



REGULATIONS – 2022

**(For students admitted from the
academic year 2022- 2023 onwards)**

UNDERGRADUATE DEGREE PROGRAMMES

**Bachelor of Science (B.S.)
(Choice Based Flexible Credit System)**

**COLLEGE OF SCIENCE AND HUMANITIES
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY**

**(Deemed to be University u/s 3 of UGC Act, 1956)
Kattankulathur, Chengalpattu District 603203, Tamil Nadu, India**

B.S. Physics- 2022 Regulations

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Vision

To emerge as a World - Class University in creating and disseminating knowledge, and providing students a unique learning experience in Science, Technology, Medicine, Management and other areas of scholarship that will best serve the world and betterment of mankind.

Mission

MOVE UP through international alliances and collaborative initiatives to achieve global excellence.

ACCOMPLISH A PROCESS to advance knowledge in a rigorous academic and research environment.

ATTRACT AND BUILD PEOPLE in a rewarding and inspiring environment by fostering freedom, empowerment, creativity, and innovation.

Regulations –2022 B.S. Programmes (Full Time)

These regulations are applicable to the students admitted from the Academic Year 2022-23 onwards.

The regulations for the B.S. Degree programs are prepared with the recommendation, guidelines and directions from the National Knowledge Commission, University Grants Commission (UGC) on:

- (a) Outcome Based Education Framework (OBE)
- (b) Evaluation Reforms in Higher Education Institutions in India
- (c) National Education Policy (2020)

In addition to the above documents, the best practices of SRMIST such as promoting enhanced learning and research capabilities through (a) Critical Thinking (b) Problem Solving (c) Analytical Reasoning (d) Scientific Reasoning (e) Reflective Thinking (f) Design thinking, (g) Team Work (h) Self-Directed Learning, (i) Life Long Learning etc., are integrated into the Curricula.

Preliminary Definitions and Nomenclature

In these regulations, unless the context otherwise requires:

- i. **‘Degree’** means that academic award conferred upon a student on successful completion of a four-year programme designed to achieve the defined attributes. It is referred to as Under-Graduate (UG) Degree, that is “Bachelor of Science/ Bachelor of Science (Honors)” also known as “B.S./B.S. (Hons)”.
- ii. **‘Programme’** means cohesive arrangement of courses, co-curricular and extracurricular activities to accomplish predetermined objectives leading to the awarding of a degree. It also means branch or discipline of B.S. Degree programme like B.S. Physics, B.S. Chemistry, B.S. Mathematics, etc..
- iii. **‘Course’** means a combination of theory, tutorials and practice sessions of a subject studied in a semester, like Mathematics, Physics, etc.,

Duration of the programme: The programme of study will consist of Eight Semesters

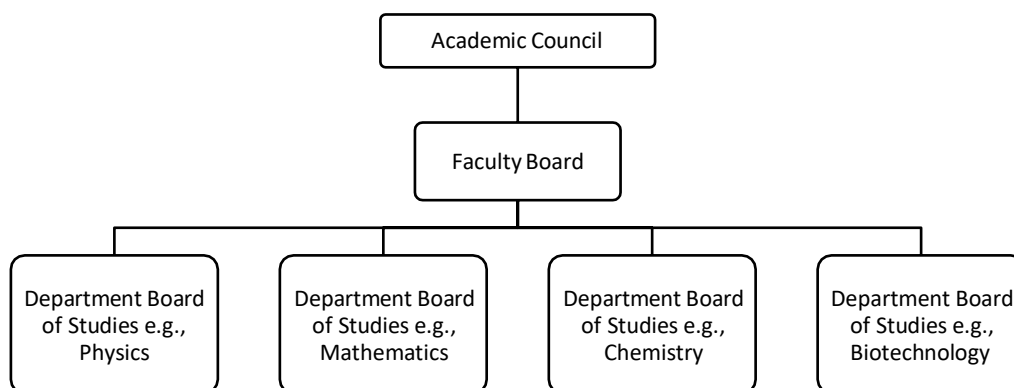
Objectives:

The objectives of offering the B.S. programme are:

1. To enable students to focus towards broad conceptual knowledge of the sciences, with a concentration in one of the sciences with multidisciplinary perspective
2. To encourage depth and breadth in understanding complex issues
3. To provide broad inter-disciplinary training with well sequenced curriculum over a sufficient length of time so as to give students adequate preparation in their chosen field, either for higher studies or professional careers

The Academic Council:

The academic council is the principal academic body responsible for, the maintenance of standards in teaching, research, training, approval of curriculum / syllabus, conduct of examinations etc. The hierarchical academic structure is illustrated below:



The Faculty Board:

The Faculty Board of the Faculty of Science and Humanities recommends / endorses the proposals approved by the BoS of the departments, Centres of Excellence, units, etc and shall forward the same to the Academic Council for approval.

The Department Board of Studies (BoS):

Each department of the College of Science and Humanities will have a Board of Studies common for UG, PG and Doctoral programmes offered by the department. The Dean / Chairperson of the School which comprises of one or more departments, will be the Chairman of the Department Board of Studies and the Head of each Department will be the co-chairman of the BoS. The Board of Studies has been constituted as per the guidelines of UGC. The Rules, regulations, curriculum, syllabus and other academic matters shall be approved by the BoS before placing it to the Faculty Board.

Dean, College of Science and Humanities:

The Dean, College of Science and Humanities is responsible for the implementation of the decisions taken on academic matters by the Academic Council.

The office:

- receives, processes and maintains all records relating to the programmes including curricula, courses offered, academic calendar, registration, leave, assessments, and grades.
- disseminates information pertaining to all academic matters, issues necessary memoranda/orders, and acts as a channel of communication between the students, instructors and Departments.
- Students can get information for various academic programmes, rules and regulations from the office of Dean, College of Science and Humanities.

ACADEMIC SESSION

The academic session normally begins in the last week of June or the first week of July every year and ends in June of the subsequent year. It generally consists of two semesters:

- Odd Semester: July - November
- Even Semester: December - April

During the summer vacation, i.e., (May - June), there may be one short Summer Semester. Only a few courses may be offered during Summer Semester for the benefit of students (a) to clear their failed/dropped courses, (b) transferred from other institutions, (c) pursuing Honours (d) Minor certification (e) under Study Abroad Programme, and (f) who got detained.

ACADEMIC CALENDAR

The exact dates of all important events, such as orientation, registration, late registration, commencement of classes, submission of documents, examinations, submission of grades, vacation, etc., during the academic session are specified in the Academic Calendar of the College of Science and Humanities and are approved by the Academic Council. The Academic Calendar shall be displayed on the SRMIST official website.

R 1.0 Admission

R 1.1 Number of Seats: The number of seats in each branch of the B.S., Programme for which admission is to be made in the College of Science and Humanities will be decided by the Academic Council / Board of Management of SRMIST.

R 1.2 Eligibility for Admission: The minimum eligibility for Admission to B.S., degree programmes (regular) shall be based on the following criteria:

- (a) Should have completed 12 years of schooling (equivalent to the 10+2 system of Indian Education)
- (b) The Minimum Percentage of Marks / CGPA prescribed by SRMIST
- (c) Goes through the laid-down admission procedure
- (c) Rules and Regulations of the UGC/competent authorities.

R 1.3 Medical Standards for Admission: Candidates must fulfil the medical standards required for admission as set out by the Admission Committee.

R 1.4 Fees for Admission: The selected candidate will be admitted to the B.S., programme after he/she fulfils all the admission requirements as indicated in the letter of admission and after making the payment of the prescribed fees within the due date announced.

R 1.5 Authority for Admission: Any matter related to admission to the B.S. programme, the decision of the Admission Committee is final.

R 1.6 Revoking / Cancellation of Admission: _

All students admitted provisionally or otherwise to any programme shall submit copies of their mark sheets, provisional certificates, etc., of the qualifying examination and other documents by the last date specified for the purpose in the Academic Calendar.

The Registrar, on recommendation of the Controller of Examinations or the Dean CSH can cancel the admission of any student who fails to submit the prescribed documents by the specified date or to meet other stipulated requirement(s). The Registrar may also cancel the admission at any later time if it is found that the student had supplied false information or suppressed relevant information while seeking admission and report the matter to the Vice Chancellor.

R 2.0 Eligibility for B.S. Regular programme (4 years):

English is Mandatory in all courses.

Courses Offered	Qualifying Subjects
B.S. (Biotechnology)	10 +2 (Higher Secondary) Biology-Mandatory; Mathematics / Physics / Chemistry / Computer Science / Psychology / Any life sciences subject
B.S. (Mathematics)	10 +2 (Higher Secondary) Mathematics- Mandatory; Physics / Chemistry / Computer Science / Statistics / Biology
B.S. (Physics)	10 +2 (Higher Secondary) Physics-Mathematics Mandatory; / Chemistry / Computer Science / Biology
B.S. (Chemistry)	10 +2 (Higher Secondary) Chemistry- Mandatory; Physics / Mathematics / Biology/ Botany and Zoology

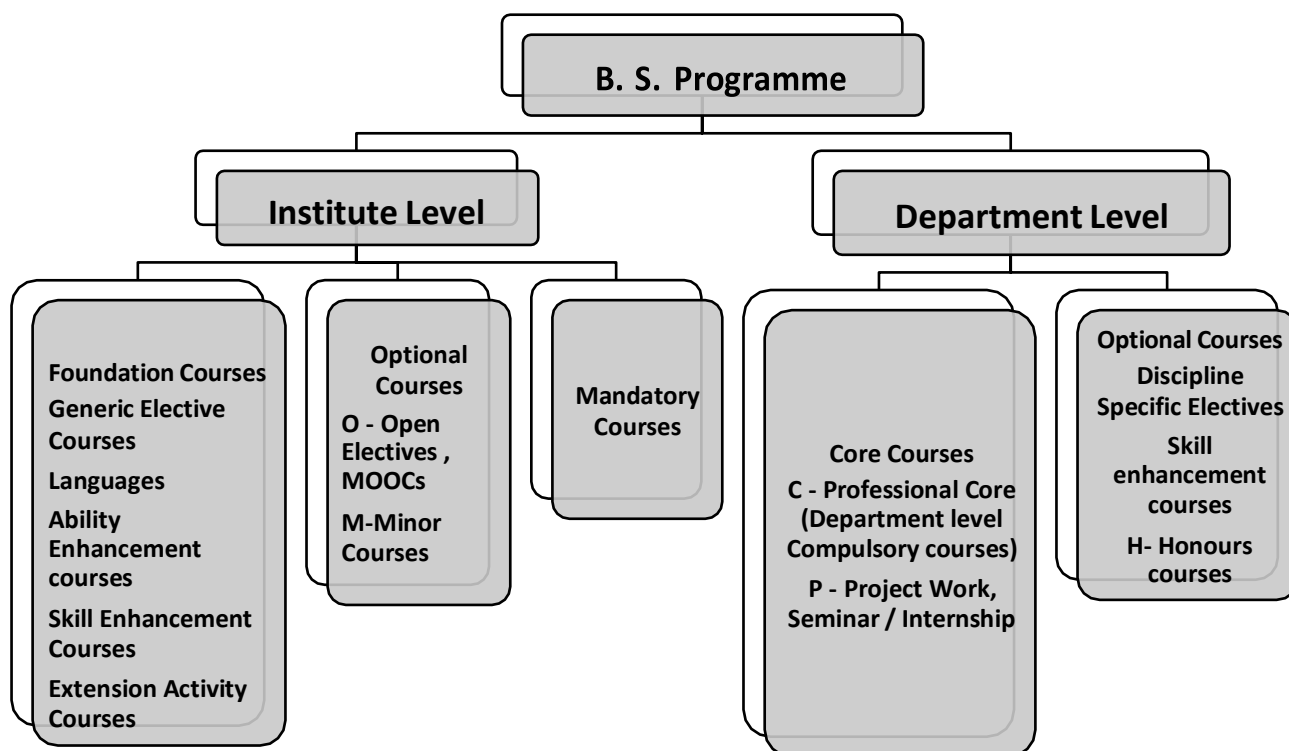
In addition to the above, those students who cleared JEE(Main), JEE (Advance), NEET, SRMJEE will be given preference

R 3.0 Structure (Outline) of the Programme

R 3.1 Applicability of this Regulation:

These regulations are applicable to all B.S. Programmes offered from the Academic Year 2022 – 2023 onwards.

R 3.2 Structure of the B.S. Programme:



The complete B.S. programme of study consists of 8 categories of courses distributed over eight semesters with two semesters per year as listed below

Sr. No.	Category Code	Course Category and Description
1	C	Core Courses: Core Courses corresponding to the branches of study, will include the major discipline oriented compulsory courses to be studied under the UG program.
2	D	Discipline Specific Electives: The department offers specialized courses of their own discipline as electives.
3	G	Generic Elective Courses: Generic courses are specialized courses offered by other departments. Generic Elective Courses comprising Languages and Allied courses will be offered
4	S	Skill Enhancement Courses: Skill enhancement courses include courses offered by the department and Career Development Center
5	P	Project Work: Project Work, Internship in Industry or Research Institutions/Centres.
6	AE	Ability Enhancement Courses: English and Environmental Studies will be offered as Ability Enhancement courses
7	JK	Life Skill (Jeevan Kaushal) Courses: Life Skill (Jeevan Kaushal) Courses are offered as one of the Quality Mandate initiatives undertaken by the University Grants Commission (UGC) to accomplish Quality in Higher Education

R 3.3 Outcome Based Education:

The B.S. programme follow the Outcome Based Education (OBE) guidelines and has well defined:

1	Program Educational Objectives (PEO)
2	Program Learning Outcomes (PLO) which includes Program Specific Outcomes (PSO)
3	Mission of the Department to Program Educational Objectives (PEO) Mapping
4	Program Educational Objectives (PEO) to Program Learning Outcomes (PLO) Mapping
5	Structure of the B.S program
6	Categorization of Courses
7	Program Articulation Matrix

and, every course has well defined:

1	Course Learning Rationale (CLR)
2	Course Learning Outcomes (CLO) – (Outcome based Objectives)
3	Learning Assessment Scheme
4	Course Designer Details

These details are proposed by the respective Board of Studies and approved by the SRMIST Academic Council.

R 3.4 Learning Curriculum:

It prescribes all the courses / laboratories / other requirements for the degree and sets out a typical sequence of study semester-wise. The curriculum is structured as an 8-semester study, in terms of providing multidisciplinary and holistic education with the rooting in culture and ethos of the national and emphasises on research, skill development and higher order thinking skills to promote innovation and employability.

R 3.5 Learning Credits: Learning Credits are earned by the learner based on the following pattern:

Learning Environment	Learning Credit (C)
1 Hour* Learning from a Lecture Session per week (L)	1
1 Hour* Learning from a Tutorial Session per week (T)	1
1 Hour* Learning from a Practice Session per week (P)	0.5

(*1 Hour of Learning is usually 50-60 minutes period)

R 3.6 Curriculum and Course Content Approval:

The programmes will have a curriculum and course content (syllabi) proposed by the Boards of Studies and approved by the Academic Council.

R 3.7 Minimum Learning Credits for the award of Degree:

The curriculum of any branch of the B.S. programmes is designed to have a minimum of **164 credits for the award of the B.S. degree** and **176 credits for the award of the B.S. (Hons) degree**

R 3.8 Medium of Instruction:

The medium of instruction, examination and project reports will be English

R 3.9 Massive Open Online Courses (MOOCs): SRMIST strongly encourages the use of SWAYAM (Study Web of Active Learning by Young and Aspiring Minds) platform. The students are encouraged to choose any elective course from SWAYAM on the recommendation of the faculty advisor and the credits will be transferred. In case of failure to clear the course, the same or an alternative elective course offered from SWAYAM has to be chosen on the recommendation of the faculty advisor.**R. 3.9.1 Academic Bank of Credits (ABC)**

In line with National education Policy 2020, Academic Bank of Credits will be implemented as per the University Grants Commission (Establishment and Operation of Academic Bank of Credits in Higher Education) Regulations 2021.

R 3.10 Internship and Project:

Internship: Students shall undergo Internship (either in an Industry [or] Industrial setting [or] in a Research Centre [or] in a Laboratory within SRMIST) for duration of 4 to 6 weeks during the summer vacation after VI semester. At the end of the internship, the student shall submit a report and make a presentation which will be assessed by a committee constituted for this purpose by the head of the department.

Project Work:

Every student shall initiate his / her Project related to his / her area of specialization in seventh semester as Project Phase-I and continue his / her work in eight semester as ProjectPhase-II Project Work shall be done by the student either:

- a) in any of the Funded Projects / Research Centers / Incubation Centers within SRMIST [or]
- b) within the Department Labs under the guidance of a Research Supervisor [or]
- c) in an Industry / Industrial setting /Research Centre outside SRMIST duly approved by the Department Project Work Committee.

After completion of the Project Work, the student shall submit a Report/Dissertation/Thesis and make a presentation which will be duly assessed by the Department Project Work Committee.

R 4.0 Registration and Enrolment for Courses

- a. The process of signing up for courses is called registration. Students are enrolled after they pay the prescribed fees. For a student to attend classes he/she has to complete both registration and enrolment.
- b. All students shall formally register for the courses in every semester to undergo course work.

R 4.1 Course Enrolment Requirements:

Enrolment for all courses prescribed as per the curriculum is mandatory.

- a. Registration of any course will be controlled by the concerned Head of the department.
- b. The registration sheet contains the course number, course name, number of credits and category for each course taken in that semester. The student will make the choice of courses on his own or in consultation with his/her Faculty Advisor.
- c. For the first semester registration shall be completed within a week prior to the commencement of classes.

- d. For all other semesters, the registration will be done during a specified week immediately after the end-semester examination of the previous semester.
- e. Late enrolment would not be encouraged. In case of a late enrolment, special permission is required from the respective Heads of Department and should be done not later than two weeks from the commencement of classes.

R 4.2 Break in Studies:

A student will not be allowed to enrol for current semester and has to undergo a year of break in studies if he/she:

- a. Has been 'Debarred from study' due to any stipulated reason in the previous semester.
- b. Has any 'Pending Disciplinary Actions' against him/her from the previous semesters

During the Break of Studies, a student:

- i. Cannot attend any regular classes
- ii. Will not be permitted to stay in the 'Hostel' facility provided by SRMIST
- iii. Will not be permitted to participate in any of the SRMIST's activities inside the campus.
- iv. Can reappear for the 'End Semester Final Examination' for such courses in which he/she might have obtained 'F' / 'Ab' grade.

R 4.3 Enrolment After Break in Studies:

A student who undergoes a break in studies in the current semester (odd/even) can 'Enroll Back to Study' into the Programme only in the subsequent corresponding (odd/even) semester in the next academic year.

R 4.4 Eligibility for Enrolment:

A student will be eligible for enrolment only if he/she satisfies the enrolment requirement specified in R.4.0 and will be permitted to enroll only if he/she has cleared all dues to the SRMIST, Hostel, Library, NCC etc. up to the end of the previous semester, provided he/ she is not debarred for enrolment as a result of any disciplinary action of the SRMIST.

R 4.5 Maximum Duration for completion of the Programme:**R.4.5.1 Semester Duration:**

Each semester shall normally consist of 75 working days or 450 hours. A student is ordinarily expected to complete the programmes in EIGHT full-semester for regular programme. However, a student may complete the programme at a slower pace by taking more time but in any case, not more than TWELVE semesters. This mentioned time duration is counted excluding Temporary Break of study on medical grounds etc as per R.5.1 and including Break in Study.

R 5.0 Temporary Break of Study from a Programme:**R.5.1 Temporary Break**

A student may be permitted by the Head of the Institution to withdraw from the programme for a semester or longer for reasons of ill health or other valid reasons. Normally a student will be permitted to discontinue from the programme only for a maximum continuous period of two semesters or the aggregate of individual discontinuation not exceeding two semesters. He/she shall apply to the Head of the Institution in advance but not later than the last date of registering for the end semester examinations of the year in question. Such applications should be routed through the Head of the department and the Head of the institution stating the reason for break of study.

R.5.2 Rejoining after temporary Break: The Candidate who intends to rejoin the programme after the break shall submit rejoin application in the next academic year through the Head of the department and the Head of the institution.

R 5.3 Rules Governing:

The Candidate who rejoins after the break shall be governed by the rules and regulations in force at the time of rejoining.

R 5.4 Change in Duration:

The duration specified for passing all the courses for the purpose of classification vide shall be increased by the period of such break of study permitted.

R 5.5 Period of Study:

The total period for completion of the programme should be reckoned from the commencement of the first semester to which the candidate was admitted and shall not exceed the maximum period specified in clause R.4.0 irrespective of the period of break of study in order that he/she may be eligible for the award of the degree.

R 5.6 Detention Cases:

If any student is detained for want of requisite attendance, progress and good conduct, the period spent in that semester shall not be considered as 'Break of Study' and this clause is not applicable for the detention cases.

R 6.0 Academic Advising:**R 6.1 Academic Assistance:**

In order to provide academic assistance and individualized attention to students, different levels of advising/attention will be provided by three types of officers. (1) Academic Class Advisors (2) Student Counsellor (3) Faculty Advisors.

Academic Class Advisors:

For every class (comprising of sections), an Academic Class Advisor would be allocated to help the student evaluate and realize educational and career options. In all of these matters, the Academic Class Advisor or the advisement team must judge whether the student's request is in order, is in the student's best interest, and is feasible under existing regulations.

R 6.2 Faculty Adviser:

To help the students in planning their courses of study and for getting general advice on the academic programme, the concerned Department will assign for every class a faculty member who will be called the Faculty Adviser.

R 6.3 Student Counsellor:

In order to motivate the students personally and provide counselling on academic and non-academic matters, a faculty member called Student Counsellor shall be assigned.

R 7.0 Discipline:**R 7.1 Expected Conduct and Discipline:**

Every student is required to maintain discipline and decorum behavior both inside and outside the SRMIST campus and not to indulge in any activity that will tend to bring down the prestige of the institution.

R 7.2 Act of Indiscipline:

Any act of indiscipline of a student is first to be considered by the Discipline and Welfare Committee of the Department for necessary action. If the issue demands more serious consideration, the act of indiscipline will be reported to the concerned Head of the Institution, and he will refer it to the Discipline and Welfare Committee of the SRMIST, constituted by the Vice Chancellor.

R 7.3 Enquiry:

The Committee will enquire into the charges and recommend suitable action if the charges are substantiated. The concerned Head of the Institution will take appropriate action on the recommendation of the Discipline and Welfare Committee.

R 7.4 Suspension:

The concerned Head of the Institution may suspend a student pending inquiry depending upon the prima facie evidence.

R 7.5 Appeal:

The student may appeal to the Vice Chancellor whose decision will be final and binding.

R 8.0 Attendance:

The student may appeal to the Vice Chancellor whose decision will be final and binding.

R 8.1 Attendance Definition:

Attendance is the physical presence of the student in the class. It is a well-observed fact that the students who score good grades are those who attend classes and participate in all the assigned learning activities in the class / laboratory / field work regularly. Therefore, the students must strive to attend all the classes and sincerely participate in all the assigned learning activities without fail.

R 8.2 Attendance Marking

Every teaching staff member handling a class will take attendance till the last instruction day in the semester.

R 8.3 Minimum Attendance:

A student must maintain an attendance record of at least 75% in all courses added together. Without the minimum attendance of 75%, students become ineligible to write the end semester examination. The students must strive to attend all the classes without fail. However, the minimum attendance requirement of 75% allows a student the facility to use the balance 25% to account for illnesses, permitted assignments such as job interviews, inter-university sports meets, inter-collegiate/inter-university competitions, accidents, unforeseen emergencies etc. An attendance of 75% is considered to be the minimum required for a student to get just enough input on the course syllabus through class room contact hours to make him/ her eligible to appear in the end semester examination.

R 8.4 Attendance Shortage and Examination:

The teacher shall announce the particulars of all students who have attendance less than 75% in the class. Copies of the same should also be sent to the concerned Head of the Institution, and Heads of Departments concerned. The students who have less than 75% attendance will not be permitted to appear in end semester examination.

R 8.5 Condonation of Attendance:

In rare and genuine cases, a committee consisting of the concerned Head of the Institution and Head of the concerned Department will examine the case and recommend suitably to the Vice Chancellor, who may give condonation of attendance in deserving cases, but not more than 10%.

R 8.6 Repeating semester:

Those students who have not deemed to have completed the semester with reference to the conditions specified above shall repeat that semester in the next academic year by following the readmission/rejoin procedure.

R 9.0 Class Committee:

Every class (comprising of sections) of the B.S programme will have a Class Committee consisting of Faculty and Students. The class committees for the Department programme of each semester will be constituted by the Head of the concerned Department.

R 9.1 Constitution of the Class Committee:

The constitution of the Class Committee for the Department programmes of each semester will include the following members:

- All teachers handling the Courses
- Four students from the class to be chosen by the students of the class.
- Faculty Adviser(s) of the respective class.
- One senior faculty, preferably an Assistant Professor of the concerned Department and not associated with teaching of the class, to be nominated by the concerned Head of the Department, to act as the Chairperson of the Class Committee.

R 9.2 Responsibilities:

The basic responsibilities of the Chairperson of the Class Committee:

- To review periodically the progress of the classes.
- To discuss problems concerning curriculum and syllabus, the conduct of the classes as well as non-academic issues concerning students.
- To define the method of assessment in the courses in consultation with class committees and announcing to the students at the beginning of the semester.
- To organize the class committee meeting atleast twice a semester, one at the beginning of the semester and one after the second cycle test.
- To prepare the minutes of the meeting with the assistance of faculty advisers and duly signed by the HOD, sent the same to the concerned Head of the Institution within 7 days from conduct of the meeting. The minutes shall also be circulated to the class committee members and displayed in the notice board.

R 10.0 Learning Assessment Procedure:

R 10.1 Mode of Instruction:

The mode of instruction shall be through physical mode the guidelines of the statutory bodies or the Government. The annual tuition fee for the programme remains the same irrespective of the mode of instruction.

R 10.2 Assessment Design:

The learning of a student is assessed and evaluated in-house by the course facilitating faculty member/ department except in the case of project work where an external examiner shall be nominated for conducting the viva voce. All assessments are designed based on Revised Bloom's Taxonomy levels of thinking and learning. (Anderson, Lorin W, Krathwohl, David R, "A Taxonomy for Learning, Teaching and Assessing: a revision of Bloom's Taxonomy", Longman Publishing, New York, 2001).

R 10.3 Types of Learning Assessments:

The student's learning in each course, in general, is assessed (formative) and evaluated (summative) based on in-semester continuous learning assessment (internal assessment) and end-semester final examination. An in semester continuous learning assessment (also known as internal assessment / comprehensive assessment) is spread through duration of the course and is done by the faculty member facilitating the course. In order to verify the different skills acquired in a student, the continuous learning assessments are (as appropriately) performed through:

- Oral Learning Assessments
- Written Learning Assessments
- Demonstrative Learning Assessments

The end-semester final examination shall have learning assessments from the following perspectives with respect to all courses:

- Evaluation with respect to knowledge
- Evaluation with respect to Understanding
- Evaluation with respect to skill
- Evaluation with respect to Applications and/or
- Higher Order Thinking Skills

R 10.4 Learning Assessment Weightage:

The learning assessment weightage in percentages for every course is provided for each course in the respective course syllabus, and follows the template:

Level	Blooms Level of Thinking	Continuous Learning Assessment(50% weightage)								Final Examination (50% weightage)	
		CLA-1 (10%)		CLA-2 (10%)		CLA-3 (20%)		CLA-4 (10%)			
		Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice
1	Remember	%	%	%	%	%	%	%	%	%	%
2	Understand	%	%	%	%	%	%	%	%	%	%
3	Apply	%	%	%	%	%	%	%	%	%	%
4	Analyze	%	%	%	%	%	%	%	%	%	%
5	Evaluate	%	%	%	%	%	%	%	%	%	%
6	Create	%	%	%	%	%	%	%	%	%	%
	Total	100 %		100 %		100 %		100 %		100 %	

Note: For a Pure Theory Course, the Practice Part would be zero and similarly for a Pure Practice Course, the theory part would be appropriately zero.

- The ratio between Continuous Learning Assessments and Final Examinations for all courses is 50:50.
- A student should definitely attend the Final Examination to be eligible to "Pass" the course.

- c) For a student to PASS in a course, he/she has to score a minimum of 40% marks in aggregate and 40% in external (minimum).
- d) For the Theory Part of a course or a pure theory course; Continuous Assessments CLA-1 (normally in two learning units / modules or as prescribed by the Course Coordinator), CLA-2 (in two learning units / modules not covered in CLA-1 or as prescribed by the Course Coordinator) and CLA-3 (in all the five learning units / modules) are generally conducted as Written Tests of duration 90 minutes, 90 minutes and 180 minutes respectively each and the final examination is conducted for 180 minutes.
- e) For the Practice Part of a course or a pure Practice course; Continuous Learning Assessments CLA-1, CLA-2 and CLA-3 are generally conducted at periodic intervals, and for certain courses that need learning verification of oral and skill demonstrative abilities, there would be appropriate oral tests and tests for demonstrations, such as online aptitude tests, classroom activities, case studies, poster presentations, power-point presentations, mini talks, group discussions, mock interviews *etc.*
- f) CLA-4 is generally a combination from among one or more of these options:

Assignments	Surprise Tests	Seminars	Multiple Choice Quizzes
Tech. Talks	Field Visits	Self-Study	NPTEL/MOOC/Swayam
Mini-Projects	Case-Study	Group Activities	Online Certifications
Presentations	Debates	Conference Papers	Group Discussions

- g) Student learning from the theory and practice portions in a course shall be assessed by assigning a weightage of 50% for theory component and 50% for practical component. Grading shall be done for the consolidated mark.
- h) For the Practice Part (Laboratory/Practical) of a course or a pure Practicals (Laboratory/Practical) course; due weightage for carrying out experiments, such as observations, collection of data, analysis, interpretation of results, inferences and also timely submission of record work done would all carry due weightage based on the type of laboratories and the course and constitute the CLA-1, CLA-2, CLA-3. The nature of the end semester final examination shall be informed to the students at the commencement of the course.
- i) The Final examination (both theory and practice (Laboratory / Practicals) would be conducted only after the last working day of the semester.
- j) **Final Semester Project Work:** The projects undertaken as far as possible should be socially relevant. Projects can be carried out by individual students or by a group of students with a maximum of THREE students in a group.
- k) The assessment method for the project work consists of in-semester and end semester evaluations as detailed below:

	Continuous Learning Assessment (50% weightage)		Final Evaluation (50% weightage)	
	Review – 1	Review – 2	Project Report	Viva-Voce
Major Project/Project/ Internship	20%	30 %	30 %	20 %

R 10.5.1 NCC/NSS/NSO/ Yoga:

The assessment process for courses like NCC / NSS / NSO / Yoga is based on the participation, involvement and contribution of students in the activities scheduled. The maximum mark is 100.

Assessment Tools	Marks
Activities (Participation, involvement and contribution)	100

R 10.5.2 Community Outreach/My India project:

At the end of the training/community connect, the student shall submit a report to the department and make a presentation during the 4th semester, which will be assessed by a committee constituted by the department or school. (Assessment Method – Fully Internal)

Components	Marks
Review – I (Activities)	50
Review – II (Project report and Presentation)	50
Total	100

R 10.6 Uniform Assessment for Fully internal Courses:

The learning assessment weightage in percentages for fully internal courses is provided for each course in the respective course syllabus, and follows the template:

Level	Blooms Level of Thinking	Continuous Learning Assessment (100% weightage)							
		CLA-1 (20%)		CLA-2 (20%)		CLA-3 (40%)		CLA-4 (20%)	
		Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice
1	Remember								
2	Understand	%	%	%	%	%	%	%	%
3	Apply								
4	Analyze	%	%	%	%	%	%	%	%
5	Evaluate								
6	Create	%	%	%	%	%	%	%	%
	Total	100 %		100 %		100 %		100 %	

Note: For a Pure Theory Course, the Practice Part would be zero and similarly for a Pure Practice Course, the theory part would be appropriately zero.

R 11.0 Registration for End Semester Examination:

R 11.1 Exam Registration:

Registration for End semester Examination is mandatory for every semester with all courses including all Arrears.

R.11.2 Conduct of examinations:

The examinations at the end of the particular semester will be conducted for the courses of all odd and even semesters..

R.11.3 Award of Course Grade:

A student should have appeared for the end-semester examination of the prescribed course of study to become eligible for the award of the grade in that course.

R.11.4 Examiners:

The examinations at the end of the particular semester will be conducted for the courses of all odd and even semesters. For all theory courses, Question papers will be set by external or internal examiners. All practical examinations including project work, viva voce will be conducted by internal and / or external examiners appointed by the institution. For all theory courses, Question papers will be set by external or internal examiners as appointed by the COE.

R.11.5 Maximum Marks:

The maximum marks for any course (theory or practical excluding project work) will be 100 comprising of 50 marks for internal assessment and 50 marks for the end semester examinations.

R.11.6 Marks for project work / Internship:

For project work / Internship, the total marks will be 100 comprising of 50 for in-semester assessment and 50 for end-semester assessment. Project viva board constituted by Head of the Department will evaluate the dissertation and conduct viva-voce examination.

R.11.7 Passing Requirements

R.11.7.1 A student who secures not less than 40% of total marks prescribed for any course with a minimum of 40% of the marks prescribed for the end semester examination shall be declared to have passed in the examination for that course.

R.11.8 Procedure in Event of Failure/Absent

R.11.8.1 Students who have secured 'F'(Fail) / 'Ab' (Absent) grade in a particular course (Other than project work) can reappear when the end semester examination for that course is conducted during the subsequent semesters. He / She should continue to register and reappear for the examination till he/she secures a pass grade.

R.11.8.2 However, if a student obtains 'F'(Fail) / 'Ab' (Absent) grade in a course in the **first two attempts, from the third attempt onwards, full weightage (100%)** shall be assigned to marks scored in the end semester examinations and the internal assessment marks they have scored during the regular course of study will be ignored.

R.11.8.4 In the event of failure in project work, the student will re-register for project work and redo the project work in subsequent semester and resubmit the dissertation a fresh for final evaluation. The internal assessment marks will be freshly allotted- in this case.

R.11.8.5 If a course has theory and practical components combined, then the student shall appear in the end-semester examination for both theory and practical components duly.

R.11.8.6 A student who obtains 'F' (Fail) / 'Ab' (Absent) grade in a purely internal assessment course will have to enroll and continue the course of study and earn the new marks in the subsequent semesters (as per R.10) till he/she secures a pass grade.

R.11.8.7 If a student fails in theory course in Semester VIII, he/she can apply only final semester courses for supplementary examination within a time period from the date of declaration of VIII Semester result on payment of prescribed fee through proper application to the Controller of Examinations forwarded through the Head of the institution. The result of the supplementary examination will be published at the earliest so as to enable the student to continue his/her career without any disruption.

R.11.8.8 All applicable fees charged for the purpose of examination will apply for re-appearance courses as well.

R.12.0 Course Wise Grading of Students**R.12.1 Letter Grades and Grade Points (GP)**

Letter Grades and Grade Points (GP) are earned by the student for each course based on the aggregate of marks obtained through continuous learning assessments and end-semester final examination. The letter grades and the corresponding grade points, as recommended by UGC, are as follows:

Letter Grade	Grade Points	Range of Marks
O (Outstanding)	10	91 to 100
A+ (Excellent)	9	81 to 90
A (Very Good)	8	71 to 80
B+ (Good)	7	61 to 70
B (Above Average)	6	51 to 60
C (Average)	5	41 to 50
P (Pass)	4	40
F (Fail)	0	<40 Failure due to insufficient marks in the course
Ab (Absent)	0	Failure due to non-appearance in examination

R 12.2 Method of Awarding Letter Grades:

The internal marks awarded to the students are first normalized and combined with the normalized marks of end-semester final examination. Subsequently letter grades are awarded for the normalized marks as indicated in the table under section R12.1. The detailed methodology of normalization of internal marks as well as marks in the end-semester final examinations shall be formulated by the Controller of Examinations. To 'Pass' a course with earnable credits a student has to score a minimum of 40% of the total normalized marks secured in both the continuous learning assessments and the end-semester final examination.

R 12.3 Mandatory non-credit courses:

For mandatory non-credit courses/Audit courses the letter grade and grade points not be counted for the computation of SGPA/CGPA.

R 12.4 Successful completion:

A Student is considered to have successfully completed a course and earned the credits if he / she secured a letter grade other than F or Ab in that course. A letter grade F or Ab in any course implies failure and appearance of that course. A course successfully completed cannot be repeated.

R12.5 Grade Sheet:

The grade sheet issued by the Controller of Examinations to each student, after the announcement of the results will contain the following:

- The credits for each course registered for that semester,
- The letter grade obtained in each course
- The total number of credits earned by the student up to the end of that semester in each of the course categories
- Semester Grade Point Average (SGPA) of the current semester
- The Cumulative Grade Point Average (CGPA) of all the courses taken from I semester onwards for regular students.

R12.6 Computation of Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA)

- The SGPA will be calculated according to the formula

$$SGPA = \frac{\sum_{i=1}^n C_i \times (GP)_i}{\sum_{i=1}^n C_i}$$

Where C_i = credit for the i^{th} course, $(GP)_i$ = the grade point obtained for the i^{th} course (refer R.12.6) n = total number of courses and the sum is over all the courses taken in that semester, including those in which the student has secured 'F' and 'Ab' grades.

- For the cumulative grade point average (CGPA) following formula is used:

$$CGPA = \frac{\sum_{i=1}^I S_i \times (SGPA)_i}{\sum_{i=1}^I S_i}$$

$$\sum_{i=1}^I S_i$$

where S_i = Sum of credits in i^{th} semester, $(\text{SGPA})_i$ = Semester Grade Point Average earned in i^{th} semester and r = number of semesters and the sum is over all the semesters under consideration.

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

R.12.7 Classification of the Degree Award:

Class / Distinction will be awarded to the students after they successfully complete the B.S. /B.S. (Hons) programmes as per norms given in the following table:

Category	CGPA (From I-VIII semesters)	Class
Students who successfully complete B.S./B.S. (Hons) programmes within the time duration of 8 semesters.	$\geq 4 \text{ \& } < 5$	Third Class
	$\geq 5 \text{ \& } < 6$	Second Class
	$\geq 6 \text{ \& } < 8$	First Class
	≥ 8 (without 'F' or 'Ab' or temporary withdrawal-R5.1 in any semester)	First Class with Distinction
	≥ 8 (with 'F' or 'Ab' in any semester but obtained pass grade (O to P subsequently) (R.8.6)	First Class
Students who cannot complete B.S./B.S.(Hons) Programme in 8 semesters but complete it successfully within the time duration of 9 semesters	$\geq 4 \text{ \& } < 5$	Third Class
	$\geq 5 \text{ \& } < 6$	Second Class
	≥ 6	First Class
Students who cannot complete B.S./B.S. (Hons) Programme in 9 semesters but complete it successfully within the time duration of 12 semesters	$\geq 4 \text{ \& } < 5$	Third Class
	≥ 5	Second Class

R.12.8 Academic Dishonesty:

When a student is found responsible for a violation of the SRMIST code of conduct pertaining to academic dishonesty (Malpractice in Examinations), the Office of Controller of Examinations will initiate action based on the pre-approved procedures. Appropriate penalty or punishment will be awarded to the student and communication sent to the concerned Head of the Institution. The matter will be informed to the student's parents/guardian duly.

R.13.0 Eligibility for the Award of the Degree

R.13.1 Award of Degree:

A Student shall be declared to be eligible for the award of the B.S./B.S. (Hons) Degree provided if,

- Registered and successfully completed the courses and projects as per the curriculum and obtaining an aggregate of learning credits totaling **164 credits for B.S.** and **176 credits for B.S. (Hons).**

- b) The student has successfully completed the course requirements and has passed all the prescribed examinations in all the eight semesters within a maximum period (as per R 4.5.1) reckoned from the commencement of the first semester to which candidate was admitted.
- c) No disciplinary action is pending against the student.

R.13.2 Registration for Honors

Students who consistently maintain CGPA 7.5 and above along with no history of arrears **until Semester V** are eligible to enroll from semester VI onwards. **The student is required to earn additional 12 credits from professional core courses in the curriculum other than regular core courses prescribed for B.S.**

R.13.3 Withdrawal of Honors

In the case of student who wants to withdraw from honors, he should inform the authority within ten days of result declaration. **If the student fails to inform the authority, the details of the courses enrolled for honors will be mentioned in the grade card/consolidated mark sheet.** The final degree certificate will be given **as per R.12.7.**

R.13.4 Minor Registration and certification

- (i) Minor is an option rather than a requirement for B.S students. They may opt for one of the science or Non-science discipline as Minor, earning additional credits minimum of 16.
- (ii) This additional certification is for students who pursue Major in a discipline but would still like to pursue their passion in another discipline or to enrich/equip themselves for a specific profession where greater job opportunities exist. Another advantage of opting for a Major with a Minor is to earn standing credits for pursuing specialized research in R&D centers in India or abroad
 - a) In order to successfully complete a Minor, a student must earn a minimum of 16 credits over and above the maximum credits required for his / her regular (Major) field of study.
 - b) The student who opts for a Minor and satisfies the credit requirements as per the regulations, will be awarded a Certificate in Minor in addition to the Degree in Major or Degree in Major with Specialization, as the case may be.
 - (iii). Those who are successfully completing four years BS program will be eligible for minor certification.

Only students who satisfy a set of minimum eligibility criteria set forth by the university and meet certain pre-requisites, will be permitted to opt for a Minor. A student will be permitted to pursue a Minor, if and only if, he / she fulfils the following criteria:

- a) Must have secured a minimum of 6.5 CGPA upto semester-IV
- b) There must NOT be any standing arrears / Backlogs.
- c) Must be in the active rolls of the department without any break of study or disciplinary action pending against the student
- d) Must have NO outstanding fee dues

For more details, one can refer to the separate regulations for Minor.

R.14.0 Deviation in Procedure:

Whenever there is a deviation from procedures as warranted by the unique nature of the course, the same will be specified by the concerned Course Coordinator and approved by the concerned Head of the Institution.

R.15.0 Revision of Regulation and Curriculum

The Institution may from time to time revise, amend or change the regulations, scheme of examinations and syllabi as found necessary with the approval of the Academic Council of SRMIST.

Annexure

End-semester Assessment – Question Pattern

Time: 3 hours and Max Weightage: 50 %.

1. Pattern of Question Paper (Theory)

(i). Question Pattern (For Tamil, Hindi, French and English)

Section-A (4 x 10 = 40 Marks)

Section-B (6 x 5 = 30 Marks)

Section-C (3 x 10 = 30 Marks)

Total Mark = 100

(ii). Question Pattern (For other courses)

Section-A (10 x 2 = 20 Marks) - Two questions from each unit

Section-B (5 x 16 = 80 Marks)-One Internal Choice question from each unit

Total Mark = 100

(iii). Marks secured by the candidate will be converted to 50 to make the aggregate 100, while adding with continuous Internal Assessment 50.

2. Pattern of Question Paper (Practical)

Time: 3 hours and Max Marks: 50.

(i). The External Examiner will set a question paper after discussing with the Internal Examiner (Selective Courses).

(ii). The External Examiner will conduct viva voce based on the record work submitted by the student.

(iii). Marks secured by the candidate will make the aggregate 100, while adding with continuous In-semester Assessment 50.