



PSN College of Engineering and Technology

(An Autonomous Institution Affiliated to Anna University, Chennai)

Melathediyoor, Tirunelveli - 627 152

Department of Computer Science and Engineering

UG - Curriculum & Syllabus

B.E. (CSE)

**CURRICULUM (SEMESTER III TO SEMESTER VIII)
SYLLABUS (SEMESTER III & IV)**

(R-2018)

(Applicable to the students admitted to first year B.E. from the
Academic year 2018-2019 onwards)



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Department of Computer Science and Engineering

BE (CSE) Curriculum (3rd To 8th Semester)

III – SEMESTER

Sl. No.	Subject Code	Subject Name	L	T	P	C
Theory						
1	501014	Engineering Mathematics - II	3	1	0	4
2	503001	Computer Architecture	3	0	0	3
3	503002	Database Management Systems	3	0	0	3
4	503003	OOPs and Data Structures	3	0	0	3
5	503004	Operating Systems	3	0	0	3
6	503005	Digital Electronics and Microprocessor	3	0	0	3
7	501109	Career Skill Development Training – I	0	0	2	1
Practical						
8	503101	Database Management Systems Lab	0	0	3	2
9	503102	OOPs and Data Structures Lab	0	0	3	2
10	503103	Digital and Microprocessor Lab	0	0	3	2
Total			18	1	11	26
Mandatory Course						
501801- Environmental Studies			2	0	0	2

IV – SEMESTER

Sl. No.	Subject Code	Subject Name	L	T	P	C
1		Engineering Mathematics - III	3	1	0	4
2		Computer Networks	3	0	0	3
3		Design and Analysis of Algorithms (Practical Component Paper)	3	0	2	4
4		JAVA Programming	3	0	0	3
5		Software Engineering	3	0	0	3
6		Microcontroller and Embedded Systems	3	0	0	3
7		Career Skill Development Training – II	0	0	2	1

Practical						
8		Computer Networks Lab	0	0	3	2
9		JAVA Lab	0	0	3	2
10		Microcontroller and Embedded Systems Lab	0	0	3	2
Total			18	1	13	27
Mandatory Course						
Industrial Visit						

V – SEMESTER

Sl. No.	Subject Code	Subject Name	L	T	P	C
Theory						
1		Numerical Methods	3	0	0	3
2		Compiler Design (Practical Component)	3	0	2	4
3		Internet Programming	3	0	0	3
4		Object Oriented Analysis and Design	3	0	0	3
5		Digital Signal Processing	3	1	0	4
6		Open Elective – I	3	0	0	3
7		Career Skill Development Training – III	0	0	2	1
Practical						
8		Internet Programming Lab	0	0	3	2
9		Object Oriented Analysis and Design Lab	0	0	3	2
Total			18	1	10	25
Mandatory Course						
Value Education and Human Rights			2	0	0	2
In-plant Training						

VI – SEMESTER

Sl. No.	Subject Code	Subject Name	L	T	P	C
Theory						
1		Discrete Mathematics	3	0	0	3
2		Computer Graphics and Multimedia	3	0	0	3
3		Data Warehousing and Data Mining	3	0	0	3
4		Elective - I	3	0	0	3

5		Elective - II	3	0	0	3
6		Open Elective – II	3	0	0	3
7		Career Skill Development Training – IV	0	0	2	1
Practical						
8		Computer Graphics and Multimedia Lab	0	0	3	2
9		Data Warehousing and Data Mining Lab	0	0	3	2
Total			18	0	8	23

VII – SEMESTER

Sl. No	Subject Code	Subject Name	L	T	P	C
Theory						
1		Total Quality Management	3	0	0	3
2		Cloud Computing	3	0	0	3
3		C# and .NET Programming	3	0	0	3
4		Mobile Computing (Practical Component)	3	0	2	4
5		Elective – III	3	0	0	3
6		Elective – IV	3	0	0	3
Practical						
7		C# and .NET Programming Lab	0	0	3	2
8		Mini Project	0	0	3	2
Total			18	0	8	23
Mandatory Course						
Internship Training			2	0	0	2

VIII – SEMESTER

Sl. No	Subject Code	Subject Name	L	T	P	C
Theory						
1		Elective - V	3	0	0	3
2		Elective - VI	3	0	0	3

Practical						
3		Project Work	0	0	15	6
Total			6	0	15	12

Total Credits: 136

LIST OF ELECTIVES

Semester – VI (Elective - I)

Sl. No	Subject Code	Subject Name	L	T	P	C
1		Advanced Database Technology	3	0	0	3
2		Bio Informatics	3	0	0	3
3		Cryptography and Information Security	3	0	0	3
4		Object Oriented Software Engineering	2	0	0	2
5		Pervasive Computing	2	0	0	2
6		Supply Chain Management	1	0	0	1
7		Web Applications Development	1	0	0	1

Semester – VI – (Elective - II)

Sl. No	Subject Code	Subject Name	L	T	P	C
1		Big Data	3	0	0	3
2		Soft Computing Techniques	3	0	0	3
3		Wireless Networks	3	0	0	3
4		Graph Theory	2	0	0	2
5		Software Metrics	2	0	0	2
6		Multimedia Techniques	1	0	0	1
7		UNIX Internals	1	0	0	1

Semester – VII (Elective - III)

Sl. No	Subject Code	Subject Name	L	T	P	C
1		Advanced Computer Architecture	3	0	0	3
2		Digital Image Processing	3	0	0	3
3		Software Testing	3	0	0	3

4		Robotics	2	0	0	2
5		User Interface Design	2	0	0	2
6		Software Reliability	1	0	0	1
7		Team Software Process and Personal Software Process	1	0	0	1

Semester – VII (Elective - IV)

Sl. No	Subject Code	Subject Name	L	T	P	C
1		Advanced Operating Systems	3	0	0	3
2		Software Project Management	3	0	0	3
3		Theory of Computation	3	0	0	3
4		Component Based Development	2	0	0	2
5		Real Time Systems	2	0	0	2
6		Professional Ethics	1	0	0	1
7		Semantic Web	1	0	0	1

Semester – VIII (Elective - V)

Sl. No	Subject Code	Subject Name	L	T	P	C
1		High Speed Networks	3	0	0	3
2		Human Computer Interface	3	0	0	3
3		Parallel Computing	3	0	0	3
4		Software Architecture	2	0	0	2
5		Software Design	2	0	0	2
6		Enterprise Resource Planning	1	0	0	1
7		Grid Computing	1	0	0	1

Semester – VIII (Electives - VI)

Sl. No	Subject Code	Subject Name	L	T	P	C
1		Distributed Systems	3	0	0	3
2		Internet of Things	3	0	0	3
3		Software Quality Assurance	3	0	0	3
4		Information Retrieval Techniques	2	0	0	2
5		Network Programming and Management	2	0	0	2

6		E-Commerce	1	0	0	1
7		Network Security	1	0	0	1

Open Electives (OE) (For other Dept.)

Sl. No	Subject Code	Subject Name	L	T	P	C
1		Cloud Computing	3	0	0	3
2		Java Programming	3	0	0	3
3		Operating Systems	3	0	0	3