B. Sc. (Computer Science) Entire

- **TITLE :**

  The degree shall be titled as B.Sc. (Computer Science) Entire.

- **OBJECTIVES :**

  This is a three year bachelor course in computer science aimed at developing computer professionals versatile in use of computers. The emphasis is to have generality of developing professionals as Programmer, System Analyst, Database Administrators, Electronic Data Processing (EDP), Officers, etc.

- **DURATIONS :**

  This is a full time, self supporting course of Three Years duration.

- **NUMBER OF STUDENTS :**

  Intake capacity is of 80 students.

- **ELIGIBILITY :**

  The students passing the Higher Secondary Examination (XII Std.) conducted by the Maharashtra, State Board of Higher Secondary Education in science stream shall be eligible for admission to the B.Sc. (Computer Science Entire) course.

  An examination of any other statutory University or an examining Body recognised as equivalent there to. The final admission is based on the merit & personal interviews.

- **MEDIUM OF INSTRUCTION :**

  The medium of instruction shall be English only.

B. Sc. COMPUTER SCIENCE (Entire)

(SUBJECT : COMPUTER SCIENCE)

w.e.f Academic year 2013-2014 onwards

Semester- I

Paper No.	Name of the Paper	Total Marks		Theory /Week	Practical /Week
		Theory	Internal		
1.1	Fundamental of Computer	50	– –	03	– –
1.2	Introduction to Programming Using C - I	50	– –	03	– –

Semester- II

2.1	Linux Operating System	50	– –	03	– –
2.2	Introduction to Programming Using C - II	50	– –	03	– –

Practical Annual

1.3/2.3	Laboratory Course in Computer Science – I &II	100	--	--	04*

* 04 hours practical per batch of 20 students

MATHEMATICS

Semester I

Sr. No	Paper	Name of Paper	Marks			
			Theory	Internal		
1	Ist	Discrete Mathematics	50	– –	03	--
2	IInd	Algebra	50	– –	03	--

Semester II

1	IIIrd	Graph Theory	50	– –	03	--
2	IVth	Calculus	50	– –	03	--

Practical Annual

Practical I & II	Mathematics Practical I & II	100 Marks	--	04

ELECTRONICS

Semester I

Sr. No.	Paper	Name of the Paper	Total Marks		Theory /Week	Practical /Week
			Theory	Internal		
1	Ist	Electronics Devices and Circuits – I	50	– –	03	--
2	IInd	Digital Electronics- I	50	– –	03	--

Semester II

1	IIIrd	Electronics Devices & Circuits II	50	– –	03	--
2	IVth	Digital Electronics -II	50	– –	03	--

Practical Annual

Practical I & II	Electronics Practical's I & II	100 Marks	--	04

STATISTICS

Semester I

Sr. No	Paper	Name of Paper	Marks		Theory/ Week	Practical /Week
			Theory	Internal		
1.	Ist	Descriptive Statistics I	50	– –	03	--
2.	IInd	Probability and Discrete Probability Distributions	50	– –	03	--

Semester II

1.	IIIrd	Descriptive Statistics II	50	– –	03	--
2.	IVth	Continuous probability distributions & Testing of Hypothesis	50	– –	03	--

Practical Annual

Practical I & II	Statistics Practical's I & II	100 Marks	--	04

B. Sc. COMPUTER SCIENCE (Entire Part - I)

ENGLISH (Semester I & II)

Syllabus to be implemented from June 2018

Structure of the Course

Code	Paper	Name of the Paper	Marks
		English Semester - I	
AECC-A	Paper-I	English for Communication Paper-I	50
		English Semester- II	
AECC-B	Paper-II	English for Communication Paper-II	50

B.Sc. Computer Science Entire Part II

Year of Implementation : Revised Syllabus will be implemented from June 2019

Duration : Part-II shall be of one academic year consisting of two semesters.

Pattern : Semester Pattern.

STRUCTURE OF THE SYLLABUS

Code	Course	Coures Title	Marks
		SEMESTER - III	
DSC-301	Computer Scienct Paper - V	Relational Database Management System	50
DSC-302	Computer Scienct Paper - VI	Object Oriented Programming using C++	50
GEC-303	Electronics Paper - V	Computer Organization	50
GEC-304	Electronics Paper - VI	Computer Instrumentation	50
GEC-305	Mathematics Paper - V	Linear Algebra	50
GEC-306	Mathematics Paper - VI	Numerical methods	50
SEC-I	Skill Enahancement Course - I	Python Programming	--
AECC-C	Environmental Studies	(Environmental Studies) Theory Paper	70
		SEMESTER - IV	
DSC-401	Computer Scienct Paper - VII	Data structure using C++	50
DSC-402	Computer Scienct Paper - VIII	Cyber security essentials	50
GEC-403	Electronics Paper - VII	Microcontroller Architecture and Programming	50
GEC-404	Electronics Paper - VIII	Communication Techniques	50
GEC-405	Mathematics Paper - VII	Computational Geometry	50
GEC-406	Mathematics Paper - VIII	Operation Research	50
SEC-II	Skill Enahancement Course - II	HTML (Web Technology)	--
AECC-D	Environmental Studies	Project	30
LAB-5	Lab Course Based on DSC-301, 401 & 302		100
LAB-6	Lab Course Based on GEC-303, 403 & 304, 404		100
LAB-7	Lab Course Based on GEC-305, 306 & 405, 406		100
LAB-8	Lab Course Based on SEC-I & SEC-II		100

B.Sc. Computer Science Entire Part III

Year of Implementation : Revised Syllabus will be implemented from June 2020

Duration : Part-III shall be of one academic year consisting of two semesters.

Pattern : Semester Pattern.

STRUCTURE OF THE SYLLABUS

Code	Course	Coures Title	Marks	
			University	Internal
SEMESTER - V				
DSE-501	Computer Science Paper-IX	Core Java	40	10
DSE-502	Computer Science Paper-X	C# Programming	40	10
DSE-503	Computer Science Paper-XI	Software Engineering	40	10
Elective Coures I : DSE-504 OR DSE - 505			40	10
DSE-504	Computer Science Paper-XII	Machine Learnng Part-I		
DSE-505	Computer Science Paper-XII	Data Communication		
SEC-III	Skill Enahncement Course-III	PHP Part-I		
AECC-E	English Paper-III	English for communication-III	40	10
SEMESTER - VI				
DSE-601	Computer Science Paper-XIII	Advanced Java	40	10
DSE-602	Computer Science Paper-XIV	ASP.Net	40	10
DSE-603	Computer Science Paper-XV	Software Project Management	40	10
Elective Coures II : DSE-604 OR DSE - 605			40	10
DSE-604	Computer Science Paper-XVI	Machine Learnng Part-II		
DSE-605	Computer Science Paper-XVI	Computer Network		
SEC-IV	Skill Enahncement Course-IV	PHP Part-II		
AECC-F	English Paper-IV	English for communication-IV	40	10
LAB-9	Lab Course Based on DSE-501 & 601		100	--
LAB-10	Lab Course Based on DSE-502 & 602		100	--
LAB-11	Lab Course Based on SEC-III & SEC-IV		--	100
PW	Project Work		100	--

DSC	Discipline Specific Core Course	SEC	Skill Enhancement Course
GEC	Generic Elective Course	AECC	Ability Enhancement Core Course
DSE	Discipline Specific Elective		