

**K L UNIVERSITY**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**COURSE STRUCTURE FOR THE A.Y. 2017-18**

<b>SEMESTER 1</b>						
<b>Sub Code</b>	<b>Subject Name</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>S</b>	<b>Credits</b>
17PH1001	Engineering materials	2	1	2	-	4
17ME1002	Engineering graphics & design	1	0	4	-	3
17ME1003	Workshop practice	1	0	4	-	3
17MT1101	Single variable calculus and matrix algebra	2	1	2	-	4
17CS1101	Problem solving and computer programming	3	0	4	-	5
17CE1101	Introduction to civil engineering	2	0	2	-	3
17MT1102	Foundations of computational mathematics	3	0	0	-	3
		10	1	8	0	25
<b>SEMESTER 2</b>						
	<b>Subject Name</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>S</b>	<b>Credits</b>
17CY1001	Engineering chemistry	3	0	2	-	4
17ME1001	Engineering mechanics	2	1	2	-	4
17GN1003	Basic engineering measurements	1	0	2	-	2
17EN1201	Building blocks for communication skills	2	0	2	-	3
17MT1203	Multivariate calculus	2	1	2	-	4
17MT1204	Logic and reasoning	0	0	4	-	2
17GN1204	Coding skills for Engineers(Open Elective 1)	0	0	1	-	5
		4	1	8	0	24
<b>SEMESTER 3</b>						
	<b>Subject Name</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>S</b>	<b>Credits</b>
17CE1201	Solid Mechanics	3	0	2	-	4
17TS2101	Skilling for Engineers 1(Field Survey)	0	0	0	4	1
17CE2102	Mechanics of Fluids	3	0	2	-	4
17EN2103	Professional communication Skills	0	0	4	-	2
17MT2104	Probability and optimization techniques	3	1	0	-	4
17CE2105	Surveying	3	0	2	-	4
17CE2206	Construction Materials and Concrete Technology	3	0	2	-	4
17GN2109	Co curricular Activity -1	0	0	0	2	0.5
		12	1	10	2	23.5

SEMESTER 4						
	Subject Name	L	T	P	S	Credits
17UC0009	Ecology & Environmental sciences	2	0	0	-	0
17CE2103	Engineering Geology	3	0	2	-	4
17CE2104	Structural Analysis	3	1	0	-	4
17TS2202	Skilling for Engineers 2 (Practical Approaches in Building Planning & Construction)	0	0	0	4	1
17CE2207	Building Planning and Construction	3	0	2	-	4
17CE2209	Hydraulics and Hydraulic Machines	3	0	2	-	4
17CE2210	Soil Mechanics	3	0	2	-	4
17CE2208	Environmental Engineering	3	0	2	-	4
17GN2210	Co curricular Activity -2	0	0	0	2	0.5
17IE2246	Industrial Training	0			-	2
		15	1	8	6	27.5
SEMESTER 5						
	Subject Name	L	T	P	S	Credits
17UC0010	Universal Human Values & Professional Ethics	1	0	2	-	2
17TS3103	Skilling for Engineers 3 (Exploration of Structural Elements)	0	0	0	8	2
17BT1001	Biology for Engineers	2	0	0	-	2
17CE3111	Foundation Engineering	3	0	0	-	3
17CE3112	Design of Reinforced Concrete Structures	3	0	2	-	4
17CE3113	Design of Steel Structures	3	1	0	-	4
17CE3115	Transportation Engineering	3	0	2	-	4
17CE3218	Water Resources Engineering	3	1	0	-	4
17GN3111	Co curricular Activity -3	0	0	0	2	0.5
		15	2	4	2	25.5
SEMESTER 6						
	Subject Name	L	T	P	S	Credits
17UC0007	Indian Heritage and Culture	2	0	0	-	0
17TS3204	Skilling for Engineers 4 (Materials, Design of pavement)	0	0	0	4	1
17EN3206	Corporate communication skills	0	0	4	-	2
17CE3216	Quantity Surveying and Estimation	3	0	2	-	4
	Professional Elective - 1	3	0	0	-	3
	Professional Elective - 2	3	0	0	-	3
	Professional Elective - 3	3	0	0	-	3

17GN3212	Co curricular Activity -4	0	0	0	2	0.5
17IE3250	Term Paper	0	0	4	-	2
		1	0	1	0	18.5
		2	0	0	2	

	Subject Name	L	T	P	S	Credits
17UC0008	Indian Constitution	2	0	0	-	0
	<b>Professional Elective - 4</b>	3	0	0	-	3
	<b>Professional Elective - 5</b>	3	0	0	-	3
	Management Elective	3	0	0	-	3
	Open Elective (Foreign Language/Non- Native Language)	2	0	0	-	2
17IE4048	PROJECT-1	0	0	1	-	6
		1	0	1	0	17
		3	0	2	0	

### SEMESTER 8

	Subject Name	L	T	P	S	Credits
	Open Elective 2	3	0	0	-	3
17IE4049	Practice School			1		
17IE4050	PROJECT-2	0	0	2	-	6
		3	0	1	0	9
		3	0	2	0	

<b>Grand total</b>						<b>170</b>
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## DEPARTMENT OF CIVIL ENGINEERING

2018-2019

Bridge / Refresher Courses									
Sl No	Course Code	Course Title	Type	L	T	P	S	C r	C H
1		Bridge/ Refresher Course in Mathematics	BS	0	0	2	0	0	2
2		Bridge/ Refresher Course in Physics	BS	0	0	2	0	0	2
3		Bridge/ Refresher Course in Chemistry	BS	0	0	2	0	0	2
4		Bridge/ Refresher Course in English	HSS	0	0	2	0	0	2
<b>Total</b>				<b>0</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>8</b>
Induction Courses (Non Credit )									
1	18IN1001	Fundamentals of Mathematics	BS	5	0	0	0	0	5
2	18IN1002	Basics of Physics	BS	5	0	0	0	0	5
3	18IN1003	Introduction to Engineering	ES	5	0	0	0	0	5
4	18IN1004	Human Values	HSS	5	0	0	0	0	5
5	18IN1005	SWEAR Analysis	ES	5	0	0	0	0	5
6	18IN1006	Cocurricular Activities	GN	5	0	0	0	0	5
<b>Total</b>				<b>30</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30</b>
SEMESTER - 1									
1	18CY100 1	Engineering Chemistry	BS	3	0	2	0	4	5
2	18UC110 1	Basic English	HSS	0	0	4	0	2	4
3	18SC1101	Problem Solving and Computer Programming	ES	3	0	2	0	4	5
4	18SC1103	Single Variable Calculus and Matrix Algebra	BS	3	0	0	0	3	3
5	18SC1104	Foundations of Computational Mathematics	BS	0	0	2	0	1	2
6	18SC1105	Logic and Reasoning	BS	0	0	2	0	1	2
7	18CE1002	Engineering Graphics & Design for Civil Engineers	ES	0	0	4	0	2	4
8	18SC1106	Technical Skill -1 (coding)	Tech. Skill	0	0	0	6	1.5	6
9	18GN110 1	Counseling -1	SCH	0	0	1	0	0	1
10	18GN110 7	Cocurricular Activity -1	SCH	0	0	0	2	0.5	2
<b>Total</b>				<b>9</b>	<b>0</b>	<b>17</b>	<b>8</b>	<b>19</b>	<b>34</b>
SEMESTER - 2									
1	18UC120	English Proficiency	HSS	0	0	4	0	2	4

	2								
2	18MT120 1	Multivariate Calculus	BS	3	0	2	0	4	5
3	18SC1202	Data Structures	ES	3	0	2	0	4	5
4	18CE1201	Engineering Mechanics	ES	3	0	0	0	3	3
5	18PH1002	Physics for Civil Engineers	BS	3	0	2	0	4	5
6	18CE1003	Workshop Practice for civil engineers	ES	0	0	4	0	2	4
7	18SC1207	Technical Skill -2 (coding)	Tech. Skill	0	0	0	6	1. 5	6
8	18GN120 2	Counseling -2	SCH	0	0	1	0	0	1
9	18GN120 8	Cocurricular Activity -2	SCH	0	0	0	1	0. 5	2
<b>Total</b>				<b>1 2</b>	<b>0</b>	<b>1 5</b>	<b>7</b>	<b>2 1</b>	<b>3 5</b>
<b>SEMESTER - 3</b>									
1	18UC210 3	Professional Communication Skills	HSS	0	0	4	0	2	4
2	18UC000 7	Indian Heritage and Culture	HSS	2	0	0	0	0	2
3	18UC001 0	Universal Human Values & Professional Ethics	HSS	2	0	0	0	2	2
4	18MT200 7	Transform & Discrete Mathematics	BS	2	1	0	0	3	3
5	18CE2102	Solid Mechanics	ES	3	0	2	0	4	5
6	18CE2103	Mechanics of Fluids	ES	3	0	2	0	4	5
7	18CE2104	Surveying	Prof.C ore	3	0	2	0	4	5
8	18CE2105	Construction Materials & Concrete Technology	Prof.C ore	3	0	2	0	4	5
9	18TS2101	Skilling for Engineers-1 (Field Survey)	Tech. Skill	0	0	0	4	1	3
10	18GN210 9	Cocurricular Activity -3	SCH	0	0	0	2	0. 5	2
<b>Total</b>				<b>1 8</b>	<b>1</b>	<b>1 2</b>	<b>6</b>	<b>2 4. 5</b>	<b>3 6</b>
<b>SEMESTER - 4</b>									
1	18CE2201	Structural Analysis	Prof.C ore	3	1	0	0	4	4
2	18CE2202	Building Planning, Drawing & Construction Management	Prof.C ore	3	0	2	0	4	5
3	18CE2203	Hydraulics and hydraulic Machines	Prof.C ore	3	0	2	0	4	5

4	18CE2204	Environmental Engineering	Prof.C ore	3	0	2	0	4	5
5	18CE2205	Engineering Geology	Prof.C ore	3	0	2	0	4	5
6	18CE2206	Soil Mechanics	Prof.C ore	3	0	2	0	4	5
7	18TS2102	Skilling for Engineers-2 (Practical Approachs in Building Planning & Construction)	Tech. Skill	0	0	0	4	1	4
8	18UC220 4	Aptitude Builder -1	HSS	0	0	4	0	2	4
9	18GN221 0	Cocurricular Activity -4	SCH	0	0	0	2	0. 5	2
10	18IE2246	Industrial Training	PROJ ECT	0	0	0	0	2	0
<b>Total</b>				<b>1 8</b>	<b>1</b>	<b>1 4</b>	<b>6</b>	<b>2 9. 5</b>	<b>3 9</b>
<b>S E M E S T E R - 5</b>									
1	18CE3101	Design of Reinforced Concrete Structures	Prof.C ore	3	0	2	0	4	5
2	18CE3102	Water Resources Engineering	Prof.C ore	3	1	0	0	4	4
3	18CE3103	Transportation Engineering	Prof.C ore	3	0	2	0	4	5
4	18CE3104	Foundation Engineering	Prof.C ore	3	0	0	0	3	3
5	18TS2103	Skilling for Engineers-3 (Exploration of Structural Elements)	Tech. Skill	0	0	0	4	1	4
6	18BT1001	Biology for Engineers	BS	2	0	0	0	2	2
7	18UC000 9	Ecology & Environment	HSS	2	0	0	0	0	2
8	18UC310 5	Aptitude Builder -2	HSS	0	0	4	0	2	4
9	18GN311 1	Cocurricular Activity -5	SCH	0	0	0	2	0. 5	2
10	18CE3150	Technical Proficiency & Training -1	SCH	0	0	0	4	1	4
<b>Total</b>				<b>1 6</b>	<b>1</b>	<b>8</b>	<b>1 0</b>	<b>2 1. 5</b>	<b>3 5</b>
<b>S E M E S T E R - 6</b>									
1	18CE3201	Quantity Surveying Estimation	Prof.C ore	3	0	2	0	4	5
2	18CE3202	Advanced Structural Analysis	Prof.C ore	3	0	0	0	3	3

3	18CE3203	Design of Steel Structures	Prof. Core	3	1	0	0	4	4
4		Professional Elective - 1	Prof. Elec	3	0	0	0	3	3
5		Professional Elective - 2	Prof. Elec	3	0	0	0	3	3
6	18UC3206	Campus to Corporate	HSS	0	0	4	0	2	4
7	18TS2104	Skilling for Engineers-4 (Materials, Design of pavements)	Tech. Skill	0	0	0	4	1	4
8	18IE3247	Term Paper	PROJECT	0	0	4	0	2	4
9	18GN3212	Cocurricular Activity -6	SCH	0	0	0	2	0.5	2
10	18CE3250	Technical Proficiency & Training -2	SCH	0	0	0	4	1	4
<b>Total</b>				<b>15</b>	<b>1</b>	<b>10</b>	<b>10</b>	<b>23.5</b>	<b>36</b>
<b>SEMESTER - 7</b>									
1	18UC0008	Indian Constitution	HSS	2	0	0	0	0	2
2		Professional Elective - 3	Prof. Elec	3	0	0	0	3	3
3		Professional Elective - 4	Prof. Elec	3	0	0	0	3	4
4		Professional Elective - 5	Prof. Elec	3	0	0	0	3	4
5		Open Elective - 3 (Management Elective)	HSS	3	0	0	0	3	3
6	18IE4048/ 18IE4050	Project (Part I) / Practice School	PR	0	0	12	0	6	12
<b>Total</b>				<b>14</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>18</b>	<b>28</b>
<b>SEMESTER - 8</b>									
1		Open Elective - 1	OPEN ELEC	3	0	0	0	3	3
2		Open Elective - 2	OPEN ELEC	3	0	0	0	3	3
3		Foreign /Non Native Language Elective	HSS	2	0	0	0	2	2
4	18IE4049/ 18IE4050/ 18IE4051	Project (Part II) / Practice School/ Internship	PR	0	0	12	0	6	12
<b>Total</b>				<b>0</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>11</b>	<b>15</b>

<b>GRAND TOTAL</b>						<b>1</b>	<b>4</b>	<b>1</b>	<b>7</b>	<b>1</b>	<b>3</b>
						<b>3</b>		<b>1</b>	<b>5</b>	<b>6</b>	<b>2</b>
						<b>1</b>		<b>6</b>	<b>8</b>	<b>8</b>	<b>7</b>

**Department of Civil Engineering**  
**2019-2020**

Semester-1								
S.No	Course Code	Course Title	L	T	P	S	Cr	CH
1	19PH1010	Mechanics	3	1	0	0	4	4
2	19UC1101	Basic English	0	0	4	0	2	4
3	19MT1101	Mathematics For Computing	3	1	0	4	5	8
4	19SC1101	Problem Solving And Computer Programming	3	0	2	0	4	5
5	19ME1103	Design Tools Workshop - I	0	0	4	0	2	4
6	19SC1106	Technical Skills - 1 (Coding)	0	0	0	6	1.5	6
7	19GN1101	Counselling	0	0	0	4	0	4
Total			9	2	10	14	19	35
Semester-2								
S.No	Course Code	Course Title	L	T	P	S	Cr	CH
1	19CE1002	Engineering Graphics For Civil Engineers	0	0	2	0	1	2
2	19CY1101	Engineering Chemistry	3	0	2	0	4	5
3	19UC1202	English Proficiency	0	0	4	0	2	4
4	19SC1202	Data Structures	3	0	2	3	4.75	8
5	19SC1203	Object Oriented Programming	3	0	2	3	4.75	8
6	19SC1209	Design Tools Workshop - II	0	0	4	0	2	4
7	19MT2102	Mathematics For Engineers	3	0	0	0	3	3
8	OE	Foreign Language Elective	2	0	0	0	2	2
Total			14	0	16	6	24	36
Semester-3								
S.No	Course Code	Course Title	L	T	P	S	Cr	CH
1	19UC0007	Indian Heritage and Culture	2	0	0	0	0	2

2	19BT1001	Biology for Engineers	2	0	0	0	2	2
3	19MT2007	Probability and Optimization Techniques	2	1	0	0	3	3
4	19CE2101	Solid Mechanics	3	0	2	0	4	5
5	19CE2102	Mechanics of Fluids	3	0	2	0	4	5
6	19CE2103	Surveying	3	0	2	0	4	5
7	19CE2104	Construction Materials & Concrete Technology	3	0	2	0	4	5
8	19TS2001	Skilling for Engineers-1 (Field Survey)	0	0	0	4	1	4
9	19UC2103	Professional Communication Skills	0	0	4	0	2	4
<b>Total</b>			<b>18</b>	<b>1</b>	<b>12</b>	<b>4</b>	<b>24</b>	<b>35</b>
<b>Semester-4</b>								
S.No	Course Code	Course Title	L	T	P	S	Cr	CH
1	19UC0009	Ecology & Environment	2	0	0	0	0	2
2	19UC0010	Universal Human Values & Professional Ethics	2	0	0	0	0	2
3	19UC2204	Aptitude Builder-I	0	0	4	0	2	4
4	19CE2201	Structural Analysis	3	1	0	0	4	4
5	19CE2202	Building Planning, Drawing & Construction Management	3	0	2	0	4	5
6	19CE2203	Hydraulics and Hydraulic Machines	3	0	2	0	4	5
7	19CE2204	Environmental Engineering	3	0	2	0	4	5
8	19CE2206	Soil Mechanics	3	0	2	0	4	5
9	19TS2002	Skilling for Engineers-2	0	0	0	4	1	4
<b>Total</b>			<b>19</b>	<b>1</b>	<b>12</b>	<b>4</b>	<b>23</b>	<b>36</b>
<b>Semester-5</b>								
S.No	Course Code	Course Title	L	T	P	S	Cr	CH
1	19UC0008	Indian Constitution	2	0	0	0	0	2
2	19UC3105	Aptitude Builder-II	0	0	4	0	2	4
3	19CE3101	Design of Reinforced Concrete Structures	3	0	2	0	4	5
4	19CE3102	Water Resources Engineering	3	1	0	0	4	4
5	19CE3103	Transportation Engineering	3	0	2	0	4	5
6	19CE3104	Foundation Engineering	3	0	0	0	3	3
7	19CE2205	Engineering Geology	3	0	2	0	4	5
9	19TS2003	Skilling for Engineers-3	0	0	0	4	1	4
10	19IE2246	Industrial Training (Summer Break)	0	0	0	0	2	0

Total			20	1	12	4	28	37
Semester-6								
S.No	Course Code	Course Title	L	T	P	S	Cr	CH
1	19UC0011	Entrepreneurship	2	0	0	0	0	2
6	19UC3206	Campus to Corporate	0	0	4	0	2	4
8	19CE3201	Quantity Surveying Estimation	3	0	2	0	4	5
5	19CE3202	Advanced Structural Analysis	3	1	0	0	4	4
4	19CE3203	Design of Steel Structures	3	1	0	0	4	4
8	PE-1	Professional Elective-1	3	0	0	0	3	3
9	PE-2	Professional Elective-2	3	0	0	0	3	3
10	PE-3	Professional Elective-3	3	0	0	0	3	3
2	19TS2004	Skilling for Engineers-4	0	0	0	4	1	4
3	19TS2005	Technical Proficiency & Training- 1	0	0	0	4	1	4
7	19IE3247	Term Paper	0	0	4	0	2	4
Total			17	2	8	8	23	35
Semester-7								
S.No	Course Code	Course Title	L	T	P	S	Cr	CH
1	PE-4	Professional Elective-4	3	0	0	0	3	3
2	PE-5	Professional Elective-5	3	0	0	0	3	3
3	OE	Management Elective	3	0	0	0	3	3
4	19TS2006	Technical Proficiency & Training-2	0	0	0	4	1	4
5	19IE4048	Project (Part I)	0	0	12	0	6	12
	19IE4050	Practice School						
Total			9	0	12	4	16	25
Semester-8								
S.No	Course Code	Course Title	L	T	P	S	Cr	CH
1	OE-1	Open Elective-1	3	0	0	0	3	3
2	OE-2	Open Elective-2	3	0	0	0	3	3
3	19IE4049	Project (Part II)	0	0	12	0	6	12
	19IE4050	Practice School						
Total			6	0	12	0	12	18

112    7    94    44    169    269

KLEF(Deemed to be University)  
DEPARTMENT OF CIVIL ENGINEERING  
Odd Semester course Structure A.Y2020-2021

Semester-1								
S.No	Course Code	Course Title	L	T	P	S	Cr	CH
1	19PH1010	Mechanics	3	1	0	0	4	4
2	19UC1101	Basic English	0	0	4	0	2	4
3	19MT1101	Mathematics For Computing	3	1	0	4	5	8
4	19SC1101	Problem Solving And Computer Programming	3	0	2	0	4	5
5	19ME1103	Design Tools Workshop - I	0	0	4	0	2	4
6	19SC1106	Technical Skills - 1 (Coding)	0	0	0	6	1.5	6
7	19GN1101	Counselling	0	0	0	4	0	4
Semester-3								
S.No	Course Code	Course Title	L	T	P	S	Cr	CH
1	19UC0007	Indian Heritage and Culture	2	0	0	0	0	2
2	19BT1001	Biology for Engineers	2	0	0	0	2	2
3	19MT2007	Probability and Optimization Techniques	2	1	0	0	3	3
4	19CE2101	Solid Mechanics	3	0	2	0	4	5
5	19CE2102	Mechanics of Fluids	3	0	2	0	4	5
6	19CE2103	Surveying	3	0	2	0	4	5
7	19CE2104	Construction Materials & Concrete Technology	3	0	2	0	4	5
8	19TS2001	Skilling for Engineers-1 (Field Survey)	0	0	0	4	1	4
9	19UC2103	Professional Communication Skills	0	0	4	0	2	4
Semester- 5								
S.No	Course Code	Course Title	L	T	P	S	Cr	CH
1	18CE3101	Design of Reinforced Concrete Structures	3	0	2	0	4	5
2	18CE3102	Water Resources Engineering	3	1	0	0	4	4
3	18CE3103	Transportation Engineering	3	0	2	0	4	5
4	18CE3104	Foundation Engineering	3	0	0	0	3	3

5	18TS2103	Skilling for Engineers-3 (Exploration of Structural Elements)	0	0	0	4	1	4
6	18BT1001	Biology for Engineers	2	0	0	0	2	2
7	18UC0009	Ecology & Environment	2	0	0	0	0	2
8	18UC3105	Aptitude Builder -2	0	0	4	0	2	4
9	18GN3111	Cocurricular Activity -5	0	0	0	2	0.5	2
10	18CE3150	Technical Proficiency & Training -1	0	0	0	4	1	4
Semester 7/Semester 8								
S.No	Course Code	Course Title	L	T	P	S	Cr	CH
1	17UC0008	Indian Constitution	2	0	0	-	0	2
2		Professional Elective - 4	3	0	0	-	3	3
3		Professional Elective - 5	3	0	0	-	3	3
4		Management Elective	3	0	0	-	3	3
5		Open Elective (Foreign Language/Non- Native Language)	2	0	0	-	2	2
6	17IE4048	PROJECT-1	0	0	12	-	6	12
Semester 8								
1		Open Elective 2	3	0	0	-	3	2
2	17IE4049	Practice School						
3	17IE4050	PROJECT-2	0	0	12	-	6	12