



University of Madras – CBCS Regulations

B.Sc Computer Science – Syllabus

SEMESTER-I

COURSE COMPONENTS/TITLE OF THE PAPER	Credits	MAX. MARKS		
		External	Internal	TOTAL
PART I-Language Paper I	3	75	25	100
PART II-English Paper I	3	75	25	100
PART III-Programming in C	4	75	25	100
PART III-Practical – I : Programming in C .	4	60	40	100
Allied – Paper – I-Mathematics – I	5	75	25	100
Part IV- *Basic Tamil/ Adv. Tamil/Non-Major Elective		75	25	100
Soft Skill I		50	50	100

Non-Major Electives for Semester I:-

Any one:-

1. MS- Access
2. Web Application
3. HTML
4. Flash

SEMESTER II

Course Components/ Title of the Course	Credits	Maximum Marks		
		External	Internal	TOTAL
PART I-LANG.PAPER-II	3	75	25	100
PART II-ENGLISH PAPER -II	3	75	25	100
PART III-Digital Electronics and Microprocessor	4	75	25	100
PART III-Practical II - Digital Electronics & Microprocessors Lab	4	60	40	100
Allied – Paper – II-Mathematics - II	5	75	25	100
Part IV-*Basic Tamil/ Adv. Tamil/Non-Major Elective		75	25	100
Soft Skill II		50	50	100

Syllabus for foundation courses are to be followed as prescribed for common U.G. courses

Non-Major Electives for Semester II:-

Any one:-

1. MS Access Lab
2. Web Application Lab
3. HTML Lab

SEMESTER III

Course Component/ Title of the Paper	Credits	MAX.MARKS		
		Ext. Marks	Int. Marks	Total
PART I- LANG. PAPER III	3	75	25	100
PART II-ENGLISH PAPER III	3	75	25	100
PART III- Core Paper – Programming in C++ and Data Structures	4	75	25	100
PART III- Core Paper – VI Practical – III : Data Structures using C++	4	60	40	100
Allied –II- Paper – I	5	75	25	100
PART IV -Soft Skill – III	3	60	40	100
Environmental Studies		Examination will be held in IV Semester		

SEMESTER IV

Course Components/ Title of the Paper	Credits	MAX.MARKS		
		Ext. Marks	Int. Marks	Total
PART I -LANG.PAPER-IV	3	75	25	100
PART II -ENGLISH PAPER -IV	3	75	25	100
PART III - Paper – VII - Programming in JAVA	4	75	25	100
PART III – Paper - VIII - Practical – IV- Java Programming Lab	4	60	40	100
Allied-II- Paper – II	5	75	25	100
PART IV-Soft Skill-IV	3	60	40	100
Environmental Studies	2	75	25	100

SEMESTER V

Course Components/Title of the Paper	Credits	MAX.MARKS		
		Ext. Marks	Int. Marks	Total
Part III- Core Paper - IX -Operating systems	4	75	25	100
Part III-Core Paper - X - Database Management Systems	4	75	25	100
Part III -Core Paper - XI - Computer Architecture and Organization	4	75	25	100
Part III -Core Paper - XII Practical – V : RDBMS LAB	4	60	40	100
Part III -Elective – I	5	75	25	100
PART -IV 4. Value Education	2			

SEMESTER VI

Course Components/Title of the Paper	Credits	MAX. MARKS		
		Ext. Marks	Int. Marks	Total
Part III –Core Paper - XIII - Data Communication and Networking	4	75	25	100
Part III Core Paper - XIV - Web Technology	4	75	25	100
Part III Core Paper -XV - Practical – VI Web Applications LAB	4	60	40	100
Part III-Elective – II	5	75	25	100
Part III-Elective – III	5	75	25	100
PART- V Extension Activities	1			

Elective – I

Visual Programming / RDBMS with ORACLE / Unix Programming

Elective - II

Data Mining / Software Testing / Object Oriented Analysis and Design

Elective - III

Client Server Computing /Computer Graphics/ Software Engineering

One of the following allied shall be chosen for Allied – II

- (a) Physics (b) Statistical Methods and their applications