

SYLLABUS (With effective from 2019-20)

Semester	Name of the course	Nature of Course	Hours (Th+Tu) /Week	Credits	Internal	End Exam	Total Marks
I	Differential Calculus & Integral Calculus	DSC	Theory =5	5	25	100	125
			Tutorial=1				
II	Differential Equations	DSC	Theory =4	5	25	100	125
			Tutorial=1				
	Bio Statistics	SEC	Theory =2	2	10	40	50
III	Real Analysis	DSC	Theory =4	5	25	100	125
			Tutorial=1				
IV	Algebra	DSC	Theory =4	5	25	100	125
			Tutorial=1				
V	Linear Algebra	DSE	Theory =4	5	25	100	125
VI	Numerical Analysis	DSE	Theory =4	5	25	100	125
			Tutorial=1				

Six hours have been allotted to each course in a week, out of those Five hours for theory and one hour for Tutorial. Five credits are earmarked for each course. Candidate has to get 40% marks in University Exam cum Internal Assessment in order to pass a course.

Students are offered one (1) Discipline Specific Compulsory (DSC) paper in each semester i.e. Six (6) DSC papers related to Mathematics and AECC, SEC, GE and Project papers to gain the extensive and career-based knowledge in three years/ six semester curriculum.

Two Ability Enhancement Compulsory Course (AECC) papers are offered to the students in First year. i.e. one (1) paper in semester I and one (1) paper in semester II.

1] 'Environmental Science' in semester I and 2] 'Basic Computer Skills' taught by faculty of Computer Science in II Semester. These papers have 2 credit weightage and 2 teaching hours per week.

Four Skill Enhancement Course (SEC) papers are offered to the students in second year. i.e. two (2) papers in semester III and two (2) papers in semester IV.

1] 'Fundamentals of Nano Technology' taught by faculty of Physics and 2] 'Bio Statistics' taught by faculty of Statistics/Mathematics in Semester III. These papers have 2 credit weightage and 2 teaching hours per week.

3] 'Fundamentals of Python' taught by Computer Science and 4] 'Remedial Methods of Pollution – Drinking Water & Soil Fertility' taught by faculty of Chemistry in semester IV. These papers have 2 credit weightage and 2 teaching hours per week.

In semester V, Students are offered with one (1) General Elective (GE) paper "Water Resource Management". It has 4 credit weightage and 4 teaching hours per week. This paper has to teach by faculty of any Science Department.

In semester IV, University designed syllabus to the students to participate in a project or optional paper 'Public Health & Hygiene'. It has 4 credit weightage and 4 teaching hours per week. This paper has to teach by faculty of Zoology or Botany or Biotechnology or Micro Biology.

Department lays down course outcomes for each course according to the Learning Outcome Based curriculum set by UGC. Department is striving to attain course outcomes with curricular and co-curricular activities. Course Outcomes for the academic year 2022-2023 are given below.

AWARD OF GRADES:

Table shows the awarding of grade letter and Grade point to the student in each course or paper in every semester by university.

Details of Award of Grades under Choice Based Credit System W.E.F Academic year 2016-17

Range of Marks	Grade Letter	Grade Point
≥ 85 to 100	O	10
≥ 70 to < 85	A	9
≥ 60 to < 70	B	8
≥ 55 to < 60	C	7
≥ 50 to < 55	D	6
≥ 40 to < 50	E	5
< 40	F	0
Absent	AB	–

Details of Award of Grades Under Choice Based Credit System W.E.F Academic year 2019-20.

Award of Grades			Award of Division		
Range of % of Marks	Grade Letter	Grade Point	CGPA Grade	Range of marks (%)	Division
>85 to 100	O	8.5 - 10	7.00 - 10.00	70 - 100	First with Distinction
>70 to <85	A	7.0 - 8.49	6.00 - 6.99	60 - 69	FIRST
>60 to <70	B	6.0 - 6.99	5.00 - 5.99	50 - 59	SECOND
>55 to <60	C	5.5 - 5.99	4.00 - 4.99	40 - 49	PASS
>50 to < 55	D	5.0 - 5.49			
>40 to < 50	E	4.0 - 4.99			
< 40	F	0			
Absent	AB			

SEMESTER GRADE POINT AVERAGE (SGPA)

Credit Points = Credits assigned to the paper x Grade Point secured

SGPA indicates the performance of a student in a given Semester. SGPA is based on the total credit points earned by the student in all the courses and the total number of credits assigned to the courses/papers in a Semester.

Note: SGPA is computed only if the candidate passes in all the papers (gets a minimum 'E' grade in all the Papers)

CUMULATIVE GRADE POINT AVERAGE (CGPA)

CGPA refers to the Cumulative Grade Point Average weighted across all the semesters (6 Semesters).

Note: CGPA is calculated only when the candidate passes in all the paper of all the semesters.