

DR. K. N. MODI UNIVERSITY



Department OF Civil Engineering

Study and evaluation scheme
B.TECH 1ST YEAR
(2018-19)

(Year-I Semester-Ist)

S. NO	Sub Code	Subject Name	Period			Evaluation Scheme			Credit
			L	T	P	Continuous Assessment	Final Exam	Total	
1	01BT101	Mathematics –I	3	1	0	40	60	100	4
2	01BT102	Physics	3	1	0	40	60	100	4
3	01BT110	Programming for Problem Solving	3	1	0	40	60	100	4
LAB									
1	01BP102	Physics Laboratory	0	0	3	50	50	100	1.5
2	01BP109	Engineering Graphics & Design Lab	1	0	4	50	50	100	3
3	01BP111	Programming for Problem Solving Lab	0	0	2	50	50	100	1
4	01BP1010	Seamless Learning	0	0	1	100		100	0.5
5	01BP1011	Co-Curricular Activities	0	0	1	100		100	0.5
Total			10	3	11			800	18.5

(Year-I Semester-IInd)

S. NO	Sub Code	Subject Name	Period			Evaluation Scheme			Credit
			L	T	P	Continuous Assessment	Final Exam	Total	
1	01BT201	Mathematics –II	3	1	0	40	60	100	4
2	01BT214	Chemistry	3	1	0	40	60	100	4
3	01BT217	Basic Electrical Engineering	3	1	0	40	60	100	4
4	01BT219	English	2	0	0	40	60	100	2
LAB									
1	01BP214	Chemistry Lab	0	0	3	50	50	100	1.5
2	01BP217	Basic Electrical Engineering Lab	0	0	2	50	50	100	1
3	01BP218	Workshop manufacturing Practices Lab	1	0	4	50	50	100	3
4	01BP219	English Lab	0	0	2	50	50	100	1
5	01BP2010	Seamless Learning	0	0	1	100		100	0.5
6	01BP2011	Co-Curricular Activities	0	0	1	100		100	0.5
Total			12	3	13			1000	21.5

(Year-II Semester-IIIrd)

S. NO	Sub Code	Subject Name	Period			Evaluation Scheme			Credit
			L	T	P	Continuous Assessment	Final Exam	Total	
1	02BT301	Mathematics-III	3	1	0	40	60	100	4
2	02BTME308	Fluid Mechanics	3	1	0	40	60	100	4
3	02BTCE301	Building Material	4	0	0	40	60	100	4
4	02BTME309	Mechanics of Solids	3	1	0	40	60	100	4
5	02BT312	Environment & Ecology	4	0	0	40	60	100	3
6	02BTCE309	Surveying	3	1	0	40	60	100	4
LAB									
1	02BPME308	Fluid Mechanics Lab	0	0	2	50	50	100	1
2	02BPCE308	Building Materials Lab	0	0	2	50	50	100	1
3	02BPCE309	Surveying Lab	0	0	2	50	50	100	1
4	02BPCE307	CBSNT Lab	0	0	2	50	50	100	1
5	02BP3010	Seamless Learning	0	0	2	100		100	1
6	02BP3011	Co-Curricular Activities	0	0	2	100		100	1
		Total	20	4	12			1200	29

(Year-II Semester-IVth)

S. NO	Sub Code	Subject Name	Period			Evaluation Scheme			Credit
			L	T	P	Continuous Assessment	Final Exam	Total	
1	02BT402	Human Value & Professional Ethics	3	0	0	40	60	100	3
2	02BTCE403	Engineering Geology	4	0	0	40	60	100	4
3	02BTCE405	Hydraulics & Hydraulic Machines	3	1	0	40	60	100	4
4	02BTCE406	Geo-informatics	4	0	0	40	60	100	4
5	02BTCE407	Structural Analysis-I	3	1	0	40	60	100	4
6	SOE008-SOE010	Departmental Elective-I	4	0	0	40	60	100	4
LAB									
1	02BPCE405	Hydraulics & Machine lab	0	0	2	50	50	100	1
2	02BPCE406	Geo-informatics Lab	0	0	2	50	50	100	1
3	02BPCE407	Structural Analysis Lab	0	0	2	50	50	100	1
4	02BPCE409	Building Planning & Drawing Lab	0	0	2	50	50	100	1
5	02BP4010	Seamless Learning	0	0	2	100		100	1
6	02BP4011	Co-Curricular Activities	0	0	2	100		100	1
		Total	21	2	12			1200	29

Departmental Elective-I (Full Unit Course with Credit: 4)

S. No.	Subject Code	Course
1	SOE008	Material Science
2	SOE009	Building Planning and Construction Technology
3	SOE010	Concrete Technology
4	SOE011	Construction Technology

(Year-III Semester-Vth)

S. No.	Sub. Code	Subject Name	Period			Evaluation Scheme			Credit
						Continuous Assessment	Final Exam	Total	
			L	T	P				
1	03BT502	Managerial Economics	3	0	0	40	60	100	3
2	03BT504	Cyber Security	3	0	0	40	60	100	3
3	03BTCE512	Structural Analysis-II	3	1	0	40	60	100	4
4	03BTCE514	Environmental Engineering-1	4	0	0	40	60	100	4
5	03BTCE518	Geotechnical Engineering-I	3	1	0	40	60	100	4
6	03BTCE515- 03BTCE517	Departmental Elective-II	3	1	0	40	60	100	4
LAB									
1	03BPCE507	CAD Lab-I	0	0	2	50	50	100	1
2	03BPCE510	Geotechnical Engineering Lab	0	0	2	50	50	100	1
3	03BPCE512	Concrete Lab	0	0	2	50	50	100	1
4	03BPCE517	Construction Management Lab	0	0	2	50	50	100	1
5	03BP5010	Seamless Learning	0	0	2	100		100	1
6	03BP5011	Co-Curricular Activities	0	0	2	100		100	1
		Total	17	3	12			1200	28

Departmental Elective-II (Full Unit Course with Credit: 4)

S. No.	Subject Code	Course
1	03BTCE515	MODERN CONSTRUCTION MATERIAL
2	03BTCE516	GEO ENVIRONMENTAL ENGINEERING
3	03BTCE517	QUANTITY ESTIMATION & MANAGEMENT

(Year-III Semester-VIth)

S. No	Sub. Code	Subject Name	Period			Evaluation Scheme			Credit
						Continuous Assessment	Final Exam	Total	
			L	T	P				
1	03BT601	Industrial Management	3	0	0	40	60	100	3
2	03BT602	Industrial Sociology	3	0	0	40	60	100	3
3	03BTCE610	Environmental Engineering-II	4	0	0	40	60	100	4
4	03BTCE617	Transportation Engineering – I	4	0	0	40	60	100	4
5	03BTCE612, 18,19, 21)	Departmental Elective-III	4	0	0	40	60	100	4
6	03BTCE620	Design of Concrete Structure	3	1	0	40	60	100	4
LAB									
1	03BPCE610	Environmental Engineering Lab	0	0	2	50	50	100	1
2	03BPCE611	Structural Detailing Lab	0	0	2	50	50	100	1
3	03BPCE612	CAD Lab-2	0	0	2	50	50	100	1
4	03BPCE617	Transportation Engineering Lab	0	0	2	50	50	100	1
5	03BP6010	Seamless Learning	0	0	2	100		100	1
6	03BP6011	Co-Curricular Activities	0	0	2	100		100	1
Total			21	1	12			1200	28

Departmental Elective-III (Full Unit Course with Credit: 4)

S. No.	Subject Code	Course
1	03BTCE612	ADVANCED FOUNDATION DESIGN
2	03BTCE618	INTEGRATED WASTE MANAGEMENT FOR A SMART CITY
3	03BTCE619	GEOSYNTHETICS AND REINFORCED SOIL STRUCTURE
4	03BTCE621	GEOTECHNICAL ENGINEERING-II

(Year-IV Semester-VIIIth)

S. No.	Sub Code	Subject Name	Period			Evaluation Scheme			Credit
			L	T	P	Continuous Assessment	Final Exam	Total	
1	04BTCE712	Design of Steel Structure	3	1	0	40	60	100	4
2	04BTCE713	Water Resources Engineering	3	1	0	40	60	100	4
3	04BTCE714- 04BTCE717	Open Elective-I	4	0	0	40	60	100	4
4	04BTCE718- 04BTCE722	Departmental Elective-IV	3	1	0	40	60	100	4
5	04BTCE723- 04BTCE726	Departmental Elective-V	3	1	0	40	60	100	4
LAB									
1	04BPCE717	Seminar	0	0	4	100	100	200	2
2	04BPCE718	*Industrial Training	0	0	4	100		100	2
3	04BPCE719	**Project	0	0	4	100	100	200	4
4	04BP7010	Seamless Learning	0	0	2	100		100	1
5	04BP7011	Co-Curricular Activities	0	0	2	100		100	1
Total			16	4	16			1200	30

*4 weeks Industrial Training after VI semester to be evaluated in VII semester.

**Project should be initiated in VII semester beginning and should be completed by the end of VIII semester.

Departmental Elective IV (Full Unit Course with Credit: 4)

S. No.	Subject Code	Course
1	04BTCE718	Bridge Engineering
2	04BTCE719	Finite Element Methods
3	04BTCE720	Advanced Concrete Design
4	04BTCE721	Industrial Pollution Control & Env. Audit
5	04BTCE722	Engineering Hydrology

Departmental Elective- V (Full Unit Course with Credit: 4)

S. No.	Subject Code	Course
1	04BTCE723	Precast and modular construction Practices
2	04BTCE724	Plastic analysis of structures
3	04BTCE725	Open channel flow
4	04BTCE726	Tunnel Engineering

(Year-IV Semester-VIIIth)

S. NO.	Sub Code	Subject Name	Period			Evaluation Scheme			Credit
			L	T	P	Continuous Assessment	Final Exam	Total	
1	04BTCE812	Transportation Engineering -II	3	1	0	40	60	100	4
2	04BTCE813- 04BTCE816	Open Elective-II	4	0	0	40	60	100	4
3	04BTCE817- 04BTCE820	Departmental Elective-VI	3	1	0	40	60	100	4
4	04BTCE821- 04BTCE824	Departmental Elective-VII	3	1	0	40	60	100	4
LAB									
1	04BPCE801	Major Project	0	0	12	300	300	600	12
2	04BP8010	Seamless Learning	0	0	2	100		100	1
3	04BP8011	Co-Curricular Activities	0	0	2	100		100	1
Total			13	3	16			1200	30

Departmental Elective- VI (Full Unit Course with Credit: 4)

S. No.	Subject Code	Course
1	04BTCE817	Computer Aided Design
2	04BTCE818	Analysis and Design of Hydraulic Structures
3	04BTCE819	Water Resources Systems
4	04BTCE820	Machine Foundation Design

Departmental Elective- VII (Full Unit Course with Credit: 4)

S. No.	Subject Code	Course
1	04BTCE821	Ground Improvement Techniques
2	04BTCE822	River Engineering
3	04BTCE823	Groundwater Management
4	04BTCE824	Earthquake Resistant Design of structures

Open Elective- I (Full Unit Course with Credit: 4)

S. No.	Subject Code	Course
1	04BTCE714	Entrepreneurship Development
2	04BTCE715	Quality Management
3	04BTCE716	Operations Research
4	04BTCE717	Advanced Concrete Technology

Open Elective- II (Full Unit Course with Credit: 4)

S. No.	Subject Code	Course
1	04BTCE813	Non-Conventional Energy Resources
2	04BTCE814	Design of Prestressed concrete Structure
3	04BTCE815	Advanced Steel Design
4	04BTCE816	Automation & Robotics