ANNA UNIVERSITY, CHENNAI AFFILIATED INSTITUTIONS R-2013

B.TECH INFORMATION TECHNOLOGY I - VIII SEMESTERS CURRICULUM AND SYLLABUS

SEMESTER I

SL. No.	COURSE CODE	COURSE TITLE	L	Т	Р	С			
THEO	THEORY								
1.	HS6151	<u>Technical English – I</u>	3	1	0	4			
2.	MA6151	Mathematics – I	3	1	0	4			
3.	PH6151	Engineering Physics – I	3	0	0	3			
4.	CY6151	Engineering Chemistry – I	3	0	0	3			
5.	GE6151	Computer Programming	3	0	0	3			
6.	GE6152	Engineering Graphics	2	0	3	4			
PRAC	TICALS								
7.	GE6161	Computer Practices Laboratory	0	0	3	2			
8.	GE6162	Engineering Practices Laboratory	0	0	3	2			
9.	GE6163	Physics and Chemistry Laboratory - I	0	0	2	1			
	•	TOTAL	17	2	11	26			

SEMESTER II

SL. No.	COURSE CODE	COURSE TITLE	L	Т	Р	С		
THEO	THEORY							
1.	HS6251	Technical English – II	3	1	0	4		
2.	MA6251	Mathematics – II	3	1	0	4		
3.	PH6251	Engineering Physics – II	3	0	0	3		
4.	CY6251	Engineering Chemistry – II	3	0	0	3		
5.	CS6201	Digital Principles and System Design	3	0	0	3		
	CS6202	Programming and Data Structures I	3	0	0	3		
PRAC	TICALS							
7.	GE6262	Physics and Chemistry Laboratory - II	0	0	2	1		
8.	IT6211	<u>Digital Laboratory</u>	0	0	3	2		
9.	IT6212	Programming and Data Structures Laboratory I	0	0	3	2		
		TOTAL	18	2	8	25		

SEMESTER III

SL. No.	COURSE CODE	COURSE TITLE	L	Т	Р	С
THEOF						
1.	MA6351	Transforms and Partial Differential Equations	3	1	0	4
2.	CS6301	Programming and Data Structures II	3	0	0	3
3.	CS6302	Database Management Systems	3	0	0	3
4.	CS6303	Computer Architecture	3	0	0	3
5.	CS6304	Analog and Digital Communication	3	0	0	3
6.	GE6351	Environmental Science and Engineering	3	0	0	3
PRAC	ΓICAL					
7.	IT6311	Programming and Data Structures Laboratory II	0	0	3	2
8.	IT6312	Database Management Systems Laboratory	0	0	3	2
9.	IT6313	Digital Communication Laboratory	0	0	3	2
		TOTAL	18	1	9	25

SEMESTER IV

SL. No.	COURSE CODE	COURSE TITLE	L	Т	Р	С			
THEOF	THEORY								
1.	MA6453	Probability and Queuing Theory	3	1	0	4			
2.	EC6504	Microprocessor and Microcontroller	3	0	0	3			
3.	CS6402	Design and Analysis of Algorithms	3	0	0	3			
4.	CS6401	Operating Systems	3	0	0	3			
5.	CS6403	Software Engineering	3	0	0	3			
PRAC	ΓΙCAL								
6.	IT6411	Microprocessor and Microcontroller Laboratory	0	0	3	2			
7.	IT6412	Operating Systems Laboratory	0	0	3	2			
8.	IT6413	Software Engineering Laboratory	0	0	3	2			
		TOTAL	15	1	9	22			

SEMESTER V

SL. No.	COURSE CODE	COURSE TITLE	L	Т	Р	С			
THEOF	THEORY								
1.	CS6551	Computer Networks	3	0	0	3			
2.	IT6501	Graphics and Multimedia	3	0	0	3			
3.	CS6502	Object Oriented Analysis and Design	3	0	0	3			
4.	IT6502	Digital Signal Processing	3	1	0	4			
5.	IT6503	Web Programming	3	1	0	4			
6.	EC6801	Wireless Communication	3	0	0	3			
PRACT	ΓΙCAL								
7.	IT6511	Networks Laboratory	0	0	3	2			
8.	IT6512	Web Programming Laboratory	0	0	3	2			
9.	IT6513	Case Tools Laboratory	0	0	3	2			
		TOTAL	18	2	9	26			

SEMESTER VI

SL. No.	COURSE	COURSE TITLE	L	Т	Р	С
THEOF	ŔΥ				l .	
1.	CS6601	<u>Distributed Systems</u>	3	0	0	3
2.	IT6601	Mobile Computing	3	0	0	3
3.	CS6659	Artificial Intelligence	3	0	0	3
4.	CS6660	Compiler Design	3	0	0	3
5.	IT6602	Software Architectures	3	0	0	3
6.		Elective I	3	0	0	3
PRACT	ΓICAL					
7.	IT6611	Mobile Application Development Laboratory	0	0	3	2
8.	IT6612	Compiler Laboratory	0	0	3	2
9.	GE6674	Communication and Soft Skills - Laboratory Based	0	0	4	2
		TOTAL	18	0	10	24

SEMESTER VII

SL. No.	COURSE CODE	COURSE TITLE	L	Т	Р	С				
THEOF	THEORY									
1.	IT6701	Information Management	3	0	0	3				
2.	CS6701	Cryptography and Network Security	3	0	0	3				
3.	IT6702	Data Ware Housing and Data Mining	3	0	0	3				
4.	CS6703	Grid and Cloud Computing	3	0	0	3				
5.		Elective II	3	0	0	3				
PRAC1	TICAL									
6.	IT6711	Data Mining Laboratory	0	0	3	2				
7.	IT6712	Security Laboratory	0	0	3	2				
8.	IT6713	Grid and Cloud Computing Laboratory	0	0	3	2				
	•	TOTAL	15	0	9	21				

SEMESTER VIII

SL. No.	COURSE CODE	COURSE TITLE	Г	Т	Р	С			
THEOF	THEORY								
1.	IT6801	Service Oriented Architecture	3	0	0	3			
2.		Elective III	3	0	0	3			
3.		Elective IV	3	0	0	3			
		Elective V	3	0	0	3			
PRACTICAL									
4.	IT6811	Project Work	0	0	12	6			
		TOTAL	12	0	12	18			

TOTAL NO. OF CREDITS: 187

LIST OF ELECTIVES

SEMESTER VI – ELECTIVE I

S.NO.	COURSE CODE	COURSE TITLE	L	Т	Р	С
1.	IT6001	Advanced Database Technology	3	0	0	3
2.	IT6002	Information Theory and Coding Techniques	3	0	0	3
3.	CS6001	C# and .Net Programming	3	0	0	3
4.	GE6757	Total Quality Management	3	0	0	3
5.	CS6012	Soft Computing	3	0	0	3
6.	GE6084	Human Rights	3	0	0	3

SEMESTER VII – ELECTIVE II

S.NO.	CODE NO.	COURSE TITLE	L	Т	Р	С
1.	IT6003	Multimedia Compression Techniques	3	0	0	3
2.	IT6004	Software Testing	3	0	0	3
3.	IT6005	Digital Image Processing	3	0	0	3
4.	CS6003	Ad hoc and Sensor Networks	3	0	0	3
5.	IT6006	Data Analytics	3	0	0	3

SEMESTER VIII - ELECTIVE III

S.NO.	CODE NO.	COURSE TITLE	L	Т	Р	С
1.	IT6007	Free and Open Source Software	3	0	0	3
2.	IT6008	Network Programming and Management	3	0	0	3
3.	GE6075	Professional Ethics in Engineering	3	0	0	3
4.	CS6503	Theory of Computation	3	0	0	3
5.	IT6009	Web Engineering	3	0	0	3
6.	GE6083	Disaster Management	3	0	0	3

SEMESTER VIII – ELECTIVE IV

S.NO.	CODE	COURSE TITLE	L	Т	Р	С
	NO.					
1.	BM6005	Bio Informatics	3	0	0	3
2.	CS6004	Cyber Forensics	3	0	0	3
3.	CS6702	Graph Theory and Applications	3	0	0	3
4.	CS6010	Social Network Analysis	3	0	0	3
5.	IT6010	Business Intelligence	3	0	0	3
6.	CS6013	Foundation Skills in Integrated Product Development	3	0	0	3

SEMESTER VIII - ELECTIVE V

S.NO.	CODE NO.	COURSE TITLE	L	T	Р	С
1.	IT6011	Knowledge Management	3	0	0	3
2.	IT6012	TCP/ IP Design and Implementation	3	0	0	3
3.	CS6008	Human Computer Interaction	3	0	0	3
4.	IT6013	Software Quality Assurance	3	0	0	3
5.	MG6088	Software Project Management	3	0	0	3