

Ordinances

For

B.Sc. (Hons.) Biotechnology

FROM SESSION 2018-19 ONWARDS

Under

CHOICE BASED CREDIT SYSTEM

ORDINANCES

SESSION 2018-19 ONWARDS

Biotechnology is making immense contribution for the betterment of society. This professional course aims to provide experimental knowledge, analytical and conceptual skills to the learners in diverse areas like molecular biology, tissue culture, genetics, genomics, proteomics, bioinformatics, biochemistry, fermentation technology etc. The course opens many career options after its completion.

The course for the degree of **Bachelor of Science (Hons.) Biotechnology** shall be spread over three academic years (B.Sc. Part-I, II and III) and **six semesters**. The examination for the first, third and fifth semester shall be held in the month of November/December and examination for the second, fourth and sixth semester shall be held in the month of April/May.

1. The candidates who have passed 10+2 examination in **Science stream** (Medical & Non-Medical etc.) are eligible.
2. Minimum eligibility requirement for admission in First semester is 45% marks in the 10+2 examination (Relaxation will be given to specific categories as per Govt. rules)
3. The course will be based on **Choice Based Credit System (CBCS)** as per UGC guidelines.
4. **Credit** is a unit by which course work is measured. One credit is equivalent to one hour of teaching or two hours of practical work per week.
5. **Cumulative Grade Point Average (CGPA):** It is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points secured by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.
6. **Grade Point:** It is a numerical weight allotted to each letter grade on a 10-point scale.
7. **Letter Grade:** It is an index of the performance of students in a said course. Grades are denoted by letters O, A+, A, B+, B, C, P and F.
8. **Semester Grade Point Average (SGPA):** It is a measure of performance of work done in a semester. It is ratio of total credit points secured by a student in various courses registered in a semester and the total course credits taken during that semester. It shall be expressed up to two decimal places.
9. The Successful candidates shall be classified on the basis of 10-point grade following letter grades

Letter Grade	Marks	Grade Points
O (Outstanding)	91-100	10
A+ (Excellent)	81-90	9
A (Very Good)	71-80	8
B+ (Good)	61-70	7
B (Above Average)	51-60	6
C (Average)	41-50	5
P (Fair)	40	4
F(Fail)		0
D (Detained)		0

The division obtained by each student is classified on the following basis:

Division	CGPA
a) 1st with distinction	7.5 or more
b) 1st	6.0 or more but less than 7.5
c) 2nd	5.0 or more but less than 6.0

Computation of SGPA and CGPA

The UGC recommends the following procedure to compute the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA):

- i. The SGPA is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student, i.e

$$\text{SGPA (Si)} = \frac{\sum(C_i \times G_i)}{\sum C_i}$$

where C_i is the number of credits of the i th course and G_i is the grade point scored by the student in the i th course.

- ii. The CGPA is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a programme, i.e.

$$\text{CGPA} = \frac{\sum(C_i \times S_i)}{\sum C_i}$$

where S_i is the SGPA of the i th semester and C_i is the total number of credits in that semester.

- iii. The SGPA and CGPA shall be rounded off to 2 decimal points and shall be reported in the transcripts.

Illustration of Computation of SGPA and CGPA and Format for Transcripts

- i. Computation of SGPA and CGPA (example)

Course	Credit	Grade letter	Grade points	Credit points × Grade	Credits
Core Course I	4	A	8	4×8=32	
Core Course II	4	B+	7	4×7=28	
Ability enhancement compulsory course I	3	B	6	3×6=18	
Generic elective I	4	O	10	4×10=40	
Ability enhancement compulsory course II	4	A	8	4×8=32	
LC-Practical paper I	2	C	5	2×5=20	
LC-Practical paper II	2	B	6	2×6=12	
LC-Practical paper of Generic Elective I	2	B	6	2×6=12	
Total	25			Total Grade Points =184	

Thus, $SGPA = 184 \text{ divided by } 25 = 7.36$

Illustration for CGPA

SEMESTER 1	SEMESTER 2	SEMESTER 3	SEMESTER 4	SEMESTER 5	SEMESTER 6
CREDIT 25	CREDIT 25	CREDIT 30	CREDIT 30	CREDIT 30	CREDIT 30
SGPA 7.36	SGPA 7.8	SGPA 5.6	SGPA 6.0	SGPA 7.8	SGPA 7.8

$$\begin{aligned} \text{Thus, } CGPA &= \frac{25 \times 7.36 + 25 \times 7.8 + 30 \times 5.6 + 30 \times 6.0 + 30 \times 7.8 + 30 \times 7.8}{170} \\ &= \frac{184 + 195 + 168 + 180 + 234 + 234}{170} \\ &= 7.02 \end{aligned}$$

Transcript (Format): Based on the above recommendations on Letter grades, grade points and SGPA and CGPA, the University may issue the transcript for each semester and a consolidated transcript indicating the performance in all semesters.

10. Examination will be open to **regular candidates** who have been on the rolls of a college affiliated to this University and meet these ordinances, attendance and other requirements, subject to fulfillment of the requirement of House examinations.
11. The **medium of instructions** and examination will be **English** except for the non English subjects.
12. **Punjabi** is mandatory as per university rules. **Elementary Punjabi** in the lieu of Punjabi shall be allowed only to the following categories of candidates :
 - a. Candidates who have passed their Matriculation examination from a School located outside the State of Punjab.
 - b. Children of Defence personnel/Para military personnel (serving as well as retired) will be allowed to take up the subject of Punjabi, provided the father or the mother/guardian (in case father is deceased) of the candidate gives an affidavit that the candidate has not studied Punjabi at the School level.
13. To qualify for admission to **3rd semester of the Course**, the candidate must have passed 50% of total papers of the two semesters of the 1st year. In case, the result of 2nd semester is not declared at the time of admission to 3rd Semester, the student may be admitted provisionally and will be allowed to take examination of 3rd semester if he/she has passed in 50% of the total papers of first year (i.e. Ist and 2nd Semesters). Similarly, to **qualify for admission to 5th semester** of the course, the student may be admitted provisionally if the result of previous semester has not been declared and will be allowed to take examination of 5th semester, if he/she has passed 50% of the total papers of previous semesters.
14. A candidate placed under **reappear** in any paper, will be allowed two chances to clear the reappear, which should be availed within consecutive two years/chances i.e. to pass in a paper the candidate will have a total of three chances, one as regular student and two as reappear candidate or rules as prescribed by University from time to time.
15. The **examination of reappear papers** of odd semesters will be held with regular examination of the odd semester and reappear examination of the even semester will be held with regular examination of even semester. But if a candidate is placed under reappear in the last semester of the course, he will be provided chance to pass the reappear with the examination of the next semester, provided his reappear of lower semester does not go beyond next semester.

16. Candidates shall submit their application forms for admission to examination duly countersigned by the principal fulfilling following requirement:

- (i) has been on the rolls of college throughout the academic terms
- (ii) have good moral character
- (iii) has attended 75% of the number of lectures delivered/practical in each paper, for late admission, lectures delivered will be counted from her/his date of admission
- (iv) In case of students, whose names are struck off on account of nonpayment of fee or other reasons shall not be accounted for.
- (v) The shortage in attendance of lectures by the candidate will be condoned as per rules made by university from time to time.

17. **Amount of examination fee** to be paid by a candidate for each semester shall be prescribed by the University from time to time.

18. Applications for admission to the examination will be made on the **prescribed form** attested by the competent authority as per University rules. The last date by which admission forms and fees must reach the Registrar shall be as follows:

Semester Examination	Without late fee	With late fee of Rs. 800/-	With late fee of Rs. 1,200/-	With late fee of Rs. 5,000/-	With late fee of Rs. 10,000/-	With late fee of Rs. 15,000/-	With late fee of Rs. 20,000/-
(Nov/Dec) Odd	Sept. 30	Oct. 15	Oct. 21	Oct. 31	Nov. 10	Before 7 days of Exam	Before 2 days of Exam
(May/June) Even	Feb. 28	Mar.15	Mar. 21	Mar.31	Apr. 15	Exam	
* or as prescribed by the university from time to time							

Incomplete forms or forms of candidates who have not cleared her/his dues will not be accepted.

19. **University medal** will be awarded to a candidate who secured first position in the University on the basis of the marks of all the six semesters taken together. The general rules and conditions of the University for the Award of Medal/Prizes etc. will be applicable in the award of University medal to the topper of this examination.
20. The Candidate will also be entitled to grace marks as admissible under the ordinances, relating to the '**Grace Marks.**'
21. The minimum requirement to pass the examination in each part shall be P Grade in each subject of theory paper, practical examination and internal assessment separately.
22. The marks for internal assessment both in theory and laboratory (Practical) and marks for examination will be as per prescribed by the RUSA/University guidelines from time to time which will be mentioned on the syllabi and course of reading.
23. Three weeks after the termination of examination or as soon as thereafter possible, the Registrar will publish the result of the candidates. Each candidate shall receive a certificate indicating grades obtained in each examination.
24. A candidate who has passed B.Sc. (Hons.) Biotechnology examination from this University shall have one chance within a period of two years after passing the examination to improve grade. Improvement shall be allowed in not more than three theory papers offered in each semester. However, previous marks of Practical/Project will be carried forward in the paper(s) in which he/she appears for improvement and be awarded one percent of grace marks on the basis of given papers, out of the papers taken up, the candidate will be given benefit of increase in marks, where the marks have increased in paper/papers or improvement chance will be as prescribed by university from time to time.
25. Re-evaluation will be as per university rules.
26. Each practical paper consists of 50 marks in each semester .It includes:
 - 50 % marks for performance
 - 25 % marks for write-up
 - 25% marks for file and viva voce
27. One month industrial training is mandatory, which shall be evaluated by board of 3 members including HOD, and shall be communicated to university as satisfactory/Unsatisfactory before commencement of Semester IV examination.