



ADAMAS UNIVERSITY
SCHOOL OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
UG Program: B.Tech (Computer Science and Engineering Specialization in SAP)

COURSE STRUCTURE

FIRST YEAR

(Common for all streams)

SEMESTER I							
S.No	Course Code	Course Title	L	T	P	H	C
1	MTH11501	Engineering Mathematics I	4	0	0	4	4
2	EVS11112	Environmental Science	3	0	0	3	3
3	PHY13201	Applied Science	2	0	2	4	
4	CSE11001	Introduction to Programming	2	0	0	2	2
5	GEE11001	Electrical and Electronics Technology	2	0	0	2	2
6	CSE12002	Programming Lab	0	0	4	4	
7	GEE12002	Electrical and Electronics Technology Lab	0	0	4	4	2
8	ENG11053	English Communication	2	0	0	2	2
9	GEE11012	Disruptive Technology Innovations	2	0	0	2	2
10	BIT11003	Life Sciences	2	0	0	2	2
11	DGS11002	Design Thinking & Prototyping	3	0	0	3	3
12	MEE11002	Engineering Mechanics	3	0	0	3	3
13	CEE12001	Engineering Drawing and CAD	0	0	4	4	2
14	MEE12001	Engineering Workshop	0	0	4	4	
Semester I Total			15/16	0	8/10	24/25	20

SEMESTER II							
S.No .	Course Code	Course Title	L	T	P	H	C
1	MTH11502	Engineering Mathematics II	4	0	0	4	4
2	EVS11112	Environmental Science	3	0	0	3	3
3	PHY13201	Applied Science	2	0	2	3	
4	CSE11001	Introduction to Programming	2	0	0	2	2
5	GEE11001	Electrical and Electronics Technology	2	0	0	2	
6	CSE12002	Programming Lab	0	0	4	2	2
7	GEE12002	Electrical and Electronics Technology Lab	0	0	4	2	
8	ENG11053	English Communication	2	0	0	2	2
9	GEE11012	Disruptive Technology Innovations	2	0	0	2	
10	EIC11001	Venture Ideation	2	0	0	2	2
11	CLL	TBD	0	0	2	2	1
11	DGS11002	Design Thinking & Prototyping	3	0	0	3	3
12	MEE11002	Engineering Mechanics	3	0	0	3	
13	CEE12001	Engineering Drawing and CAD	0	0	4	2	2
14	MEE12001	Engineering Workshop	0	0	4	2	
15	SAP13001	Intergrated Business Processes in Cloud ERP I	2	0	1	3	3
16	SAP13003	Basic ABAP Programming	1	0	1	2	2
Semester II Total			18/19	0	12/14	32/31	26

Introduction To Programming / Electrical and Electronics Technology are optional papers

1st Year Credits = 46

SECOND YEAR

SEMESTER III							
S.No .	Course Code	Course Title	L	T	P	H	C
1	SDS11510	Engineering Mathematics – III-C	3	1	0	4	4
2	CSE11108	Database Management System	3	0	0	3	3
3	CSE11103	Principles of Programming Language	3	0	0	3	3
4	CSE11104	Data Structures and Algorithms	3	0	0	3	3
5	CSE11105	Switching Circuits and Logic Design	3	0	0	3	3
-6	CSE12106	Principles of Programming Language Lab	0	0	2	2	1
7	CSE12107	Data Structures and Algorithms Lab	0	0	2	2	2
8	CSE12113	Database Management System Lab	0	0	2	2	2
9	SOC14100	Community Service #	0	0	0	0	1
10	CLL	TBD	0	0	2	2	1
11	SAP13002	Intergrated Business Processes in Cloud ERP II	2	0	1	3	3
12	SAP13004	Intermediate ABAP Programming	3	0	1	4	4
Semester III Total			20	1	10	31	30

#Community Service will be taken up during the summer break after 2nd semester, and will be evaluated in the 3rd semester.

SEMESTER IV							
S.No .	Course Code	Course Title	L	T	P	H	C
1	MTH11534	Discrete Structures and Logic	3	0	0	3	3
2	CSE11109	Object Oriented Programming	3	0	0	3	3
3	CSE11110	Design and Analysis of Algorithms	3	0	0	3	3
4	CSE11111	Formal Language and Automata	3	0	0	3	3
5	CSE11112	Introduction to Artificial Intelligence	3	0	0	3	3
6	PSG11021	Human Values and Professional Ethics	2	0	0	2	2
7	MTH12531	Numerical Techniques Lab	0	0	2	2	1
8	CSE12114	Object Oriented Programming Lab	0	0	2	2	1
9	CSE12166	Design and Analysis of Algorithms Lab	0	0	2	2	1
10	CLL	TBD	0	0	2	2	1
11	SAP13005	Advanced ABAP Programming	3	0	1	4	4
Semester IV Total			20	0	9	29	25

2nd Year Credits : 55

THIRD YEAR

SEMESTER V							
S.No.	Course Code	Course Title	L	T	P	H	C
1	CSE11115	Computer Networks	3	0	0	3	3
2	CSE11116	Computer Organization and Architecture	3	0	0	3	3
3	CSE11117	Software Engineering	3	0	0	3	3
4	CSE11167	Competitive Programming-I	3	0	0	3	3
5		Professional Elective - I	3	0	0	3	3
	CSE11118	Introduction to Python					
	CSE11119	Optimization and Game Theory					
	CSE11120	Introduction to Data Science					
	CSE11121	Distributed Systems and Cloud					
	CSE11122	Introduction to Cyber Security					
6		Professional Elective - II	3	0	0	3	3
	CSE11123	Full Stack Software Development					
	CSE11124	Pattern Recognition and Soft Computing					
	CSE11125	Data Mining and Warehousing					
	CSE11126	Cloud Security					
	CSE11127	Cyber Law and Governance					
7	CSE12128	Computer Networks Lab	0	0	2	2	1
8	CSE12129	Computer Organization and Architecture Lab	0	0	2	2	1
9	CSE12168	Software Engineering Lab	0	0	2	2	1
10	CSE12169	Competitive Programming Lab	0	0	2	2	1
11	CLL	TBD	0	0	2	2	1
12	SAP13006	Fiori Programming I	4	0	1	5	5
Semester V Total			22	0	11	33	28

SEMESTER VI								
S.No.	Course Code	Course Title	L	T	P	H	C	
1	CSE11150	Operating Systems	3	0	0	3	3	
2	CSE11206	Introduction to Machine Learning	3	0	0	3	3	
3		Professional Elective - II	3	0	0	3	3	
		High Performance Computer Architecture						
	CSE11202	Unstructured Database						
	CSE11027	Computational Geometry						
4		Open Elective - I	2	0	0	2	2	
	ECE11028	Internet of Things						
	ECE11030	Low Power VLSI						
	EEE11104	Renewable Energy Engineering						
	CEE11029	Disaster Management						
	MEE11037	Robotics						
	MEE11046	Automobile Engineering						
	EEE11101	Introduction to Electric Vehicle						
5	CSE12156	Operating System Lab	0	0	3	3	2	
6	CSE12207	Introduction to Machine Learning Lab	0	0	3	3	2	
7	CLL	TBD	0	0	2	2	1	
8		Professional Elective Lab - II	0	0	3	3	2	
	CSE12031	High Performance Computer Architecture Lab						
	CSE12203	Unstructured Database Lab						
	CSE12033	Computational Geometry Lab						
9	SAP13007	Fiori Programming II	2	0	1	3	3	
Semester VI Total			11	0	16	27	21	

3rd Year Credits : 49

FOURTH YEAR

SEMESTER VII								
S.No.	Course Code	Course Title	L	T	P	H	C	
1	MGT11402	Industrial Management	3	0	0	3	3	
2	XXXXXXXX	Open Elective-III	3	0	0	3	3	
3		Professional Elective - III	3	0	0	3	3	
	CSE11035	Image Processing						
	CSE11036	Cloud Computing						
	CSE11038	Computer Graphics						
	CSE11037	Information Retrieval						
4		Professional Elective - IV	3	0	0	3	3	
	CSE11041	Internet of Things (IoT)						
	CSE11040	Cryptography & Cyber Security						
	CSE11042	5G Wireless Communication Network						
5		Open Elective - II	3	0	0	3	3	
	MEE11060	Computer-Aided Simulation & Analysis						
	ECE11049	Microcontrollers and Interfacing						
	BIT11074	Bioinformatics						
6		Professional Elective Lab - III	0	0	2	2	1	
	CSE12044	Image Processing Lab						
	CSE12045	Cloud Computing Lab						
	CSE12047	Computer Graphics Lab						
	CSE12046	Information Retrieval Lab						
7	CSE14049	Summer Internship #	0	0	0	0	3	
8	SAP15008	Minor Project	0	0	8	8	4	
9	CLL	TBD	0	0	2	2	1	
Semester VII Total			15	0	10	25	24	

#Summer Internship will be taken up during the summer break after 6th semester, and will be evaluated in the 7th semester.

SEMESTER VIII								
S.No.	Course Code	Course Title	L	T	P	H	C	
1	SAP15009	Major Project	0	0	22	22	11	
2	CSE15061	Comprehensive Viva Voce	0	0	0	0	2	
Semester VIII Total			0	0	12	12	13	

*SIRE: Scientific Investigation and Research Experience

4th Year Credits: 37

CREDIT DISTRIBUTION (SEMESTER-WISE)

SEM I	SEM II	SEM III	SEM IV	SEM V	SEM VI	SEM VII	SEM VIII	TOTAL
20	26	30	25	28	21	24	13	187

CREDIT DISTRIBUTION(YEAR-WISE)

YEAR I	YEAR II	YEAR III	YEAR IV	TOTAL
46	55	49	37	187