

# STATE BOARD OF TECHNICAL EDUCATION, BIHAR

## Scheme of Teaching and Examinations for V<sup>th</sup> SEMESTER DIPLOMA IN CIVIL ENGINEERING / CIVIL (RURAL) ENGINEERING (Effective from Session 2020-21 Batch )

### THEORY

Sr. No.	SUBJECT	SUBJECT CODE	TEACHING SCHEME	EXAMINATION-SCHEME							
			Periods per Week	Hours of Exam.	Teacher's Assessment (TA) Marks A	Class Test (CT) Marks B	End Semester Exam. (ESE) Marks C	Total Marks (A+B+C)	Pass Maks ESE	Pass Marks in the Subject	Credits
1.	Design of steel and R.C.C Structure	2015501	03	03	10	20	70	100	28	40	03
2.	Estimating and Costing	2015502	03	04	10	20	70	100	28	40	03
3.	Water Resources Engineering.	2015503	03	03	10	20	70	100	28	40	03
4.	Program Elective-I	2015504	03	03	10	20	70	100	28	40	03
Precast and Prestressed Concrete (2015504A)			Construction Management (2015504B)				Rural Construction Technology (2015504C)				
5.	Open Elective / COE		02	03	10	20	70	100	28	40	02
Traffic Engineering (2015505A)			Solid Waste Management (2015505B)				Advanced Construction Technology (2015505C)				
Artificial Intelligence (Basics) (2000505B)			Internet of Things (Basics) (2000505C)				Drone Technology (Basics) (2000505D)				
3D Printing & Design (Basics) (2000505E)			Industrial Automation (Basics) (2000505F)			Electric Vehicles (Basics) (2000505G)			Robotics (Basics) (2000505H)		
<b>Total :-</b>			<b>14</b>				<b>350</b>	<b>500</b>			<b>14</b>

### PRACTICAL

Sr. No.	SUBJECT	SUBJECT CODE	TEACHING SCHEME	EXAMINATION-SCHEME					
			Periods per Week	Hours of Exam.	Practical (ESE)		Total Marks	Pass Marks in the Subject	Credits
					Internal (PA)	External (ESE)			
6.	Estimating & Costing Lab	2015506	04 50% Physical 50% Virtual	04	15	35	50	20	02
7.	Elective Lab / COE Lab		04 50% Physical 50% Virtual	03	20	30	50	20	02
Design of steel and RCC structure Lab (2015508 A)			Artificial Intelligence Lab (Basics) (2000508B)				Internet of Things Lab (Basics) (2000508C)		
Drone Technology Lab (Basics) (2000508D)			3D Printing & Design Lab (Basics) (2000508E)						
Industrial Automation Lab (Basics) (2000508F)			Electric Vehicles Lab (Basics) (2000508G)				Robotics Lab (Basics) (2000508H)		
<b>Total :- 08</b>							<b>100</b>		<b>04</b>

### TERM WORK

Sr. No.	SUBJECT	SUBJECT CODE	TEACHING SCHEME	EXAMINATION-SCHEME					
			Periods per Week	Marks of Internal (PA)	Marks of External (ESE)	Total Marks	Pass Marks in the Subject	Credits	
8.	In- Plant training	2015509	Four Weeks.	15	35	50	20	02	
9.	Minor Project	2015510	04	07	18	25	10	02	
10.	Term Work		02	20	30	50	20	01	
Course under Moocs/ NPTEL / Others (2015511)		Artificial Intelligence (Basics) (TW) (2000511 B)		Internet of Things (Basics) (TW) (2000511 C)		Drone Technology (Basics) (TW) (2000511D)			
3D Printing (Basics) (TW) (2000511E)		Industrial Automation (Basics) (TW) (2000511F)		Electric Vehicles (Basics) (TW) (2000511G)		Robotics (Basics) (TW) (2000511H)			
11	Course Primavera/3D Max / Others	2015512	02	07	18	25	10	01	
<b>Total:-</b>							<b>08</b>	<b>150</b>	<b>06</b>
Total Periods Per week each of duration one hour = 30						Total Marks = 750			24