



ADAMAS UNIVERSITY
SCHOOL OF ENGINEERING & TECHNOLOGY

SOET 2.0

(Engineering +)

Course Structure

Academic Year 2020-21

ADAMAS UNIVERSITY
SCHOOL OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING
B.Tech (Civil Engineering)
Course Structure

FIRST YEAR

SEMESTER I								
S. No	Type	Course Code	Course Title	L	T	P	Contact Hrs/wk	Credits
1	Theory	SMA41101	Engineering Mathematics-I	3	1	0	4	4
2	Theory		Applied Science	3	0	0	3	3
3	Theory	ECS41101 / EEE41102	Introduction to Programming / Electrical and Electronics Technology	3	0	0	3	3
4	Theory	HEN41117	HSSM –I (English Communication- I)	3	0	0	3	3
5	Theory	/SBT41108	HSSM –II (Human Values & Ethics and Psychology) / Life Sciences	3	0	0	3	3
6	Practical		Applied Science Lab	0	0	3	3	2
7	Practical	ECS41201 / EEE41202	Programming Lab / Electrical and Electronics Technology Lab	0	0	3	3	2
8	Practical	ECE41201/ EME41204	Engineering Drawing and CAD/Engineering Workshop	0	0	3	3	2
9	Practical	EMC41201	Communication and Collaboration Skill –I	0	0	2	2	1
10	Practical		Avant Garde Project-I	0	0	2	2	1
Total				15	1	13	29	24

SEMESTER II								
S. No	Type	Course Code	Course Title	L	T	P	Contact Hrs/wk	Credits
1.	Theory	SMA41102	Engineering Mathematics– II	3	1	0	4	4
2.	Theory	EEE41102 /ECS41101	Electrical and Electronics Technology/ Introduction to Programming	3	0	0	3	3
3.	Theory	SBT41108/ EME41102	Life Sciences/ HSSM –II (Human Values & Ethics and Psychology)	3	0	0	3	3
4.	Theory		Engineering Mechanics	3	1	0	4	4
5.	Theory		Environmental Science	3	0	0	3	3
6.	Practical	EEE41202 /ECS41201	Electrical and Electronics Technology Lab/ Programming Lab	0	0	3	3	2
7.	Practical	EME41204/ ECE41201	Engineering Workshop/Engineering Drawing and CAD	0	0	3	3	2
8.	Practical	EMC41202	Communication and Collaboration Skill -II	0	0	2	2	1
9.	Practical		Avant Garde Project-II	0	0	2	2	1
Total				15	2	10	27	23

Total Credits (First Year): 47

HSSM: Humanities, Social Sciences & Management

BSC: Basic Science

ESC: Engg. Science

SECOND YEAR

Semester-III								
S. No	Type	Course Code	Subject Name	L	T	P	Contact Hrs/wk	Credits
1.	Theory BSC	SMA42109	Engineering Mathematics– III	3	1	0	4	4
2.	Theory ESC	ECE42101	Engineering Geology	3	0	0	3	3
3.	Theory HSSM		HSSM-IV (Economics for Engineers)	3	0	0	3	3
4.	Theory PC	ECE42103	Prof. Core – I Building Planning and Material	3	0	0	3	3
5.	Theory PC	ECE42105	Prof. Core – II Fluid Mechanics & Hydraulic Machinery	3	0	0	3	3
6.	Theory PC	ECE42107	Prof. Core – III Structural Mechanics I	3	0	0	3	3
7.	Practical PC	ECE42201	Prof. Core Lab – I Fluid Mechanics Lab	0	0	3	3	2
8.	Practical		Design Thinking-I	0	0	3	3	2
9.	Practical		Avant Garde Project-III	0	0	2	2	1
Total				18	1	8	27	24

SEMESTER-IV								
S. No	Type	Course Cod	Subject Name	L	T	P	Contact Hrs/wk	Credits
1.	Theory BSC	SMA42111	Engineering Mathematics-IV	3	0	0	3	3
2.	Theory PC	ECE42102	Prof. Core – IV Structural Mechanics II	3	0	0	3	3
3.	Theory PC	ECE42104	Prof. Core – V Soil Mechanics	3	0	0	3	3
4.	Theory PC	ECE42106	Prof. Core – VI Surveying	3	0	0	3	3
5.	Theory PC	ECE42108	Prof. Core – VII Water Resources Engineering	3	0	0	3	3
6.	Practical BSC	SMA42211	Numerical Techniques Lab	0	0	3	3	2
7.	Practical PC	ECE42202	Prof. Core Lab – II Surveying Practice Lab	0	0	3	3	2
8.	Practical PC	ECE42204	Prof. Core Lab – III Solid Mechanics Lab	0	0	3	3	2
9.	Practical		Interdisciplinary Project AU	0	0	5	5	3
10.	Practical		Design Thinking-II	0	0	3	3	2
11.	Practical		Avant Garde Project-IV	0	0	2	2	1
Total				15	0	19	34	27

Total Credit (Second Year): 51

THIRD YEAR

SEMESTER –V								
S. No	Type	Course Code	Subject Name	L	T	P	Contact Hrs /week	Credits
1.	Theory PC	ECE43101	Prof. Core – VIII Design of RC Structure	3	0	0	3	3
2.	Theory PC	ECE43103	Prof. Core – IX Foundation Engineering	3	0	0	3	3
3.	Theory PC	ECE 43105	Prof. Core – X Transportation Engineering	3	0	0	3	3
4.	Theory PE	ECE43107/ ECE43109/ ECE43111	Prof. Elective – I 1. Earthquake Engineering 2. Concrete Technology 3. Solid Waste Management	3	0	0	3	3
5.	Practical PC	ECE43201	Prof. Core Lab – IV Geotechnical Engineering Lab	0	0	3	3	2
6.	Practical PC	ECE43203	Prof. Core Lab – V Transportation Engineering Lab	0	0	3	3	2
7.	Practical PC	ECE43205	Prof. Core Lab – VI Civil Engineering Drawing	0	0	3	3	2
8.	Practical		Venture Ideation	0	0	2	2	1
9.	Practical		Avant Garde Project-V	0	0	2	2	1
10.	Practical		#Adamas Foundation (CSR Activity)	—	—	—	—	1
Total				12	0	13	25	21

SEMESTER –VI								
S. No	Type	Course Code	Subject Name	L	T	P	Contact Hrs/wk	Credits
1.	Theory PC	ECE43102	Prof. Core – XI Design of Steel Structure	3	0	0	3	3
2.	Theory PC	ECE43104	Prof. Core – XII Environmental Engineering	3	0	0	3	3
3.	Theory PE	ECE43106/ ECE43108/ ECE43110	Prof. Elective – II 1. Remote Sensing & GIS 2. Advanced Construction Materials & Techniques 3. Advanced Structural Analysis	3	0	0	3	3
4.	Theory OE	-----	Open Elective – I	2	0	0	2	2
5.	Practical PC	ECE43202	Prof. Core Lab – VIII Environmental Engineering Lab	0	0	3	3	2
6.	Practical (Sessional) PC	ECE43204	Prof. Core Lab – IX Estimation & Valuation	0	0	3	3	2
7.	Practical PC	ECE43206/ ECE43208/ ECE43210	Prof. Elective-II Lab 1. Remote Sensing & GIS Lab 2. Advanced Construction Materials Lab 3. Advanced Structural Analysis Lab	0	0	3	3	2
Total				11	0	9	20	17

Total Credit (Third Year): 38

FOURTH YEAR

SEMESTER-VII								
S. No	Type	Course CODE	Subject Name	L	T	P	Contact Hrs/week	Credits
1.	Theory HSSM		HSSM –V (Industrial Management)	3	0	0	3	3
2.	Theory PE	ECE44101/ ECE44103/ ECE44105	Prof. Elective – III 1. Air Pollution Control Engineering 2. Construction Planning & Management 3. Advanced RC Design	3	0	0	3	3
3.	Theory PE	ECE44107/ ECE44109/ ECE44111	Prof. Elective – IV 1. Repair and Rehabilitation of Structures 2. Prestressed Concrete 3. Environmental Impact Assessment	3	0	0	3	3
4.	Theory OE	---	Open Elective – II	3	0	0	3	3
5.	Theory OE	---	Open Elective – III	3	0	0	3	3
6.	Practical PC	ECE44201/ ECE44203/ ECE44205	Prof. Elective III Lab Air Pollution Control Lab/Construction Planning & Management Lab/ Advanced RC Design Lab	0	0	3	3	2
7.	Practical PC	ECE44301	Summer Internship [#]	–	—		—	2
8.	Practical PC	ECE44401	Minor Project	0	0	6	6	3
Total				15	0	9	24	22

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	Course Code	Subject Name	L	T	P	Contact Hrs/week	Credits
1.	Practical	ECE44402/ ECE44404/ ECE44406	Industry Work Experience / SIRE* / Major Project	0	0	12	12 (For Major Project only)	5
2.	Practical	ECE44502	Comprehensive Viva Voce	-----			-----	2
Total				0	0	12	12	7

*SIRE: Scientific Investigation & Research Experience

Total Credits (Fourth Year): 29

Total Credits (Over four years): 47+51+38+29 = 165

Total Credits Distribution Semester wise:

Semester	I	II	III	IV	V	VI	VII	VIII	Total Credits
Credits	24	23	24	27	21	17	22	7	165