

SVKM'S NMIMS
Mukesh Patel School of Technology Management & Engineering
 Course Structure: Academic Year 2017-18
 Teaching Scheme: B. Tech. (1st Year)
 (As approved in the Academic Council)

Name of the Programme : B. Tech. (Civil Engineering)							Year: 2017 - 18							Semester : I						
Sr. No.	Module / Course Code	Name of the Module/ Course	Theory (Hours per week)	Practical (Hours per week)	Tutorials (Hours per week)	Total Hours per week	Total Credits	Term End Exam Duration (Hrs)		Examination Scheme (Weightage)							Template Codes			
										*ICA					TEE (University / School examination)			Total		
								Written	Only ICA	Test I	Test II	Term work	Total Marks	Scaled to (Marks)	Marks	Scaled to (Marks)		Marks	Weightage %	
1	BTAB01001	Engineering Mathematics - I	3	0	2	5	4	Written/ 3 hrs.	-	10	10	30	50	30	70	70	100	100	7008	
2	BTAB01002	Engineering Physics	3	2	0	5	4	Written/ 3 hrs.	-	10	10	30	50	30	70	70	100	100	7008	
3	BTAB01003	Basic Electrical Engineering	3	2	0	5	4	Written/ 3 hrs.	-	10	10	30	50	30	70	70	100	100	7008	
4	BTAB01004	Engineering Drawing	3	4	0	7	5	Practical/ 3 hrs.	-	10	10	30	50	30	70*	70	100	100	7008	
5	BTAB01005	Engineering Mechanics-I	3	2	0	5	4	Written/ 3 hrs.	-	10	10	30	50	30	70	70	100	100	7008	
6	BTAB01006	Computer Programming-I	3	2	0	5	4	Written/ 3 hrs.	-	10	10	30	50	30	70	70	100	100	7008	
7	BTAB01007	Communication Skills	2	0	2	4	3	Written/ 3 hrs.	-	10	10	30	50	30	70	70	100	100	7008	
Total			20	12	4	36	28	21		70	70	210	350	210	490	490	700			

*Practical/TEE examination to be conducted at School level

Name of the Programme : B. Tech. (Civil Engineering)							Year: 2017 - 18							Semester : II						
Sr. No.	Module / Course Code	Name of the Module/ Course	Theory (Hours per week)	Practical (Hours per week)	Tutorials (Hours per week)	Total Hours per week	Total Credits	Term End Exam Duration (Hrs)		Examination Scheme (Weightage)							Template Codes			
										*ICA					TEE (University / School examination)			Total		
								Written	Only ICA	Test I	Test II	Term work	Total Marks	Scaled to (Marks)	Marks	Scaled to (Marks)		Marks	Weightage %	
1	BTCI02001	Engineering Mathematics-II	3	0	2	5	4	Written/ 3 hrs.	-	10	10	30	50	30	70	70	100	100	7008	
2	BTCI02002	Engineering Chemistry	3	2	0	5	4	Written/ 3 hrs.	-	10	10	30	50	30	70	70	100	100	7008	
3	BTCI02003	Basic Electronics	3	2	0	5	4	Written/ 3 hrs.	-	10	10	30	50	30	70	70	100	100	7008	
4	BTCI02004	Engineering Mechanics -II	3	0	2	5	4	Written/ 3 hrs.	-	10	10	30	50	30	70	70	100	100	7008	
5	BTCI02005	Computer Programming-II	3	2	0	5	4	Written/ 3 hrs.		10	10	30	50	30	70	70	100	100	7008	
6	BTCI02006	Workshop Practice	0	4	0	4	2	-	Only ICA	-	-	50	50	50	-	-	50	100	7003	
7	BTCI02007	Constitution of India	2	0	0	2	0	-	Only ICA	10	10	30	50	50	-	-	50	100	7003	
Total			17	10	4	31	22	15		60	60	230	350	250	350	350	600			

SVKM's NMIMS
School Name: MUKESH PATEL SCHOOL OF TECHNOLOGY MANAGEMENT & ENGINEERING
Teaching Scheme for Academic Year: 2017-2018
(As approved in the Academic Council)

Name of the Programme: B.TECH. CIVIL ENGINEERING							Year of the Programme: Second Year					Semester : III							
Sr. No.	Module/ Course Code	Name of the Module/Course	Theory (Hours per week)	Practicals (Hours per week)	Tutorials (Hours per week)	Total No. of Hours for the Subject (Hours per week)	Total Credits	Term End Exam Duration (Hrs)		Examination Scheme (Weightage)							Templa te Codes		
										ICA					TEE (University/School Examination)			Total	
								Written	Only ICA	Test I	Test II	Term Work	Total Marks	Scaled to (Marks)	Marks	Scaled to (Marks)		Marks	Weightage %
1	BTCI03001	Engineering Mathematics - III	3	0	2	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
2	BTCI03002	Surveying - I	3	2	0	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
3	BTCI03003	Strength of Materials	3	2	0	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
4	BTCI03004	Building Materials and Construction	3	0	2	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
5	BTCI03005	Engineering Geology	3	0	0	3	3	3	-	15	15	20	50	30	70	70	100	100	7008
6	BTCI03006	Fluid Mechanics	3	2	0	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
Total			18	6	4	28	23	18	-	90	90	120	300	180	420	420	600		

Name of the Programme: B.TECH. CIVIL ENGINEERING							Year of the Programme: Second Year					Semester : IV							
Sr. No.	Module/ Course Code	Name of the Module/Course	Theory (Hours per week)	Practicals (Hours per week)	Tutorials (Hours per week)	Total No. of Hours for the Subject (Hours per week)	Total Credits	Term End Exam Duration (Hrs)		Examination Scheme (Weightage)							Templa te Codes		
										ICA					(University/School Examination)			Total	
								Written	Only ICA	Test I	Test II	Term Work	Total Marks	Scaled to (Marks)	Marks	Scaled to (Marks)		Marks	Weightage %
1	BTCI04001	Engineering Mathematics - IV	3	0	2	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
2	BTCI04002	Surveying - II	3	2	0	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
3	BTCI04003	Structural Analysis - I	3	0	2	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
4	BTCI04004	Concrete Technology	3	2	0	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
5	BTCI04005	Hydraulic Engineering	3	2	0	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
6	BTCI04006	Building Design and Drawing - I	1	4	0	5	3	4	-	15	15	20	50	30	70	70	100	100	7008
7	BTCI04007	Safety Health and Environmental Engineering**	2	0	0	2	0	-	Only ICA	15	15	20	50	50	-	-	50	100	7003
Total			18	10	4	32	23	19	-	105	105	140	350	230	420	420	650		

** Non Credit Course

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School Name: MUKESH PATEL SCHOOL OF TECHNOLOGY MANAGEMENT & ENGINEERING
Teaching Scheme for Academic Year: 2017-2018
(As approved in the Academic Council)

Name of the Programme: B.TECH. CIVIL ENGINEERING							Year of the Programme: Third Year					Semester : V								
Sr. No.	Module/ Course Code	Name of the Module/Course	Theory (Hours per week)	Practicals (Hours per week)	Tutorials (Hours per week)	Total No. of Hours for the Subject (Hours per week)	Total Credits	Term End Exam Duration (Hrs)		Examination Scheme (Weightage)										Template Codes
										ICA					(University/School Examination)		Total			
								Written	Only ICA	Test I	Test II	Term Work	Total Marks	Scaled to (Marks)	Marks	Scaled to (Marks)	Marks	Weightage %		
1	BTCI05001	Structural Analysis - II	3	0	2	5	4	3	-	15	15	20	50	30	70	70	100	100	7008	
2	BTCI05002	Geotechnical Engineering - I	3	2	0	5	4	3	-	15	15	20	50	30	70	70	100	100	7008	
3	BTCI05003	Building Design and Drawing - II	1	2	0	3	2	-	Only ICA	15	15	20	50	50	-	-	50	100	7003	
4	BTCI05004	Hydraulic Machinery	3	2	0	5	4	3	-	15	15	20	50	30	70	70	100	100	7008	
5	BTCI05005	Highway and Railway Engineering	3	2	0	5	4	3	-	15	15	20	50	30	70	70	100	100	7008	
6	BTCI05006	Environmental Engineering - I	3	2	0	5	4	3	-	15	15	20	50	30	70	70	100	100	7008	
7	BTCI05007	Building Utilities and Services	3	0	0	3	3	3	-	15	15	20	50	30	70	70	100	100	7008	
8	BTCI05008	Entrepreneurship and Management**	2	0	0	2	0	-	Only ICA	15	15	20	50	50	-	-	50	100	7003	
Total			21	10	2	33	25	18	-	120	120	160	400	280	420	420	700			

** Non Credit Course

Name of the Programme: B.TECH. CIVIL ENGINEERING							Year of the Programme: Third Year					Semester : VI								
Sr. No.	Module/ Course Code	Name of the Module/Course	Theory (Hours per week)	Practicals (Hours per week)	Tutorials (Hours per week)	Total No. of Hours for the Subject (Hours per week)	Total Credits	Term End Exam Duration (Hrs)		Examination Scheme (Weightage)										Template Codes
										ICA					TEE (University/School Examination)		Total			
								Written	Only ICA	Test I	Test II	Term Work	Total Marks	Scaled to (Marks)	Marks	Scaled to (Marks)	Marks	Weightage %		
1	BTCI06001	Geotechnical Engineering - II	3	0	2	5	4	3	-	15	15	20	50	30	70	70	100	100	7008	
2	BTCI06002	Theory of Reinforced Concrete and Prestressed Concrete	3	0	2	5	4	3	-	15	15	20	50	30	70	70	100	100	7008	
3	BTCI06003	Irrigation Engineering	3	0	0	3	3	3	-	15	15	20	50	30	70	70	100	100	7008	
4	BTCI06004	Environmental Engineering - II	3	0	2	5	4	3	-	15	15	20	50	30	70	70	100	100	7008	
5	BTCI06005	Design of Steel Structures	3	0	2	5	4	3	-	15	15	20	50	30	70	70	100	100	7008	
6	BTCI06006	Transportation Engineering	3	0	0	3	3	4	-	15	15	20	50	30	70	70	100	100	7008	
7	BTCI06007	Presentation and Communication Techniques	2	2	0	4	3	3	-	15	15	20	50	30	70	70	100	100	7008	
Total			20	2	8	30	25	22	-	105	105	140	350	210	490	490	700			

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Teaching Scheme for Academic Year: 2018-2019																							
(As approved in the Academic Council)																							
Name of the Programme: B.TECH CIVIL ENGINEERING								Year of the Programme: Fourth Year								Semester : VII							
Sr. No.	Module / Subject Code	Name of the Module	Theory Hours per week	Practicals Hours per week	Tutorials Hours per week	Total no. of hours for the subject	Credit/s	Credit/s types	Duration of Examination (Hrs)		Mode of Exam	Examination Scheme (Weightage)								Template Codes	GR applicable (Yes / No)	Remark	
									Term End Examination	Only ICA		Distribution of ICA Marks					TEE		Total				
												Test I	Test II	Term work *	Total Marks	Scaled to (Marks)	Marks (Question Paper)	Scaled to (Marks)	Marks (ICA+ TEE)				Weightage %
1	BTCI07001	Limit State Design of Reinforced Concrete Structures	3	0	2	5	4	full credit	3	-	Written	15	15	20	50	30	70	70	100	100	7008	Yes	
2	BTCI07002	Quantity Surveying, Estimation and Valuation	3	0	2	5	4	full credit	3	-	Written	15	15	20	50	30	70	70	100	100	7008	Yes	
3	BTCI07003	Construction Equipment and Techniques	3	0	2	5	4	full credit	3	-	Written	15	15	20	50	30	70	70	100	100	7008	Yes	#
4	BTCI07004	Project - I	0	0	6	6	3	full credit	-	Only ICA	-	-	-	50	50	50	-	-	50	100	7003	No	
5	BTCI07005-10	Elective - I	3	0	2	5	4	full credit	3	-	Written	15	15	20	50	30	70	70	100	100	7008	Yes	
6	BTCI07011-17	Elective - II	3	0	2	5	4	full credit	3	-	Written	15	15	20	50	30	70	70	100	100	7008	Yes	
Total			15	0	16	31	23		15			75	75	150	300	200	350	350	550				

* Term Work = Viva / Presentations / Journals / Assignments / Quizzes / MCQs / Business plans / Role Plan etc.

Syllabus common for B.Tech (Civil) and MBA Tech. (Civil), can use common question paper

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Teaching Scheme for Academic Year: 2018-2019																							
(As approved in the Academic Council)																							
Name of the Programme: B.TECH CIVIL ENGINEERING								Year of the Programme: Fourth Year								Semester : VIII							
Sr. No.	Module / Subject Code	Name of the Module	Theory Hours per week	Practicals Hours per week	Tutorials Hours per week	Total no. of Hours for the subject	Credit/s	Credit/s types	Duration of Examination (Hrs)		Mode of Exam	Examination Scheme (Weightage)								Template Codes	GR applicable (Yes / No)	Remark	
									Term End Examination	Only ICA		Distribution of ICA Marks					TEE		Total				
												Test I	Test II	Term work *	Total Marks	Scaled to (Marks)	Marks (Question Paper)	Scaled to (Marks)	Marks (ICA+ TEE)				Weightage %
1	BTCI08001	Advanced Design of Concrete Structures	3	0	2	5	4	full credit	3	-	Written	15	15	20	50	30	70	70	100	100	7008	Yes	
2	BTCI08002	Construction Project Management and Finance	3	0	2	5	4	full credit	3	-	Written	15	15	20	50	30	70	70	100	100	7008	Yes	
3	BTCI08003	Project-II	0	0	12	12	6	full credit	-	Only ICA	-	-	-	100	100	100	-	-	100	100	7003	No	
4	BTCI08004-09	Elective - III	3	0	2	5	4	full credit	3	-	Written	15	15	50	50	30	70	70	100	100	7008	Yes	
5	BTCI08010-16	Elective - IV	3	0	2	5	4	full credit	3	-	Written	15	15	20	50	30	70	70	100	100	7008	Yes	
6	BTCI08017	Numerical Methods	3	0	2	5	4	full credit	3	-	Written	15	15	20	50	30	70	70	100	100	7008	Yes	NUE
Total			15	0	22	37	26		15			75	75	230	350	250	350	350	600				

* Term Work = Viva / Presentations / Journals / Assignments / Quizzes / MCQs / Business plans / Role Plan etc.

NUE = Non University Examination (examination conducted at school level)

Elective - I	
Module/ Subject Code	Name of the Module
BTCI07005	Advanced Structural Analysis
BTCI07006	Advanced Structural Mechanics
BTCI07007	Soil Dynamics
BTCI07008	Water Distribution Systems
BTCI07009	Finite Element Analysis in Civil Engineering
BTCI07010	Analysis of Transportation System

Elective - II	
Module/ Subject Code	Name of the Module
BTCI07011	Pavement Subgrade and Materials
BTCI07012	Urban Transportation Systems Planning
BTCI07013	Planning and Design of Environmental Facilities
BTCI07014	Air Quality Management
BTCI07015	Green and Intelligent Buildings
BTCI07016	Construction Safety
BTCI07017	Construction Economics and Finance Management

Pls. Note :-Any approval/change should be highlighted in gray as per academic councils meeting, dated _____

Elective-III	
Module/ Subject Code	Name of the Module
BTCI08004	Structural Dynamics
BTCI08005	Earthquake Engineering
BTCI08006	Rock Mechanics
BTCI08007	Design of Hydraulic Structures
BTCI08008	Numerical Modelling of Groundwater Flow and Transport
BTCI08009	Traffic Analysis and Design

Elective-IV	
Module/ Subject Code	Name of the Module
BTCI08010	Pavement Design and Construction
BTCI08011	GIS and Remote Sensing
BTCI08012	Industrial Waste Treatment
BTCI08013	Environmental Impact Assessment and Audit
BTCI08014	Construction Quality Control and Assurance
BTCI08015	Construction Contracts and Administration
BTCI08016	Smart Cities: Planning and Technology