



Lr.No.: Regul.Amend./2023//01

15.07.2023

AMENDMENTS TO THE REGULATION 2022 (CBCS) FOR B.E. / B.TECH. DEGREE PROGRAMME OFFERED AT ST. XAVIER'S CATHOLIC COLLEGE OF ENGINEERING, NAGERCOIL – APPROVED BY THE 2ND ACADEMIC COUNCIL MEETING HELD ON 15-07-2023.

Applicable to B.E. and B.Tech. Programmes offered at St. Xavier's Catholic College of Engineering, Nagercoil under R-2022.

Sl.No	EXISTING	REVISED
1.	<p>4. STRUCTURE OF PROGRAMMES</p> <p>4.1 Categorization of Courses</p> <p>V. Professional Elective Courses (PEC) include the elective courses relevant to the chosen specialization/ branch. Electives are courses that the students can choose, allowing them to study topics that they are interested in.</p> <p>VIII. Audit courses (AC) include the courses such as Constitution of India, Industrial Safety Engineering, Entrepreneurship Development etc. courses taken by a student but which does not contribute to the calculation of total credit.</p>	<p>4. STRUCTURE OF PROGRAMMES</p> <p>4.1 Categorization of Courses</p> <p>V. Professional Elective Courses (PEC) include the elective courses relevant to the chosen specialization/ branch. Electives are courses that the students can choose, allowing them to study topics that they are interested in.</p> <p>Professional Elective Courses are offered under verticals (specialisation groups).</p> <p>VIII. Mandatory courses (AC) include the courses such as Constitution of India, Industrial Safety Engineering, Entrepreneurship Development etc. courses taken by a student but which does not contribute to the calculation of total credit.</p>

2.	<p>4.9 Audit courses</p> <p>The student must study audit courses prescribed by the college and it will be mentioned in the grade sheet. However, it will not be considered for computation of CGPA.</p>	<p>4.9 Mandatory courses</p> <p>The student must study mandatory courses prescribed by the college and it will be mentioned in the grade sheet. However, it will not be considered for computation of CGPA.</p>
3.	<p>4.11 Induction Programme</p> <p>The students, immediately after admission, should undergo a mandatory two week induction programme comprising of physical activity, creative arts, universal human values, proficiency modules, lectures by eminent people, visits to local areas and familiarization to department / branch and innovations.</p>	<p>4.11 Induction Programme</p> <ul style="list-style-type: none"> • The students, immediately after admission, should undergo a mandatory two week induction programme comprising of physical activity, creative arts, universal human values, proficiency modules, lectures by eminent people, visits to local areas and familiarization to department / branch and innovations. • List of students who have successfully completed the Induction Programme shall be certified by the Head of Institution. • The completion of the Induction Programme shall be printed in the Grade sheet as “COMPLETED”. • In the case of students who have got admitted later and those who have not attended the Induction Programme at the time of joining the

		<p>degree programme, it shall be conducted later and on completion, it shall be recorded in the Grade sheet.</p> <ul style="list-style-type: none"> No fee will be charged towards the conduct of the Induction Programme and for including in the STATEMENT OF GRADES for the successful completion of the Induction Programme.
4.		<p>4.12 B.E./B.Tech.(Hons) specialization in the same Discipline, B.E./B.Tech.(Hons) and B.E./B.Tech. Minor in other specialisation.</p> <p>1.</p> <p>(i) B.E. / B.Tech. Honours (specialization in the same Discipline):</p> <ol style="list-style-type: none"> The student should have earned additionally a minimum of 18 credits from a specified group of Professional Electives of the same programme. Should have passed all the courses in the first attempt. Should have earned a minimum of 7.50 CGPA. <p>(ii) B.E./B.Tech. Honours</p> <ol style="list-style-type: none"> The student should have taken additional courses from more than one vertical of the same programme

		<p>and earned a minimum of 18 credits.</p> <p>b) Should have passed all the courses in the first attempt.</p> <p>c) Should have earned a minimum of 7.50 CGPA.</p> <p>(iii) B.E./B.Tech. (minor in other specialization)</p> <p>The student should have earned additionally a minimum of 18 credits in any one of the vertical of other B.E./B.Tech. programmes.</p> <p>2. Out of these 18 credits student can earn a maximum of 6 credits in online mode (NPTEL / SWAYAM platform) as approved by Dean(Academics).</p> <p>3. B.E./B.Tech.(Honours) specialisation in the same Discipline, B.E./B.Tech. Honours and B.E./B.Tech. Minor in other specialisation degree will be optional for students.</p> <p>4.For the categories 1 (i) and 1 (ii) the students shall be permitted to register for the courses from the V Semester onwards provided the students has earned a minimum CGPA 7.50 of until III Semester and has cleared all the courses in the first attempt.</p> <p>5. For the category 1 (iii) the students will be permitted to register for the</p>
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		<p>courses from the V Semester onwards provided the marks earned by students until semester III is CGPA 7.50 and above.</p> <p>6. If a student decides not to opt for Honours, after completing certain number of additional courses, the additional courses studied shall be considered instead of the Professional Elective courses which are part of the curriculum. If the student has studied more number of such courses than the number of Professional Elective courses required as per curriculum, the courses with higher grades shall be considered for the calculation of CGPA. Remaining courses shall be printed in the mark sheet, however they will not be considered for the calculation of CGPA.</p> <p>7. If a student decides not to opt for Minor after completing certain number of courses, the additional courses studied shall be considered instead of the Open Elective courses which are part of the curriculum. If the student has studied more number of such courses than the number of Open Elective courses required as per curriculum, the courses with higher grades shall be considered for the calculation of CGPA. Remaining</p>
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		courses shall be printed in the mark sheet, however they will not be considered for the calculation of CGPA.
5.	6. COURSE REGISTRATION	6. COURSE REGISTRATION 6.2 Choice of Professional Elective Courses The Professional Elective Courses are listed in the curriculum in Table format as verticals (specialisation groups). A student can choose all the Professional Elective Courses either from one of the verticals or a combination of courses from all verticals in a semester.
6.	11 SYSTEM OF EXAMINATION 11.2.4 The continuous internal assessment for the project work will carry 40 marks while the end semester examination will carry 60 marks .	11 SYSTEM OF EXAMINATION 11.2.4 The continuous internal assessment for the project work will carry 60 marks while the end semester examination will carry 40 marks .
8.	12 PROCEDURES FOR AWARDING MARKS FOR INTERNAL ASSESSMENT 12.4 PROJECT WORK The student shall register for mini project work in pre-final semester and internship / project work in final semester. Project work may be allotted to a single student or to a group of students not exceeding 4 per group.	12 PROCEDURES FOR AWARDING MARKS FOR INTERNAL ASSESSMENT 12.4 PROJECT WORK / INTERNSHIP The student shall register for Project work / Internship in final semester. Project work may be allotted to a single student or to a group of students not exceeding 4 per group. <i>The student is also permitted to undergo a semester long internship in an industry/ academic / research institution.</i>

<p>12.4.3 The Head of the Institution shall constitute a review committee for project work/ internship for each programme. The review committee consists of a supervisor, an expert from the department and a project coordinator from the department. If the project coordinator/expert member happens to be the supervisor, then an alternate member shall be nominated. In the case of industrial projects, the review committee shall have the supervisor, the coordinator from the industry and the project coordinator from the department.</p> <p>There shall be three reviews during the semesters VII and VIII by the review committee. The student shall make a presentation on the progress made by him / her before the committee. The total marks obtained in the three reviews shall be reduced for 40 marks and rounded to the nearest integer (as per the scheme given in 12.4.4).</p> <p>12.4.4 The project / internship report shall carry a maximum of 20 marks. The project report shall be submitted as per the guidelines as given by the Dean-Academics. Same marks shall be awarded to every student within the project group for the project report. The viva-voce</p>	<p>12.4.3 The Head of the Institution shall constitute a review committee for project work/ internship for each programme. The review committee consists of a supervisor, an expert from the department and a project coordinator from the department. If the project coordinator/expert member happens to be the supervisor, then an alternate member shall be nominated. In the case of industrial projects / internship, the review committee shall consist of the supervisor, the coordinator from the industry and the project coordinator from the department.</p> <p>There shall be three reviews conducted by the review committee. The student shall make a presentation on the progress made by him / her before the committee. The total marks obtained in the three reviews shall be reduced for 60 marks and rounded to the nearest integer (as per the scheme given in 12.4.4).</p> <p>12.4.4 The project / internship report shall carry a maximum of 10 marks. The project/internship report shall be submitted as per the approved guidelines as given by the Dean-Academics. Same marks shall be awarded to every student within the project group for the project</p>
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examination shall carry **40 marks**. Marks are awarded to each student of the project group based on the individual performance in the viva-voce examination.

Continuous Assessment (40 Marks)			End semester Examinations (60 Marks)				
Review I	Review II	Review III	Project Report		Viva-Voce Examination		
10	15	15	External	Internal	Internal	External	Supervisor
			10	10	10	20	10

report. The viva-voce examination shall carry **30 marks**. Marks awarded to each student of the project group is based on the individual performance in the viva-voce examination.

Continuous Assessment (60 Marks)			End semester Examinations (40 Marks)			
Review I	Review II	Review III	Project Report	Viva-Voce Examination		
20	20	20	External	Internal	External	Supervisor
			10	10	10	10

In the case of industrial projects the marks allotted for supervisor will be shared equally by the supervisor from the Department and coordinator from industry.

12.4.6 Students shall also undertake a start-up activity for the development of products as part of project work. If the outcome of a start-up is a fully developed product and whose concept is tested and validated then it shall be considered in lieu of the project work. Such student shall submit a start-up report, which

		<p>includes the concepts and process flow of the developed product, publications and patents, if any.</p> <p>The evaluation of the start-up report is as per the clause 12.4.4</p>																																																						
9.	<p>15. AWARD OF LETTER GRADES</p> <p>15.1 The award of letter grades will be decided using relative grading principle. The performance of a student will be reported using letter grades, each carrying certain points as detailed below:</p> <table border="1" data-bbox="300 891 842 1818"> <thead> <tr> <th>LETTER GRADE</th> <th>GRADE POINTS</th> <th>RANGE OF MARKS</th> </tr> </thead> <tbody> <tr> <td>O (Outstanding)</td> <td>10</td> <td>91-100</td> </tr> <tr> <td>A + (Excellent)</td> <td>9</td> <td>81-90</td> </tr> <tr> <td>A (Very Good)</td> <td>8</td> <td>71-80</td> </tr> <tr> <td>B + (Good)</td> <td>7</td> <td>61-70</td> </tr> <tr> <td>B (Average)</td> <td>6</td> <td>56-60</td> </tr> <tr> <td>C (Satisfactory)</td> <td>5</td> <td>50-55</td> </tr> <tr> <td>U (Re-appearance)</td> <td>0</td> <td><50</td> </tr> <tr> <td>SA (Shortage of Attendance)</td> <td>-</td> <td>-</td> </tr> </tbody> </table> <p>A student is deemed to have passed and acquired the corresponding credits in a</p>	LETTER GRADE	GRADE POINTS	RANGE OF MARKS	O (Outstanding)	10	91-100	A + (Excellent)	9	81-90	A (Very Good)	8	71-80	B + (Good)	7	61-70	B (Average)	6	56-60	C (Satisfactory)	5	50-55	U (Re-appearance)	0	<50	SA (Shortage of Attendance)	-	-	<p>15. AWARD OF LETTER GRADES</p> <p>15.1 The award of letter grades will be decided using relative grading principle except Laboratory Courses and Project Work. The performance of a student will be reported using letter grades each carrying certain points as detailed below:</p> <table border="1" data-bbox="874 945 1407 1872"> <thead> <tr> <th>LETTER GRADE</th> <th>GRADE POINTS</th> <th>RANGE OF MARKS</th> </tr> </thead> <tbody> <tr> <td>O (Outstanding)</td> <td>10</td> <td>91-100</td> </tr> <tr> <td>A + (Excellent)</td> <td>9</td> <td>81-90</td> </tr> <tr> <td>A (Very Good)</td> <td>8</td> <td>71-80</td> </tr> <tr> <td>B + (Good)</td> <td>7</td> <td>61-70</td> </tr> <tr> <td>B (Average)</td> <td>6</td> <td>56-60</td> </tr> <tr> <td>C (Satisfactory)</td> <td>5</td> <td>50-55</td> </tr> <tr> <td>U (Re-appearance)</td> <td>0</td> <td><50</td> </tr> <tr> <td>SA (Shortage of Attendance)</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	LETTER GRADE	GRADE POINTS	RANGE OF MARKS	O (Outstanding)	10	91-100	A + (Excellent)	9	81-90	A (Very Good)	8	71-80	B + (Good)	7	61-70	B (Average)	6	56-60	C (Satisfactory)	5	50-55	U (Re-appearance)	0	<50	SA (Shortage of Attendance)	-	-
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<p>particular course if he/she obtains any one of the following grades: “O”, “A+”, “A”, “B+”, “B”.</p> <p>‘SA’ denotes shortage of attendance (as per clause 7.3) and hence prevents students from writing the end semester examinations. ‘SA’ will appear only in the result sheet.</p> <p>“U” denotes that the student has failed in that course. The grade U will figure both in the grade sheet as well as in the result sheet. In both cases, the student has to appear for the end semester examinations as per the regulations.</p> <p>If the grade U is given to theory courses/ laboratory courses, it is not required to satisfy the attendance requirements (vide clause 7), but the candidate has to appear for the end semester examination and fulfill the norms specified in clause 14 to earn a pass in the respective courses.</p> <p>If the grade U is given to EEC courses (except project work), which are evaluated only through internal assessment, the student shall register for the course again in the subsequent semester and fulfill the norms as specified in clause 14 to earn a pass in the course. However, attendance requirements need not be satisfied.</p>	<p>A student is deemed to have passed and acquired the corresponding credits in a particular course if he/she obtains any one of the following grades: “O”, “A+”, “A”, “B+”, “B”, “C”.</p> <p>‘SA’ denotes shortage of attendance (as per clause 7.3) and hence prevents students from writing the end semester examinations. ‘SA’ will appear only in the result sheet.</p> <p>“U” denotes that the student has failed to pass in that course. The grade U will figure both in the grade sheet as well as in the result sheet. In this case, the student has to appear for the end semester examinations as per the regulations.</p> <p>If the grade U is given to theory courses/ laboratory courses, it is not required to satisfy the attendance requirements (vide clause 7), but the candidate has to appear for the end semester examination and fulfill the norms specified in clause 14 to earn a pass in the respective courses.</p> <p>If the grade U is given to EEC courses (except project work), which are evaluated only through internal assessment, the student shall register for the course again in the subsequent semester, fulfill the norms as specified in clause 14 to earn pass in the course.</p>
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		However, attendance requirements need not be satisfied.
10.		<p>15.1.1 Relative Grading</p> <p>For those students who have passed the course (theory course / laboratory integrated courses / theory integrated courses / all other EEC except laboratory course / Project Work Courses), the relative grading shall be done. The marks of those students who have passed only shall be inputted in the software developed for relative grading. The evolved relative grading method normalizes the results data using the BOX-COX transformation method and computes the grade range for each course separately and awards the grade to each student.</p> <p>If the students' strength is greater than 30, the relative grading method shall be adopted.</p> <p>15.1.2 Absolute Grading</p> <ul style="list-style-type: none"> • For all the courses, if the students' strength is less than or equal to 30, then the absolute grading shall be followed with the grade range as specified in the Table. • For the Project Work / Internship and Laboratory Courses absolute

		<p>grading procedure shall be followed as given in the Table.</p> <p>Table – Grade range for absolute grading</p> <table border="1"> <thead> <tr> <th>O</th> <th>A+</th> <th>A</th> <th>B+</th> <th>B</th> <th>C</th> <th>U</th> </tr> </thead> <tbody> <tr> <td>91-100</td> <td>81-90</td> <td>71-80</td> <td>61-70</td> <td>56-60</td> <td>50-55</td> <td><50</td> </tr> </tbody> </table>	O	A+	A	B+	B	C	U	91-100	81-90	71-80	61-70	56-60	50-55	<50
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11.	<p>15.4 For the students who complete the audit course satisfying attendance requirement, the title of the audit course will be mentioned in the grade sheet. If the attendance requirement is not satisfied, it will not be shown in the grade sheet.</p>	<p>15.4 For the students who complete the Mandatory Course satisfying attendance requirement, the title of the Mandatory course will be mentioned in the grade sheet.</p>														
12.	<p>16.2 CLASSIFICATION OF THE DEGREE AWARDED</p> <p>16.2.1 First Class With Distinction</p> <p>A student who satisfies the following conditions shall be declared to have passed the examination in first class with distinction:</p> <ul style="list-style-type: none"> Should have passed the examination in all the courses of all the eight semesters (6 semesters in the case of Lateral Entry) in the student's First Appearance within five years (Four years in the case of Lateral Entry). 	<p>16.2 CLASSIFICATION OF THE DEGREE AWARDED</p> <p>16.2.1 First Class With Distinction</p> <p>A student who satisfies the following conditions shall be declared to have passed the examination in first class with distinction:</p> <p>Table given as annexure 1</p>														

	<p>Withdrawal from examination will not be considered as an appearance.</p> <ul style="list-style-type: none"> • Should have secured a CGPA of not less than 8.50. • One year authorized break of study (if availed of) is included in the five years (four years in the case of lateral entry) for award of First class with Distinction. • Should NOT have been prevented from writing end semester examination due to lack of attendance in any semester. 	
13.	<p>16.2.2 First Class</p> <p>A student who satisfies the following conditions shall be declared to have passed the examination in first class:</p> <ul style="list-style-type: none"> • Should have passed the examination in all the courses of all eight semesters (6 semesters in the case of Lateral Entry) within five years. (Four years in the case of Lateral Entry). • One year authorized break of study (if availed of) or prevention from writing the End Semester examination due to lack of attendance (if applicable) is included in the duration of five years (four years in the case of lateral entry) for award of First class. • Should have secured a CGPA of not less than 6.50. 	<p>16.2.2 First Class</p> <p>A student who satisfies the following conditions shall be declared to have passed the examination in First Class:</p> <p>Table given as annexure 2</p>

<p>14.</p>	<p>16.2.3 Second Class All other students (not covered in clauses 16.2.1 and 16.2.2) who qualify for the award of the degree (vide Clause 16.1) shall be declared to have passed the examination in second class.</p>	<p>16.2.3 Second Class B.E. / B.Tech Regular, Lateral Entry and B.E./B.Tech. Minor in other specialization degree students (not covered in clauses 16.2.1 and 16.2.2) who qualify for the award of the degree (vide clause 16.1) shall be declared to have passed the examination in Second Class.</p>
<p>15.</p>		<p>16.2.4 Student earned additional 18 credits as per Clause 4.12 (i) and (ii) but does not satisfy the conditions mentioned in 16.2.1 or 16.2.2 shall not be awarded B.E./B.Tech. Honours. In such cases the mark sheet will show the additional courses studied and those courses shall not be considered for CGPA computation. In such case if the student becomes eligible for First class, while computing CGPA without taking into account the additional course studied, the student shall be awarded B.E. / B.Tech in First Class only (or) student may opt to consider these additional courses as per Clause 4.12 (6,7).</p>

Annexure 1

16.2.1 First Class with Distinction

Degree (i)	Duration of programme (ii)	Duration permitted (iii)	Additional credits above the requirement of curriculum (iv)	CG PA (v)	Pass in (vi)	Break of study (vii)	Prevention due to lack of attendance
B.E. / B.Tech (Regular)	4 Years	5 Years	-	8.5	First attempt	One year authorized Break of study included in the duration permitted (iii)	Not permitted
B.E. / B.Tech (Lateral Entry)	3 Years	4 Years	-	8.5	First attempt	One year authorized Break of study included in the duration permitted (iii)	Not permitted
B.E./B.Tech. (Honours) Specialisation in the same discipline	3 / 4 Years (Lateral Entry / Regular)	4 / 5 Years (Lateral Entry/ Regular)	18 credits from any one vertical of the same programme	8.5	First attempt	One year authorized Break of study included in the duration permitted (iii)	Not permitted
B.E./B.Tech. (Honours)	3 / 4 Years (Lateral Entry / Regular)	4 / 5 Years (Lateral Entry / Regular)	18 credits from more than one vertical of the same programme	8.5	First attempt	One year authorized Break of study included in the duration permitted (iii)	Not permitted
B.E./B.Tech. Minor in other specialization	3 / 4 Years (Lateral Entry / Regular)	4 / 5 Years (Lateral Entry / Regular)	18 credits from any one vertical of the other programme	8.5	First attempt	One year authorized Break of study included in the duration permitted (iii)	Not permitted

Annexure 2

16.2.2 First Class

Degree (i)	Duration of programme (ii)	Duration permitted (iii)	Additional credits above the requirement of curriculum (iv)	CG PA (v)	Pass in (vi)	Break of study (vii)	Prevention due to lack of attendance
B.E. / B.Tech (Regular)	4 Years	5 Years	-	6.5	-	One year authorized Break of study included in the duration permitted (iii)	included in the duration permitted (iii)
B.E. / B.Tech (Lateral Entry)	3 Years	4 Years	-	6.5	-	One year authorized Break of study included in the duration permitted (iii)	included in the duration permitted (iii)
B.E./B. Tech. (Honours) specialisation in the same discipline	3 / 4 Years (Lateral Entry/)	4 / 5 Years (Lateral Entry / Regular)	18 credits from any one vertical of the same programme	7.5	First attempt	One year authorized Break of study included in the duration permitted (iii)	Not permitted
B.E./B. Tech. (Honours)	3 / 4 Years (Lateral Entry / Regular)	4 / 5 Years (Lateral Entry / Regular)	18 credits from more than one vertical of the same programme	7.5	First attempt	One year authorized Break of study included in the duration permitted (iii)	Not permitted
B.E./B. Tech. minor in other specialisation	3 / 4 Years (Lateral Entry / Regular)	4 / 5 Years (Lateral Entry / Regular)	18 credits from any one vertical of the other programme	6.5	-	One year authorized Break of study included in the duration permitted (iii)	included in the duration permitted (iii)