



JSS Academy of Higher Education & Research

(Deemed to be University)

Re-Accredited "A+" Grade by NAAC

Sri Shivarathreeshwara Nagara Mysuru - 570015, Karnataka

Faculty of Life Sciences

Regulations

POSTGRADUATE PROGRAMMES

As per UGC's Learning Outcome Based Curriculum Framework (LOCF) under the CBCS pattern
Implementation Year 2021-22 onwards

MSc

Regulations

Postgraduate Programmes As per UGC's Learning Outcome Based Curriculum Framework (LOCF) under the CBCS pattern Implementation Year 2021-22 onwards



JSS Academy of Higher Education & Research
School of Life Sciences, Mysuru
&
Life Sciences Departments

JSS Academy of Higher Education & Research
Regulations for
Postgraduate Programmes of School of Life Sciences
2021-22 onwards

Preamble

University Grants Commission (UGC) has stressed on speedy and substantive academic and administrative reforms in higher education for the promotion of quality and excellence. It is important to consider and adopt Semester System with a Choice Based Credit System (CBCS), Flexibility in Curriculum Development and Examination Reforms leading to Continuous Evaluation Pattern by reducing the weightage on the end semester examination. Further, introducing discipline-specific and interdisciplinary elective courses, Ability Enhancement Compulsory Course and Skill Enhancement Course can be considered unique which results in edutainment or to be precise, an enjoyable learning atmosphere for the students. Given the present trend of globalization and considering the UGC guidelines, JSS Academy of Higher Education & Research (JSS AHER) has adopted the CBCS and LOCF (Learning Outcome-based Curriculum Framework) so that the acceptability of the programmes and degrees offered by the Institute becomes comparable and readily acceptable. After due consideration, the following Regulations were drawn.

1. Title and Commencement

It shall be called Regulations for Choice Based Credit System (CBCS), Continuous Assessment and Grading Pattern (CAGP) for Postgraduate (PG) Programmes offered by JSS Academy of Higher Education and Research, Mysuru. These Regulations shall come into force from the academic year 2021-2022.

2. Applicability

This regulation is applicable to all the PG programmes offered under the Faculty of Life Sciences and Faculty Natural Sciences and any other PG programmes offered in the future.

PG programs currently offered:

- 1) Master of Science (M.Sc.) in Biochemistry
- 2) Master of Science (M.Sc.) in Biotechnology
- 3) Master of Science (M.Sc.) in Bioinformatics
- 4) Master of Science (M.Sc.) in Cognitive Neuroscience
- 5) Master of Science (M.Sc.) in Cosmetic Science
- 6) Master of Science (M.Sc.) in Environmental Science
- 7) Master of Science (M.Sc.) in Geoinformatics
- 8) Master of Science (M.Sc.) in Medical Physics

- 9) Master of Science (M.Sc.) in Medical Statistics
- 10) Master of Science (M.Sc.) in Microbiology
- 11) Master of Science (M.Sc.) in Molecular Biology
- 12) Master of Science (M.Sc.) in Nanoscience & Technology
- 13) Master of Science (M.Sc.) in Nutrition & Dietetics
- 14) Master of Science (M.Sc.) in Sports Nutrition & Management

3. Programme Structure

- 3.1. All the PG degree programmes shall be of Four Semesters duration unless specified otherwise.
- 3.2. An academic year consists of two semesters: Odd and Even.
- 3.3. A semester normally extends over a period of 16 to 18 weeks spanning 90 working days.
- 3.4. Programme structure
Each course in a programme shall carry a certain number of credits, which normally represent the weightage of a course and are a function of teaching, learning and evaluation strategies such as the number of contact hours, the course content, teaching methodology, learning outcomes, etc.

4. Definitions

- 4.1. Academic Year: Two consecutive (one odd + one even) semesters constitute one academic year.
- 4.2. Choice Based Credit System (CBCS): The CBCS provides choices for students to select from the prescribed courses (DSC, DSE, SEC, IDE, AECC).
- 4.3. Course: Usually referred to, as 'papers' is a component of a programme. Not all courses need to carry the same weightage. The courses define learning objectives and learning outcomes and are designed to comprise lectures/ tutorials/seminars assignments/ laboratory work/ fieldwork/ outreach activities/project work/viva/ self-study etc. or a combination of some of the above.
- 4.4. Grade Point: It is a numerical weight allotted to each letter grade on a 10-point scale.
- 4.5. Credit: A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work /fieldwork per week.
Credit Point: It is the product of grade points and the number of credits for a course.

- 4.6. Cumulative Grade Point Average (CGPA): It is a measure of the overall cumulative performance of a student in 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.
- 4.8. Letter Grade: It is an index of the performance of students in a said course. Letters A++, A+, A, B+, B, C, D and F., denote grades.
- 4.9. Programme: An educational programme leading to award of a Degree or Diploma or certificate.
- 4.10. Semester Grade Point Average (SGPA): It is a measure of performance of work done in a semester. It is the ratio of total credit points secured by a student in various courses in a semester and the total course credits secured during that semester.
- 4.11. Transcript or Grade Card or Certificate: Based on the grades earned, a grade certificate shall be issued to all the registered students after every semester. The grade certificate will display the course details (code, title, number of credits, grade secured) along with SGPA of that semester and CGPA earned until that semester.

5. Types of Courses

- 5.1. Discipline Specific Course (DSC) is a core course, which should be compulsorily studied by a student as a core requirement of the programme.
- 5.2. Elective Course is a course, which can be chosen from a pool of courses. It may be very specific, specialized, advanced or supportive to the discipline/subject of study, which provides an extended scope or which enables exposure to some other discipline/subject/domain or nurtures the student's proficiency/skill.
- a) Discipline Specific Elective (DSE) is a course offered under the main discipline/subject of study.
- b) Interdisciplinary Elective (IDE) is an elective course chosen from other discipline/subject with an intention to seek exposure beyond discipline/subject.
- 5.3. Ability Enhancement Courses (AEC) may be of two types: Ability Enhancement Compulsory Courses (AECC) and Skill Enhancement Courses (SEC). AECC courses are mandatory courses based upon the content that leads to knowledge enhancement. SEC courses are aimed at providing hands-on-training, competencies, skills, etc.

6. Scheme of the Programme

- 6.1. The minimum duration for completion of a PG programme is four semesters. However, as per double the duration norm, the maximum period permitted is eight semesters counting from the first semester.
- 6.2. A student must earn 82 credits for the successful completion of a four-semester PG programme. The distribution of credits for different programmes/courses shall be prescribed by the BOS.
- 6.3. Only such students, who successfully complete 82 credits in four semesters without break, shall be considered for declaration of ranks and/or medals.

7. Attendance

Only those students who have a minimum of 75% attendance shall be permitted to appear for the end semester examination.

8. Assessment

8.1. Continuous Internal Assessment (CIA)

Assessment and evaluation processes happen in a continuous mode. However, for reporting purposes, assessment is periodically divided into two phases identified as Continuous Internal Assessment - CIA-1 & CIA-2.

The performance of a student in a course will be assessed as explained below:

The outline for continuous assessment activities for CIA-1 & CIA-2 shall be as proposed by the respective Departments. This will be based on tests/assignment/viva-voce/seminar/any other. The sum of two CIAs will be taken as final CIA marks. If a candidate absents from CIA, his/her marks will be zero. The Board of Studies shall approve the scheme for assessment and evaluation.

8.2. End Semester Examination (ESE):

There shall be one end semester examination (ESE) of three hours or two hours duration for each lecture-based course, dependent on the number of credits.

For practical examination, the duration shall be fixed for a minimum of 3 hours and maybe extended depending on the course.

The end semester examination is compulsory for all students and evaluated by the deputed faculty members either internal or external or both appointed by the office of the Controller of Examinations.

8.3. Weightages:

For Lecture-based courses (Non-laboratory)

Continuous Internal assessment - 30 %

End – Semester - 70 %

For laboratory-based courses / Practical

Sessional Assessment - 30 %

End – Semester Examination - 70 %

9. Passing Criteria

9.1. A student is considered to have passed the course, only on securing a minimum of 40% in ESE and 50% of marks in aggregate of ESE and CIA put together in both theory and practical examinations separately.

9.2. A student can take end semester examination irrespective of the marks scored in CIA.

9.3. In case a student fails in ESE or absents for the same, the student is said to have not completed the course. The student shall complete the course by reappearing only for ESE component of that course when University conducts the examination. The student carries the marks already awarded in CIA.

9.4. A candidate must score a minimum of 50% each in both theory and practical end semester examinations.

9.5. On successful completion of PG programme, the Institute will issue a final grade card consisting of grades of all courses successfully completed by the student.

10. Makeup Examination for CIA

For students who could not attend CIA due to medical reasons/extraordinary circumstances such as participation in sports or any other extra-curricular activities, CIA exams may be conducted for them separately before the end semester examination.

11. Grading

11.1. Based on the performance, students shall be awarded a Final Letter Grade at the end of each semester in each course and an overall grade in the final semester.

11.2. The letter grades and their corresponding grade points are as follows:

Grade Points	Marks secured for 100	Grade	Qualification
10	90-100	'A++'	Outstanding
9	80-89	'A+'	Excellent
8	70-79	'A'	Very Good
7	60-69	'B+'	Good
6	50-59	'B'	Fair
0	Below 50	'F'	Fail

Calculation of Grade Points

Semester Grade point average (SGPA)

$$\text{SEMESTER GRADE POINT AVERAGE (SGPA)} = \frac{\text{CREDIT INDEX for each semester}}{\Sigma \text{CREDIT}}$$

Cumulative Grade point average (CGPA)

$$\text{CUMULATIVE GRADE POINT AVERAGE (CGPA)} = \frac{\text{CREDIT INDEX of all semesters upto 4}^{\text{th}} \text{ sem}}{\Sigma \text{CREDIT}}$$

11.3. The above grading is done by the office of the Controller of Examinations after considering both internal (Continuous assessment) marks together with end semester marks.

11.4. No student is considered to have completed a course successfully and earned the credits when he/she secures a Letter Grade of 'F'.

12. Declaration of Grade

CGPA	Class
9.00 and above (Single attempt)	Pass; First Class with Distinction
9.00 and above (Multiple attempts)	Pass; First Class
8.00 – 8.99	Pass; First Class
7.00 – 7.99	
6.00 – 6.99	Pass; Second Class
Below 6.00	Fail

13. Grade Card

The grade card issued at the end of each semester to students by the Controller of Examinations office shall contain the following:

- 13.1. The credits for each course for that semester.
- 13.2. The performance in each course is shown by the letter grade obtained.
- 13.3. The Grade Point Average (GPA) of all the courses for the semester.
- 13.4. The Semester Grade Point Average (SGPA) of all the courses studied from the first semester.
- 13.5. The total marks secured by the candidate for each of the courses in which the candidate appeared for the end semester examinations.

14. Eligibility for the award of the Degree

A student shall be declared eligible for the award of the Degree when he/she has fulfilled the following conditions.

- 14.1. Undergone all the **DSC, DSE, SEC, AECC, IDE** and the Extension activity or internship or field trip, summer project, dissertation, etc., if any as prescribed by the Scheme of Examinations.
- 14.2. Successfully completed all the prescribed courses and has earned the required credits as specified in the curriculum of the Programme within the stipulated time, with a minimum CGPA score of 6.0.

15. Department /Division Coordinator and Student Mentoring

- 15.1. Department/Division Coordinator shall be responsible for all the academic and student support services.
- 15.2. Every student will have a member of the faculty of the Department/Division as a **Student Mentor**. All teachers of the department/division shall function as Student Mentors and will have an equal number of students.

16. Revaluation & Retotaling Policy

The University has adopted multiple valuations by examiners either from the same institute or from another institute, appointed by the Vice-Chancellor. Therefore, there is no option for revaluation. However, students may apply for re totaling within a stipulated time upon payment of fee as prescribed by the Controller of Examination.

17. Eligibility for Admission

A candidate who has passed Bachelor Degree from UGC recognized University or equivalent is eligible for admission to a Postgraduate degree programme.

The details of eligibility for the programmes shall be prescribed by the BOS.

The candidate shall pay the prescribed fee for admission.

18. Medium of Instruction

The Medium of Instruction shall be in English for all the Programmes.

19. Conduct

Every student is required to observe discipline and decorum both inside and outside the campus as per the norms of the Institution.

20. Grievance Redressal Cell

Every Department shall have one Grievance Redressal Cell. Students shall report any grievances related to academic matters to the cell. The composition of this cell is as follows:

- Dean (or his/her representative)
- Head of the Department / Coordinators of the Department
- One senior faculty member from each Department/Division

21. Others

The Vice-Chancellor shall decide any issue not specifically mentioned in these regulations.

Annexure -1

SEMESTER I								
Sl. No.	Study Components and Code	Title of the Paper	Hrs/ Week	Examination				Total Credit
				Duration in Hours	CIA	Theory/ Practical Exam	Max. Marks	
1	DSC-1		4	3	30	70	100	4
2	DSC-2		4	3	30	70	100	4
3	DSC-3		4	3	30	70	100	4
4	AECC		2	2	-	50	50	2
5	SEC -1		2	2	-	50	50	2
6	Practical - I		4	3	15	35	50	2
7	Practical - II		4	3	15	35	50	2
Total Marks and Credits							500	20
SEMESTER II								
1	DSC-4		4	3	30	70	100	4
2	DSC-5		4	3	30	70	100	4
3	DSC-6		4	3	30	70	100	4
4	DSE-I #		4	3	30	70	100	4
5	DSE-II		4	3	30	70	100	4
6	SEC-2		2	2	-	50	50	2
	Practical-III		4	3	15	35	50	2
	Practical -IV		4	3	15	35	50	2
Total Marks and Credits							650	26

SEMESTER III								
1	DSC-7		4	3	30	70	100	4
2	DSC-8		4	3	30	70	100	4
3	DSC-9		4	3	30	70	100	4
4	DSE- III #		4	3	30	70	100	4
5	SEC -3		2	2	-	50	50	2
6	Practical-5		4	3	15	35	50	2
7	Practical-6		4	3	15	35	50	2
8		Internship	-	-	-	-	50	2
Total Marks and Credits							600	24
SEMESTER IV								
	Project						300	12
Total (Semester I to IV)							2050	82

Abbreviations:

DSC – Discipline Specific Core.

DSE – Discipline Specific Elective.

AECC – Ability Enhancement Compulsory Course.

SEC – Skill Enhancement Course.

Students may choose any one elective course among the offered choice, specific to the discipline

MODEL QUESTION PAPER

QP CODE:

JSS Academy of Higher Education & Research, Mysuru
(Deemed to be University)

First Semester M.Sc., (Program) (RS-1) Examination - Year

Subject:

Note: Draw neat, labeled diagrams wherever necessary.

Your answers should be specific to the questions asked.

Time: 03 Hours

Max Marks: 70

- I. LONG ESSAYS (Answer any TWO of the following) 2x15=30 Marks**
- 1.
 - 2.
 - 3.
- II. SHORT ESSAYS (Answer any FIVE of the following) 5x6=30 Marks**
- 4.
 - 5.
 - 6.
 - 7.
 - 8.
 - 9.
 - 10.
- III. SHORT ANSWERS (Answer all the following) 5x2=10 Marks**
- 11.
 - 12.
 - 13.
 - 14.
 - 15.

MODEL QUESTION PAPER

QP CODE:

JSS Academy of Higher Education & Research, Mysuru
(Deemed to be University)
First Semester M.Sc., (Program) (RS-1) Examination - Year

Subject:

Note: Draw neat, labeled diagrams wherever necessary.

Your answers should be specific to the questions asked.

Time: 02 Hours

Max Marks: 50

I LONG ESSAYS (Answer any TWO of the following)

2x10=20 Marks

- 1.
- 2.
- 3.

II SHORT ESSAYS (Answer any FIVE of the following)

5x4=20 Marks

- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

III SHORT ANSWERS (Answer all the following)

5x2=10 Marks

- 11.
- 12.
- 13.
- 14.
- 15.
