

ANNA UNIVERSITY, CHENNAI
AFFILIATED INSTITUTIONS
M.TECH. INFORMATION TECHNOLOGY
REGULATIONS – 2017
CHOICE BASED CREDIT SYSTEM
CURRICULA AND SYLLABI

SEMESTER - I

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA5160	Applied Probability and Statistics	FC	4	4	0	0	4
2.	CP5151	Advanced Data Structures and Algorithms	PC	4	4	0	0	4
3.	CP5152	Advanced Computer Architecture	PC	3	3	0	0	3
4.	CP5153	Operating System Internals	PC	3	3	0	0	3
5.	IF5101	Programming Paradigms	PC	3	3	0	0	3
6.	IF5191	Advanced Databases	PC	3	3	0	0	3
PRACTICALS								
7.	CP5161	Data Structures Laboratory	PC	4	0	0	4	2
8.	IF5161	Databases Laboratory	PC	4	0	0	4	2
TOTAL				28	20	0	8	24

SEMESTER - II

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	IF5251	Software Industrialization	PC	3	3	0	0	3
2.	IF5201	Network Engineering	PC	3	3	0	0	3
3.	CP5292	Internet of Things	PC	3	3	0	0	3
4.	CP5293	Big Data Analytics	PC	3	3	0	0	3
5.		Professional Elective - I	PE	3	3	0	0	3
6.		Professional Elective - II	PE	3	3	0	0	3
PRACTICALS								
7.	CP5281	Term Paper Writing and Seminar	EEC	2	0	0	2	1
8.	CP5261	Data Analytics Laboratory	PC	4	0	0	4	2
TOTAL				24	18	0	6	21

SEMESTER- III

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.		Professional Elective - III	PE	3	3	0	0	3
2.		Professional Elective – IV	PE	3	3	0	0	3
3.		Professional Elective - V	PE	3	3	0	0	3
PRACTICALS								
4.	IF5311	Project Work Phase I	EEC	12	0	0	12	6
TOTAL				21	9	0	12	15

SEMESTER- IV

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
PRACTICALS								
1.	IF5411	Project Work Phase II	EEC	24	0	0	24	12
TOTAL				0	0	24	12	

TOTAL NO. OF CREDITS: 72

FOUNDATION COURSES (FC)

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	MA5160	Applied Probability and Statistics	FC	4	4	0	0	4

PROFESSIONAL CORE (PC)

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CP5151	Advanced Data Structures and Algorithms	PC	4	4	0	0	4
2.	CP5152	Advanced Computer Architecture	PC	3	3	0	0	3
3.	CP5153	Operating Systems Internals	PC	3	3	0	0	3
4.	IF5101	Programming Paradigms	PC	3	3	0	0	3
5.	IF5191	Advanced Databases	PC	3	3	0	0	3
6.	CP5161	Data Structures Laboratory	PC	4	0	0	4	2
7.	IF5161	Databases Laboratory	PC	4	0	0	4	2
8.	IF5251	Software Industrialization	PC	3	3	0	0	3
9.	IF5201	Network Engineering	PC	3	3	0	0	3
10.	CP5292	Internet of Things	PC	3	3	0	0	3
11.	CP5293	Big Data Analytics	PC	3	3	0	0	3
12.	CP5261	Data Analytics Laboratory	PC	4	0	0	4	2

EMPLOYABILITY ENHANCEMENT COURSE (EEC)

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CP5281	Term Paper Writing and Seminar	EEC	2	0	0	2	1
2.	IF5311	Project Work Phase – I	EEC	12	0	0	12	6
3.	IF5411	Project Work Phase – II	EEC	24	0	0	24	12

PROFESSIONAL ELECTIVES (PE)*
SEMESTER II
ELECTIVE I

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CP5092	Cloud Computing Technologies	PE	3	3	0	0	3
2.	CP5191	Machine Learning Techniques	PE	3	3	0	0	3
3.	IF5091	Energy Aware Computing	PE	3	3	0	0	3
4.	IF5001	Bio - Inspired Computing	PE	3	3	0	0	3

SEMESTER II
ELECTIVE II

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	MU5252	Digital Image Processing and Pattern Recognition	PE	3	3	0	0	3
2.	CP5095	Computer Vision	PE	3	3	0	0	3
3.	MP5091	Human Computer Interaction	PE	3	3	0	0	3
4.	CP5094	Information Retrieval Techniques	PE	3	3	0	0	3

SEMESTER III
ELECTIVE III

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CP5074	Social Network Analysis	PE	3	3	0	0	3
2.	CP5097	Mobile Application Development	PE	3	3	0	0	3
3.	IF5092	Video Analytics	PE	3	3	0	0	3
4.	IF5002	Deep Learning	PE	3	3	0	0	3

**SEMESTER III
ELECTIVE IV**

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	IF5003	Automata Theory and Formal Languages	PE	3	3	0	0	3
2.	IF5071	GPU Architecture and Programming	PE	3	3	0	0	3
3.	IF5004	Cyber Forensics	PE	3	3	0	0	3
4.	IF5005	Trust Networks	PE	3	3	0	0	3

**SEMESTER III
ELECTIVE V**

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CU5097	Wireless Adhoc and Sensor Networks	PE	3	3	0	0	3
2.	IF5072	Cryptography and Network Security	PE	3	3	0	0	3
3.	IF5006	Design Thinking	PE	3	3	0	0	3
4.	IF5007	Forecasting and Optimization	PE	3	3	0	0	3