

PSN COLLEGE OF ENGINEERING & TECHNOLOGY (Autonomous)
Melathediyoor



DEPARTMENT OF COMPUTER APPLICATIONS [MCA]

CURRICULUM 2012 – FULL TIME (6 SEMESTERS)

First Semester:

Sl.No	Subject Code	Subject Name	L	T	P	C
Theory						
1	060001	Mathematical Foundation of Computer Science	4	0	0	4
2	060002	Problem Solving and Programming in C	4	0	0	4
3	060003	Operating systems	4	0	0	4
4	060004	Computer Organization	4	0	0	4
5	060005	Accounting and Financial Management	4	0	0	4
Practical						
6	060101	Programming Lab	0	0	3	2
7	060102	Operating Systems Lab	0	0	3	2
8	060103	Accounting and Tally Lab	0	0	3	2
TOTAL			20	0	9	26

Second Semester:

Sl.No	Subject Code	Subject Name	L	T	P	C
Theory						
1	060006	Object Oriented Programming with C++	4	0	0	4
2	060007	Data Structures	4	0	0	4
3	060008	Advanced Microprocessors	4	0	0	4
4	060009	System software	4	0	0	4
5	060010	Computational Statistics and Operation Research	4	0	0	4
Practical						
6	060104	Object Oriented Programming Lab	0	0	3	2
7	060105	System software lab	0	0	3	2
8	060106	Data Structures Lab	0	0	3	2
TOTAL			20	0	9	26

Third Semester:

Sl.No	Subject Code	Subject Name	L	T	P	C
Theory						
1	060011	Database Management System	4	0	0	4
2	060012	Design and Analysis of Algorithms	4	0	0	4
3	060013	Software Engineering and Quality Assurance	4	0	0	4
4	060014	Visual Programming	4	0	0	4
5	060015	Java Programming I	4	0	0	4
Practical						
6	060107	Database Management System Lab	0	0	3	2
7	060108	Visual Programming Lab	0	0	3	2
8	060109	Java Programming I Lab	0	0	3	2
TOTAL			20	0	9	26

Fourth Semester:

Sl.No	Subject Code	Subject Name	L	T	P	C
Theory						
1	060016	Web Technology	4	0	0	4
2	060017	Data Communication and Networking	4	0	0	4
3	060018	Multimedia	4	0	0	4
4	060019	Java Programming II	4	0	0	4
5	*E1*	Elective – I	3	0	0	3
Practical						
6	060110	Web Technology Lab	0	0	3	2
7	060111	Multimedia Lab	0	0	3	2
8	060112	Java Programming II Lab	0	0	3	2
TOTAL			19	0	9	25

Fifth Semester:

Sl.No	Subject Code	Subject Name	L	T	P	C
Theory						
1	060020	Object Oriented Analysis and Design	4	0	0	4
2	060021	.Net Programming	4	0	0	4
3	*E2*	Elective –II	3	0	0	3
4	*E3*	Elective – III	3	0	0	3
5	*E4*	Elective – IV	3	0	0	3
Practical						
6	060113	OOAD Lab	0	0	3	2
7	060114	.Net Lab	0	0	3	2
8	060301	Mini Project	0	0	6	4
TOTAL			17	0	12	25

Sixth Semester:

Sl.No	Subject Code	Subject Name	L	T	P	C
1	060302	Major Project	0	0	24	12
TOTAL			0	0	24	12

List of Electives:

Sl.No	Subject Code	Subject Name	L	T	P	C
IV - Semester						
1	060201	Cloud Computing	3	0	0	3
2	060202	Cryptography and Network Security	3	0	0	3
3	060203	Data Mining and Warehousing	3	0	0	3
4	060204	Soft Computing	3	0	0	3
5	060205	Ecommerce	3	0	0	3
V – Semester						
6	060206	Distributed Systems	3	0	0	3
7	060207	Mobile Computing	3	0	0	3
8	060208	Health Care Systems	3	0	0	3
12	060209	Supply Chain Management	3	0	0	3
10	060210	Software Quality Assurance and Testing	3	0	0	3
11	060211	Compiler Design	3	0	0	3
12	060212	TCP/IP Protocol Suit	3	0	0	3
13	060213	Agent Based Intelligent Systems	3	0	0	3
14	060214	Natural Language Processing	3	0	0	3
15	060215	Knowledge Management	3	0	0	3
16	060216	Artificial Intelligence and Expert System	3	0	0	3
17	060217	Embedded Systems	3	0	0	3
18	060218	Digital Image Processing	3	0	0	3
19	060219	Advanced Databases	3	0	0	3
20	060220	Database Tuning	3	0	0	3