

**NIT Puducherry, Karaikal**  
**Department of Computer Science and Engineering**  
**M.Tech. CSE - Curriculum**

**SEMESTER-I**

<b>CODE</b>	<b>COURSE TITLE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
CSC601	Advanced Concepts in Operating Systems	3	0	2	4
CSC603	Advanced Network Principles and Protocols	3	0	0	3
CSC605	Advanced Data Structures and Algorithms	3	1	0	4
CSC607	Seminar and Technical Writing-I	0	0	3	2
CSE6XX	Elective-I	3	0	0	3
CSE6XX	Elective-II	3	0	0	3
CSP601	Network Programming Laboratory	0	0	3	2
CSP603	Advanced Programming Laboratory	0	0	3	2
<b>Total Credits</b>					<b>23</b>

**SEMESTER-II**

<b>CODE</b>	<b>COURSE TITLE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
CSC602	Mathematical Foundations for Computer Science	3	1	0	4
CSC604	Advanced Data Base Management System (DBMS)	3	1	0	4
CSC606	Seminar and Technical Writing-II	0	0	3	2
CSE6XX	Elective-III	3	0	0	3
CSE6XX	Elective-IV	3	0	0	3
CSE6XX	Elective-V	3	0	0	3
CSP602	Advanced DBMS Lab	0	0	3	2
CSP604	Internship <sup>1</sup>	0	0	3	2
<b>Total Credits</b>					<b>23</b>

<sup>1</sup> Evaluation criteria for Internship is based on the following:

- An internship report will be assessed by internship coordinator
- A minimum period of 8 weeks and maximum period of 12 weeks commencing from 3<sup>rd</sup> week of May
- Result of Internship will be passed and declared in the last week of August

### **SEMESTER-III**

<b>CODE</b>	<b>COURSE TITLE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
CSC609	Comprehensive Viva-Voce	0	0	6	6
CSC611	Project Work Phase-I	0	0	6	12
<b>Total Credits</b>					18

### **SEMESTER-IV**

<b>CODE</b>	<b>COURSE TITLE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
CSC608	Project Work Phase-II	0	0	12	12
<b>Total Credits</b>					12

### **SUMMARY**

<b>SEMESTER</b>	<b>I</b>	<b>II</b>	<b>III</b>	<b>IV</b>	<b>Total</b>
<b>CREDITS</b>	23	23	18	12	76

**TOTAL CREDITS TO BE EARNED: 76**

## **ELECTIVES FOR SEMESTER-I**

<b>CODE</b>	<b>COURSE TITLE</b>	<b>CREDITS</b>
CSE601	Parallel Computer Architecture	3
CSE603	Principles of Cryptography	3
CSE605	Computer Graphics and Image Processing	3
CSE607	Open Source Programming	3
CSE609	Artificial Intelligence and Expert Systems	3
CSE611	Data Warehousing and Data Mining	3
CSE613	Imaging and Multimedia Systems	3
CSE615	Design and Analysis of Parallel Algorithms	3
CSE617	Digital Forensics	3

## **ELECTIVES FOR SEMESTER-II**

<b>CODE</b>	<b>COURSE TITLE</b>	<b>CREDITS</b>
CSE602	Distributed Systems	3
CSE604	Cloud Computing	3
CSE606	Wireless Sensor Networks	3
CSE608	Advanced Digital Design	3
CSE610	Real Time Systems	3
CSE612	Mobile Network Systems	3
CSE614	Network Security	3
CSE616	Mobile Application Development	3
CSE618	Service Oriented Architecture and Web Security	3