



**KLE SOCIETY'S**  
**P. C. JABIN SCIENCE COLLEGE,**  
**AUTONOMOUS, CPE PHASE -III**  
AFFILIATED TO KARNATAK UNIVERSITY DHARWAD  
APPROVED BY UNIVERSITY GRANTS COMMISSION, NEW DELHI AND  
GOVERNMENT OF KARNATAKA  
**Accredited at 'A' Grade by NAAC with CGPA 3.43**  
**VIDYANAGAR, HUBBALLI-580031**

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**Draft Regulations Governing Post-Graduate Programs in Biotechnology  
Offered under Semester Scheme with Choice Based Credit System (CBCS)  
(Framed under Section 44(1) (c) of KSU Act-2000, UGC and affiliating  
university guidelines for CBCS System)**

**(Effective from 2016 -2017)**

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P.G. Department Research and Studies in Biotechnology

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**Draft Regulations Governing Post-Graduate Program in Biotechnology Offered under Semester  
Scheme with Choice Based Credit System (CBCS) - (2016-2017)**  
(Framed under Section 44(1) (c) of KSU Act-2000, UGC and affiliating university guidelines for  
CBCS System)

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**1.0 Title**

These Regulations shall be called "Regulations Governing the Post-Graduate Program in Biotechnology under the **"Choice Based Credit System"** for KLE Society's P.C. Jabin Science College (Autonomous), Hubballi.

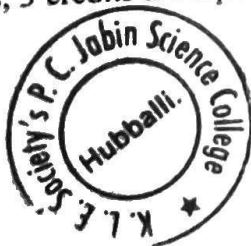
**2.0 Commencement**

These Regulations shall come into force with effect from the academic year 2016-2017.

**3.0 Definitions**

In these Regulations, unless otherwise provided:

- a. **"Academic Council"** means Academic Council of the college constituted according to the UGC Guidelines for autonomy.
- b. **"Board of Studies"** means P.G. Board of Studies in Biotechnology.
- c. **"Compulsory Course"** means fundamental paper, which the student admitted to a particular Post-Graduate Programme should successfully complete receiving the Post-Graduate Degree in the concerned subject.
- d. **"Course Weightage"** means number of credits assigned to a particular course.
- e. **"Credit"** means the unit by which the course work is measured. One Credit means one hour of teaching work or two hours of practical work per week. As regards the marks for the courses 1 credit is equal to 25 marks, 2 credits are equal to 50 marks, 3 credits are equal to 75 marks and 4 credits are equal



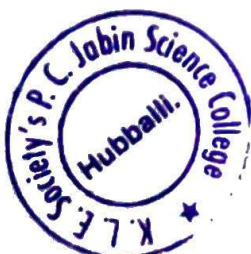


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to 100 marks.

- f. **"Cumulative Grade Point Average(CGPA)"** refers to the Cumulative Grade Point Averages weighted across all the semesters and is carried forward from first semester to subsequent semesters.
- g. **"Degree"** means post-Graduate Degree in Biotechnology offered by KLE Society's P.C. Jabin Science College (Autonomous), Hubballi.
- h. **"Grade"** is an index to indicate the performance of a student in the selected course. These Grades are arrived at by converting marks scored in each course by the candidate in both Internal Assessment and Semester-end Examinations,
- i. **"Grade Point Average (GPA)"** refers to an indication of the performance of the student in a given semester. GPA is the weighted average of all Grades a student gets in a given semester.
- j. **"Open Elective Course"** means a paper offered by a Department to the students of other departments.
- k. **"Post Graduate Programme"** means semester based Master's Degree Programme.
- l. **"Student"** means the student admitted to the post graduate programme.
- m. **"College"** means KLE Society's P.C. Jabin Science College (Autonomous), Hubballi.





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#### **4.0 Minimum Eligibility for Admission**

A candidate, who has successfully completed Bachelor's Degree programme in Science (Biotechnology or related subjects such as Zoology, Botany , Applied Genetics, Microbiology or Biosciences as one among the subjects) or any other Degree programme of any other University recognized as equivalent to their College, shall be eligible for admission to the Post Graduate.

Programmes in science provided the candidate also satisfies the conditions like the minimum percentage of marks and other eligibility conditions as prescribed by the University from time to time. Admissions shall be as per Government of Karnataka reservation policy and the directions issued in this regard from time to time.

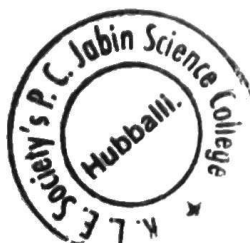
#### **5.0 Duration of the Programme**

The duration of the study for the Post-Graduate Degree program in Biotechnology shall extend over a period of two consecutive academic years, each academic year comprising two semesters, and each semester comprising sixteen weeks(16) with a minimum of ninety (90) workingdays.

However, the students, who discontinue the programme after one or more semesters due to extraordinary circumstances, are allowed to continue and complete the programme with due approval from the Principal. Candidates shall not register for any other regular course other than Diploma and Certificate courses being offered on the campus during the duration of P.G.Programme.

#### **6.0 Medium of Instruction and Evaluation**

The medium of instruction shall be English.





## 7.0 Programme Structure

The students of Post-Graduate Programme shall study the courses as approved by the Board of Studies, the Academic Council of the College from time to time which is subjected to minimum and maximum credits as outlined in these regulations.

There shall be categories of courses namely, **Core Courses and Open Elective Courses.**

## 8.0 Components of the Programmes

Master's Degree Programmes consist of the following courses:

**Core Course (Mandatory):** Course that is fundamental and **compulsory** in requirement for a subject of study in a particular Programme with the content of required national and international level of knowledge. The core course prescribed for study in a Programme shall not be replaced by studying any other course(s). A minimum of 50% of the courses of a programme shall be core courses.

- **Dissertation** / Essential Field work practical leading to report writing and project/dissertation of the main programme of study shall be treated as core course.

**Open Elective - Interdisciplinary Course:** Course/s offered by any Department of Studies and Research other than the parent department. Such courses are offered by the college to provide an exposure to students about other disciplines. It is mandatory for the students from a particular department to enroll themselves for the courses offered by some other







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departments as open elective interdisciplinary courses. One elective in second semester and in the third semester.

- Program shall have a set of Compulsory Courses, as stipulated in the regulations governing the program that a student must complete to get the degree.

Department shall offer Open Elective courses for students of other Departments. The students of a Department shall choose Open Elective course prescribed by the College and selected by the Department from time to time. Such Open Elective courses shall be taught by qualified teachers.

- The credits for each of the Compulsory Courses may vary from 2 to 4; for Specialization Course, from 2 to 4 ; and for Open Elective Course, from 2to4.
- Wherever project work/field work/practical's are involved in the course, the credits may extend upto6.
- The minimum credits for P.G. Programmes in Biotechnology are 100
- The students shall undertake Review and project/field work during the programme as a compulsory course or in lieu of Core or Specialization Course if so specified by the concerned Board of Studies.
- The detailed program structure for Post Graduate studies and Research in Biotechnology shall be as prescribed and shown in Annexure-I, Annexure -II, Annexure- III , Annexure -IV & Annexure-V
- The Open Elective Courses shall have only theoretical component or as specified by the respective Board of Studies. The number of students





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admitted to the course shall commensurate with the availability of infrastructure.

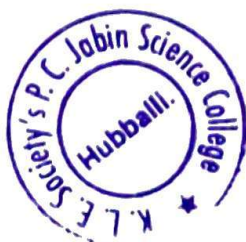
### **9.0 Attendance**

Each course shall be taken as a unit for the purpose of calculating the attendance.

Each student shall maintain attendance of 75%, register maintained in the department for each course for every hour/unit of teaching/practical. The course teachers shall submit the monthly attendance report to the Chairperson of the Department who shall notify the same on the notice board of the Department during the second week of the subsequent month.

A student shall be considered to have satisfied the required attendance for each course if he/she has attendance not less than 75% of the total number of instructional hours during the semester.

The students who do not satisfy the prescribed requirement of attendance shall not be eligible for the ensuing examination. Such candidates may seek admission afresh to the given semester. Such of the candidates who have participated in State/National level Sports, Cultural activities and other related activities as stipulated under the existing regulations shall be considered for giving attendance for actual number of days utilized in such activities including travel days) subject to the providing of certificates from the relevant authorities within two weeks after the event.





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Sl.No	Course Components	Number of Credits	
		Minimum	Maximum
1	Core Course	2	4
2	Dissertation/Project Work/Field	2	6
3	Review dissertation	2	4
4	Open-Electives Interdisciplinary	2	4

**Lecture:** An exposition/discourse of a given subject delivered before audience or a class, especially for instruction.

**Tutorial or learner centric approaches:** A supplementary practice to any teaching-learning process that may consist of participatory discussion/self-study/desk work/seminar presentations by students and such other novel methods that make a student to absorb and assimilate more effectively the contents delivered in the lecture classes. Seminars, Case Study, Discussion Sessions etc., are part of Tutorial or learner centric approaches.

### **10.0 Project**

It is a method of imparting education that consists of hands on experience/ laboratory experiments, which equip students to acquire the required skill component.

**10.1 Dissertation/Project work:** A Dissertation/Project work is a course with wider scope involving application of knowledge in solving/analyzingexploring a real life situation problem.







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### 11.0 Registering for the semester end examination:

There shall be an examination conducted by the college at the end of the each semester as notified by the college from time to time.

A student shall register for all the prescribed papers of a semester when he/she appears for the examination of that semester for the first time.

A student who fails to satisfy the attendance requirement during the prescribed semester shall not be allowed to appear for the semester end examinations.

1. **Examination Manual:** The Controller of Examination shall prepare a manual for the entire process of examination. It shall include registration of candidates, eligibility, and schedule of examinations, constitution of BOAE & other processes of examination, results, issue of marks list/cards, maintenance of records as on.
2. **Board of Appointment of Examiners:** There shall be Board of Appointment of examiners (BOAE) to be constituted as a subcommittee of Academic Council, it shall comprise of Dean Academic affairs, Chairman BOS & one senior staff of the concerned subject & one faculty from outside. The BOAE shall constitute panel of Examination for respective subject.

### 12.0 Semester Examination

- There shall be a Board of Examiners to set, scrutinize and approve question papers.
- The Board of Examiners (BOE) shall consist of following members
- Chairman of BOS





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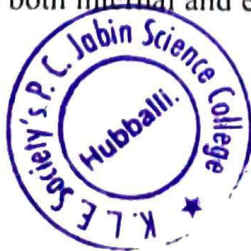
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- External faculty member
- Internal faculty member
- There shall be two sets of question papers for each course of which at least one should be set by an external examiners. The BOE shall scrutinize the question papers and approve the question papers and submit the same to the office of the Controller of Examination.
- The office of the Controller of Examination shall conduct the Examinations according to the Schedule announced by the College.
- As far as practicable, it will be ensured that 50% of the paper setters and examiners are from other Universities/ Research Institutes.
- Each answer script of the semester-end examination (theory and project report) shall be assessed by two examiners (one internal and another external). The marks awarded to that answer script shall be the average of these two evaluations. If the difference in marks between two evaluations exceeds 20% of the maximum marks, such a script shall be assessed by a third examiner. The marks allotted by the third examiners shall be averaged with nearer award of the two evaluations.
- Provided that in case the number of answer scripts to be referred to the third examiner in a course exceeds minimum of 5 or 20% of the total number of scripts, at the even semester-end examinations, such answer scripts shall be valued by the Board of Examiners on the date to be notified by the Chairperson of the Board of Examiners and the marks awarded by the Board shall be final.
- Wherever dissertation/project work is prescribed for a programme, the Same shall be evaluated by both internal and external examiners. The





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evaluation shall be as per faculty specific regulations

- In case of programmes with practical examination details of maximum marks, credits or duration may vary from Department to Department and will be as per Faculty Specific Regulations(CBS)or Rules as approved by the Academic Council.
- The office of the Controller shall process and announce the results.

### **13.0 Evaluation**

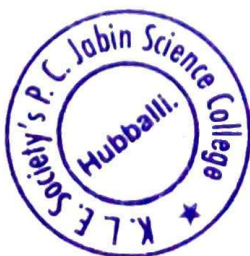
Each Course shall have two evaluation components - Internal Assessment (IA) and the Semester End Exams.

The IA component in a course shall carry 30% and the Semester End Examination shall carry 70% respectively, as the case may be. However, in case of project work, the distribution of marks for Internal Assessment and Examination shall be left to the discretion of the concerned BOS.

Internal Assessment (IA) shall be based on written tests, practical and seminars. However, the number of IA components per course per semester shall not be less than two.

The IA marks list shall be notified on the Notice Board as and when the individual IA components are completed and the consolidated list shall be submitted to the Office of the controller of examination before the commencement of semester- end examination.

The tests shall be written in a separately designated answer book /IA supplied by the College which shall be open for inspection by the students after evaluation. There is no provision for seeking improvement of Internal Assessment marks. The IA records, pertaining to Semester Examination, shall







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be preserved by the department for a period of one year from the date of semester examination.

The dissertation/project work viva-voce shall be conducted by an internal and external examiner.

**Submission:**

The responsibility of allocating the topic for the dissertation/project, specifying the duration for the field work and methods, the time for submission of the same to the department etc., shall be decided by the Departmental Council.

The candidate, right from the initial stage of defining the problem, review of literature, progress of the work etc., is supposed to have regular discussions with the concerned supervisor/guide and submit the progress reports periodically.

**14.0 Evaluation of Dissertation/Project Reports**

The candidate has to submit the Dissertation/Project Report before the closure of a respective Semester to facilitate the Evaluation process.

The dissertation shall be evaluated by a panel of two examiners, of whom; one shall be an external examiner.

Total Marks for Dissertation is 105 Marks or as per requirement of the respective department.

- |     |                         |            |
|-----|-------------------------|------------|
| i.  | Dissertation Evaluation | = 80 Marks |
| ii. | VivaVoce Examination    | = 25 Marks |

Both examiners shall enter the marks for the Dissertation evaluation in separate Marks Sheets (as done in theory examinations) and submit the same to the concerned in a sealed cover.

The viva-voce examination marks shall be awarded jointly by the examiners







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and the same should be submitted to the office of Registrar Evaluation in a sealed cover.

### **15.0 Maximum duration for completion of the Programme**

A candidate admitted to a post graduate programme shall complete it within a period, which is double the duration of the programme from the date of admission.

Whenever the syllabus is revised, the candidate reappearing shall be allowed for the examinations only according to the new syllabus.

### **16.0 Standards of Passing:**

- There shall be no minimum marks for passing in the continuous Internal Assessment
- There shall be 40% of minimum marks for passing in the semester end examination both in theory & practicals for each paper.
- However, there shall be 50% aggregate marks in CIA & SEE together for passing both in theory & practicals in all subjects together.

### **17.0 Gracing Rule**

- In case if the candidate fails in one or more than one subject by not more than 5 marks, in all the subjects together, then 5 marks shall be graced for passing





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### 18.0 Declaration of Results

The minimum for a pass in each course shall be 40% of the total marks including both the IA and the semester-end examinations. Further, the candidate shall obtain at least 40% of the marks in the semester-end examination. There is no minimum for the IA marks.

Candidates shall secure a minimum of 50% in aggregate in all courses of a programme in each semester to successfully complete the programme.

Candidates shall earn the prescribed number of credits for the programme to qualify for the PG Degree.

For the purpose of announcing the results, the aggregate of the marks secured by a candidate in all these semester examinations shall be taken in to account. However, Ranks shall not be awarded in case the candidate has not successfully completed each of the semesters in first attempt or has not completed the programme in the stipulated time or had applied for improvement of results.

#### 18.1 Marks, Credit Points, Grade Points, Grades and Grade Point Average

The grade points and the grade letters to candidates in each course shall be awarded as Follows:

Percentage of marks	Grade Points	Grade Letter
75 and above, up to 100.00 %	7.50 to 10.00	A
60 and above but less than 75 %	6.00 and above but less than 07.50	B
50 and above but less than 60 %	5.00 and above but less than 6.00	C
40 and above but less than 50 %	4.00 and above but less than 05.00	D
Less than 40.00 %	Less than 4.00	F





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- **Credit Point (CP):** The Credit Point for each course shall be calculated by multiplying the grade point obtained by the credit of the course.

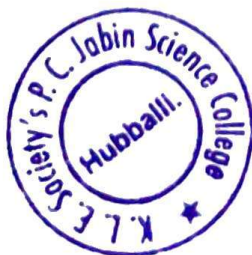
The award of Grade Point Average (GPA) for any student is based on the performance in the whole semester. The student is awarded Grade Point Average for each semester based on the Total Credit Points obtained and the total number of credits opted for. The GPA is calculated by dividing the total credit points earned by the student in all the courses by the total number of credits of those courses of the semester.

The Cumulative Grade Point Average (CGPA) shall be calculated by dividing the total number of credit points in all the semesters by the total number of credits in all the semesters.

- **CGPA for the I Semester** = Sum of the CP of the I Semester + Sum of the credits of the I Sem
- **CGPA for the II Semester** = Sum of the CP of the I Sem + Sum of the CP of II Sem. / Sum of the credits of the I Semester + II Semester
- **CGPA for the III and IV Semesters** shall be computed accordingly.

The Grade Card at each semester examination shall indicate the courses opted by the student, the credit for the course chosen by the student, the credit points obtained in each course, the grade letter and the grade point average. No class shall be awarded for each semester and the same would only be awarded at the end of all the semesters based on Cumulative Grade Point Average.

Class shall be awarded to the successful candidates based on the Cumulative Grade Point Average (CGPA) as specified below:







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Cumulative Grade Point Average (CGPA)	Class to be awarded
7.5 to 10.0	First class with Distinction
6.0 and above but below 7.5	First Class
5.0 and above but below 6.0	Second Class

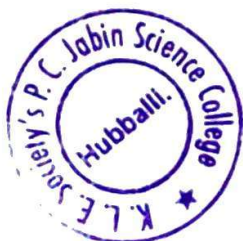
#### 19.0 Result Review Committee:

There shall be a Result Review Committee comprising of one person nominated by AC as Chairman, all Chairpersons of BOS as members & Controller of Examination as convener. The committee shall review the results & grievances pertaining to the examinations. The minutes of the meeting are kept as record. The committee shall meet at least twice a year and review the performance of the students and suggest suitable steps for improvement and enhancement of results, in respective semesters.

#### 20.0 Malpractice Committee:

There shall be a committee for prevention of malpractice and adjudicated malpractice cases of students, teachers and officials. The committee shall meet once in a semester and as and when required to look into the cases of malpractices and report with suitable recommendation to AC & GB for suitable action. The proceedings of the meeting shall be recorded and maintained.

- Members of Malpractice Committee include
- Dean Academic Affairs-Chairman
- One faculty nominated by the Principal-Member
- Controller of Examination-Member







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## **21.0 GrievanceRedressal**

- To provide justice to all the stakeholders of HigherEducation.
- The college shall constitute a committee to attend to the grievances of students, parents & faculty.

### **The Committee consists of**

- Principal-Chairman
- One Seniorfaculty
- One Senior LadyStaff

## **22.0 Discipline**

- Students shall behave in a befitting manner, suitable to the institution of Nationalimportance.
- The students are liable to punishment on the violations of rules suchas.
  - Indecentbehavior
  - Indecent dresscode
  - Damage to collegeproperty
  - Possession and consumption of alcohol, gutka, smoking &consumption of tobacco.
  - Defacing walls &desks.

### **The Discipline committee consists**

- Dean - studentswelfare
- NSSofficer
- NCCofficer
- Hostelwardens
- Studentsrepresentation





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### 23.0 Anti-ragging Committee

As per the order of the Honorable Supreme Court of India, ragging in any form is a Criminal and culpable offence. Such form of acts shall be enquired by a committee

There shall be Anti-ragging Committee to prevent the ragging in the college & outside the college as per UGC guidelines.

### 24.0 Miscellaneous

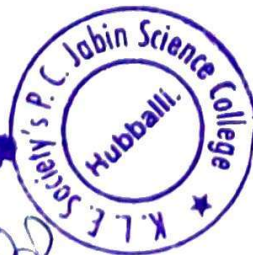
- Notwithstanding anything contained in these regulations, the semester system at Post- Graduate level is hereby repealed.
- The provisions of any order, Regulations in force shall be inapplicable to the extent of its inconsistency with these Regulations.
- The College shall issue such orders, instructions, procedures and prescribe such format as it may deem fit to implement the provisions of this Regulations.
- The procedural details may be given by the College from time to time.
- Any unforeseen problems/ difficulties may be resolved by the Principal, whose decision in the matter shall be final.

### 25.0 Savings clause:

The said regulations shall come into force from the day of its notification and shall be in force till the date of repealing of the same.

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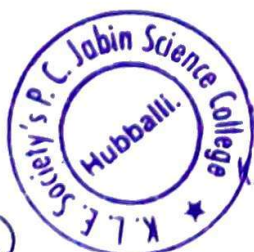
**Annexure -1**

The Programme structure of the Master of Science Degree shall be as follows

Semester	No. of compulsory & Specialization courses credits/course)	Total credits for compulsory & Specialization courses	No. of open elective course (credits/course)	Total credits of open elective course	Total credits for the semester
Sem. I	T: 04(04)=16 P: 04(02)=08	24	--	--	24
Sem. II	T: 04(04)=16 P: 04(02)=08	24	Th: 01(04)= 02	02	26
Sem. III	T: 04(04)=16 P: 04(02)=08	24	Th: 01(04)= 02	02	26
Sem. IV	T: 03(04)=12 P: 03(02)=06 CP: 01(06)=06	24	--	--	24
Total	T: 15(4)=60 P: 15(02)=30 CP: 01(06)=06	96	02(04)= 04	04	100

Abbreviations: T = Theory; P = Practical; CP = Core Project;

  
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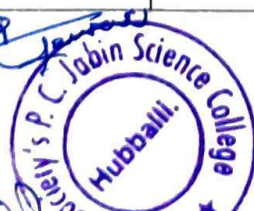
Semester	No. of compulsory & Specialization courses credits/course)	Total credits for compulsory & Specialization courses	No. of open elective course (credits/course)	Total credits of open elective course	Total credits for the semester
Sem. I	T: 04(04) =16 MBT-T-101 Cell Biology and Genetics MBT-T-102 Biochemistry and Biophysics MBT-T-103 Molecular Biology MBT-T-104 Microbiology P: 04 (02)=08 MBT-P-101 Cell Biology and Genetics MBT-P-102 Biochemistry and Biophysics MBT-P-103 Molecular Biology MBT-P-104 Microbiology	24	--	--	24
Sem. II	T: 04(04) =16 MBT-T-201 Bioinformatics and Biostatistics MBT-T-202 Enzymology and Intermediary Metabolism MBT-T-203 Immunology and Immunotechnology MBT-T-204 Genetic Engineering and r-DNA Technology P: 04 (02)=08 MBT-P-201 Bioinformatics and Biostatistics MBT-P-202 Enzymology and Intermediary Metabolism MBT-P-203 Immunology and Immunotechnology MBT-P-204 Genetic Engineering and r-DNA Technology	24	Th:01(04)= 02 ELE-201 Research Methodology	02	26
Sem. III	T: 04(04) =16 MBT-T-301 Food and Nutritional Biotechnology MBT-T-302 Plant Tissue Culture and Agricultural Biotechnology MBT-T-303 Animal Biotechnology MBT-T-304 Bioprocess Engineering and Industrial Biotechnology P: 04 (02)=08 MBT-P-301 Food and Nutritional Biotechnology MBT-P-302 Plant Tissue Culture and Agricultural Biotechnology MBT-P-303 Review activity MBT-P-304 Bioprocess Engineering and Industrial Biotechnology	24	Th:01(04) = 02 ELE 301 Bioinstrumentation	02	26

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Sem IV	T: 04(03) =12 MB1-T-401 Environmental Biotechnology, Biosafety and IPR MBT-T-402 Medical and Nanobiotechnology MBT-T-403 Genomics and Proteomics  P: 04(03) MBT-P-401 Environmental Biotechnology, Biosafety and IPR MBT-P-402 Medical and Nanobiotechnology MBT-P-403 Genomics and Proteomics  MBT-P- 404: Project 01 (06)	24	----	---	24
Total	T: 15 (4) =60 P: 15(02)=30 CP: (06)=06	96	01(04) =04	04	100

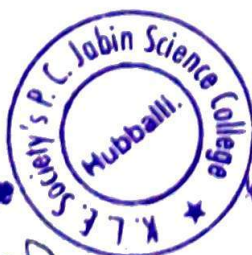
Abbreviations: T = Theory; P = Practical; CP = Core Project.

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**Director**

Jabin Science College



**Principal**

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**Annexure - II**

**GRADECARD**

M.Sc. Biotechnology IV Semester End Examinations (Month and Year)

Student Name:

Seat No:

Father Name:

Mother Name:

Course	Course Code	Credit	IA Marks		Theory/ Practical		Max	Marks Obtained	Semester Grade Point	Credit Points
Compulsory Courses			Max	Obt	Max	Obt				
Course-I	MBT-T- 401	04	30	15	70	45	100	60	6.00	24.00
Course-II	MBT-T- 402	04	30	15	70	59	100	74	7.40	29.60
Course-III	MBT-T- 403	04	30	15	70	28	100	43	4.30	17.20
Course-IV	MBT-P- 401	02	15	06	35	34	50	40	8.00	16.00
Course-V	MBT-P- 402	02	15	06	35	34	50	40	8.00	16.00
Course-VI	MBT-T- 403	02	15	06	35	34	50	40	8.00	16.00
Course-VII	MBT-P- 404	06	45	30	105	90	150	120	8.00	48.00
<b>Total</b>		<b>24</b>					<b>600</b>			<b>200.00/ 185.00</b>

  
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**Annexure -III**

The Programme structure of the M.Sc. (Biotechnology) shall be as follows:

Semester	No. of Compulsory (Hard Core) and specialization courses (Soft Core) Courses (credits/course)	Total credits For Compulsory(Hard Core) &Specialization(Soft Core) Courses	No. of open Elective course (credits/courses)	Total credits Of open Elective Course	Total credits for the semester
Sem-I	Hard Core T: 04 (04)=16 P: 04 (02) =08	24	--	—	24
Sem - II	Hard Core T:04(04)= 16 P: 04(02) = 08	24	Th: 01 (04) = 02	02	26
Sem -III	Hard Core T:04(04)= 16 P: 04(02) = 08	24	Th: 01 (04) = 02	02	26
Sem-IV	Hard Core T: 03 (04)=12 P 03 (02) =06 Core Project:01(06) = 06	24	—	—	24
Total	Hard Core T: 15 (04) = 60 P: 15 (02) = 30 Core Project: 01(06) = 06	96	Th: 02(04)	04	100


**Note:**

Except for I and IV semesters, the concerned Department shall offer one each of open elective theory and practical course for students of other departments.

Abbreviations: T = Theory; P = Practical.

  
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**P.G. Department Research and Studies in Biotechnology**

**Annexure - IV**

**GRADE CARD**

**Programme: M.Sc. (Biotechnology)**

Name of the Candidate:

Seat No.:

Semester: Month & Year

Courses	Course code	Credit	IA Marks		Theory/ Practical		Max. Marks	Marks Obtained	Semester Grade Point	Credit Point
			Max.	Obt	Max.	Obt.				
<b>Compulsory Courses</b>										
Course - I	MBT-T-401	4	30	15	70	45	100	60	6.00	24.00
Course - II	MBT-T-402	4	30	15	70	59	100	74	7.40	29.60
Course - III	MBT-T-403	4	30	15	70	50	100	65	6.50	26.00
Course - IV	MBT-P-401	2	15	05	30	35	50	40	8.00	16.00
Course - V	MBT-P-402	2	15	05	30	35	50	40	8.00	16.00
Course - VI	MBT-T-403	2	15	05	30	35	50	40	8.00	16.00
Course - VII	MBT-P-404	6	45	32	105	82	150	114	8.00	45.60
<b>TOTAL</b>		<b>24</b>					<b>600</b>			<b>173.2</b>

	SEM I	SEM II	SEM III	SEM IV	Grand Total
Credit Points					
Credits					
Cleared Term					

SEMESTER GPA:

CGPA:

FINAL GRADE:

RESULT:

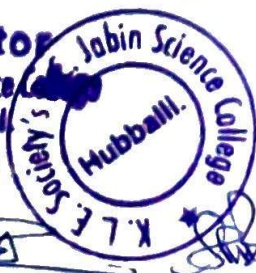
Date:

Checked by

Controller of Examination

Principal

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**Grading Calculation:**

$$\text{GPA for I Semester} = \frac{\text{CP (I Sem)}}{\text{Credits (I Sem)}}$$

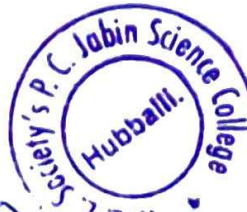
$$\text{CGPA for I Semester} = \text{GPA for I Semester}$$


$$\text{CGPA for IISem} = \frac{\text{CP(I Sem)} + \text{CP (IISem)}}{\text{Credits (I Sem)} + \text{Credits (II Sem)}}$$

$$\text{CGPA for IIISem} = \frac{\text{CP(I Sem)} + \text{CP(IISem)} + \text{CP (IIISem)}}{\text{Credits (I Sem)} + \text{Credits (II Sem)} + \text{Credits (III Sem)}}$$

$$\text{CGPA for the Programme} = \frac{\text{CP (I Sem)} + \text{CP (II Sem)} + \text{CP (III Sem)} + \text{CP (IV Sem)}}{\text{Credits (I Sem)} + \text{Credits (II Sem)} + \text{Credits(IIISem)} + \text{Credits(IVSem)}}$$

  
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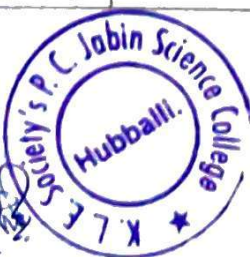
**M.Sc. Biotechnology Structure**

Annexure -V

Semester	Core course			Open Elective Course(OEC)			Total Credits
	Course Code	L+T+P	Credit	Course Code	L+T+P	Credit	
I	MBT-T-101	4+0+0	4+0+0				24
	MBT-T-102	4+0+0	4+0+0				
	MBT-T-103	4+0+0	4+0+0				
	MBT-T-104	4+0+0	4+0+0				
	MBT-P-101	0+0+4	0+0+2				
	MBT-P-102	0+0+4	0+0+2				
	MBT-P-103	0+0+4	0+0+2				
	MBT-P-104	0+0+4	0+0+2				
II	MBT-T-201	4+0+0	4+0+0	ELE- 201	0+0+2	0+0+2	26
	MBT-T-202	4+0+0	4+0+0				
	MBT-T-203	4+0+0	4+0+0				
	MBT-T-204	4+0+0	4+0+0				
	MBT-P-201	0+0+4	0+0+2				
	MBT-P-202	0+0+4	0+0+2				
	MBT-P-203	0+0+4	0+0+2				
	MBT-P-204	0+0+4	0+0+2				
III	MBT-T-301	4+0+0	4+0+0	ELE-301	0+0+2	0+0+2	26
	MBT-T-302	4+0+0	4+0+0				
	MBT-T-303	4+0+0	4+0+0				
	MBT-T-304	4+0+0	4+0+0				
	MBT-P-301	4+0+0	0+0+2				
	MBT-P-302	0+0+4	0+0+2				
	MBT-P-303	0+0+4	0+0+2				
	MBT-P-304	0+0+4	0+0+2				
IV	MBT-T-401	4+0+0	4+0+0				24
	MBT-T-402	4+0+0	4+0+0				
	MBT-T-403	4+0+0	4+0+0				
	MBT-P-401	0+0+4	0+0+2				
	MBT-P-402	0+0+4	0+0+2				
	MBT-P-403	0+0+4	0+0+2				
	MBT-P-404	0+0+8	0+0+6				

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