



LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA'S

PRIYADARSHINI COLLEGE OF ENGINEERING

(Recognised by A.I.C.T.E. New Delhi & Govt. of Maharashtra Affiliated to R.T.M. Nagpur University)

Near C.R.P.F. Campus, Hingna Road, Nagpur - 440 019 (Maharashtra) India

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AICTE ID No. 5435581; DTE CODE No. 4123; UNIVERSITY CODE No. 278

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AN AUTONOMOUS INSTITUTE



CURRICULUM

UNDER GRADUATE PROGRAMME

B.TECH. CIVIL ENGINEERING

WITH EFFECT FROM THE ACADEMIC YEAR 2024-2025

LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA

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SCHEME OF EXAMINATION
B. TECH. CIVIL ENGINEERING

Semester wise Credit distribution structure for Four Year B.Tech Program

Semester		I	II	III	IV	V	VI	VII	VIII	Total Credits
Basic Science Course	BSC/ESC	8	8	--	--	--	--	--	--	16
Engineering Science Course		7	7	--	--	--	--	--	--	14
Programme Core Course (PCC)	Program Courses	2	--	11	9	15	11	7	--	55
Programme Elective Course (PEC)		--	--	--	--	3	6	3	6	18
Multidisciplinary Minor (MDM)	Multidisciplinary Courses	--	--	2	2	2	4	4	--	14
Open Elective (OE) Other than a particular program		--	--	3	2	2	--	--	--	7
Vocational and Skill Enhancement Course (VSEC)	Skill Courses	2	2	--	2	--	2	--	--	8
Ability Enhancement Course (AEC-01,AEC-02)	Humanities Social Science and Management (HSSM)	--	2	--	2	--	--	--	--	4
Entrepreneurship/Economics/Management Courses)		--	--	2	2	--	--	--	--	4
Indian Knowledge System (IKS)		2	--	--	--	--	--	--	--	2
Value Education Course (VEC)		--	--	2	2	--	--	--	--	4
Research Methodology	Experiential Learning Courses	--	--	--	--	--	--	2	--	2
Comm. Engg. Project (CEP)/Field Project(FP)		--	--	2	--	--	--	--	--	2
Project		--	--	--	--	--	--	4	--	4
Internship/OJT		--	--	--	--	--	--	--	12	12
Co-curricular (CC)	Liberal Learning Courses	2	2	--	--	--	--	--	--	4
Total Credits		23	21	22	21	22	23	20	18	170

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FIRST SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UFY1C1T	BSC	ASH	Advanced Calculus &Statistics	3	1	0	4	40	60	--	--	100
2	24UFY1A2T	BSC	ASH	Engineering Chemistry	3	0	0	3	40	60	--	--	100
3	24UFY1A2P	BSC	ASH	Lab: Engineering Chemistry	0	0	2	1	--	--	25	25	50
4	24UFY1B3T	ESC	CSE	Computer Programming	2	0	0	2	20	30			50
5	24UFY1B3P	ESC	CSE	Lab: ComputerProgramming	0	0	2	1	--	--	25	25	50
6	24UFY1A4T	ESC	EE	Basics of Electrical &Electronics Engineering	3	0	0	3	40	60	--	--	100
7	24UFY1A4P	ESC	EE	Lab: Basics of Electrical & Electronics Engineering	0	0	2	1	--	--	25	25	50
8	24UFY221T	PCC	CV	Building Materials & Elements	2	0	0	2	20	30	--	--	50
9	24UFY1A5T	IKS	ASH	Indian Traditionalknowledge	2	0	0	2	20	30	--	--	50
10	24UFY1A6P	SEC1	ASH	Skill Enhancement in Instrumental Techniques	0	1	2	2	--	--	25	25	50
11	24UFY111P	CC1	ASH	Liberal Learning Course:Yoga and Meditation	0	1	2	2	--	-	50	--	50
	24UFY112P			Liberal Learning Course: Physical Education(Sports)									
	24UFY113P			Liberal Learning Course : Music									
	24UFY114P			Liberal Learning Course: National Service Scheme (NSS)									
				Total	15	3	10	23	160	240	200	150	750

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SECOND SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1.	24UFY2A1T	BSC	ASH	Basic calculus & differential equations	3	1	0	4	40	60	--	--	100
2.	24UFY2B2T	BSC	ASH	Engineering Physics	3	0	0	3	40	60	--	--	100
3.	24UFY2B2P	BSC	ASH	Lab: Engineering Physics	0	0	2	1	--	--	25	25	50
4.	24UFY2D3T	ESC	CV	Engineering Mechanics	3	0	0	3	40	60		--	100
5.	24UFY2D3P	ESC	CV	Lab: Engineering Mechanics	0	0	2	1	--	--	25	25	50
6.	24UFY2B4T	ESC	ME	Computer Aided Graphics.	1	0	0	1	20	30	--	--	50
7.	24UFY2B4P	ESC	ME	Lab: Computer AidedGraphics	0	0	2	1	--	--	25	25	50
8.	24UFY1A5P	ESC	ME	Lab: Engineering Workshop	0	0	2	1	--	-	25	25	50
9.	24UFY2B6T	AEC	ASH	Communication skills	1	0	0	1	20	30	--	--	50
10.	24UFY2B6P	AEC	ASH	Lab: Communicationskills	0	0	2	1	--	--	25	25	50
11	24UFY2A7P	SEC2	ASH	Skill Enhancement in Analytical Techniques	0	1	2	2	--	--	25	25	50
12.	24UFY211P	CC2	ASH	Liberal Learning Course: Creative Arts	0	1	2	2	--	-	25	25	50
	24UFY212P			Liberal Learning Course: Professional Skills									
	24UFY213P			Liberal Learning Course: Photography & Film Making									
	24UFY214P			Liberal Learning Course: Foreign Language (German Or French)									
				Total	11	3	14	21	180	270	150	100	700

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THIRD SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UCV301T	PCC	CV	Environmental Engineering	3	0	0	3	40	60	--	--	100
2	24UCV301P	PCC	CV	Lab: Environmental Engineering	0	0	2	1	--	--	25	25	50
3	24UCV302T	PCC	CV	Geotechnical Engineering	3	0	0	3	40	60	--	--	100
4	24UCV302P	PCC	CV	Lab: Geotechnical Engineering	0	0	2	1	--	--	25	25	50
5	24UBS303T	MDM	AS H	General Mathematical Techniques	2	0	0	2	20	30	--	--	50
6	24UCV304T	PCC	CV	Strength of Material	2	0	0	2	20	30	--	--	50
7	24UCV304P	PCC	CV	Lab: Strength of Material	0	0	2	1	--	--	25	25	50
8	24UOE3XXT	OE	CV	Open Elective:01	3	0	0	3	40	60	--	--	100
9	24UCV305P	CEP	CV	Mini Project	0	0	4	2	--	--	25	25	50
10	24UBS306T	EMC	ASH	Digital Economy & Management	2	0	0	2	20	30	--	--	50
11	24UBS307T	VEC	ASH	Universal Human Values	2	0	0	2	20	30	--	--	50
				Total	17	0	10	22	200	300	100	100	700

Open Elective:01		
S.N.	Course Code	Course Name
1	24UOE331T	Building Materials and Elements
2	24UOE332T	Solid Waste Management
3	24UOE333T	Green Building

Multidisciplinary Minor :01		
S.N.	Course Code	Course Name
1	24UBS303T	General Mathematical Techniques

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FOURTH SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UCV401T	PCC	CV	Structural Analysis	3	0	0	3	40	60	--	--	100
2	24UCV401P	PCC	CV	Lab: Structural Analysis	0	0	2	1	--	--	25	25	50
3	24UCV402T	PCC	CV	Surveying & Geomatics	3	0	0	3	40	60	--	--	100
4	24UCV402P	PCC	CV	Lab: Surveying & Geomatics	0	0	4	2	--	--	25	25	50
5	24UCV403P	VSEC	CV	Lab: Building Design & Drawing with CAD	0	0	4	2	--	--	25	25	50
6	24UEL404T/ 24UCT408T/ 24UME407T	MDM	EE/ CT /ME	Multidisciplinary Minor Course :02	2	0	0	2	20	30	--	--	50
7	24UOE4XXT	OE	CV	Open Elective:02	2	0	0	2	20	30	--	--	50
8	24UBS407T	AEC	ASH	Professional Communication	2	0	0	2	20	30	--	--	50
9	24UBS408T	EMC	ASH	Entrepreneurship Development & Startup	2	0	0	2	20	30	--	--	50
10	24UBS409T	VEC	ASH	Professional Ethics for Engineers	2	0	0	2	20	30	--	--	50
				Total	16	0	10	21	180	270	75	75	600

Open Elective:02		
S.N.	Course Code	Course Name
1	24UOE435T	Rural Sanitation
2	24UOE436T	e -Waste Management
3	24UOE437T	Remote Sensing, GIS & GPS
4	24UOE438T	Environmental Engineering
Multidisciplinary Minor :02		
S.N.	Course Code	Course Name
1	24UEL404T	Network Analysis
2	24UCT408T	Python Programming
3	24UME407T	Basics of Mechanical Engineering

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SCHEME OF EXAMINATION
B. TECH. CIVIL ENGINEERING

FIFTH SEMESTER

Sr.No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	25UCV501T	PCC	CV	Reinforced Cement Concrete Designs	3	0	0	3	40	60	--	--	100
2	25UCV501P	PCC	CV	Lab: Reinforced Cement Concrete Designs	0	0	2	1	--	--	25	25	50
3	25UCV502T	PCC	CV	Fluid Mechanics	3	0	0	3	40	60	--	--	100
4	25UCV502P	PCC	CV	Lab: Fluid Mechanics	0	0	2	1	--	--	25	25	50
5	25UCV503T	PCC	CV	Concrete Technology & Material Testing	3	0	0	3	40	60	--	--	100
6	25UCV503P	PCC	CV	Lab: Concrete Technology & Material Testing	0	0	2	1	--	--	25	25	50
7	25UCV504T	PCC	CV	Foundation Engineering	3	0	0	3	40	60	--	--	100
8	25UCV5XXT	PEC	CV	Program Elective Course :01	3	0	0	3	40	60	--	--	100
9	25UCV505P	MDM	CV	Multidisciplinary Minor Course :03	0	0	4	2	--	--	100	--	100
10	25UOE5XXT	OE	CV	Open Elective:03	2	0	0	2	20	30	--	--	50
				Total	17	0	10	22	220	330	175	75	800

Open Elective: 03		
S.N.	Course Code	Course Name
1	25UOE531T	Air Pollution
2	25UOE532T	Climate Change & mitigation
3	25UOE533T	Disaster Management

Multidisciplinary Minor :03		
S.N.	Course Code	Course Name
1	25UCV505P	Employability Enhancement Skills

Program Elective Course :01		
S.N.	Course Code	Course Name
1	25UCV521T	Prestressed Concrete
2	25UCV522T	Ground Improvement Techniques
3	25UCV523T	Geo Environmental Engineering
4	25UCV524T	Advanced Building Materis
5	25UCV525T	Ground Water Hydrology
6	25UCV526T	Advanced Surveying

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SCHEME OF EXAMINATION
B. TECH. CIVIL ENGINEERING

SIXTH SEMESTER

Sr. No.	Course Code	Course Category	BOS / Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	25UCV601T	PCC	CV	Estimating & Costing	3	0	0	3	40	60	--	--	100
2	25UCV601P	PCC	CV	Lab: Estimating & Costing	0	0	2	1	--	--	25	25	50
3	25UCV602T	PCC	CV	Transportation Engineering	2	0	0	2	20	30	--	--	50
4	25UCV602P	PCC	CV	Lab: Transportation Engineering	0	0	2	1	--	--	25	25	50
5	25UCV603T	PCC	CV	Hydraulics & Water Resource Engineering	3	0	0	3	40	60	--	--	100
6	25UCV603P	PCC	CV	Lab: Hydraulics & Water Resource Engineering	0	0	2	1	--	--	25	25	50
7	25UCV6XXT	PEC	CV	Program Elective Course:02	3	0	0	3	40	60	--	--	100
8	25UCV6XXT	PEC	CV	Program Elective Course :03	3	0	0	3	40	60	--	--	100
9	25UEL606T/ 25UCT606T/ 25UME607T	MDM	EE/ CT/ ME	Multidisciplinary Minor Course-04	3	0	0	3	40	60	--	--	100
10	25UEL606P/ 25UCT606P/ 25UME607P	MDM	EE/ CT/ ME	Lab: Multidisciplinary Minor Course:04	0	0	2	1	--	--	25	25	50
11	25UCV604P	VSEC	CV	Lab: Software Applications in Civil Engineering	0	0	4	2	--	--	25	25	50
				Total	17	0	12	23	220	330	125	125	800

Program Elective Course : 02

S.N.	Course Code	Course Name
1	25UCV621T	Advanced Structural Analysis
2	25UCV622T	Geosynthetics Engineering
3	25UCV623T	Climate Change & Mitigation
4	25UCV624T	Construction Equipment & Methods
5	25UCV625T	Flood Control & Drainage
6	25UCV626T	Railway Engineering

Program Elective Course :03

S.N.	Course Code	Course Name
1	25UCV631T	Structural Audit
2	25UCV632T	Advanced Soil Engineering
3	25UCV633T	Sustainable Resource Management
4	25UCV634T	Precast & Modular Construction Practices
5	25UCV635T	Hydropower Engineering
6	25UCV636T	Bridge & Tunnel Engineering

Multidisciplinary Minor-04

S.N.	Course Code	Course Name
1	25UEL606T	Instrumentation and Safety Precautions
2	25UEL606P	Lab: Instrumentation and Safety Precautions
3	25UCT606T	Data Structure & Algorithm using Python
4	25UCT606P	Lab: Data Structure & Algorithm using Python
5	25UME607T	MATLAB
6	25UME607P	Lab: MATLAB

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SCHEME OF EXAMINATION
B. TECH. CIVIL ENGINEERING

SEVENTH SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	26UCV701T	PCC	CV	Design of Steel Structure	3	0	0	3	40	60	--	--	100
2	26UCV702T	PCC	CV	Digital Land Surveying & Mapping	2	0	0	2	20	30	--	--	50
3	26UCV703T	PCC	CV	Project Planning & Management	2	0	0	2	20	30	--	--	50
4	26UCV7XXT	PEC	CV	Program Elective Course: 04	3	0	0	3	40	60	--	--	100
5	26UEL705T/ 26UCT707T/ 26UME709T	MDM	EE/ CT/ ME	Multidisciplinary Minor Course:05	3	0	0	3	40	60	--	--	100
6	26UEL705P/ 26UCT707P/ 26UME709P	MDM	EE/ CT/ ME	Lab: Multidisciplinary Minor Course :05	0	0	2	1	--	--	25	25	50
7	26UCV704T	RM	CV	Research Methodology	2	0	0	2	20	30	--	--	50
8	26UCV705P	Project	CV	Minor Project	0	0	8	4	--	--	50	50	100
				Total	15	0	10	20	180	270	75	75	600

Program Elective Course :04		
S.N.	Course Code	Course Name
1	26UCV721T	Advanced Concrete Structures
2	26UCV722T	Earth Retaining Structures
3	26UCV723T	Environment Management
4	26UCV724T	Repair Rehabilitation of Civil Engineering Structures
5	26UCV725T	Water Transmission & Distribution System
6	26UCV726T	Urban Transportation Planning

Multidisciplinary Minor :05		
S.N.	Course Code	Course Name
1	26UEL705T	Electrical Wiring & Installations
2	26UEL705P	Lab: Electrical Wiring & Installations
3	26UCT707T	Machine Learning & its Applications
4	26UCT707P	Lab: Machine Learning & its Applications
5	26UME709T	e-Vehicles with CAD Design
6	26UME709P	Lab: e-Vehicles with CAD Design

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SCHEME OF EXAMINATION
B. TECH. CIVIL ENGINEERING

EIGHTH SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	26UCV8XXT	PEC	CV	Program Elective Course:05 (MOOC) *	3	0	0	3	40	60	--	--	100
2	26UCV8XXT	PEC	CV	Program Elective Course:06 (MOOC) *	3	0	0	3	40	60	--	--	100
3	26UCV801P	Internship /OJT	CV	Project & Internship	0	0	24	12	--	--	150	150	300
				Total	6	0	24	18	80	120	150	150	500

*The list for MOOC Courses will be shared at the beginning of semester.

End Semester Examination will be conducted by Priyadarshini College of Engineering.

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SCHEME OF EXAMINATION
B. TECH. CIVIL ENGINEERING

Annexure-1
Basket of Multidisciplinary Minor Subjects
Electrical Engineering

Sr. No.	Semester	Course Code	BOS/ Department	Course Name	Credits
1	III	24UBS303T	ASH	General Mathematical techniques	2
2	IV	24UEL404T	EE	Network Analysis	2
3	V	25UCV505P	CV	Employability Enhancement Skills (EES)	2
4	VI	25UEL606T	EE	Instrumentation and Safety Precautions	3
5	VI	25UEL606P	EE	Lab: Instrumentation and Safety Precautions	1
6	VII	26UEL705T	EE	Electrical Wiring & Installations	3
7	VII	26UEL705P	EE	Lab: Electrical Wiring & Installations	1
Total					14

Computer Technology

Sr. No.	Semester	Course Code	BOS/Department	Course Name	Credits
1	III	24UBS303T	ASH	General Mathematical techniques	2
2	IV	24UCT408T	CT	Python Programming	2
3	V	25UCV505P	CV	Employability Enhancement Skills (EES)	2
4	VI	25UCT606T	CT	Data Structure & Algorithm using Python	3
5	VI	25UCT606P	CT	Lab: Data Structure & Algorithm using Python	1
6	VII	26UCT707T	CT	Machine Learning & its Applications	3
7	VII	26UCT707P	CT	Lab: Machine Learning & its Applications	1
Total					14

Mechanical Engineering

Sr. No.	Semester	Course Code	BOS/Department	Course Name	Credits
1	III	24UBS303T	ASH	General Mathematical techniques	2
2	IV	24UME407T	ME	Basics of Mechanical Engineering	2
3	V	25UCV505P	CV	Employability Enhancement Skills (EES)	2
4	VI	25UME607T	ME	MATLAB	3
5	VI	25UME607P	ME	Lab: MATLAB	1
6	VII	26UME709T	ME	E vehicles with CAD Design	3
7	VII	26UME709P	ME	E vehicles with CAD Design	1
Total					14

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Annexure-2
Basket of Open Elective Subjects

Semester III

Sr. No.	Course Code	Course Name OE:01
1.	24UOE331T	Building Materials and Elements
2.	24UOE332T	Solid Waste Management
3.	24UOE333T	Green Building

Semester IV

Sr. No.	Course Code	Course Name OE:02
1.	24UOE435T	Rural Sanitation
2.	24UOE436T	e -Waste Management
3.	24UOE437T	Remote Sensing, GIS & GPS
4.	24UOE438T	Environmental Engineering

Semester V

Sr. No.	Course Code	Course Name OE:-03
1.	25UOE531T	Air Pollution
2.	25UOE532T	Climate Change & mitigation
3.	25UOE533T	Disaster Management

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Annexure-3
List of Programme Elective Courses (PEC)

Semester-V

Sr. No.	Course Code	Course Name PEC:01
1.	25UCV521T	Prestressed Concrete
2.	25UCV522T	Ground Improvement Techniques
3.	25UCV523T	Geo Environmental Engineering
4.	25UCV524T	Advanced Building Materials
5.	25UCV525T	Ground Water Hydrology
6.	25UCV526T	Advanced Surveying

Semester-VI

Sr. No.	Course Code	Course Name PEC:02	Course Code	Course Name PEC:03
1.	25UCV621T	Advanced Structural Analysis	25UCV631T	Structural Audit
2.	25UCV622T	Geosynthetics Engineering	25UCV632T	Advanced Soil Engineering
3.	25UCV623T	Climate Change & Mitigation	25UCV633T	Sustainable Resource Management
4.	25UCV624T	Construction Equipment & Methods	25UCV634T	Precast & Modular Construction Practices
5.	25UCV625T	Flood Control & Drainage	25UCV635T	Hydropower Engineering
6.	25UCV626T	Railway Engineering	25UCV636T	Bridge & Tunnel Engineering

Semester-VII

Sr. No.	Course Code	Course Name PEC:04
1.	26UCV721T	Advanced Concrete Structures
2.	26UCV722T	Earth Retaining Structures
3.	26UCV723T	Environment Management
4.	26UCV724T	Repair Rehabilitation of Civil Engineering Structures
5.	26UCV725T	Water Transmission & Distribution System
6.	26UCV726T	Urban Transportation Planning

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Annexure-4

B. Tech. Honors in Structural Engineering

Sr. No.	Sem	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
										Theory		Practical		
						L	T	P	Credits	CE	ESE	CE	ESE	
1	IV	24UHCV4T	PCC	CV	Advanced Concrete Technology	3	0	0	3	40	60	-	-	100
2	IV	24UHCV4P	PCC	CV	Lab: Advanced Concrete Technology	0	0	2	1	-	-	25	25	50
3	V	25UHCV5T	PCC	CV	Analysis of Structural Elements	3	0	0	3	40	60	-	-	100
4	V	25UHCV5P	PCC	CV	Lab: Analysis of Structural Elements	0	0	2	1	-	-	25	25	50
5	VI	25UHCV6T	PCC	CV	Structural Dynamics	3	0	0	3	40	60	-	-	100
6	VI	25UHCV6P	PCC	CV	Lab: Structural Dynamics	0	0	2	1	-	-	25	25	50
7	VII	26UHCV7T	PCC	CV	Design of Special Structures	3	0	0	3	40	60	-	-	100
8	VII	26UHCV7P	PCC	CV	Mini Project/Case Study	0	0	6	3	-	-	50	50	100
					Total	12	0	12	18	160	240	125	125	650

BOS Chairman
Dr. R. M. Dhoble

Dean Academics
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SCHEME OF EXAMINATION
B. TECH. CIVIL ENGINEERING

Annexure-5
B. Tech. Double Minor (Multidisciplinary)
Construction Engineering

Sr. No.	Sem	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
										Theory		Practical		
						L	T	P	Credits	CE	ESE	CE	ESE	
1	IV	24UDMCV4T	PCC	CV	Civil Engineering Material Testing & Evaluation	3	0	0	3	40	60	-	-	100
2	IV	24UDMCV4P	PCC	CV	Lab: Civil Engineering Material Testing & Evaluation	0	0	2	1	-	-	25	25	50
3	V	25UDMCV5T	PCC	CV	Building Planning, Design & Drawing with CAD	3	0	0	3	40	60	-	-	100
4	V	25UDMCV5P	PCC	CV	Lab: Building Planning, Design & Drawing with CAD	0	0	2	1	-	-	25	25	50
5	VI	25UDMCV6T	PCC	CV	Surveying	3	0	0	3	40	60	-	-	100
6	VI	25UDMCV6P	PCC	CV	Lab: Surveying	0	0	2	1	-	-	25	25	50
7	VII	26UDMCV7T	PCC	CV	Estimating, Costing and Tendering	3	0	0	3	40	60	-	-	100
8	VII	26UDMCV7P	Project	CV	Project/ Case Study	0	0	6	3	-	-	50	50	100
					TOTAL	12	0	12	18	160	240	125	125	650

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SCHEME OF EXAMINATION
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Exit Scheme
Certificate Course After B.Tech First year (08 credits)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UECCCVT	PCC	CV	Surveying & Geomatics	3	1	0	4	40	60	-	-	100
2	24UECCVCP	PCC	CV	Lab: Surveying & Geomatics	0	0	8	4	-	-	50	50	100
				Total	3	1	8	08	40	60	50	50	200

Diploma Course After B.Tech Second year (08 credits)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hour				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	25UEDCCVT	PCC	CV	Civil Engineering Material Testing & Estimation	3	1	0	4	40	60	-	-	100
2	25UEDCCVP	PCC	CV	Lab: Civil Engineering Material Testing & Estimation	0	0	8	4	-	-	50	50	100
				Total	3	1	8	08	40	60	50	50	200

B.Vocational Course After B.tech Third Year (08 Credits)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hour				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	26UEBVCVT	PCC	CV	Design of Steel Structures	3	1	0	4	40	60	-	-	100
2	26UEBVCVP	Project	CV	Project/Internship	0	0	8	4	-	-	50	50	100
				Total	3	1	8	08	40	60	50	50	200

*Abbreviation: E: Exit Course, CC: Certificate Course, DC: Diploma Course, BV: B. Vocational
CV: Civil Engineering

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