



# **Symbiosis Skills and Open University**

**B.Tech - Construction Engineering**  
**(Bachelor of Technology- Construction Engineering )**

# **Programme Structure**

## **2018-19**

<b>Symbiosis Skills and Open University</b>													
<b>School of Construction Engineering</b>													
<b>Course Structure of B. Tech(Construction Engineering)</b>													
<b>Semester-I</b>													
<b>Sr No</b>	<b>Subject Code</b>	<b>Subject Name</b>	<b>Hours</b>							<b>Credits</b>			
			<b>C</b>	<b>CL</b>	<b>T</b>	<b>P</b>	<b>S</b>	<b>H</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>S</b>	<b>C</b>
1	APSC101	Applied Mathematics I	4	1	1	2	1	5	1	1	1	1	4
2	APSC103	Applied Chemistry	4	2	0	2	1	5	2	0	1	1	4
3	CNST101	Construction Engg. fundamentals	4	2	0	2	1	5	2	0	1	1	4
4	ENGG102	Computer Programming	3	1	0	2	1	4	1	0	1	1	3
5	ENGG103	Engineering Mechanics	4	2	0	2	1	5	2	0	1	1	4
6	ENGG101	Engineering Drawing	4	0	0	2	3	5	0	0	1	3	4
7	IDSC101	IDSC-I [Life Coping Skills]	3	0	0	0	3	3	0	0	0	3	3
8	IEVS100	Environmental Studies	3	2	0	0	1	3	2	0	0	1	3
				<b>10</b>	<b>1</b>	<b>12</b>	<b>12</b>	<b>35</b>	<b>10</b>	<b>1</b>	<b>6</b>	<b>12</b>	<b>29</b>
<b>Semester-II</b>													
<b>Sr No</b>	<b>Subject Code</b>	<b>Subject Name</b>	<b>Hours</b>							<b>Credits</b>			
			<b>C</b>	<b>CL</b>	<b>T</b>	<b>P</b>	<b>S</b>	<b>H</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>S</b>	<b>C</b>
1	APSC104	Applied Mathematics II	4	1	1	2	1	5	1	1	1	1	4
2	APSC102	Applied Physics	4	2	0	2	1	5	2	0	1	1	4
3	ENGG105	Basic of Electrical and Electronics Engineering	3	1	0	2	1	4	1	0	1	1	3
4	ENGG107	Strength of Materials	3	1	0	2	1	4	1	0	1	1	3
5	ENGG106	Material Science and Engineering	4	2	0	2	1	5	2	0	1	1	4
6	CNST102	Construction Materials-I	3	1	0	2	1	4	1	0	1	1	3
7	ENGG108	Workshop Practice (Lab)	3	0	0	2	2	4	0	0	1	2	3
8	IDSC102	IDSC-2 [Life Coping Skills]	3	0	0	0	3	3	0	0	0	3	3

		Internship	8										8
				<b>8</b>	<b>1</b>	<b>14</b>	<b>11</b>	<b>34</b>	<b>8</b>	<b>1</b>	<b>7</b>	<b>11</b>	<b>35</b>
<b>Semester-III</b>													
Sr No	Subject Code	Subject Name	Hours							Credits			
			C	CL	T	P	S	H	L	T	P	S	C
1	APSC201	Applied Mathematics III	4	1	1	2	1	5	1	1	1	1	4
2	CNST201	Structural analysis	4	2	1	0	1	4	2	1	0	1	4
3	CNST202	Surveying-I	3	1	0	2	1	4	1	0	1	1	3
4	CNST203	Computer Aided Building Drawing	2	0	0	2	1	4	0	0	1	1	2
5	CNST204	Construction Materials-II	4	2	0	2	1	5	2	0	1	1	4
6	ENGG204	Fluid Mechanics	3	1	0	2	1	4	1	0	1	1	3
7	CNST205	Construction Methods & Planning	3	1	0	2	1	4	1	0	1	1	3
8	IDSC201	IDSC-3 [Life Coping Skills]	3	0	0	0	3	3	0	0	0	3	3
				<b>8</b>	<b>2</b>	<b>12</b>	<b>10</b>	<b>33</b>	<b>8</b>	<b>2</b>	<b>6</b>	<b>10</b>	<b>26</b>
<b>Semester-IV</b>													
Sr No	Subject Code	Subject Name	Hours							Credits			
			C	CL	T	P	S	H	L	T	P	S	C
1	CNST206	Concrete technology	4	2	0	2	1	5	2	0	1	1	4
2	CNST207	Quantity surveying & evaluation	4	1	1	2	1	5	1	1	1	1	4
3	CNST208	Theory of structures	4	1	1	2	1	5	1	1	1	1	4
4	CNST209	Geotechnical Engineering	4	1	1	2	1	5	1	1	1	1	4
5	CNST210	Construction Safety & Material Handling	3	1	0	2	1	4	1	0	1	1	3
6	CNST211	Planning & Scheduling Lab	2	0	0	2	1	3	0	0	1	1	2
7	IDSC202	IDSC-4 [Life Coping Skills]	3	0	0	0	3	3	0	0	0	3	3

		Internship	8											8
				6	3	12	9	30	6	3	6	9	32	

Semester-V													
Sr No	Subject Code	Subject Name	Hours							Credits			
			C	CL	T	P	S	H	L	T	P	S	C
1	CNST301	Engineering Geology & Rock Mechanics	4	1	1	2	1	5	1	1	1	1	4
	CNST302	Tendering and Contracting	4	2	0	2	1	5	2	0	1	1	4
3	CNST303	Civil, Tax laws & Contract laws	4	1	1	2	1	5	1	1	1	1	4
4	CNST304	Economics and cost accounting	4	2	0	2	1	5	2	0	1	1	4
5	CNST305	Design of Steel Structures	4	1	1	2	1	5	1	1	1	1	4
6	CNST306	Elective I Building maintenance & repairs Advanced project planning Construction logistics	4	1	1	2	1	5	1	1	1	1	4
7	IDSC301	IDSC-5 [Life Coping Skills]	3	0	0	0	3	3	0	0	0	0	3
	AUDIT COURSE	Disaster Management											
				8	4	12	9	33	8	4	6	9	27
Semester-VI													
Sr No	Subject Code	Subject Name	Hours							Credits			
			C	CL	T	P	S	H	L	T	P	S	C
1	CNST307	Reinforced concrete design	4	1	1	2	1	5	1	1	1	1	4
2	CNST308	Mechanics of solid	4	1	1	2	1	5	1	1	1	1	4

3	CNST309	Foundation engineering	4	1	1	2	1	5	1	1	1	1	4
4	CNST310	Environmental engineering	4	2	0	2	1	5	2	0	1	1	4
5	CNST311	Elective II Energy management Procurement & resource management Transport Infrastructure	4	1	1	2	1	5	1	1	1	1	4
6	CNST312	Elective III MEP Environment , Health & Safety Management Hydro infrastructure	4	1	1	2	1	5	1	1	1	1	4
7	IDSC302	IDSC-6 [Life Coping Skills]	3	0	0	0	3	3	0	0	0	3	3
		Internship	8										8
				<b>7</b>	<b>5</b>	<b>12</b>	<b>9</b>	<b>33</b>	<b>7</b>	<b>5</b>	<b>6</b>	<b>9</b>	<b>35</b>

Semester-VII													
Sr No	Subject Code	Subject Name	Hours						Credits				
			C	CL	T	P	S	H	L	T	P	S	C
1	CNST401	Internship	13										
2	CNST402	Seminar	2						5	10			15
Semester-VIII													
Sr No	Subject Code	Subject Name	Hours						Credits				
			C	CL	T	P	S	H	L	T	P	S	C
1	CNST403	Project	13										
2	CNST404	Seminar	2										
									5	10			15