of irrigation water.</p>	07
7.	<p><b>Irrigation Canals:</b> Definition, Types of canals, Alignment of canals, Factors influencing canal alignment Cross-section of canal Silt theory, Kennedy's &amp; Lacey's. Concept &amp; applications, Silting &amp; scouring, Regime &amp; semi, regime condition.</p>	06
8.	<p><b>Flood and Water Logging:</b> Definition of flood, causes and effects, method s of flood control, water logging, preventive measure land reclamation.</p>	05
<b>Total</b>		<b>21</b>



# DETAILED TEACHING SCHEME

SCHOOL OF DIPLOMA STUDIES

PROGRAM: DIPLOMA – CIVIL ENGINEERING

ACADEMIC YEAR – 2023-24

SEMESTER – V (Batch - 2021-24)

DEFINITION OF CREDIT: **1. Lecture (L):** 1 hour/week/semester, **2. Practical (P):** 2 hours/week/semester **3. Tutorial(T):** 2 hours/week/semester

## TEACHING SCHEME

Course Code	Course Name	Teaching Hours per week		SSH	Credits	Max. Marks of TSEE	CIE	PSEE	TCIE-I Assessment Method	Remarks if any
		Theory	Practical							
DCV524	SOIL ENGINEERING	3	2	3	4	100	Y	Y	MCQ	
DCV523	WATER SUPPLY AND SANITARY ENGINEERING	3	2	3	4	100	Y	Y	Assignment	
DCV516	QUANTITY SURVEY & VALUATION	4	0	4	5	100	Y	N	Assignment	
DCV517	DESIGN OF STEEL STRUCTURES	4	0	4	5	100	Y	N	Assignment	
DCV519	CONSTRUCTION SAFETY ENGINEERING	3	0	3	3	100	Y	N	Assignment	
DCV521	MINI PROJECT	0	2	0	1	-	Y	Y	-	Anyone Offered Department Elective
DCVXXX	Department Elective – I	3	0	3	3	100	Y	N		
	<b>TOTAL</b>	<b>20</b>	<b>4</b>	<b>20</b>	<b>25</b>					
	<b>Total Teaching Hours- 30</b>									

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2. SSH - Self-study hours

3. PSEE – Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc..

4. (@) Audit Course / Non-Gradual Course

5. TSEE – Theory Semester End Examinations

6. Y – Yes I N- No



# DETAILED TEACHING SCHEME

SCHOOL OF DIPLOMA STUDIES  
ACADEMIC YEAR - 2023-24

PROGRAM: DIPLOMA- CIVIL ENGINEERING  
SEMESTER - VI (Batch - 2021-24)

DEFINITION OF CREDIT: 1. Lecture (L): 1 hour/week/semester, 2. Practical (P): 2 hours/week/semester 3. Tutorial(T): 2 hours/week/semester

TEACHING SCHEME										
Course Code	Course Name	Teaching Hours per week			SSH	Credits	Max. Marks of TSEE	CIE	PSEE	Remarks if any
		Theory	Tutorial	Practical						
DCV601	Industrial Training	-	-	-	06	25	-	Y	Y	
	<b>TOTAL</b>	-	-	-	06	25				
	<b>Total Teaching Hours- NA</b>									

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2. SSH - Self-study hours
3. PSEE - Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc..
4. (@) Audit Course / Non-Gradual Course
5. TSEE - Theory Semester End Examinations
6. Y - Yes I N- No

<b>Course Title</b>	<b>INDUSTRIAL TRAINING</b>
<b>Course Code</b>	<b>DCV601</b>
<b>Course Credit</b>	Lecture : 00
	Practical : 25
	Tutorial : 00
	Total : 25

### Course Learning Outcomes:

**At the end of this training, students will be able to:**

- **Understand** site problem, site materials, practical use of drawing.
- **Apply** Theory as practical use, planning and designing.
- **Analyze design** of structural member, foundation
- **Identify** materials and various design
- **Design planning** and working drawing for residential commercial building and vast projects like road, railways, and bridges.

### Detailed Syllabus

**Students must attend industry training as per industry timing – full time for full semester.**

**Students will be evaluated based on**

<b>Industrial Training Evaluation:</b>	
<b>50- PCIE:</b>	
Presentation -I	50 Marks
Presentation -II	50Marks
Report Internal	50Marks
Logbook Evaluation	50Marks
Attendance	50Marks
<b>50- PSEE:</b>	
Viva & presentation	200Marks
Report External	50Marks
<b>Viva &amp; presentation:</b>	
Presentation	100Marks
Question Answer	100marks