REGULATIONS, COURSE AND CURRICULUM FOR

POST GRADUATE PROGRAMME

IN

M.Sc. BOTANY & PLANT SCIENCE TECHNOLOGY

AS PER THE REVISED CSS REGULATIONS

(2020 Onwards)

Offered by

National Institute of Plant Science Technology (NIPST)

(Inter School Centre)

(An Institute established for Excellence in Teaching and Research in Plant Science based Eco-technologies)

MAHATMA GANDHI UNIVERSITY

KOTTAYAM, KERALA – 686 560

National Institute of Plant Science Technology (NIPST)

This will be a unique University Institute enrolling students through competitive examinations at the National level in the campus of Mahatma Gandhi University for advanced education in plant science, promoting research in **Interdisciplinary areas of 'Plants and their Environment Relations'** towards developing '**Plant-based Eco-technologies'**. The Institute will inspire students to apply their creative talents to research potentials of the rich botanical wealth of Kerala in the development of globally significant technologies useful in sustainable agricultural, phyto-medicinal, bio-fuel, bio-based industrial and eco-remediation purposes. Instead of keeping science and technology as watertight compartments in conventional programmes, this institute will enable science students to end up their post graduation to a productive research on plant-based eco-technology and entrepreneurship based on the technology that they develop. Overall, the Institute aims at boosting entrepreneurship in the country through productive research in plant science.

The institute will have advanced instrumental as well as experimental facilities for plant scientists to pursue excellence in all branches of plant science and is expected to contribute to the talent pool of researchers and specialized technicians in plant-based technologies. Technologies to be focused in the programme include those for plant medicines, nutraceuticals, sustainable agriculture, Phytoremediation and all kinds of bio-fuels. In addition to advanced research laboratories for the above-mentioned technologies, the institute will have a medicinal garden, field experimental station, regional herbarium and museum of plant resources of the Western Ghats.

Major goal of this programme is to attract academically bright undergraduate and graduate students at National Level to study and do productive research on the vast plant wealth of the country, and to support entrepreneurship in the field. This centre will help students to study and explore the potential plant wealth of the nation; apply creatively and positively plant science for sustainable economic growth of the nation and becoming a leader of eco-technologies in the world.

Functioning independently under the direction of the Vice Chancellor, the institute envisages high priority research and dynamic academic programmes in the interdisciplinary areas of plant and their environment relations and operates through a single window system to expedite targets on time. The institute will conduct an MSc programme in Botany & Plant Science Technology from the academic year 2016-17 onwards.

The MSc programme in Botany and Plant Science Technology is innovative and unique in the sense that it seeks to create a talent pool of highly competent and motivated applied plant scientists who will be capable of applying their knowledge of plants in cutting edge plant-based technologies useful in sustainable agriculture and phytoremediations or bioremediations of environmental problems.

I. Rules and Regulation for the M.Sc. Programme

1. Eligibility

Any student who has bachelor's in Botany or Botany - Biotechnology (double main) with not less than CCPA of 5.00 out of 10.00 in the Core Group (Core + Open + Complementary) under the 10+2+3 systems are eligible to apply for admission to **M Sc program** in **Botany and Plant Science Technology**. SC/ST candidates need only a pass in the qualifying examination. SEBC (Socially and educationally backward class) OEC (Other Eligible Castes) will be given a relaxation of 3% and 5%, respectively in the prescribed minimum marks

Those in the final year of their qualifying examination and awaiting results are eligible to apply for entrance examinations. However, they should have acquired all the requirements of the award of their qualifying degree, including all examinations, dissertation or projects, *viva-voce*, and should produce the complete mark-lists at the time of joining.

2. Annual student intake :10

3. Faculty: The degree for the M Sc Botany and plant ScienceTechnology programme shall be awarded under the Faculty of Science.

4.Minimum Total Credits Required: 80

The Regulations for the M Sc Botany and plant Science Technology programme at National institute of Plant Science technology (NIPST) is in accordance with Regulations for Functional Autonomy and the Credit and Semester System in the University Departments/Schools of Teaching and Research and its amendments.

5. Student Admission: Admission will be made through a common admission procedure (CAP) based on a Common Admission Test (CAT). Admission will be solely based on a rank list prepared as per the score obtained in the common admission test (80%) and interview (20%)

6. Course structure and Credit System

Each course has a certain number of credits which describe its weightage. A student's performance is measured by the number of credits that the student has satisfactorily completed. A minimum grade point average is required to be maintained for satisfactory progress in the course work. Also, a minimum number of earned credits should be acquired in all courses in order to qualify for the degree.

The courses are offered either by direct personal engagement or by pre-recorded video presentation. In addition, some of the courses will be covered by tutorials-discussions, lab tasks, minor and major research projects, assignments, seminars, workshops, preparation of reviews - monographs, resource generation camps, off-campus field/industrial visits and instrumental methods as directed by the institute from time to time.

7. Credit transfer: Credit transfer allows transferring of credits earned by a student from another Institution/University, under specific conditions, for the completion of credit requirements for a programme of Mahatma Gandhi University. Credits transfer is allowed for University approved online courses done in MOOC or SWAYAM. Courses of poor quality and courses that have no relevance to the program concerned will not be considered for credit transfer. All credit transfers are to be approved by an expert committee constituted by the University for this purpose. This committee shall have one senior faculty member from the department concerned and two other academic experts in addition to the chairman. The committee shall go through the details submitted by the student and assess their relevance from the perspective of Mahatma Gandhi University before approving the credit transfer. Credit transfer is not permitted for courses completed before three years. If the Institution/University is following the UGC grade format, the grades will be transferred directly. Otherwise University will decide on the grading for the transferred programmes after verifying all relevant documents.

8. Evaluation

8.1. External & Internal Evaluation

There shall be continuous internal assessment as well as end semester examinations for all the programmes. Evaluation of the first and third semester shall be done by the faculty members of the Department offering the courses of study. End semester Examination of second and fourth semesters will be based on the question paper set by External Examiners. Evaluation of the end semester examination of second and fourth semester, except for practical examinations, shall be conducted by External Examiner and concerned faculty member. External Examiner means a competent person in the specified subject from other Universities/ Institutes. A panel of External Examiners must be prepared based on recommendation of Faculty Council and approval of the same by Vice Chancellor

Indirect Grading is employed for the evaluation of courses. The performance of a student in each course is evaluated in terms of percentage of marks converted to grade points. Students have to secure a minimum attendance of 75% to appear for the end semester examination. A separate minimum of 40% of marks is required in the Continuous Assessment (CA) as well as End semester examination for a pass in a course. Students who fail to obtain minimum of 40% mark in the in Continuous Assessment can request the Faculty council for a chance to improve the marks. The Faculty council may permit the student to secure the minimum mark in CA, by taking written Tests. However, only one chance will be given to improve CA marks

8.2 Revaluation: Revaluation or Scrutiny of answer scripts for the first and third semester is provided. There is no provision for revaluation or scrutiny of answer scripts for the end semester examinations of 2nd and 4th Semesters as double valuation is performed on the scripts. The application for scrutiny and revaluation of answer scripts shall be submitted to the Director within 15 days from the date of publication of the results. The Director, in consultation with Faculty Council may entrust an external expert for revaluation.

9. Question paper setting: The Faculty Council of centre shall prepare the panel of question paper setters for each programme and get it approved by the Vice Chancellor. The Director of the centre will make arrangements for getting the question papers set by external experts approved by the Vice Chancellor. Questions for courses offered in the 1 st and 3rd semesters, will be set by faculty members of the Department and for 2nd and 4th semesters by external examiners. The Faculty Council shall as far as possible recommend teachers of other Universities as external examiners for preparing panel of question paper setters and examiners.

10. Process of Evaluation:

The internal assessment will be a continuous assessment (CA) that accounts for 40% of the evaluation in both theory and practical. The end semester examination will account for the remaining 60% of the evaluation.

End-Semester Examination: The end semester examination will account for 60% of the evaluation. The evaluation of the end-semester examination of the first and third semesters shall be done by the faculty who taught the course. Evaluation of the 2nd and 4th semester courses based on questions set by external question paper setters shall be evaluated by two examiners; one, the external (as far as possible the question paper setter shall evaluate the examination paper as well) and the other, internal examiner.

The double valuation of answer scripts in the second and the fourth semester courses shall be done by external examiners and the concerned faculty respectively as approved by the Faculty Council. The Director of the centre will make arrangements for the evaluation of the answer scripts. The project/dissertation shall be evaluated by two examiners, one of them the faculty member who supervised the project and the other an external examiner to be decided by the Director from a panel recommended by faculty council and approved by the Vice Chancellor. The comprehensive viva-voce must be carried out along with project evaluation.

Continuous Assessment (CA): The student's participation and classroom performance as well as the feedback received from tests, tutorials, assignments and term papers shall form the basis for continuous assessment (CA). It accounts for 40% of the evaluation in both theory and practical. This assessment shall be based on a predetermined transparent system involving periodic written tests, assignments and seminars in respect of theory courses and based on tests, lab skill, records/viva and attendance in respect of practical courses.

The percentage of marks assigned to various components for internal evaluation is as follows:

(a) **Theory**

No.	Components	% of internal marks
i)	Test papers	50%

ii)	Assignments/Book review/debates	25%
iii)	Seminars/Presentation of case study	25%

For each course there shall be at least two class tests during a semester. Average of the best of the marks obtained in the two tests (in the case of more than two tests) or the average of the tests (if there is only two tests) will be counted as the internal test component of CA.

(a)   Practicals

No.	Components	% of internal marks
i)	Test paper	40%
ii)	Lab skill	25%

iii)	Records	25%
iv)	Viva	10%

Test Paper: Valued answer scripts shall be made available to the students for perusal within 10 working days from the date of the tests.

Assignments: Each student shall be required to do 2 assignments/book reviews for each course. Assignments/book review after valuation must be returned to the students. The teacher shall define the expected quality of the above in terms of structure, content, presentation and the like, and inform the same to the students. Punctuality in submission of assignments/records is to be given a weightage in the internal evaluation.

Seminar: Every student shall deliver one seminar as an internal component of every course and must be evaluated by the respective course teacher in terms of structure, content, presentation and interaction. The soft and hard copies of the seminar report are to be submitted to the teacher in charge.

Results of Continuous Assessment:

The results of the CA counter-signed by Director of the centre shall be displayed on the notice board 5 days before the end semester examinations. The marks awarded for various components of the CA shall not be rounded off, if it has a decimal part. The total marks of the CA shall be rounded off to the nearest whole number. Relevant records of continuous assessment (CA) must be kept in the department and that must be made available for verification.

Project Work: There shall be a project/dissertation to be undertaken by all students. The dissertation entails field work, lab work, report writing, presentation and viva voce. The class hours allotted for project work may be clustered into a single slot so that students can do their work at a centre /location for a continuous period. However, appropriate changes can be made by the faculty council in this regard. Project/dissertation shall be carried out under the supervision of a teacher in the parent Centre or any other research institutes or industrial establishment or university departments if they permit the students to do so, after getting permission from the Department Head. In such cases, one of the teachers from the centres would be the Co supervisor/internal guide and an expert from the industry/ research organization concerned shall act as supervisor/ external guide.

External Evaluation of theory answer scripts: The evaluation shall be done after the examination at the earliest, preferably in a centralized valuation. As far as possible bar-coded answer books shall be used to ensure confidentiality. The evaluation of the answer scripts shall be done by examiners based on a well-defined scheme of valuation. End semester evaluation of theory answer scripts shall be conducted and evaluated by one internal examiner for odd semesters. For even semesters, one external and one internal examiner shall do the process of evaluation. That is, there shall be double valuation system of answer books in the 2nd and 4th Semester evaluations. The final marks awarded will be the average of two. If there is a variation of more than 10 % of the maximum marks, the answer books shall be valued by a third external examiner appointed by the Director of the Centre. The final marks to be awarded shall be the average of mark obtained in third valuation and the highest of marks awarded by the other two examiners.

 Process of evaluation of project work:

The evaluation of the project will be done at two stages:
i.   Continuous Assessment: Supervising teacher/s will assess the project and award Marks.
ii.   Final evaluation: Final evaluation will be done by external examiner, based on the work done by the student and a viva voce.
 There is no provision for improving the continuous assessment/ final evaluation of the project.

11. Grading System:

The grading system followed is that of relative grading on a ten-point scale.

The following table indicates the performance range and the relative value of the grades (grade points) on the scale.

Letter Grade	Performance	Grade Point
O	Outstanding	10
A plus	Excellent	9
A only	Very good	8
B plus	Good	7
B only	Above Average	6
C	Average	5
P	Pass	4
F	Fail	0
Ab	Absent	0

Minimum grade for passing in a course or programme:

The minimum CGPA for a specific programme will be 4

The Director shall ensure the regular student feedback of courses, teachers and programme in the prescribed format towards the end of all semesters and the same shall be made available to teachers concerned.

Publication of Results: The results of the End Semester Examination (ESE) shall be published within 30 days from the date of the last examination.

Conferment of the Degree: A candidate shall be eligible for the conferment of the degree only after he/she has earned the minimum CGPA as specified in the scheme of the prescribed programme, within the stipulated period.

12. Reappearance and improvement Examinations:

A student who failed for a course in a semester can register for Reappearance in the forthcoming examination, subject to the conditions set forth in the CSS regulation. Improvement of marks/grades in the forthcoming examination can be done, subject to the conditions set forth in the CSS regulations.

Registration for Improvement: A candidate has to apply for registration for Improvement by paying the requisite fee. Candidates are not permitted to Register for improvement of grades for Individual course. Candidates in the 1st and 2 nd semesters, who have secured SGPA letter grade 'P' or above in the end-semester examination can improve their grade by reappearing for all the semester courses along with the next immediate batch.

In such cases a candidate will be awarded a new grade only if there is an improvement in grade in the new examination; otherwise, the candidate is eligible to retain the grade already awarded. Candidates in the 3rd semester, who have secured the SGPA letter grade 'P' or above in the end semester examination, can improve their grade by reappearing for all the semester courses, along with the 3rd semester supplementary examination being conducted for failed candidates immediately after the completion of end semester examination of Fourth semester. This provision is applicable only for third semester.

Improvement of 4th semester can be done along with the immediate lower batch. If the improvement is meant to obtain minimum CGPA requirement, a candidate has the option to decide which semester (3rd or 4th) is to be improved; however, the grade given to the candidate shall be that obtained for the entire semester improvement examination. 1 st and 2nd semester SGPA cannot be improved after the completion of the 4th semester. Only 3rd and 4 th semester SGPA can be improved after the completion of a programme. The marks/grades awarded for Continuous assessment and that for the Project/dissertation cannot be improved. SGPA secured in the 4th semester can be improved only for the purpose of fulfilling the minimum CGPA requirement.

Reappearance:

Candidates in the 1st and 2 nd semesters who have secured a letter grade of 'F' or 'Ab' in any of the courses can avail two immediate consecutive chances to reappear for examination, course wise, provided the candidate has applied for the same and paid the required fee.

Candidate in the 3 rd semester who has secured letter grade of 'F' or 'Ab' in any of the courses can reappear for exams course-wise in the 3 rd semester supplementary examination, which will be conducted immediately after the completion of End semester examination of Fourth semester, provided the candidate has applied for the same and paid the required fee (fee for supplementary examination of any course shall be full semester examination fee irrespective of number of courses involved).

Candidates who secured the grade of only 'F' or 'Ab' in a course in the 4th semester examination can reappear course wise, along with the immediate lower batch. Candidates who secured the grade of only 'F' or 'Ab' in a course in the 3rd /4th semester examinations will be given two additional chances for course-wise reappearance even after the completion of the programme; but it has to be done within a period of two years after the completion. In such cases a candidate has to apply for the same as a supplementary exam and pay the required fee (Fee for supplementary examination of any course shall be full semester examination fee irrespective of number of courses involved).

13. Re-admission

No students shall be readmitted to the 1st semester. Readmission to other semesters of the programme will have to be recommended by the Head of the Department. The student has to apply for Readmission paying the prescribed fee. The student may be permitted to complete the programme by taking the required number of courses within a maximum period of eight continuous semesters. including the period of his/her programme, provided an amount equivalent to the semester fees for all the intervening semesters have been regularly paid and provided he/she has not been removed from the rolls by issuing a Transfer Certificate. In all cases of discontinuation and readmissions, candidates must submit applications countersigned by the Director to the Registrar and obtain the required statutory order for the same.

Candidates who are readmitted to repeat a course must follow the then existing syllabus for the said programme. They need to attend classes along with new batch of students and should obtain the required percentage of attendance as usual.

14. Grade Card: Grade cards will be issued to the student after the publication of results of each End Semester Examination. The Grade Card will indicate the grades obtained for the courses as well as the semester grade point average (SGPA) which is the weighted average of the numerical value (grade point) obtained by the student in the semester. Weighted average is calculated by dividing the sum of the product of the grade point or numerical value obtained for each course and the credits that it carries by the total number of credits earned. The Cumulative Grade Point Average (CGPA) for the whole programme will be calculated in the same way, which will also be indicated in the Grade Card issued for the Final Semester examinations of the programme. Minimum SGPA in all semesters is not an assurance to minimum CGPA for the entire programme.

Percentage Equivalence of Grade:

Range of % of Marks	Grade Letter	Grade Point
95 - $\leq$100	O	10
85 - <95	A plus	9
75 - <85	A only	8
65 - <75	B plus	7
55 - <65	B only	6
45 - <55	C	5
40 - <45	P	4
<40	F	0
Absent	Ab	0

Calculation of Semester Grade Point Average (SGPA) :

Credit Points for the Course = Credits assigned for the Course X Grade Point secured for the Course. SGPA indicates the performance of a student in a given Semester. SGPA is based on the total Credit Points earned by a student in all the courses divided by the total credits assigned to the Semester.

Note: SGPA is computed only if the candidate passes in all the required courses (gets a minimum required grade for a pass in all the required courses as per the specific curriculum). Securing of SGPA in all semesters may not enable students to secure minimum required CGPA for a pass in the programme.

$$SGPA = \frac{\text{Total credit points earned by the student from all the required courses of a Semester}}{\text{Total credits of all courses required in a semester}}$$

Calculation of Cumulative Grade Point Average (CGPA)

CGPA refers to the Cumulative Grade Point Average weighted across all the semesters (4 Semesters). CGPA is obtained by dividing the total number of credit points earned by the student in all the semesters by the total number of required credits of all the Semesters as per curriculum.

CGPA = (Sum of the Credit Points secured by the student for each semester)÷ (Sum of the Credits assigned to each Semester of the Programme)

CGPA = Total CreditPoints of Semester- S1 + 2 + 3 + 4

Total Credits of Semester- S1 + 2 + 3 +4

Conversion of SGPA/CGPA to Grade

10	O
9.0 - <10	A plus
8.0 - <9	A only
7.0 - <8	B plus
6.0 - <7	B only
5.0 - <6	C
4.0 - <5	P
<4	F
Absent	Ab

Conversion of CGPA to percentage

$$\text{Equivalent Percentage} = \frac{(\text{CGPA obtained}) \times 100}{\text{Maximum CGPA } (=10)}$$

The equivalent percentage shall be represented in a numeric format rounded to two decimal digits accuracy ("99.99") and will not be rounded to the nearest integer.

11. Rank/Position certificate: Rank Certificate shall be issued to the first three positions only. The position certificate shall be given for the 1stten positions based on the CGPA secured by the students. Students who have completed the course by availing the opportunity of reappearance for a course will not be eligible for Rank certificate. If Rank certificate/Position certificate in a prescribed format is demanded by institutions for awarding a specific fellowship/scholarship such as for DST Inspire Fellowship etc, the same may be given for such students as a special case in the prescribed format.

12. Registration with CSS: The list of students registered for each semester programme should be forwarded to the CSS along with original certificates (Degree Certificate + SSLC) immediately after closing of admissions to the programme.

13. Consolidation and Declaration of Results:

All work pertaining to the examinations shall be held in the center under the direct control and supervision of Director. The Director in consultation with the Faculty Council shall monitor the Continuous Assessment/ End Semester Examinations and evaluations or nominate a teacher as the chief examiner who will assist him/her in the matter. The marks awarded for internal assessment will be displayed in the Center's notice board / published in the Centre Website at the end of each semester.

Complaints from students regarding the marks awarded in internal assessment should be reported to the concerned faculty member within 3 working days from the date of publication of the same on the notice board/Website. Thereafter, complaints against internal marks will not be entertained under any circumstance. The pass board of a Centre will consist of selected teachers/ the entire faculty of the Centre concerned and will be constituted by Director in consultation with the Faculty Council. The tabulated grade sheets will be forwarded after each end-semester examination to the office of the Controller of Examinations. The CSS section in the Controller's office will check the Grade card forwarded from the Centre and notify the results after consolidating them and issue statement of credits. On completion of the final semester a consolidated Grade Card showing the details of all the courses taken will be prepared.

The consolidated Grade Card containing the details of all the courses with their titles, credits, grades obtained, the total credits earned, the SGPA and the CGPA will be issued to students.

The nomination of the members of the CSS Academic Advisory Committee will be made by the Vice Chancellor. The committee will be reconstituted every three years. The Academic Advisory committee, apart from coordinating and sorting out inter-school matters pertaining to the CSS, will handle student grievances relating to semester examinations that cannot be resolved at the Department. Only student grievances that cannot be settled by the faculty council of the Department need be forwarded to the CSS Academic Advisory Committee and the Vice Chancellor. Student grievances that cannot be settled by the CSS Academic Advisory Committee and the Vice Chancellor shall be dealt with by the Syndicate. The CSS Committee will also prepare a uniform examination schedule for all the programmes in the university. A common admission schedule for all the Departments in the University will also be prepared by the Academic Advisory Committee. All other work pertaining to the CSS will be conducted at the University Departments/Schools of Teaching and Research.

14. Issuing of certificates:

On completion of a semester (when results are ready) the Heads of Departments of all programmes shall forward tabulated grade sheets along with the minutes of the pass board meeting showing details to the CSS Section; in the case of final semester, consolidated details of all semesters showing total

Important definitions

RegulationsThe regulations are called the regulations for the M.Sc. Programme in Botany & Plant Science Technology offered by the National Institute of Plant Sciences Technology, Mahatma Gandhi University.

Programme: the entire course of study and Examinations.

Duration of Programme: duration of post-graduate programme shall be of 4 semesters.

Semester: a term consisting of a minimum of 90 working days, inclusive of examination, distributed over a minimum of 18 weeks of 5 working days each.

Academic week: a unit of 5 working days in which distribution of work is organised from day 1 to 5th day with 7 contact hours of 1-hour duration in each day. A sequence of 18 such academic week constitutes a semester.

Course: a segment of subject matter to be covered in a semester. Each Course is designed variously under lectures/tutorials/laboratory or fieldwork/ seminar/ project/ practical training/ assignments/ evaluation etc., to meet effective teaching and learning needs.

Credit (Cr): of a course is a measure of the weekly unit of work assigned for that course in a semester.

Course Credit: The total minimum credits, required for completion of M.Sc. programme is **86 Credits** as per university norms

Preparatory/Regular course: a core course that the student admitted to a particular programme must successfully complete to receive the Degree and which cannot be substituted by any other course.

Elective course: a course, which can be substituted, by equivalent course from the same subject option given in the syllabus and a minimum number of elective courses is required to complete the programme.

MOOC Course means Massive Open Online Course.

Open Course means a course offered by a School/Centre/Institute other than the parent department. Every regular postgraduate student is required to choose an open course of 4 credits in the third semester.

Project: a regular project work with stated credits on which the student undergo a project under the supervision of a teacher in the parent department/any appropriate research centre in order to submit a dissertation on the project work as specified. Master level Project work shall be completed by working outside the regular teaching hours under the regular supervision of a teacher in the concerned subject. A candidate may, however, in certain cases be permitted to work on the project in an industrial/Research Organization on recommendation of the supervisor.

There will be an internal assessment and external assessment for the project work. The external evaluation of the Project work is followed by presentation of work including dissertation and Viva-Voce. The title and the credit with grade awarded for the Master level project will be entered in the grade card issued by the university

Tutorial: a class to provide an opportunity to interact with students at their individual/group level to get special training or identify the strength and weakness of individual students.

Seminar: Expected to train the student in broader vision of the subject area and world reality, also aimed to promote self-study by the students

Faculty Advisor: a teacher nominated by a Department Council to coordinate the continuous evaluation and other academic activities undertaken in the Department.

Course Teacher: the teacher who is taking classes on the course

Grade: Grade is a letter symbol indicates the broad level of performance of a student in a course. Each grade is assigned a **'Grade point' (G)** which is an integer indicating the numerical equivalent of the broad level of performance of a student in a course.

Semester Grade point average (SGPA): the value obtained by dividing the sum of credit points (P)obtained by a student in the various courses taken in a semester by the total number of credits taken by him/her in that semester. The grade points shall be rounded off to two decimal places. SGPA determines the overall performance of a student at the end of a semester and everything related to SGPA will be as per CSS norms

$$\text{SGPA} = \frac{\text{Total credit points earned by the student from all the required courses of a Semester}}{\text{Total credits of all courses required in a semester}}$$

Cumulative Grade point average (CGPA): the value obtained by dividing the sum of credit points in all the courses taken by the student for the entire programme by the total number of credits and shall be rounded off to two decimal places.

$$\text{CGPA} = \frac{\text{Total CPts of Semester} - S1 + 2 + 3 + 4 \dots}{\text{Total Credits of Semester} - S1 + 2 + 3 + 4\dots}$$

Minimum CGPA required for the M Sc programme in Botany and Plant Science Technology will be **4**.