B.S. Abdur Rahman

Crescent
Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

Regulations 2021

Minor Degree Programmes
(for B.Tech.)

REGULATIONS 2021

for

MINOR DEGREE PROGRAMMES
(for B.Tech.)

Note: This regulation is to be read with B.Tech. Regulations,2021.

REGULATIONS - 2021
MINOR DEGREE PROGRAMMES
(Under Choice Based Credit System)

1.0 PRELIMINARY DEFINITIONS & NOMENCLATURE

In these Regulations, unless the context otherwise requires:

i) **"Programme"** means minor degree in engineering specialization.

ii) **"Branch"** means specialization or discipline of minor degree programme like Artificial Intelligence & Machine Learning, Block Chain, etc.,

iii) **"Course"** means theory / practical / laboratory integrated theory / project and any other subject that is normally studied in a minor degree programme.

iv) **"Institution"** means B.S. Abdur Rahman Crescent Institute of Science and Technology.

v) **"Academic Council"** means the Academic Council, which is the apex body on all academic matters of this Institute.

vi) **"Dean (Academic Affairs)"** means the Dean (Academic Affairs) of the Institution who is responsible for the implementation of relevant rules and regulations for all the academic activities.

vii) **"Dean (Student Affairs)"** means the Dean (Students Affairs) of of the Institution who is responsible for activities related to student welfare and discipline in the campus.

viii) **"Controller of Examinations"** means the Controller of Examinations of the Institution who is responsible for the conduct of examinations and declaration of results.

ix) **"Dean of the School"** means the Dean of the School of the department offering the programme concerned.

x) **"Head of the Department"** means the Head of the Department of the programme concerned.

2.0 ADMISSION

2.1 Students admitted in the under graduate engineering programmes are eligible for admission in the minor degree programme.

2.2 A student can choose a minor degree programme based on his/her major degree programme of study as detailed below:

Sl. No.	Minor Degree	Eligible Major Degree Programmes
1.	Artificial Intelligence	Mechanical Engineering

	and Machine Learning	Aeronautical Engineering
2.	Block Chain	Polymer Engineering
3.	Cyber Security	Automobile Engineering
4.	Data Science	Civil Engineering
5.	Internet of Things (IoT)	Biotechnology
		Electrical and Electronics Engineering
		Electronics and Instrumentation Engineering
6.	Virtual and Augmented Reality	Mechanical Engineering
		Aeronautical Engineering
		Polymer Engineering
		Automobile Engineering
		Civil Engineering
		Biotechnology
		Electrical and Electronics Engineering
		Electronics and Instrumentation Engineering
		Electronics and Communication Engineering
7.	Sensor Technology	Mechanical Engineering
		Aeronautical Engineering
		Polymer Engineering
		Automobile Engineering
		Civil Engineering
		Biotechnology
		Electrical and Electronics Engineering
8.	Robotics	Artificial Intelligence and Data Science
		Computer Science and Engineering (Cyber Security)
		Computer Science and Engineering (IoT)
		Computer Science and Engineering
		Information and Technology
		Civil Engineering
		Biotechnology
		Electrical and Electronics Engineering
		Electronics and Instrumentation Engineering
9.	3D Printing	Artificial Intelligence and Data Science
		Computer Science and Engineering (Cyber Security)
		Computer Science and Engineering (IoT)
		Computer Science and Engineering
		Information and Technology
		Biotechnology
		Electrical and Electronics Engineering
		Electronics and Instrumentation Engineering
		Electronics and Communication Engineering

10.	Electric Vehicles	Artificial Intelligence and Data Science Computer Science and Engineering (Cyber Security) Computer Science and Engineering (IoT) Computer Science and Engineering Information and Technology Civil Engineering Biotechnology Electronics and Communication Engineering
11.	Industrial Automation	Artificial Intelligence and Data Science Computer Science and Engineering (Cyber Security) Computer Science and Engineering (IoT) Computer Science and Engineering Information and Technology Mechanical Engineering Aeronautical Engineering Polymer Engineering Automobile Engineering Civil Engineering Biotechnology Electronics and Communication Engineering
12.	GIS and Remote Sensing	Artificial Intelligence and Data Science Computer Science and Engineering (Cyber Security) Computer Science and Engineering (IoT) Computer Science and Engineering Information and Technology Mechanical Engineering Aeronautical Engineering Polymer Engineering Automobile Engineering Biotechnology Electrical and Electronics Engineering Electronics and Instrumentation Engineering Electronics and Communication Engineering
13.	Computational Biology	Artificial Intelligence and Data Science Computer Science and Engineering (Cyber Security) Computer Science and Engineering (IoT) Computer Science and Engineering Information and Technology Mechanical Engineering

		Aeronautical Engineering Polymer Engineering Automobile Engineering Civil Engineering Electrical and Electronics Engineering Electronics and Instrumentation Engineering Electronics and Communication Engineering

3.0 STRUCTURE OF THE PROGRAMME

3.1 Every programme has a curriculum with syllabi consisting of theory and practical courses such as

- Professional Core Courses - PCC
- Laboratory Courses - LC
- Laboratory Integrated Theory Courses - LITC
- Project - PROJ (Project work and seminar)

3.2 Online Courses for Credit Transfer

Students are permitted to undergo department approved online courses under SWAYAM up to 4 credits with the recommendation of the Head of the Department / Dean of School and with the prior approval of Dean (Academic Affairs) during his / her period of study. The credits earned through online courses ratified by the respective Board of Studies shall be transferred following the due approval procedures.

3.3 Each course is normally assigned certain number of credits:

- one credit for one lecture period per week
- one credit for one tutorial period per week
- one credit for two to three periods and two credits for four periods of laboratory or practical sessions per week
- one credit for two periods of seminar / project work per week

4.0 DURATION FOR COMPLETION OF THE PROGRAMME

4.1 A student is expected to complete the minor degree programme during his / her period of study of major degree programme in line with clauses 5.1, 5.2 and 5.3 of B.Tech. Regulations 2021.

5.0 REGISTRATION AND ENROLLMENT

5.1 The students who have been admitted in minor degree programme can register and enroll for courses from the third semester of study by adhering to the curriculum of the programme concerned.

The departments shall submit the details of students pursuing courses under minor degree programmes to Dean (Academic Affairs) and Controller of Examinations within 10 working days from the start of the semester.

5.2 The students of third semester shall register and enroll for courses after admission to the minor degree programme by paying the prescribed fees. For the subsequent semesters, registration for the courses shall be done by students one week before the last working day of the previous semester.

6.0 BREAK OF STUDY FROM PROGRAMME

6.1 A student may be allowed / enforced to avail break of study for two semesters as per clause 7.0 of B.Tech. Regulations 2021.

7.0 Programme Advisor

7.1 A faculty member shall be nominated by the Head of the Department / Dean of the School (offering the programme) as programme advisor throughout the period of study.

The Programme Advisor shall be responsible for maintaining the academic and curricular records of students throughout their period of study.

8.0 COURSE COMMITTEE

8.1 Each common theory course offered to more than one group of students shall have a "Course Committee" comprising all the course faculty teaching the common course with one of them nominated as course coordinator. The nomination of the course coordinator shall be made by the Head of the Department / Dean (Academic Affairs) depending on whether all the course faculty teaching the common course belong to a single department or from several departments. The course committee shall ensure preparation of a common question paper and scheme of evaluation for the tests and semester end examination.

9.0 CLASS COMMITTEE

9.1 A class committee is constituted programme-wise by the Head of the Department / Dean of the School offering the minor degree programme. This committee shall normally comprise of faculty members handling the courses, student representatives and a senior faculty member not handling the course as Chairman. The regular meetings of the class committee shall be as per the clauses 10.3, 10.4 and 10.5 of B.Tech. Regulations 2021.

10.0 CREDIT LIMIT FOR ENROLLMENT

10.1 A student can enroll for a maximum of 32 credits during a semester including the courses (regular, redo / predo courses etc.) enrolled for minor and major degree programme.

11.0 ASSESSMENT PROCEDURE AND PERCENTAGE WEIGHTAGE OF MARKS

11.1 The assessment procedure for the theory, laboratory, laboratory integrated theory, project work, seminar and arrear courses shall be as per the clauses 12.1, 12.2, 12.3, 12.4, 12.5, 12.7, 12.8 and 12.9 of B.Tech. Regulations 2021.

12.0 SUBSTITUTE EXAMINATIONS

12.1 A student who is absent, for genuine reasons, may be permitted to write substitute examination as per the provisions given in clauses 13.1 and 13.2 of B.Tech. Regulations 2021.

13.0 ATTENDANCE REQUIREMENT AND COURSE REPETITION

13.1 The attendance requirement to appear for the semester end examination in any course shall be as per the clauses 14.1, 14.2 and 14.3 of B.Tech. Regulations 2021.

13.2 The student awarded "I" grade in a course shall repeat the course when offered in the subsequent semesters by the Department / School (offering the course) as regular course on payment of the prescribed fee.

14.0 PASSING AND DECLARATION OF RESULTS AND GRADE SHEET

14.1 Assessment and evaluation of the courses, award of grades and revaluation shall be as per the clauses 16.1, 16.2, 16.3 and 16.4 of B.Tech. Regulations 2021.

14.2 After declaration of the results of all the courses, a consolidated grade sheet shall be issued to each student, which contains the following details:

   a) list of courses enrolled during the period of study of minor degree programme including redo courses / arrear courses, if any

   b) grades scored

   c) Cumulative Grade Point Average (CGPA) of all courses enrolled from the third semester onwards

CGPA is the ratio of the sum of the products of the number of credits of courses registered and the grade points corresponding to the grades scored in those courses, taken for all the courses, to the sum of the number of credits of

all the courses in all the semesters.

If C_i, is the number of credits assigned for the ith course and GP_i is the Grade Point in the ith course,

$$CGPA = \frac{\sum_{i=1}^{n}(C_i)(GP_i)}{\sum_{i=1}^{n} C_i}$$

Where n = number of courses

"U", "I" and **"W"** grades are excluded for calculating CGPA.

The formula for the conversion of CGPA to equivalent percentage of marks shall be as follows:

Percentage equivalent of marks = CGPA X 10

15.0 DISCIPLINE

15.1 Every student is expected to observe discipline and decorum both inside and outside the campus and not to indulge in any activity which tends to affect the reputation of the Institution.

15.2 Any act of indiscipline of a student, reported to the Dean (Student Affairs), through the Head of the Department / Dean of the School concerned shall be referred to a Discipline and Welfare Committee constituted by the Registrar for taking appropriate action. This committee shall also address the grievances related to the conduct of online classes.

16.0 ELIGIBILITY FOR THE AWARD OF MINOR DEGREE

16.1 A student shall be declared eligible for the award of minor degree provided he / she has:
   i)   Successfully earned the required number of total credits as specified in the curriculum of the minor degree programme within the maximum period of study.
   ii) Successfully completed the requirements for the award of major degree.
   iii) No dues to the Institution, Library, Hostel, etc.
   iv) No disciplinary action pending against him/her.

16.2 The award of the minor degree must have been approved by the Institution.

17.0 POWER TO MODIFY

Notwithstanding all that has been stated above, the Academic Council has the right to modify the above regulations from time to time.

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