

PSN COLLEGE OF ENGINEERING & TECHNOLOGY (Autonomous)
Melathediyoor



DEPARTMENT OF COMPUTER APPLICATIONS [MCA]

CURRICULUM 2014 – FULL TIME (6 SEMESTERS)

First Semester:

Sl.No	Subject Code	Subject Name	L	T	P	C
Theory						
1	160001	Mathematical Foundation of Computer Science	4	0	0	4
2	160002	Problem Solving and Programming in C	3	0	0	3
3	160003	Operating systems	4	0	0	4
4	160004	Computer Organization	4	0	0	4
5	160005	Data Structures	4	0	0	4
Practical						
6	160101	Programming Lab	0	0	3	2
7	160102	Operating Systems Lab	0	0	3	2
8	160103	Data Structures Lab	0	0	3	2
TOTAL			19	0	9	25

Second Semester:

Sl.No	Subject Code	Subject Name	L	T	P	C
Theory						
1	160006	Object Oriented Programming with C++	3	0	0	3
2	160007	Accounting and Financial Management	4	0	0	4
3	160008	Database Management Systems	4	0	0	4
4	160009	System software	4	0	0	4
5	160010	Computational Statistics and Operation Research	4	0	0	4
Practical						
6	160104	Object Oriented Programming Lab	0	0	3	2
7	160105	DBMS lab	0	0	3	2
8	160106	Accounting and Tally Lab	0	0	3	2
TOTAL			19	0	9	25

Third Semester:

Sl.No	Subject Code	Subject Name	L	T	P	C
Theory						
1	160011	Advance Database	4	0	0	4
2	160012	Data Communication and Networking	4	0	0	4
3	160013	Software Engineering and Quality Assurance	4	0	0	4
4	160014	Object Oriented Analysis and Design	4	0	0	4
5	160015	Java Programming I	4	0	0	4
Practical						
6	160107	Advance Database Lab	0	0	3	2
7	160108	OOAD Lab	0	0	3	2
8	160109	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	160016	Web Technology	4	0	0	4
2	160017	Mobile Computing	4	0	0	4
3	160018	Multimedia and Digital Image Processing	4	0	0	4
4	160019	Java Programming II	4	0	0	4
5	160020	Data Warehousing and Data Mining	4	0	0	4
Practical						
6	160110	Web Technology Lab	0	0	3	2
7	160111	Digital Image Processing Lab	0	0	3	2
8	160112	Java Programming II Lab	0	0	3	2
TOTAL			20	0	9	26

Fifth Semester:

Sl.No	Subject Code	Subject Name	L	T	P	C
Theory						
1		Cloud computing	3	0	0	3
2		.Net Programming	4	0	0	4

3		Big Data Analytics	4	0	0	4
4	*E1*	Elective – I	3	0	0	4
5	*E2*	Elective – II	3	0	0	3
Practical						
6		.Net Lab	0	0	3	2
7		Big Data Analytic Lab	0	0	3	2
8		Mini Project(Case Study, Presentation Skills ,Seminars and Technical Writing)	0	0	6	4
TOTAL			17	0	12	26

Sixth Semester:

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

List of Electives:

Sl.No	Subject Code	Subject Name	L	T	P	C
V - Semester - Elective I						
1		Bio Informatics	4	0	0	4
2		Geo Informatics	4	0	0	4
3		Cryptography and Network Security	4	0	0	4
4		Soft Computing	4	0	0	4
5		Ecommerce	4	0	0	4
6		E-Goverence	4	0	0	4
7		Distributed Computing	4	0	0	4
8		Health Care Systems	4	0	0	4
9		Supply Chain Management	4	0	0	4
10		Software Testing	4	0	0	4
11		Design and Analysis of Algorithms	4	0	0	4
V – Semester –Elective II						
12		Compiler Design	3	0	0	3
13		TCP/IP Protocol Suit	3	0	0	3
14		Agent Based Intelligent Systems	3	0	0	3
15		Natural Language Processing	3	0	0	3
16		Security in Computing	3	0	0	3
17		Artificial Intelligence and Expert System	3	0	0	3
18		Embedded Systems	3	0	0	3
19		Advanced Wireless Networks	3	0	0	3
20		Database Tuning	3	0	0	3
21		Enterprise Resource Planning	3	0	0	3