ADAMAS UNIVERSITY
SCHOOL OF ENGINEERING & TECHNOLOGY
B.Tech PROGRAMME

First Year

SEMESTER I								
S. No	**Type**	**Course Code**	**Course Title**	**L**	**T**	**P**	**Contact Hrs/ wk**	**Credits**
	Theory **BSC**	**SMA41101**	Engineering Mathematics-I	3	1	0	4	4.0
	Theory **BSC**	**SPH41109/SCY41106**	Engineering Physics /Engineering Chemistry	3	0	0	3	3.0
	Theory **ESC**	**ECS41101/EEE41102**	Introduction to Programming /Electrical and Electronics Technology	3	0	0	3	3.0
	Theory **HSSM**	**HEN41117**	HSSM –I (English Communication-I)	3	0	0	3	3.0
	Theory **HSSM/BSC**	**HEN41119/SBT41108**	HSSM –II (ENGINEERING ETHICS, VALUES AND THE LAWS) / Life Sciences	3	0	0	3	3.0
	Practical **BSC**	**SPH41209/ SCY41206**	Engineering Physics Lab/ Engineering Chemistry Lab	0	0	3	3	2.0
	Practical **ESC**	**ECS41201/ EEE41202**	Programming Lab/ Electrical and Electronics Technology Lab	0	0	3	3	2.0
	Practical **ESC**	**ECE41201/EME41202**	Engineering Drawing and CAD/ Engineering Workshop	0	0	3	3	2.0
	Practical **MC**	**EMC41201**	Communication and Collaboration Skill -I	0	0	2	2	1
Total				**15**	**1**	**11**	**27**	**23**

SEMESTER II								
S. N	**Type**	**Course Code**	**Course Title**	**L**	**T**	**P**	**Contact Hrs/**	**Credits**

o							**wk**	
	Theory **BSC**	**SMA41102**	Engineering Mathematics– II	3	1	0	4	4.0
	Theory **BSC**	**SCY41106/ SPH41109**	Engineering Chemistry / Engineering Physics	3	0	0	3	3.0
	Theory **ESC**	**EEE41102/ ECS41101**	Electrical and Electronics Technology / Introduction to Programming	3	0	0	3	3.0
	Theory **BSC/ HSSM**	**SBT41108/ HEN41119**	Life Sciences/ HSSM –II (ENGINEERING ETHICS, VALUES AND THE LAWS)	3	0	0	3	3.0
	Theory **ESC**	**EME41104**	Engineering Mechanics	3	0	0	3	3.0
	Practical **HSSM**	**HEN41212**	HSSM – III (Professional Communication in English)	0	0	3	3	2.0
	Practical **BSC**	**SCY41206/ SPH41209**	Engineering Chemistry Lab /Engineering Physics Lab	0	0	3	3	2.0
	Practical **ESC**	**EEE41202/ ECS41201**	Electrical and Electronics Technology Lab / Programming Lab	0	0	3	3	2.0
	Practical **ESC**	**EME41202/ ECE41201**	Engineering Workshop/ Engineering Drawing and CAD	0	0	3	3	2.0
	Practical **MC**	**EMC41202**	Communication and Collaboration Skill -II	0	0	2	2	1
Total				**15**	**1**	**14**	**30**	**25**

Total Credit (First Year): 48

HSSM: Humanities, Social Sciences & Management; **BSC:** Basic Science; **ESC:** Engg. Science; **PC:** Program Core

Semester- III

S. No	Type	Course Code	Subject Name	L	T	P	Contact Hrs/week	Credits
1.	Theory	HEC42180	HSSM –IV (Economics for Engineers)	3	0	0	3	3
2.	Theory	SMA42111	Probability, Statistics and Numerical Methods	3	1	0	4	4
3.	Theory	ECS42107	Engineering Science Course (Introduction to Python)	3	0	0	3	3
4.	Theory	ECS42105	Switching Circuits and Logic Design (Prof. Core- II)	3	0	0	3	3
5.	Theory	ECS42103	Formal Languages and Automata Theory (Prof. Core-III)	3	0	0	3	3
6.	Theory	ECS42101	Data Structures and Algorithms (Prof. Core-I)	3	0	0	3	3
7.	Practical	ECS42201	Data Structures and Algorithms Lab (Prof. Core-I Lab)	0	0	3	3	2
8.	Practical	EMC42101	Design Thinking for Engineers	0	0	3	3	2
9.	Practical	SET42403	Capstone Project -A	0	0	2	2	1
			Total	**18**	**1**	**8**	**27**	**24**

Second Year

Semester-IV								
S. No	**Type**	**Course Code**	**Subject Name**	**L**	**T**	**P**	**Contact Hrs/week**	**Credits**
1.	Theory	ECS42110	Operations Research	3	0	0	3	3
2.	Theory	ECS42112	Design & Analysis of Algorithm	3	0	0	3	3
3.	Theory	ECS42114	Object Oriented Programming	3	0	0	3	3

4.	Theory	ECS43101	Software Engineering	3	0	0	3	3
5.	Theory	ECS43103	Computer Architecture	3	0	0	3	3
6.	Practical	SMA42211	Numerical Techniques Lab	0	0	3	3	2
7.	Practical	ECS42212	Design & Analysis of Algorithm Lab	0	0	3	3	2
8.	Practical	ECS42214	Object Oriented Programming Lab	0	0	3	3	2
9.	Practical	SET42406	Interdisciplinary Project Work	0	0	5	5	3
10.	Practical	SET42404	Capstone Project -B	0	0	2	2	1
			Total	**15**	**0**	**17**	**32**	**25**

Total Credit (Second Year):49

Third Year

Semester-V								
S. No	**Type**	**Course Code**	**Subject Name**	**L**	**T**	**P**	**Contact Hrs/week**	**Credits**
1.	Theory	ECS43105	Compiler Design (Prof. Core- VIII)	3	0	0	3	3
2.	Theory	ECS43107	Database Management Systems (Prof. Core- IX)	3	0	0	3	3
3.	Theory	ECS43102	Operating Systems (Prof. Core- X)	3	0	0		3

							3	
4.	Theory		Prof. Elective -I	3	0	0	3	3
5.	Practical	ECS43205	Compiler Design Lab (Prof. Core- VIII Lab)	0	0	3	3	2
6.	Practical	ECS43207	Database Management Systems Lab (Prof. Core- IX Lab)	0	0	3	3	2
7.	Practical	ECS43202	Operating Systems Lab (Prof. Core- X Lab)	0	0	3	3	2
8.	Theory	SET43101	Venture Ideation for Beginners	2	0	0	2	2
9.	Project	SET43403	Capstone Project -C	0	0	2	2	1
			Total	**14**	**1**	**11**	**25**	**21**

Semester-VI

S. No	**Type**	**Course Code**	**Subject Name**	**L**	**T**	**P**	**Contact Hrs/week**	**Credits**
1.	Theory	ECS43104	Computer Networks (Prof. Core- XI)	3	0	0	3	3
2.	Theory	ECS43106	Artificial Intelligence and Machine Learning (Prof. Core- XII)	3	0	0	3	3
3.	Theory		Prof. Elective -II	3	0	0	3	3
4.	Theory		Open Elective -I	2	0	0	2	2

5.	Practical	ECS43204	Computer Networks Lab (Prof. Core- XI Lab)	0	0	3	3	2
6.	Practical	ECS43206	Artificial Intelligence and Machine Learning Lab (Prof. Core- XII Lab)	0	0	3	3	2
7.	Practical		Prof. Elective –II Lab	0	0	3	3	2
			Total	**11**	**00**	**09**	**20**	**17**

Total Credit (Third Year): 38

Semester-VII								
S. No	**Type**	**Course Code**	**Subject Name**	**L**	**T**	**P**	**Contact Hrs/week**	**Credits**
1.	Theory	MBA43144	HSSM –V (Industrial Management)	3	0	0	3	3
2.	Theory		Prof. Elective -III	3	0	0	3	3
3.	Theory		Prof. Elective -IV	3	0	0	3	3
4.	Theory		Open Elective –II	3	0	0	3	3
5.	Theory		Open Elective –III	3	0	0	3	3
6.	Practical		Prof. Elective –III Lab	0	0	3	3	2
7.	Internship/Training	ECS44601	Summer Internship	--	--	--	--	2
8.	Project	ECS44401	Minor Project	0	0	6	6	3
			Total	**15**	**00**	**09**	**24**	**22**

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

Fourth Year

Semester-VIII

S. No	Type	Course Code	Subject Name	L	T	P	Contact Hrs/week	Credits
1.	Theory/Project	ECS44402	Industry Work Experience / SIRE* / Major Project	0	0	0	12 (For Major Project only)	5
2.	Viva	ECS44502	Comprehensive Viva Voce	------			------	2
			Total					**7**

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

Total Credits (Fourth Year): 29

Total Credits (Over four years): 48+49+38+29 = 164