



**JSPM UNIVERSITY PUNE**

Recognized by UGC u/s 2 (f) of UGC Act 1956 and enacted by the  
State Government of Maharashtra - JSPM University Act, 2022 (Mah.IV of 2023)

**JSPM University Pune**  
**Faculty of Science and Technology**  
**School of Civil and Environmental Sciences**



**NEP aligned Curriculum Structure**

**for**

**B.Tech (Civil Engineering)**

**(Effective from AY: 2024-25)**



# JSPM University Pune

FACULTY OF SCIENCE & TECHNOLOGY

SCHOOL OF CIVIL AND ENVIRONMENTAL SCIENCES

SECOND YEAR BACHELOR OF TECHNOLOGY (REGULAR)  
(CIVIL ENGINEERING)

COURSE STRUCTURE  
(NEP 2020 Aligned)

W. E. F

2024-2025

RELEASE DATE

01/07/2024

REVISION NO.

0.0 (NEP)

## SEMESTER III (LEVEL 5)

TYPE	CODE	COURSE NAME	TEACHING SCHEME				EXAMINATION SCHEME AND MARKS								TOTAL	CREDITS
			Hours / Week				THEORY (Equal Weightage for CIE and ESE)			PRACTICAL (Equal Weightage for CIE and ESE)		ORAL (Equal Weightage for CIE and ESE)				
			L	T	P	EL	CONTINUOUS INSEMESTER EVALUATION (100 Marks)			END SEMESTER EXAMINATION (100 / 50 Marks)	CONTINUOUS INSEMESTER EVALUATION (50 Marks)	END SEMESTER EXAMINATION (50 Marks)	CONTINUOUS INSEMESTER EVALUATION (50 Marks)	END SEMESTER EXAMINATION (50 Marks)		
							T1 (30 Marks)	T2 (30 Marks)	Assignments (40 Marks)							
BSC	230GMAB07_03	Ordinary Differential Equations and Multivariate Calculus	2	1	-	-	30	30	40	100	-	-	-	-	100	3
PCC	230GCEB04_03	Building Technology	2	-	-	2	30	30	40	100	-	-	-	-	100	2.5
PCC	230GCEB05_03	Strength of Materials	2	-	-	-	30	30	40	50	-	-	-	-	50	2
PCC	230GCEB06_03	Surveying	2	-	-	-	30	30	40	50	-	-	-	-	50	2
IOC	-	Interdisciplinary Open Course- I	2	-	-	-	30	30	40	100	-	-	-	-	100	2
MMC	-	Multidisciplinary Minor Course- I	1	-	2	-	-	-	-	-	50	50	50	50	100	2
VEC (HSMC)	230USYB02_03	Professional Laws, Ethics, Values and Harmony	2	-	-	-	30	30	40	50	-	-	-	-	50	2
LC	230GCEB07_03	Building Technology Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
LC	230GCEB08_03	Strength of Materials Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
LC	230GCEB09_03	Surveying Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
LLC	240VBBB02_03	Theatre and Performing Arts	-	-	2	2	-	-	-	-	50	-	-	-	50	1.5
<b>TOTAL</b>			<b>13</b>	<b>1</b>	<b>10</b>	<b>4</b>					<b>50</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>50</b>	<b>1.5</b>
														<b>750</b>	<b>20</b>	



L-Lecture

Format No.: JSPMUni/ACAD/001

T-Tutorial

Rev. No.:0.0

P-Practical Session (Laboratory)

Rev. Date:01/07/2024

EL-Experiential Learning

Page 1 of 2

Sem	Interdisciplinary Open Course (IOC)	
III (IOC-I)	Course Code	230HFSB16_03
	Course Name	Biology for Engineers

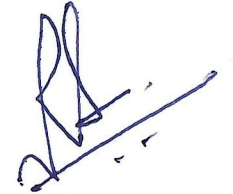
Sem	Multidisciplinary Minor Course (MMC)	
III (MMC -I)	Course Code	230GMTB01_03
	Course Name	Sensors and Actuators
IV (MMC - II)	Course Code	230GETB34_04
	Course Name	Internet of Things and Applications



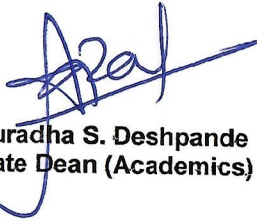
**Mr. Manjunath V Changali**  
Programme Coordinator, BTech-Civil



**Dr. M. Nithya**  
Director (I/C), School of Civil and Environmental  
Sciences



**Dr. R. S. Deshpande**  
Dean, Faculty of Science and Technology



**Dr. Anuradha S. Deshpande**  
Associate Dean (Academics)




**Prof. B.B. Anuja**  
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COURSE STRUCTURE  
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W. E. F

2024-2025

RELEASE DATE

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## SEMESTER IV (LEVEL 5)

TYPE	CODE	COURSE NAME	TEACHING SCHEME				EXAMINATION SCHEME AND MARKS								TOTAL	CREDITS	
			Hours / Week				THEORY (Equal Weightage for CIE and ESE)			PRACTICAL (Equal Weightage for CIE and ESE)		ORAL (Equal Weightage for CIE and ESE)					
			L	T	P	E	CONTINUOUS INSEMESTER EVALUATION (100 Marks)			END SEMESTER EXAMINATION (100 / 50 Marks)	CONTINUOUS INSEMESTER EVALUATION (50 Marks)	END SEMESTER EXAMINATION (50 Marks)	CONTINUOUS INSEMESTER EVALUATION (50 Marks)	END SEMESTER EXAMINATION (50 Marks)			
							T1 (30 Marks)	T2 (30 Marks)	Assignments (40 Marks)								
BSC	230GMAB08_04	Vector Calculus and Partial Differential Equations	2	1	-	-	30	30	40	100	-	-	-	-	100	3	
PCC	230GCEB10_04	Concrete Technology	2	-	-	2	25			75	-	-	-	-	100	2.5	
PCC	230GCEB11_04	Analysis of Structures	2	1	-	2	30	30	40	100	-	-	-	-	100	2.5	
MMC	-	Multidisciplinary Minor Course- II	1	-	2	-	-	-	-	-	50	50	50	50	100	3.5	
SEC	230GCEB12_04	Introduction to Building Information Modelling	2	-	2	-	-	-	-	-	50	50	50	50	100	2	
EEC (HSMC)	230GCEB03_04	Environmental Policy and Legislations	2	-	-	-	30	30	40	50	-	-	-	-	50	3	
AEC (HSMC)	230UENB02_04	Communicative Proficiency Skills	1	-	2	-	30	30	40	50	-	-	-	-	50	2	
LC	230GCEB13_04	Concrete Technology Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	2	
LC	230GCEB14_04	Computerized Building Drawing	-	-	2	-	-	-	-	-	50	50	-	-	50	1	
IITP/ FP/ CEP	230GCEB15_04	Internship / Field Project / Community Engagement Programme	4 to 6 weeks				-	-	-	-	-	-	-	50	50	50	1
<b>TOTAL</b>			<b>12</b>	<b>2</b>	<b>10</b>	<b>4</b>									<b>750</b>	<b>22</b>	
MLC#	-	Audit Course-I	1	-	-	-	-	-	-	50	-	-	-	-	50	1	



**Note:** A Diploma will be awarded if a student exits after second year.


For "Exit" at the end of "Second Year" the student must complete a total of 8 additional credits.

a) An internship / OJT of 8 - 10 weeks (4 credits) over and above semester 4 internship of minimum 4 weeks.

b) Additional one Course of 4 credits (Course offered will be Vocational Skill Course (VSC) or Skill Enhancement Course (SEC) or a mini project).

Sem	Mandatory Learning Course (MLC <sup>#</sup> )- Audit Course	
IV ( Audit Course -I)	Course Code	230GCEB49_04
	Course Name	Road Safety and Management

Sem	Multidisciplinary Minor Course (MMC)	
III (MMC -1)	Course Code	230GMTB01_03
	Course Name	Sensors and Actuators
IV (MMC - 2)	Course Code	230GETB34_04
	Course Name	Internet of Things and Applications

  
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Programme Coordinator, BTech-Civil

  
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## SEMESTER III (LEVEL 5)

TYPE	CODE	COURSE NAME	TEACHING SCHEME				EXAMINATION SCHEME AND MARKS								TOTAL	CREDITS
			Hours / Week				THEORY (Equal Weightage for CIE and ESE)			PRACTICAL (Equal Weightage for CIE and ESE)		ORAL (Equal Weightage for CIE and ESE)				
			L	T	P	EL	CONTINUOUS INSEMESTER EVALUATION (100 Marks)			END SEMESTER EXAMINATION (100 / 50 Marks)	CONTINUOUS INSEMESTER EVALUATION (50 Marks)	END SEMESTER EXAMINATION (50 Marks)	CONTINUOUS INSEMESTER EVALUATION (50 Marks)	END SEMESTER EXAMINATION (50 Marks)		
							T1 (30 Marks)	T2 (30 Marks)	Assignments (40 Marks)							
BSC	230GMAL01_03	Linear Algebra and Univariate Calculus	3	1	-	-	30	30	40	100	-	-	-	-	100	4
PCC	230GCEB04_03	Building Technology	2	-	-	2	30	30	40	100	-	-	-	-	100	2.5
PCC	230GCEB05_03	Strength of Materials	2	-	-	-	30	30	40	50	-	-	-	-	50	2
PCC	230GCEB06_03	Surveying	2	-	-	-	30	30	40	50	-	-	-	-	50	2
IOC	-	Interdisciplinary Open Course- I	2	-	-	-	30	30	40	100	-	-	-	-	100	2
MMC	-	Multidisciplinary Minor Course- I	1	-	2	-	-	-	-	-	50	50	50	50	100	2
VSC	230IDCB01_03	Design Thinking and Creativity	1	-	-	2	-	-	-	-	-	-	50	50	50	1.5
AEC (HSMC)	230UENB01_03	Effective Communication Skills	1	-	2	-	30	30	40	50	-	-	-	-	50	2
LC	230GCEB07_03	Building Technology Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
LC	230GCEB08_03	Strength of Materials Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
LC	230GCEB09_03	Surveying Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
TOTAL			14	1	10	4					50	50	-	-	750	21

L-Lecture

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EL-Experiential Learning

Page 1 of 2

Sem	Interdisciplinary Open Course (IOC)	
III (IOC-1)	Course Code	230HFSB16_03
	Course Name	Biology for Engineers

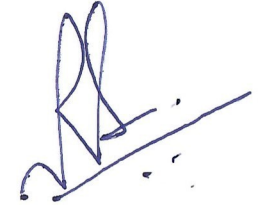
Sem	Multidisciplinary Minor Course (MMC)	
III (MMC - I)	Course Code	230GMTB01_03
	Course Name	Sensors and Actuators
IV (MMC - II)	Course Code	230GETB34_04
	Course Name	Internet of Things and Applications



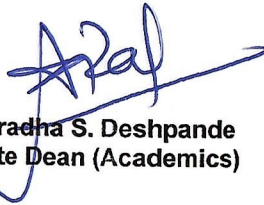
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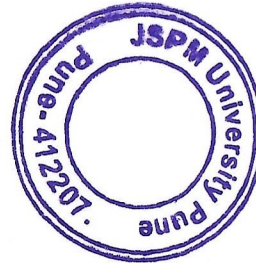
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## COURSE STRUCTURE (NEP 2020 Aligned)

W. E. F

2024-2025

RELEASE DATE

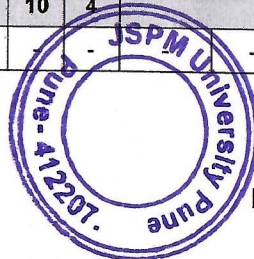
01/07/2024

REVISION NO.

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### SEMESTER IV (LEVEL 5)

COURSE			TEACHING SCHEME				EXAMINATION SCHEME AND MARKS								TOTAL	CREDITS	
TYPE	CODE	COURSE NAME	Hours / Week				THEORY (Equal Weightage for CIE and ESE)			PRACTICAL (Equal Weightage for CIE and ESE)		ORAL (Equal Weightage for CIE and ESE)					
			L	T	P	EL	CONTINUOUS INSEMESTER EVALUATION (100 Marks)			END SEMESTER EXAMINATION (100 / 50 Marks)	CONTINUOUS INSEMESTER EVALUATION (50 Marks)	END SEMESTER EXAMINATION (50 Marks)	CONTINUOUS INSEMESTER EVALUATION (50 Marks)	END SEMESTER EXAMINATION (50 Marks)			
							T1 (30 Marks)	T2 (30 Marks)	Assignments (40 Marks)								
BSC	230GMA102_04	Multivariate Calculus and Differential Equations	3	1	-	-	30	30	40	100	-	-	-	-	100	4	
PCC	230GCEB10_04	Concrete Technology	2	-	-	2	25			75	-	-	-	-	100	2.5	
PCC	230GCEB11_04	Analysis of Structures	2	1	-	2	30	30	40	100	-	-	-	-	100	3.5	
MMC	-	Multidisciplinary Minor Course- II	1	-	2	-	-	-	-	-	50	50	50	50	100	2	
SEC	230GCEB12_04	Introduction to Building Information Modelling	2	-	2	-	-	-	-	-	50	50	50	50	100	3	
EEC (HSMC)	230GCEB03_04	Environmental Policy and Legislations	2	-	-	-	30	30	40	50	-	-	-	-	50	2	
AEC (HSMC)	230UENB02_04	Communicative Proficiency Skills	1	-	2	-	30	30	40	50	-	-	-	-	50	2	
LC	230GCEB13_04	Concrete Technology Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1	
LC	230GCEB14_04	Computerized Building Drawing	-	-	2	-	-	-	-	-	50	50	-	-	50	1	
IITP/FP/CEP	230GCEB15_04	Internship / Field Project / Community Engagement Programme	4 to 6 weeks				-	-	-	-	-	-	-	50	50	50	2
<b>TOTAL</b>			<b>13</b>	<b>2</b>	<b>10</b>	<b>4</b>									<b>750</b>	<b>23</b>	
MLC#	-	Audit Course-I	1	-	-	-	-	-	-	50	-	-	-	-	50	1	



**Note:** A Diploma will be awarded if a student exits after second year.

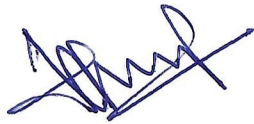
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b) Additional one Course of 4 credits (Course offered will be Vocational Skill Course (VSC) or Skill Enhancement Course (SEC) or a mini project).

Sem	Mandatory Learning Course (MLC <sup>#</sup> )- Audit Course	
IV ( Audit Course -I)	Course Code	230GCEB49_04
	Course Name	Road Safety and Management

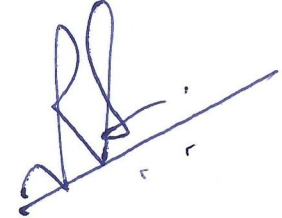
Sem	Multidisciplinary Minor Course (MMC)	
III (MMC -1)	Course Code	230GMTB01_03
	Course Name	Sensors and Actuators
IV (MMC - 2)	Course Code	230GETB34_04
	Course Name	Internet of Things and Applications



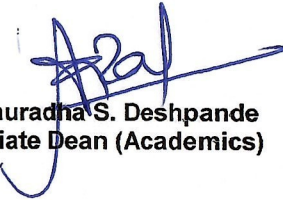
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BACHELOR OF TECHNOLOGY - CIVIL ENGINEERING  
(Regular and Lateral Entry)

COURSE STRUCTURE  
(NEP 2020 Aligned)

W. E. F

2025-2026

RELEASE DATE

01/07/2025

REVISION NO.

0.0 (NEP)

## SEMESTER V

TYPE	CODE	COURSE NAME	TEACHING SCHEME				EXAMINATION SCHEME AND MARKS										TOTAL	CREDITS
			Hours / Week				THEORY (Equal Weightage for CIE and ESE)				PRACTICAL (Equal Weightage for CIE and ESE)			ORAL (Equal Weightage for CIE and ESE)				
			L	T	P	EL	CONTINUOUS INSEMESTER EVALUATION (100 Marks)			END SEMESTER EXAMINATION (100 / 50 marks)	CONTINUOUS INSEMESTER EVALUATION (50marks)	END SEMESTER EXAMINATION (50 marks)	CONTINUOUS INSEMESTER EVALUATION (50marks)	END SEMESTER EXAMINATION (50 marks)				
							T1 (30 Marks)	T2 (30 Marks)	Assignments (40 Marks)									
BSC	230GMAB09_05	Numerical Methods	2	1	-	-	30	30	40	100	-	-	-	-	100	3		
PCC	240GCEB40_05	Concrete Structures	2	1	-	-	30	30	40	100	-	-	-	-	100	3		
PCC	240GCEB03_05	Flow through Pipes and Open Channels	3	-	-	2	30	30	40	100	-	-	-	-	100	3.5		
PEC	-	Program Elective-I	3	-	-	-	30	30	40	100	-	-	-	-	100	3.5		
HSSM	230UEEB19_05	Engineering Economics	2	-	-	-	30	30	40	50	-	-	-	-	50	2		
IOC	-	Interdisciplinary Open Course- II	2	-	-	-	30	30	40	100	-	-	-	-	100	2		
MMC	-	Multidisciplinary Minor Course- III	1	-	2	-	-	-	-	-	50	50	50	50	100	2		
VSC	230IINB02_05	Innovation	1	-	-	2	-	-	-	-	-	-	50	50	50	1.5		
LC	240GCEB04_05	Concrete Structures Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1		
LC	240GCEB05_05	Flow through Pipes and Open Channels Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1		
<b>TOTAL</b>			<b>16</b>	<b>2</b>	<b>6</b>	<b>4</b>											<b>800</b>	<b>22</b>
MLC#	-	Audit Course-II	1	-	-	-	-	-	-	50	-	-	-	-	50	1		



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EL-Experiential Learning  
Page 1 of 3

Sem.	Interdisciplinary Open Course (IOC)			
III (IOC-I)	Course Code	230VBCB04_03	230HFGM25_03	230HFSB16_03
	Course Name	Basics of Accounting	Intellectual Property	Biology for Engineers
V (IOC-II)	Course Code	230VBCB14_05	230HFSB15_05	250ULBB01_05
	Course Name	E-Commerce	Introduction to Microscopy Techniques	Fundamentals of Business Law
VII (IOC-III)	Course Code	230VBBB25_07	240VBBB06_07	230GCSB151_07
	Course Name	Economics for Management	Introduction to Digital Marketing	Artificial Intelligence for Everyone

Sem.	Multidisciplinary Minor Course (MMC)			
III (MMC-I)	Course Code	230GMTB01_03	230GCSB116_03	240GFRB53_03
	Course Name	Sensors and Actuators	Data Science and Analytics	Industrial Fire Safety
IV (MMC- II)	Course Code	230GETB34_04	240GCSB112_04	240GSFB51_04
	Course Name	Internet of Things and Applications	Foundations of Artificial Neural Network	Food Safety and Hygiene
V (MMC- III)	Course Code	230GETB09_05	230GCSB114_05	240GSFB53_05
	Course Name	Wireless Sensor Network	Python Scripting	Import and Export Management
VI (MMC- IV)	Course Code	230GETB36_06	230GCSB123_06	230GMEB52_06
	Course Name	Microcontroller and Applications	Mobile Application Development	3-D Printing
VII (MMC- V)	Course Code	230GETB41_07	230GCSB131_07	250GMEB51_07
	Course Name	Introduction to Embedded Systems	Basics of AIML	Fundamentals of HVAC
VII (MMC- VI)	Course Code	230GETB40_07	230GCSB23_07	230GMEB54_07
	Course Name	Electronic Instrumentation	Fundamentals of Data Science	Hydraulics and Pneumatics

Sem	Mandatory Learning Course (MLC <sup>#</sup> )- Audit Course	
IV ( Audit Course-I)	Course Code	230GCEB49_04
	Course Name	Road Safety Management
V ( Audit Course-II)	Course Code	240GCEB09_05
	Course Name	Environmental Audit
VI ( Audit Course-III)	Course Code	240GCEB19_06
	Course Name	Mechanical, Electrical and Plumbing Engineering
VII ( Audit Course-III)	Course Code	230UPOB02_07
	Course Name	Introduction to Indian Constitution




Sem.	Program Elective Course (PEC)			
	Civil Engineering			
V (PEC-I)	Course Code	240GCEB06_05	240GCEB07_05	240GCEB08_05
	Course Name	Construction Management and Site Safety	Infrastructure Planning and Management	Modern Construction Techniques
VI (PEC-II)	Course Code	240GCEB16_06	240GCEB17_06	240GCEB18_06
	Course Name	Remote Sensing and GIS Concepts	Geospatial Image Processing	Environmental Monitoring with RS and GIS
VII (PEC-III)	Course Code	240GCEB26_07	240GCEB27_07	240GCEB28_07
	Course Name	Hydrology and Water Resources Management	Ground Water Hydrology	Applications of Geo-informatics in Water Resource Engineering
VIII (PEC-IV)	Course Code	240GCEB30_08	240GCEB31_08	240GCEB32_08
	Course Name	Railway, Airport, Docks and Harbor Engineering	Introduction to Intelligent Transport System	Urban Transportation Planning
VIII (PEC-V)	Course Code	240GCEB33_08	240GCEB34_08	240GCEB35_08
	Course Name	Design of Prestressed Concrete Structure	Introduction to Earthquake Engineering	Building Retrofitting Techniques

  
**Mr. Manjunath V Changali**  
 Programme Coordinator, BTech-Civil

  
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 Vice Chancellor, JSPM University Pune





# JSPM University Pune

FACULTY OF SCIENCE & TECHNOLOGY

SCHOOL OF CIVIL AND ENVIRONMENTAL SCIENCES

## COURSE STRUCTURE (NEP 2020 Aligned)

W. E. F

2025-2026

RELEASE DATE

01/07/2025

BACHELOR OF TECHNOLOGY - CIVIL ENGINEERING  
(Regular and Lateral Entry)

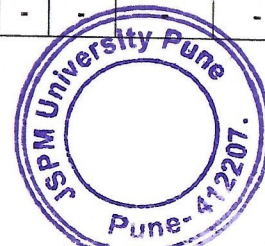
REVISION NO.

0.0 (NEP)

### SEMESTER VI

TYPE	CODE	COURSE NAME	TEACHING SCHEME				EXAMINATION SCHEME AND MARKS										TOTAL	CREDITS
			Hours / Week				THEORY (Equal Weightage for CIE and ESE)			PRACTICAL (Equal Weightage for CIE and ESE)		ORAL (Equal Weightage for CIE and ESE)						
			L	T	P	EL	CONTINUOUS INSEMESTER EVALUATION (100 Marks)			END SEMESTER EXAMINATION (100 / 50 marks)	CONTINUOUS INSEMESTER EVALUATION (50marks)	END SEMESTER EXAMINATION (50 marks)	CONTINUOUS INSEMESTER EVALUATION (50marks)	END SEMESTER EXAMINATION (50 marks)				
							T1 (30 Marks)	T2 (30 Marks)	Assignments (40 Marks)									
PCC	240GCEB10_06	Steel Structures	2	1	-	-	30	30	40	100	-	-	-	-	100	3		
PCC	240GCEB11_06	Environmental Engineering	2	-	-	2	30	30	40	100	-	-	-	-	100	2.5		
PCC	240GCEB12_06	Soil Mechanics	2	-	-	-	30	30	40	50	-	-	-	-	50	2		
PEC	-	Program Elective-II	3	-	-	-	30	30	40	100	-	-	-	-	100	3		
MMC	-	Multidisciplinary Minor Course- IV	1	-	2	-	-	-	-	-	50	50	50	50	100	2		
HSSM	231VBCB27_06	Finance for Engineers	1	-	-	4	-	-	-	-	-	-	50	50	50	2		
AEC	230UENB03_06	Soft Skills Through Literature	1	-	2	-	30	30	40	50	-	-	-	-	50	2		
VSC	230IESB03_06	Entrepreneurship	1	-	-	2	-	-	-	-	-	-	50	50	50	1.5		
LC	240GCEB13_06	Soil Mechanics Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1		
LC	240GCEB14_06	Environmental Engineering Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1		
IITP/ FP/ CEP	240GCEB15_06	Internship / Field Project / Community Engagement Programme	4 to 6 weeks				-	-	-	-	-	-	-	50	50	50	2	
<b>TOTAL</b>			<b>13</b>	<b>1</b>	<b>8</b>	<b>6</b>											<b>750</b>	<b>22</b>
MLC#	-	Audit Course- III	1	-	-	-	-	-	-	50	-	-	-	-	50	1		

Sem - 4 } digg2 code to be  
Sem - 6 } digg2 code to be  
          } digg2 code to be



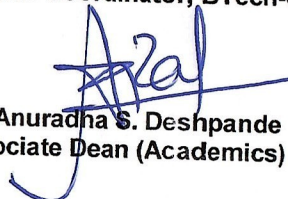
Sem.	Multidisciplinary Minor Course (MMC)		
III (MMC-I)	Course Code	230GMTB01_03	230GCSB116_03
	Course Name	Sensors and Actuators	Data Science and Analytics
IV (MMC-II)	Course Code	230GETB34_04	240GCSB112_04
	Course Name	Internet of Things and Applications	Foundations of Artificial Neural Network
V (MMC-III)	Course Code	230GETB09_05	230GCSB114_05
	Course Name	Wireless Sensor Network	Python Scripting
VI (MMC-IV)	Course Code	230GETB36_06	230GCSB123_06
	Course Name	Microcontroller and Applications	Mobile Application Development
VII (MMC-V)	Course Code	230GETB41_07	230GCSB131_07
	Course Name	Introduction to Embedded Systems	Basics of AIML
VII (MMC-VI)	Course Code	230GETB40_07	230GCSB23_07
	Course Name	Electronic Instrumentation	Fundamentals of Data Science
			240GFRB53_03
			Industrial Fire Safety
			240GSFB51_04
			Food Safety and Hygiene
			240GSFB53_05
			Import and Export Management
			230GMEB52_06
			3-D Printing
			250GMEB51_07
			Fundamentals of HVAC
			230GMEB54_07
			Hydraulics and Pneumatics


Sem	Mandatory Learning Course (MLC <sup>#</sup> )- Audit Course	
IV ( Audit Course-I)	Course Code	230GCEB49_04
	Course Name	Road Safety Management
V ( Audit Course-II)	Course Code	240GCEB09_05
	Course Name	Environmental Audit
VI ( Audit Course-III)	Course Code	240GCEB19_06
	Course Name	Mechanical, Electrical and Plumbing Engineering
VII ( Audit Course-III)	Course Code	230UPOB02_07
	Course Name	Introduction to Indian Constitution




Sem.	Program Elective Course (PEC)			
	Civil Engineering			
V (PEC-I)	Course Code	240GCEB06_05	240GCEB07_05	240GCEB08_05
	Course Name	Construction Management and Site Safety	Infrastructure Planning and Management	Modern Construction Techniques
VI (PEC-II)	Course Code	240GCEB16_06	240GCEB17_06	240GCEB18_06
	Course Name	Remote Sensing and GIS Concepts	Geospatial Image Processing	Environmental Monitoring with RS and GIS
VII (PEC-III)	Course Code	240GCEB26_07	240GCEB27_07	240GCEB28_07
	Course Name	Hydrology and Water Resources Management	Ground Water Hydrology	Applications of Geo-informatics in Water Resource Engineering
VIII (PEC-IV)	Course Code	240GCEB30_08	240GCEB31_08	240GCEB32_08
	Course Name	Railway, Airport, Docks and Harbor Engineering	Introduction to Intelligent Transport System	Urban Transportation Planning
VIII (PEC-V)	Course Code	240GCEB33_08	240GCEB34_08	240GCEB35_08
	Course Name	Design of Prestressed Concrete Structure	Introduction to Earthquake Engineering	Building Retrofitting Techniques


  
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