

**MATS School of Engineering & I.T**

**MATS University**

**Raipur**



**Syllabus Scheme**

**(3<sup>rd</sup> Semester)**

**For**

**DIPLOMA PROGRAMME**

**IN**

**CIVIL ENGINEERING**

**Subject Code For DIPLOMA PROGRAMME IN CIVIL ENGINEERING**

**3<sup>rd</sup> Semester (Civil)**

<b>S.No.</b>	<b>Subject Code</b>	<b>Subject Name</b>
<b>THEORY</b>		
<b>1</b>	DP-320	Surveying-I
<b>2</b>	DP-321	Civil Engineering Materials
<b>3</b>	DP-322	Engineering Geology
<b>4</b>	DP-323	Mechanics of Structures
<b>5</b>	DP-324	Building Construction & Civil Engineering Drawing
<b>PRACTICAL</b>		
<b>6</b>	DP-325	Surveying-I Lab
<b>7</b>	DP-326	Civil Engineering Materials Lab
<b>8</b>	DP-327	Engineering Geology Lab
<b>9</b>	DP-328	Strength of Material Lab
<b>10</b>	DP-329	Civil Engineering Drawing Lab

**MATS School of Engineering & I.T**  
**MATS University, Raipur**  
**Diploma in Civil Engineering**



**III<sup>rd</sup> Semester**

Sr. No.	Course code	SUBJECT	Periods per week			Evaluation Scheme		Total Credits
			L	T	P	IM	ESE	
<b>THEORY</b>								
1	DP-320	Surveying- I	4	0	-	30	70	4
2	DP-321	Civil Engineering Material	4	0	-	30	70	4
3	DP-322	Engineering Geology	3	0	-	30	70	3
4	DP-323	Mechanics of Structures	3	0	-	30	70	3
5	DP-324	Building Construction & Civil Engineering Drawing	4	0	-	30	70	4
<b>PRACTICAL</b>								
6	DP-325	Surveying-I Lab	-	-	2	20	30	1
7	DP-326	Material Technology Lab	-	-	2	20	30	1
8	DP-327	Engineering Geology Lab	-	-	2	20	30	1
9	DP-328	Strength of Material Lab	-	-	2	20	30	1
10	DP-329	Civil Engineering Drawing Lab	-	-	4	20	30	2
<b>TOTAL</b>			<b>18</b>	<b>0</b>	<b>12</b>	<b>250</b>	<b>500</b>	<b>24</b>

**L-Lecturer, P-Practical, ESE- End Semester Examination, IM-Internal Marks, T- Tutorial**

**MATS School of Engineering & I.T**

**MATS University**

**Raipur**



**Syllabus Scheme**

**(4<sup>th</sup> Semester)**

**For**

**DIPLOMA PROGRAMME**

**IN**

**CIVIL ENGINEERING**

## Subject Code For DIPLOMA PROGRAMME IN CIVIL ENGINEERING

### 4<sup>th</sup> Semester (Civil)

S.No.	Subject Code	Subject Name
THEORY		
1	DP-420	Surveying-II
2	DP-421	Hydraulics
3	DP-422	Public Health Engineering
4	DP-423	Concrete Technology
5	DP-424	Transportation Engineering
PRACTICAL		
6	DP-425	Surveying-II Lab
7	DP-426	Hydraulics Lab
8	DP-427	Public Health Engineering Lab
9	DP-428	Concrete Technology Lab
10	DP-429	Transportation Eng Lab



**MATS School of Engineering & I.T**  
**MATS University, Raipur**  
**Diploma in Civil Engineering**



**IV<sup>th</sup> Semester**

Sr. No.	Course code	SUBJECT	Periods per week			Evaluation Scheme		Total Credits
			L	T	P	IM	ESE	
<b>THEORY</b>								
1	DP-420	Surveying-II	4	0	0	30	70	4
2	DP-421	Hydraulics	3	1	0	30	70	3
3	DP-422	Public Health Engineering	4	0	0	30	70	4
4	DP-423	Concrete Technology	3	0	0	30	70	3
5	DP-424	Transportation Engineering	4	0	0	30	70	4
<b>PRACTICAL</b>								
6	DP-425	Surveying- II Lab	-	-	2	20	30	1
7	DP-426	Hydraulics Lab	-	-	2	20	30	1
8	DP-427	Public Health Engineering Lab	-	-	2	20	30	1
9	DP-428	Concrete Technology Lab			2	20	30	1
10	DP-429	Transportation Engineering Lab	-	-	2	20	30	1
<b>TOTAL</b>			<b>18</b>	<b>1</b>	<b>10</b>	<b>250</b>	<b>500</b>	<b>23</b>

**L-Lecturer, P-Practical, ESE- End Semester Examination, IM-Internal Marks, T-Tutorial**

**MATS School of Engineering & I.T**

**MATS University**

**Raipur**



**Syllabus Scheme**

**(5<sup>th</sup> Semester)**

**For**

**DIPLOMA PROGRAMME**

**IN**

**CIVIL ENGINEERING**

## Subject Code For DIPLOMA PROGRAMME IN CIVIL ENGINEERING

### 5<sup>th</sup> Semester (Civil)

S.No.	Subject Code	Subject Name
THEORY		
1	DP-520	Irrigation engineering
2	DP-521	R.C.C design
3	DP-522	Quantity surveying & costing
4	DP-523X	Professional Elective-I
5	DP-524	Entrepreneurship development
PRACTICAL		
6	DP-525	Auto-Cad Lab
7	DP-526	Vocational Training Evaluation
8	DP-527	Minor Project
9	DP-528	Construction Technology Lab

### Professional Elective-I

DP-5231	Railways & Bridges
DP-5232	Air pollution and Control Measures
DP-5233	Construction Management
DP-5234	Traffic Engineering
DP-5235	Water Power Engineering





**MATS School of Engineering & I.T**  
**MATS University, Raipur**  
**Diploma in Civil Engineering**



**V<sup>th</sup> Semester**

Sr. No.	Course code	SUBJECT	Periods per week			Evaluation Scheme		Total Credits
			L	T	P	IM	ESE	
<b>THEORY</b>								
1	DP-520	Irrigation engineering	3	1	0	30	70	4
2	DP-521	R.C.C design	4	0	0	30	70	4
3	DP-522	Quantity surveying & costing	4	0	0	30	70	4
4	DP-523X	Professional Elective-I	4	0	0	30	70	4
5	DP-524	Entrepreneurship Development	3	0	0	30	70	3
<b>PRACTICAL</b>								
6	DP-525	Auto-Cad Lab	-	-	2	20	30	1
7	DP-526	Vocational Training Evaluation	-	-	2	20	30	1
8	DP-527	Irrigation Engineering Lab	-	-	2	20	30	1
9	DP-528	Construction Technology Lab	-	-	2	20	30	1
10	DP-529	R.C.C & Steel Structure Lab	-	-	2	20	30	1
<b>TOTAL</b>			<b>18</b>	<b>1</b>	<b>10</b>	<b>250</b>	<b>500</b>	<b>24</b>

**L-Lecturer, P-Practical, ESE- End Semester Examination, IM-Internal Marks, T-Tutorial**

**Professional Elective-I**

<b>DP-5231</b>	Railways & Bridges
<b>DP-5232</b>	Air pollution and Control Measures
<b>DP-5233</b>	Construction Management
<b>DP-5234</b>	Traffic Engineering
<b>DP-5235</b>	Water Power Engineering

**MATS School of Engineering & I.T**

**MATS University**

**Raipur**



**Syllabus Scheme**

**(6<sup>th</sup> Semester)**

**For**

**DIPLOMA PROGRAMME**

**IN**

**CIVIL ENGINEERING**



## Subject Code For DIPLOMA PROGRAMME IN CIVIL ENGINEERING

### 6<sup>th</sup> Semester (Civil)

S.No.	Subject Code	Subject Name
<b>THEORY</b>		
1	<b>DP-620</b>	Soil Mechanics
2	<b>DP-621</b>	Design of Steel Structures
3	<b>DP-622X</b>	Professional Elective
4	<b>DP-623X</b>	Open Elective
<b>PRACTICAL</b>		
6	<b>DP-624</b>	Soil Mechanics Lab
7	<b>DP-625</b>	Project Work

**MATS School of Engineering & I.T**  
**MATS University, Raipur**  
**Diploma in Civil Engineering**



### VI<sup>th</sup> Semester

Sr. No.	Course code	SUBJECT	Periods per week			Evaluation Scheme		Total Credits
			L	T	P	IM	ESE	
<b>THEORY</b>								
1	<b>DP-620</b>	Soil Mechanics	3	0	-	30	70	3
2	<b>DP-621</b>	Design of Steel Structures	3	1	-	30	70	4
3	<b>DP-622X</b>	Professional Elective	3	0	-	30	70	3
4	<b>DP-623X</b>	Open Elective	3	0	-	30	70	3
7	<b>DP-624</b>	Soil Mechanics Lab	-	-	2	20	30	1
8	<b>DP-625</b>	Project Work	-	-	15	50	150	10
<b>TOTAL</b>			<b>12</b>	<b>1</b>	<b>17</b>	<b>190</b>	<b>460</b>	<b>24</b>

**L-Lecturer, P-Practical, ESE- End Semester Examination, IM-Internal Marks, T-Tutorial**

**Professional Elective**

<b>DP-6221</b>	Estimation, Costing & Valuation
<b>DP-6222</b>	Construction Equipment and Technique
<b>DP-6223</b>	Structural Dynamics
<b>DP-6224</b>	Prestressed Concrete
<b>DP-6225</b>	Watershed Management

**Open Elective**

<b>DP-6231</b>	GIS and its Applications
<b>DP-6232</b>	Disaster Management
<b>DP-6233</b>	Information Technology
<b>DP-6234</b>	Energy studies
<b>DP-6235</b>	Computer Programming