



**D Y PATIL**  
UNIVERSITY  
PUNE, AMBI

School of  
Engineering &  
Technology

**D Y PATIL UNIVERSITY**  
**SCHOOL OF ENGINEERING AND TECHNOLOGY, AMBI**

**B. TECH**

**Programme Structure and Course code**  
**(For batch 2020-2021)**

**D Y PATIL SCHOOL OF ENGINEERING TECHNOLOGY, AMBI**  
**B.Tech. (Civil Engineering)**  
**Programme Structure and Course code**  
**(for batch 2020-2021)**

**Note : The Subject code defines as follows :**

Course code is **UBSCCE201**, Where its divided in 5 parts as U-BSC-CE-2-01,

where U = Undergraduate Course

BSC = Course category as specifies by All India Council of Technical Education

CE = Branch

2= semester count

01= course count.

Course category and Abbreviations used:

DEFINITION	COURSE CODE
Basic Science Course	BSC
Engineering Science Course	ESC
Lab Course	LC
Humanities, Social Sciences including Management Course	HSMC
Professional Core Courses	PCC
Summer Internship	SI
Professional Elective Courses	PEC
Mandatory Course	MC
Open Elective course	OEC
Project	PROJ

The credits distribution per semester as per above categories is as follows:

Course Category	SEMSTER								Total	
	I	II	III	IV	V	VI	VII	VIII	Credits	%
BSC	8	8	4	0	0	0	0	0	20	12.12
ESC	9	8	0	0	0	0	0	0	17	10.30
LC	1	1	2	2	2	2	2	0	12	7.27
HSMC	0	3	1	1	1	0	0	0	6	3.64
PCC	0	0	16	20	19	12	4	0	71	43.03
PEC	0	0	0	0	0	4	11	0	15	9.09
SI	0	0	0	0	1	0	1	0	2	1.21
MC	0	0	0	0	0	0	0	0	0	0
OEC	0	0	0	0	0	3	3	0	6	3.64
PROJ	0	0	0	0	0	2	2	12	16	9.69
<b>TOTAL</b>	<b>18</b>	<b>20</b>	<b>23</b>	<b>23</b>	<b>23</b>	<b>23</b>	<b>23</b>	<b>12</b>	<b>165</b>	<b>100</b>

SECOND YEAR B.TECH SEMESTER - III																	
Course Code	Course Name	HRS			CREDITS			Total Cr	Assessment Methods								
		L (hr)	P (hr)	T (hr)	L(Cr)	P(Cr)	T(Cr)		(A1)	MSE	CIE (A2)		ESE	ESE Hrs.	TW	Oral /PR	Total
									UT		Atte nda nce	Ass gn/ Viv a					
UBSCCE301	Engineering Mathematics – III	3	0	1	3	0	1	4	10	20	5	5	60	2	0	0	100
UPCCCE302	Strength of Materials	3	2	0	3	1	0	4	10	20	5	5	60	2	25	25*	150
UPCCCE303	Architectural Planning and Design of Buildings	3	2	0	3	1	0	4	10	20	5	5	60	2	25	25*	150
UPCCCE304	Soil Mechanics	3	2	0	3	1	0	4	10	20	5	5	60	2	25	25#	150
UPCCCE305	Surveying	3	2	0	3	1	0	4	10	20	5	5	60	2	25	25#	150
ULCCE306	CAD for Civil Engineers	0	4	0	0	2	0	2	0	0	0	0	0	0	25	0	25
UHSMC307	Soft Skills	1	0	0	1	0	0	1	0	0	0	0	0	0	25	0	25
UMC308	Indian Constitution (Non credit)	1	0	0	0	0	0	Grade	0	0	0	0	0	0	0	0	Grade
<b>Total</b>		17	12	1	16	6	1	23	50	100	25	25	300	10	150	100	750

#- Practical Examination, \*-Oral Examination

SECOND YEAR B.TECH SEMESTER - IV																	
Course Code	Course Name	HRS			CREDITS			Total Cr	Assessment Methods								
		L (hr)	P (hr)	T (hr)	L(Cr)	P(Cr)	T(Cr)		(A1)	MSE	CIE (A2)		ESE	ESE Hrs.	TW	Oral /PR	Total
									UT		Atte nda nce	Ass gn/ Viv a					
UPCCCE401	Structural Analysis	3	0	1	3	0	1	4	10	20	5	5	60	2	0	0	100
UPCCCE402	Design of Steel Structures	3	2	0	3	1	0	4	10	20	5	5	60	2	25	25*	150
UPCCCE403	Fluid Mechanics	3	2	0	3	1	0	4	10	20	5	5	60	2	25	25*	150
UPCCCE404	Highway & Railway Engineering	3	2	0	3	1	0	4	10	20	5	5	60	2	00	25*	125
UPCCCE405	Concrete Technology	3	2	0	3	1	0	4	10	20	5	5	60	2	25	25*	150
ULCCE406	Computer Aided Design and Analysis of Steel Structures	0	4	0	0	2	0	2	0	0	0	0	0	0	25	25#	50
UHSMC407	Employability Skill Development	1	0	0	1	0	0	1	0	0	0	0	0	0	25	0	25
UMC408	Essence of Indian Traditional Knowledge( non credit)	1	0	0	0	0	0	Grade	0	0	0	0	0	0	0	0	Grade
<b>Total</b>		17	12	1	16	6	1	23	50	100	25	25	300	10	125	125	750

#- Practical Examination, \*-Oral Examination

**Note:** Students will take Internship-I after 4<sup>th</sup> semester. The evaluation of Internship-I will be done in 5<sup>th</sup> semester.

**UT :- Unit Test**

**MSE :-Mid Semester Examination**

**ESE-End Semester Examination**

**CIE :-Continuous Internal Evaluation**

**TW :- Term Work**

**PR :- Practical**

**OR :- Oral**

THIRD YEAR B.TECH SEMESTER - V																	
Course Code	Course Name	HRS			CREDITS			Total Cr	Assessment Methods								
		L (hr)	P (hr)	T (hr)	L(Cr)	P(Cr)	T(Cr)		(A1)	MSE	CIE (A2)		ESE	ESE Hrs.	TW	Oral /PR	Total
									UT		Atte nda nce	Ass gn/ Viv a					
UPCCCE501	Quantity Surveying, Contracts and Tendering	3	2	0	3	1	0	4	10	20	5	5	60	2	25	25*	150
UPCCCE502	Foundation Engineering	3	0	0	3	0	0	3	10	20	5	5	60	2	00	00	100
UPCCCE503	Design of RC Structures	3	2	0	3	1	0	4	10	20	5	5	60	2	00	25*	125
UPCCCE504	Water Resources Engineering	3	2	0	3	1	0	4	10	20	5	5	60	2	25	00	125
UPCCCE505	Environmental Engineering	3	2	0	3	1	0	4	10	20	5	5	60	2	00	25#	125
ULCCE506	Computer Aided Design and Analysis of RC Structures	0	4	0	0	2	0	2	00	00	0	0	00	0	25	25#	50
UHSMC507	Business Communication and Ethics	1	0	0	1	0	0	1	00	00	0	0	00	0	25	00	25
USICE508	<b>Internship-I</b>	0	4	0	0	2	0	2	00	00	0	0	00	0	25	25*	50
<b>Total</b>		<b>16</b>	<b>14</b>	<b>0</b>	<b>16</b>	<b>7</b>	<b>0</b>	<b>23</b>	<b>50</b>	<b>100</b>	<b>25</b>	<b>25</b>	<b>300</b>	<b>10</b>	<b>125</b>	<b>125</b>	<b>750</b>

#- Practical Examination, \*-Oral Examination

**Note:** Students will take Internship-I after 4<sup>th</sup> semester. The evaluation of Internship-I will be done in 5<sup>th</sup> semester.

THIRD YEAR B.TECH SEMESTER - VI																	
Course Code	Course Name	HRS			CREDITS			Total Cr	Assessment Methods								
		L (hr)	P (hr)	T (hr)	L(Cr)	P(Cr)	T(Cr)		(A1)	MSE	CIE (A2)		ESE	ESE Hrs.	TW	Oral /PR	Total
									UT		Atte nda nce	Ass gn/ Viv a					
UPCCCE601	Advanced Design of RC Structures	3	2	0	3	1	0	4	10	20	5	5	60	2	25	25*	150
UPCCCE602	Project Management and Engineering Economics	3	0	1	3	0	1	4	10	20	5	5	60	2	25	00	125
UPCCCE603	Dams and Hydraulic Structures	3	2	0	3	1	0	4	10	20	5	5	60	2	25	00	125
UPECCE604	Professional Elective I	3	2	0	3	1	0	4	10	20	5	5	60	2	25	25*	150
UOECCE605	Open Elective I	3	0	0	3	0	0	3	10	20	5	5	60	0	0	0	100
ULCCE606	Computer Applications in Project Management	0	4	0	0	2	0	2	0	0	0	0	0	0	25	25#	50
UPROJCE607	<b>Mini Project</b>	0	4	0	0	2	0	2	0	0	0	0	0	0	25	25*	50
<b>Total</b>		<b>15</b>	<b>14</b>	<b>1</b>	<b>15</b>	<b>7</b>	<b>1</b>	<b>23</b>	<b>50</b>	<b>100</b>	<b>25</b>	<b>25</b>	<b>300</b>	<b>8</b>	<b>150</b>	<b>100</b>	<b>750</b>

#- Practical Examination, \*-Oral Examination

**UT :- Unit Test**

**MSE :-Mid Semester Examination**

**ESE-End Semester Examination**

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FOURTH YEAR B.TECH SEMESTER - VII																	
Course Code	Course Name	HRS			CREDITS			Total Cr	Assessment Methods								
		L (hr)	P (hr)	T (hr)	L(Cr)	P(Cr)	T(Cr)		(A1)	MSE	CIE (A2)		ESE	ESE Hrs.	TW	Oral /PR	Total
									UT		Atte nda nce	Ass gn/ Viv a					
UPCCCE701	Bridge and Tunnel Engineering	3	2	0	3	1	0	4	10	20	5	5	60	2	25	00	125
UPECCE702	Professional Elective II	3	0	0	3	0	0	3	10	20	5	5	60	2	00	00	100
UPECCE703	Professional Elective III	3	2	0	3	1	0	4	10	20	5	5	60	2	25	00	125
UPECCE704	Professional Elective IV	3	2	0	3	1	0	4	10	20	5	5	60	2	25	25*	150
UOECCE705	Open Elective II	3	0	0	3	0	0	3	10	20	5	5	60	2	0	0	100
ULCCE706	ERP for Civil Engineers	0	4	0	0	2	0	2	0	0	0	0	0	0	25	25	50
UPROJCE707	Project (Stage I)	0	4	0	0	2	0	2	0	0	0	0	0	0	25	25*	50
USICE708	Internship-II	0	4	0	0	2	0	2	00	00	0	0	00	0	25	25*	50
Total		15	16	0	15	8	0	23	50	100	25	25	300	10	150	100	750

#- Practical Examination, \*-Oral Examination

**Note:** Students will take Internship-I after 6<sup>th</sup> semester. The evaluation of Internship-I will be done in 7<sup>th</sup> semester.

FINAL YEAR B.TECH SEMESTER - VIII																	
Course Code	Course Name	HRS			CREDITS			Total Cr	Assessment Methods								
		L (hr)	P (hr)	T (hr)	L(Cr)	P(Cr)	T(Cr)		Progress Review			Progress Seminar-II			Viva		Total
									TW	OR	Total	TW	OR	Total	TW	OR	
UPROJCE801	Project (Stage II)	0	16	0	0	08	0	08	25	25	50	25	25	50	75	75	200
USICE802	Internship in Industry / Research Organization	0	08	0	0	04	0	04	00	25	25	00	00	00	25	50	100
Total		0	24	0	0	12	0	12	25	50	75	25	25	50	75	100	300

**UT :- Unit Test**

**MSE :-Mid Semester Examination**

**ESE-End Semester Examination**

**CIE :-Continuous Internal Evaluation**

**TW :- Term Work**

**PR :- Practical**

**OR :- Oral**

**List of Elective Courses:**

<b>Elective Title</b>	<b>Elective Name</b>	<b>Elective Course Code</b>
<b>Professional Elective I</b>	Total Quality Management and MIS	UPECCE604A
	Urban Planning and Smart Cities	UPECCE604B
	Ferrocement Technology	UPECCE604C
<b>Professional Elective II</b>	Construction Management	UPECCE702A
	Industrial Waste Water Treatment	UPECCE702B
	Hydropower Engineering	UPECCE702C
<b>Professional Elective III</b>	Integrated Water Resources and Planning	UPECCE703A
	Prestressed Concrete	UPECCE703B
	System Approach in Civil Engineering	UPECCE703C
<b>Professional Elective IV</b>	Plumbing Engineering	UPECCE704A
	Statistical Analysis and computational Methods in Civil engineering	UPECCE704B
	Air Pollution and control	UPECCE704C
<b>Open Elective I</b>	Project Management	UOECCE606A
	Business Economics and Financial Planning	UOECCE606B
	Cyber and Data Laws	UOECCE606C
	Intellectual Property Rights	UOECCE606D
	Remote Sensing and GIS	UOECCE606E
<b>Open Elective II</b>	IT for Healthcare	UOECCE706A
	Entrepreneurship and Business Startup	UOECCE706B
	Non-Government Organization Management	UOECCE706C
	Essentials of Industrial Computing	UOECCE706D
	Disaster Management	UOECCE706E

**BoS Chairman**