



PSN College of Engineering and Technology

(An Autonomous Institution)

Melathediyoor, Tirunelveli – 627 152

Department of Information Technology

UG - Curriculum – 3rd to 8th Semester

Regulation – 2013- (B.Tech. – IT)

(Applicable to the students admitted to first year B.Tech. from the academic year 2013-2014 onwards)

III – Semester

Sl. No	Subject Code	Subject Name	L	T	P	C
Theory						
1	101001	Transformation Techniques	3	1	0	3
2	107001	Digital Principles and System Design	3	1	0	3
3	107002	Object Oriented Programming in C++	3	0	0	3
4	107003	Data Structures	3	0	0	3
5	107004	Principles of Communication	3	1	0	3
6	107005	Computer Architecture	3	0	0	3
Practical						
7	107101	Communication Systems Laboratory	0	0	3	2
8	107102	Data Structures and Object Oriented Programming in C++ Laboratory	0	0	3	2
9	107103	Digital Laboratory	0	0	3	2
Total			18	3	9	24

IV – Semester

Sl. No	Subject Code	Subject Name	L	T	P	C
1	107006	Discrete Mathematics	3	1	0	3
2	107007	Microprocessors and Microcontrollers	3	1	0	3
3	107008	Software Engineering and Project Management	3	0	0	3
4	107009	Computer Networks and Programming	3	0	0	3
5	107010	Digital Signal Processing	3	1	0	3
6	107011	Java Programming	3	0	0	3
Practical						
7	107104	Microprocessors and Microcontrollers Laboratory	0	0	3	2
8	107105	Java Programming Laboratory	0	0	3	2
9	107106	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	107012	Probability & Random Process	4	0	0	4
2	1107013	Operating System	3	1	0	3
3	107014	Database Management System	3	0	0	3
4	107015	Computer hardware and Troubleshooting	3	1	0	3
5	107016	Principles of Management	3	0	0	3
6	107017	Cryptography & Network Security	3	0	0	3
Practical						
7	107107	Hardware and Troubleshooting Laboratory	0	0	3	2
8	107108	Operating System Laboratory	0	0	3	2
9	107109	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	103018	Numerical Methods	3	0	0	3
2	107018	System Administration	3	1	0	3
3	103020	Object Oriented Analysis and Design	3	0	0	3
4	107019	Embedded System	3	1	0	3
5	103019	Compiler Design	3	0	0	3
6	#	Discipline Elective - I	3	0	0	3
Practical						
7	107110	Object Oriented Analysis and Design Lab	0	0	3	2
8	107111	System Administration Laboratory	0	0	3	2
9	107112	Mini Project in System Design	0	0	3	2
Total			18	2	9	24

VII – Semester

Sl. No	Subject Code	Subject Name	L	T	P	C
Theory						
1		Information Theory and Coding	3	0	0	3
2		Internet Programming and Web Design	3	1	0	3
3		C# & .NET Framework	3	1	0	3
4		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		Internet Programming Laboratory	0	0	3	2
8		Graphics and Multimedia Laboratory	0	0	3	2
9		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		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	107201	Distributed System	3	0	0	3
2	107202	Advanced Java Programming	3	0	0	3
3	107203	Telecommunication System	3	0	0	3
4	107204	User Interface Design	3	0	0	3
5	107205	Bioinformatics	3	0	0	3
6	103210	Theory of Computation	3	0	0	3
7	107206	Artificial Intelligence	3	0	0	3

Semester – VII – (Interdisciplinary Elective - I)

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

Semester – VII – (Discipline Elective - II)

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

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

Semester – VIII – (Discipline Elective III)

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

Semester – VIII (Discipline Elective IV)

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

Semester – VIII (Discipline Elective V)

Sl. No	Subject Code	Subject Name	L	T	P	C
1		Grid Computing	3	0	0	3
2		Middleware Technology	3	0	0	3
3		Management Information Systems	3	0	0	3
4		Soft Computing	3	0	0	3
5		Mobile Computing	3	0	0	3
6		Semantic Web	3	0	0	3