



PSN College of Engineering and Technology

(An Autonomous Institution)

Melathediyoor, Tirunelveli – 627 152

Department of Information Technology

UG - Curriculum – 3rd to 8th Semester

Regulation – 2012- (B.Tech. – IT)

(Applicable to the students admitted to first year B.Tech. from the academic year 2012-2013 onwards)

III – Semester

Sl. No	Subject Code	Subject Name	L	T	P	C
Theory						
1	001001	Transformation Techniques	3	1	0	3
2	007001	Digital Principles and System Design	3	1	0	3
3	007002	Object Oriented Programming in C++	3	0	0	3
4	007003	Data Structures	3	0	0	3
5	007004	Principles of Communication	3	1	0	3
6	007005	Computer Architecture	3	0	0	3
Practical						
7	007101	Communication Systems Laboratory	0	0	3	2
8	007102	Data Structures and Object Oriented Programming in C++ Laboratory	0	0	3	2
9	007103	Digital Laboratory	0	0	3	2
Total			18	3	9	24

IV – Semester

Sl. No	Subject Code	Subject Name	L	T	P	C
1	007006	Discrete Mathematics	3	1	0	3
2	007007	Microprocessors and Microcontrollers	3	1	0	3
3	007008	Software Engineering and Project Management	3	0	0	3
4	007009	Computer Networks and Programming	3	0	0	3
5	007010	Digital Signal Processing	3	1	0	3
6	007011	Java Programming	3	0	0	3
Practical						
7	007104	Microprocessors and Microcontrollers Laboratory	0	0	3	2
8	007105	Java Programming Laboratory	0	0	3	2
9	007106	Computer Networks Laboratory	0	0	3	2
Total			18	3	9	24

V – Semester

Sl. No	Subject Code	Subject Name	L	T	P	C
Theory						
1	007012	Probability & Random Process	4	0	0	4
2	007013	Operating System	3	1	0	3
3	007014	Database Management System	3	0	0	3
4	007015	Computer hardware and Troubleshooting	3	1	0	3
5	007016	Principles of Management	3	0	0	3
6	007017	Cryptography & Network Security	3	0	0	3
Practical						
7	007107	Hardware and Troubleshooting Laboratory	0	0	3	2
8	007108	Operating System Laboratory	0	0	3	2
9	007109	Database Management System Laboratory	0	0	3	2
Total			19	2	9	25

VI – Semester

Sl. No	Subject Code	Subject Name	L	T	P	C
Theory						
1	003018	Numerical Methods	3	0	0	3
2	007018	System Administration	3	1	0	3
3	003020	Object Oriented Analysis and Design	3	1	0	3
4	007019	Embedded System	3	1	0	3
5	003019	Compiler Design	3	0	0	3
6	#	Discipline Elective - I	3	0	0	3
Practical						
7	007110	Object Oriented Analysis and Design Lab	0	0	3	2
8	007111	System Administration Laboratory	0	0	3	2
9	007112	Mini Project in System Design	0	0	3	2
Total			18	3	9	24

VII – Semester

Sl. No	Subject Code	Subject Name	L	T	P	C
Theory						
1	007020	Information Theory and Coding	3	0	0	3
2	007021	Internet Programming and Web Design	3	1	0	3
3	007022	C# & .NET Framework	3	1	0	3
4	007023	Graphics and Multimedia	3	0	0	3
5	#	Interdisciplinary Elective – I	3	0	0	3
6	#	Discipline Elective - II	3	0	0	3
Practical						
7	007113	Internet Programming Laboratory	0	0	3	2
8	007114	Graphics and Multimedia Laboratory	0	0	3	2
9	007115	C# & .NET Laboratory	0	0	3	2
Total			18	2	9	24

VIII – Semester

Sl. No	Subject Code	Subject Name	L	T	P	C
Theory						
1	#	Discipline Elective - III	3	0	0	3
2	#	Discipline Elective – IV	3	0	0	3
3	#	Discipline Elective - V	3	0	0	3
Practical						
4	007301	Project Work	0	0	24	10
Total			9	0	9	19

Total Credits: 24 + 24 + 25 + 24 + 24 + 19 = 140 credits

List of Electives

Semester – VI – (Discipline Elective - I)

Sl. No	Subject Code	Subject Name	L	T	P	C
1	007201	Distributed System	3	0	0	3
2	007202	Advanced Java Programming	3	0	0	3
3	007203	Telecommunication System	3	0	0	3
4	007204	User Interface Design	3	0	0	3
5	007205	Bioinformatics	3	0	0	3
6	003210	Theory of Computation	3	0	0	3
7	007206	Artificial Intelligence	3	0	0	3

Semester – VII – (Interdisciplinary Elective - I)

Sl. No	Subject Code	Subject Name	L	T	P	C
1	007207	Avionics	3	0	0	3
2	007208	VLSI Design	3	0	0	3
3	007209	Fundamentals of Nano Science	3	0	0	3
4	007210	Robotics	3	0	0	3
5	007211	Mechatronics	3	0	0	3
6	003222	Total Quality Management	3	0	0	3
7	007212	Intellectual Property Rights	3	0	0	3

Semester – VII – (Discipline Elective - II)

Sl. No	Subject Code	Subject Name	L	T	P	C
1	007213	Parallel Computer Architecture	3	0	0	3
2	007214	Service Oriented Architecture	3	0	0	3
3	007215	System Software	3	0	0	3
4	007216	Software Quality Assurance	3	0	0	3
5	007217	Electronic Commerce	3	0	0	3

6	007218	Cloud Computing	3	0	0	3
7	007219	Information Security	3	0	0	3

Semester – VIII – (Discipline Elective III)

Sl. No	Subject Code	Subject Name	L	T	P	C
1	007220	Digital Image Processing	3	0	0	3
2	003233	Natural Language Processing	3	0	0	3
3	007222	Software Metrics	3	0	0	3
4	007227	Real Time System	3	0	0	3
5	007228	Software Testing	3	0	0	3
6	007233	System Analysis and Design	3	0	0	3

Semester – VIII (Discipline Elective IV)

Sl. No	Subject Code	Subject Name	L	T	P	C
1	007221	Adhoc & Sensor Network	3	0	0	3
2	007222	Satellite Communication	3	0	0	3
3	007226	Knowledge Engineering	3	0	0	3
4	007230	Data Mining and Warehousing	3	0	0	3
5	007234	High Speed Networks	3	0	0	3
6	007237	Wireless Technology	3	0	0	3

Semester – VIII (Discipline Elective V)

Sl. No	Subject Code	Subject Name	L	T	P	C
1	007225	Grid Computing	3	0	0	3
2	007235	Middleware Network Programming	3	0	0	3
3	007229	Management Information Systems	3	0	0	3
4	003238	Soft Computing	3	0	0	3
5	007231	Mobile Computing	3	0	0	3
6	007232	Semantic Web	3	0	0	3