ADAMAS UNIVERSITY

PURSUE EXCELLENCE

KOLKATA

ADAMAS UNIVERSITY
SCHOOL OF ENGINEERING & TECHNOLOGY

B.Tech. Civil Engineering

Course Structure

Academic Year 2020-21

	SEMESTER I								
S. No	**Type**		**Course Title**	**Subject Codes**	**L**	**T**	**P**	**Contact Hrs/wk**	**Credits**
1	Theory		Engineering Mathematics-I	MTH11501	3	1	0	4	4
2	Theory		Applied Science	PHY11201	3	0	0	3	3
3	Theory		Introduction to Programming / Electrical and Electronics Technology	CSE11001 GEE11001	3	0	0	3	3
4	Theory		HSSM –I (English Communication-I)	ENG11053	3	0	0	3	3
5	Theory		Life Sciences	BIT11003	3	0	0	3	3
6	Theory		Design Thinking	DGS11001	2	0	0	2	2
7	Practical		Applied Science Lab	PHY12202	0	0	3	3	2
8	Practical		Programming Lab / Electrical and Electronics Technology Lab	CSE12002 GEE12002	0	0	3	3	2
9	Practical		Engineering Drawing and CAD/ Engineering Workshop	CEE12001 MEE12001	0	0	3	3	2
10	Practical		Communication and Collaboration Skill –I	ENG11043	0	0	2	2	1
11	Practical		Capstone Project-I	GEE14003	0	0	2	2	1
Total					**17**	**1**	**13**	**31**	**26**

	SEMESTER II								
S. No	**Type**		**Course Title**	**Subject Codes**	**L**	**T**	**P**	**Contact Hrs/wk**	**Credits**
1.	Theory		Engineering Mathematics– II	MTH11502	3	1	0	4	4
2.	Theory		Electrical and Electronics Technology/ Introduction to Programming	GEE11001 CSE11001	3	0	0	3	3
3.	Theory		Engineering Mechanics	MEE11002	3	1	0	4	4

4.	Theory		Environmental Science	EVS11107	3	0	0	3	3
5.	Practical		Electrical and Electronics Technology Lab/ Programming Lab	GEE12002 CSE12002	0	0	3	3	2
6.	Practical		Engineering Workshop/ Engineering Drawing and CAD	MEE12001 CEE12001	0	0	3	3	2
7.	Practical		Communication and Collaboration Skill –II	ENG11044	0	0	2	2	1
8.	Practical		Capstone Project-II	GEE14004	0	0	2	2	1
9.	Practical		Interdisciplinary Project	IDP14001	0	0	5	5	3
			Total		**12**	**2**	**15**	**29**	**23**

Total Credits (First Year): 49

HSSM: Humanities, Social Sciences & Management
BSC: Basic Science
ESC: Engg. Science

SECOND YEAR

	Semester-III								
S. No	**Type**		**Subject Name**	**Subject Codes**	**L**	**T**	**P**	**Contact Hrs/wk**	**Credits**
1.	Theory BSC		Engineering Mathematics– III A	MTH11529	3	1	0	4	4
2.	Theory ESC		Engineering Geology	CEE11002	3	0	0	3	3
3.	Theory HSSM		HSSM-IV (Economics for Engineers)	**ECO11505**	3	0	0	3	3
4.	Theory PC		Prof. Core – I Building Planning and Materials	CEE11003	3	0	0	3	3
5.	Theory PC		Prof. Core – II	CEE11004	3	0	0	3	3

			Fluid Mechanics & Hydraulic Machinery						
6.	Theory PC		Prof. Core – III Structural Mechanics I	CEE11005	3	0	0	3	3
7.	Theory		Venture Ideation	EIC11001	2	0	0	2	2
8.	Practical PC		Prof. Core Lab – I Fluid Mechanics Lab	CEE12006	0	0	3	3	2
9.	Practical		Capstone Project-III	GEE14005	0	0	2	2	1
10.	Practical		# Community Service	SOC14100	-	-	-	-	1
			Total		**20**	**1**	**5**	**26**	**25**

 # Community Service will be taken up during the summer vacation of II Semester and evaluated in III Semester.

	SEMESTER-IV								
S. No	**Type**		**Subject Name**	**Subject Codes**	**L**	**T**	**P**	**Contact Hrs/wk**	**Credits**
1.	Theory **BSC**		Engineering Mathematics-IV (Numerical Techniques)	**MTH11530**	3	0	0	3	3
2.	Theory **PC**		Prof. Core – IV Structural Mechanics II	CEE11007	3	0	0	3	3
3.	Theory **PC**		Prof. Core – V Soil Mechanics	CEE11008	3	0	0	3	3
4.	Theory **PC**		Prof. Core – VI Surveying	CEE11009	3	0	0	3	3
5.	Theory **PC**		Prof. Core – VII Water Resources Engineering	CEE11010	3	0	0	3	3
6.	Theory		Human Values & Ethics and Psychology	PSG11021	2	0	0	2	2
7.	Practical BSC		Numerical Techniques Lab	**MTH12531**	0	0	3	3	2
8.	Practical **PC**		Prof. Core Lab – II Surveying Practice Lab	CEE12011	0	0	3	3	2
9.	Practical **PC**		Prof. Core Lab – III Solid Mechanics Lab	CEE12012	0	0	3	3	2

10.	Practical		Capstone Project-IV	GEE14006	0	0	2	2	1
				Total	**17**	**0**	**11**	**28**	**24**

Total Credit (Second Year): 49

THIRD YEAR

	SEMESTER –V								
S. No	**Type**		**Subject Name**	**Subject Codes**	**L**	**T**	**P**	**Contact Hrs /week**	**Credits**
1.	Theory PC		Prof. Core – VIII Design of RC Structure	CEE11013	3	0	0	3	3
2.	Theory PC		Prof. Core – IX Foundation Engineering	CEE11014	3	0	0	3	3
3.	Theory PC		Prof. Core – X Transportation Engineering	CEE11015	3	0	0	3	3
4.	Theory PE		**Prof. Elective – I** 1.Earthquake Engineering 2.Concrete Technology 3.Solid Waste Management	 CEE11017 CEE11018 CEE11019	3	0	0	3	3
5.	Practical PC		Prof. Core Lab – IV Geotechnical Engineering Lab	CEE12020	0	0	3	3	2
6.	Practical PC		Prof. Core Lab – V Transportation Engineering Lab	CEE12021	0	0	3	3	2
7.	Practical PC		Prof. Core Lab – VI Civil Engineering Drawing	CEE12022	0	0	3	3	2
8.	Practical		Capstone Project-V	GEE14007	0	0	2	2	1
				Total	**15**	**1**	**14**	**30**	**25**

	SEMESTER –VI

S. No	Type		Subject Name	Subject Codes	L	T	P	Contact Hrs /wk	Credits
1.	Theory PC		Prof. Core – XI Design of Steel Structure	CEE11024	3	0	0	3	3
2.	Theory PC		Prof. Core – XII Environmental Engineering	CEE11025	3	0	0	3	3
3.	Theory PE		**Prof. Elective – II** 1. Remote Sensing & GIS 2. Advanced Construction Materials & Techniques 3. Advanced Structural Analysis	CEE11026 CEE11027 CEE11028	3	0	0	3	3
4.	Theory OE		**Open Elective – I** 1. Disaster Management 2. Dream House Construction	CEE11029 CEE11030	2	0	0	2	2
5.	Practical PC		Prof. Core Lab – VIII Environmental Engineering Lab	CEE12033	0	0	3	3	2
6.	Practical (Sessional) PC		Prof. Core Lab – IX Estimation & Valuation	CEE12034	0	0	3	3	2
7.	Practical PC		**Prof. Elective-I Lab** 1. **Remote Sensing & GIS Lab** 2. **Advanced Structural Analysis Lab**	CEE12035 CEE12036	0	0	3	3	2
			Total		**17**	**1**	**12**	**30**	**26**

Total Credit (Third Year): 51

FOURTH YEAR

		SEMESTER-VII							
S. No	**Type**		**Subject Name**	**Subject Codes**	**L**	**T**	**P**	**Contact Hrs/week**	**Credits**

1.	Theory HSSM		HSSM –V (Industrial Management)	MGT11402	3	0	0	3	3
2.	Theory PE		**Prof. Elective – III** 1. Air Pollution Control Engineering 2. Construction Planning & Management 3. Advanced RC Design	CEE11038 CEE11039 CEE11040	3	0	0	3	3
3.	Theory PE		**Prof. Elective – IV** 1. Repair and Rehabilitation of Structures 2. Prestressed Concrete 3. Environmental Impact Assessment	CEE11041 CEE11042 CEE11043	3	0	0	3	3
4.	Theory OE		**Open Elective – II** 1. Industrial Waste Management 2. Energy Conservation Techniques in Building	CEE11044 CEE11045	3	0	0	3	3
5.	Theory OE		**Open Elective – III** 1. Conservation of Water Resources 2. Sustainable Development	CEE11046 CEE11047	3	0	0	3	3
7.	Practical PC		**Prof. Elective II Lab** Air Pollution Control Lab/ **Construction Planning & Management Lab**/ Advanced RC Design Lab	CEE12049 CEE12050 CEE12051	0	0	3	3	2
9.	Practical PC		Summer Internship[#]	CEE14053	-	-	-	-	2
10.	Practical PC		Minor Project	CEE14054	0	0	6	6	3
			Total		**18**	**0**	**12**	**30**	**27**

 # Summer Internship for 30 days will be taken at the end of 6th semester and will be evaluated in the 7th semester.

	Semester-VIII								
S. No	**Type**		**Subject Name**	**Subject Codes**	**L**	**T**	**P**	**Contact Hrs/week**	**Credits**
1.	Practical		Industry Work Experience / SIRE* / Major Project	CEE14056 CEE14057 CEE14058	0	0	12	12 (For Major	5

								Project only)	
2.	Practical		Comprehensive Viva Voce	CEE15059	------			------	2
			Total		**3**	**0**	**12**	**15**	**12**

***SIRE: Scientific Investigation & Research Experience**