

**QUAID-E-AWAM UNIVERSITY
OF ENGINEERING, SCIENCE & TECHNOLOGY,
NAWABSHAH**



The Revised Regulation-2022

**General Scheme of Studies
for the Bachelor's Degree Programs**

	Name & Designation	Signature	Date
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Date of Issue			

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY

*The Regulations (Revised) regarding the General Scheme of Studies for the Bachelor's Degree Programs of the Quaid-e-Awam University of Engineering, Science & Technology under Section 48(1)(a) of the Act 1996.

1. Short Title:

These Regulations may be called the Quaid-e-Awam University of Engineering, Science & Technology Bachelor of Degree Courses Regulations 2022, repealing such regulations framed by the University authorities (if any).

2. These Regulations shall be subject to the Quaid-e-Awam University of Engineering & Technology General scheme of Studies for the Bachelor's degree courses Statutes 2020.

3. Commencement: These Regulations shall be deemed to have come into force with immediate effect and will be applicable partially to Batch-19, and fully from Batch-20 and onwards.

4. Definitions: In these Regulations unless otherwise expressly stated:

- a) "University" means the Quaid-e-Awam University of Engineering, Science & Technology, Nawabshah"
- b) "Academic Year" means the Academic Year of the University.
- c) "Spring/Fall Semester" means a Period of 21 weeks out of an academic year for teaching and evaluation and /or guidance of the students of the University.
- d) "Summer Semester" means a Period of 08 weeks out of an academic year for teaching and evaluation and/or guidance of the students of the University.
- e) "Vice-Chancellor", "Pro-Vice Chancellor", "Dean" , "Director", "Chairman/Chairperson" "Teacher" and "Controller of Examinations" means respectively the Vice-Chancellor, the Pro-Vice Chancellor, the Dean of Faculty, the Director of Institute, the Chairman/Chairperson of Teaching Department, the Teacher and the Controller of Examinations of the University.
- f) "Departmental Committee", each Department/Institute will have a Departmental Committee consisting of three senior most teachers of the Department/Institute including Chairman/Chairperson/Convener.
- g) "Credit Hours (C.H.)" has been defined in Section 6. Credit Hours means teaching/lab work duration.
- h) "Quality Point (Q.P.), Grade Point Average (G.P.A.), and "Cumulative Grade Point Average (C.G.P.A.).

5. Course Structure: Undergraduate Structure of Bachelor's Degree Course in Engineering, Science & Technology is given below in Table 5.1

Table 5.1 Course Structure

Total No. of Credit Hours (Minimum)	124
Total No. of Credit Hours (Maximum)	140
Semester Duration	16 weeks of teaching excluding examinations
Course Duration	8 semesters Maximum time limit of 6 years, further extendable for one year with the approval of Statutory Bodies
Summer Session	For deficiency/failure, repetition of courses up to 9 CH (10 CH in special cases) (08 Weeks duration)
Course Load per Fall/Spring Semester for Regular Full-Time Students	18 Credit Hours (In special cases 19 Credit Hours)

6. Credit Hours For Undergraduate Degrees:

1. A credit hour means teaching/earning a theory course for one hour each week throughout the semester.
2. One credit hour in laboratory or practical work/project would require lab contact of three hours per week throughout the semester.
3. The credit hours are denoted by two digits within brackets with a plus in between. The first digit represents the theory part while the second (right side) digit represents the practical. Table 6.1 gives the possible distribution of Theory and Practical Credit hours.

Table 6.1 Distributions of Theory and Practical Credit Hours

Credit Hours	Distribution in Theory and Practical Hours
01	(0+1)
02	(2+0) / (0 + 2)
03	(3+0) / (2 + 1) / (0 + 3)
04	(3+1) / (0 + 4)

7. Course Layout for Undergraduate Students:

- 7.1 All undergraduate 04 Year degree programs are composed of 124-140 Credit Hours in which 124 represents the minimum and 140 represents the maximum credit hours required to be completed.
- 7.2 The courses for the Engineering programs will consist of 65 – 70 % of curriculum towards the discipline specific areas of concentration as required by Accreditation body. Non-Engineering courses will be of 30–35 %.
The courses for Social and Basic Sciences disciplines will consist of 60-65% of curriculum towards the discipline specific areas and 35-40% minor/elective.
- 7.3 Every student in a group of maximum 03 students should write a thesis project in the final year (FYP) of 06 credit hours on an approved topic.
- 7.4 Students should be encouraged to do internship in industry/business organizations of about 08 weeks during degree program.

8. Fall/Spring Semester:

8.1 There will be two regular semesters (Fall & Spring) in an academic year. Table 8.1 gives the breakup.

Table: 8.1 Breakup of an Academic year (Fall/Spring Semester)

1. Teaching duration of Fall semester	16 Weeks
2. Conduct of Mid Semester Exam	01 Week
3. Preparation of final Fall Semester Exam	01 Week
4. Conduct of final Fall Semester Exam	02 Weeks
5. Semester Break	01 Week
6. Teaching duration of Spring Semester	16 Weeks
7. Conduct of Mid Semester Exam	01 Week
8. Preparation of final Spring Semester Exam	01 Week
9. Conduct of final Spring Semester Exam	02 Weeks
10. Semester Break	01 Week
11. Summer Break / Summer Semester	08 Weeks
12. Winter Break	02 Weeks
TOTAL	52 WEEKS

9. Summer Semester:

- 9.1 There will be no supplementary/special examination from batch-20 and onwards.
- 9.2 Moreover, a student who has either failed or has been stopped to take the examination due to shortage of class attendance in the subject or wishes to improve his/her grade will be allowed to register in summer semester.
- 9.3 Summer semester will be offered as an optional semester of 08 weeks duration. Students will be offered courses to remove deficiencies and can register up to 09 credit hours for summer semester. In special cases the maximum credit hours allowed for a student shall be 10 credit hours.
- 9.4 The contact hours per week during the Summer Semester will be doubled of the regular semester to ensure that the course is completely taught in a summer session with half of the duration as compared to a regular (Fall/Spring) semester.
- 9.5 All the qualifying rules for Fall/Spring semester will be applicable to summer semester.
- 9.6 The course in a summer semester will be offered with the minimum course registration of 05 students.

10. Academic Calendar:

10.1 The academic calendar will be prepared for Fall Semester and Spring semester of each academic year and will include the following information.

1. Date of start of classes
2. Conduct of mid semester
3. Date of suspension of classes
4. Schedule of examination
5. Display of sessional marks
6. Examination preparation up to
7. Conduct of final semester exam
8. Announcement of results
9. Mark sheet/Transcript issues dates.

10.2. In case if the University remains closed for a certain period due to unusual circumstances, then makeup classes shall be arranged by converting weekends/holidays or evening classes into working days to cover the lapsed time period of the studies in both the cases; regular and summer semester.

11. Repeating Courses/Improvement of CGPA:

11.1 If a student gets 'F' grade, she/he will be required to repeat the course. However, "F" grade obtained earlier will also be recorded on the transcript.

11.2 Students may be allowed to repeat a course in which she/he has obtained grade "C+" & below. In such a case both the previous and new grade obtained will be recorded on the transcript, however, only the better grade will be considered for calculation of CGPA.

11.3 In case of CGPA improvement, it would be recorded with (Imp) on the transcript.

12. Attendance:

A student will be required to have minimum 75 % attendance in a course to appear in the examination of that course condonation of maximum of 10% may be allowed by the Vice-Chancellor in special justified cases (case to case basis).

13. Examination:

13.1 In each semester, students may be required to appear in quizzes, tests, mid semester, final semester examinations, presentations (individual/group), group discussion, and submit projects/assignments/lab reports etc. These assessment marks (to be determined by the teacher concerned) will have different weightage contributing towards the overall assessment in percent marks.

This weightage may be determined on the basis of the details given in the tables 13.1, 13.2 & 13.3.

Table 13.1 Details of Marks of Theory

Sr. No.	Description	Max Marks (100)	Max Marks (50)
1.	Quizzes/Test(s)	10	05
2.	Assignments/Project/Presentation	10	05
3.	Mid Semester Exam: (with no option)	20	10
4.	Final Semester Exam: (with no option)	60	30
	Total marks	100	50

Table 13.2 Details of Marks of Practical

Sr. No.	Description	Max Marks (100 %)
1.	Lab Rubric	30%
2.	Mini Project / Open ended lab	10%
3.	Semester Lab Exam (a) Objective type test (b) Conduct of Pr/Viva voce	60% (20%) (40%)

Table 13.3 Details of Marks of Final Year Project

Semester	Thesis CH	Thesis Credit marks	Maximum Sessional Marks (By Supervisor)	Maximum Marks for Thesis Viva Voce/Exam		
				Supervisor	External	Internal/ (Chairman/his nominee)
7 th	3	100	25	25	25	25
8 th	3	100	25	25	25	25

13.2 In the beginning of a semester, the Instructor of each course should handover syllabus providing information to the students about assessment criteria, paper specification, schedule of material to be taught (Lesson Plan/ TTP), take home assignment policy, required and recommended reading materials and any other information important for the successful completion of the course and its requirements.

13.3 To implement semester system effectively, the subject teacher is required to display provisional result within five days after the conduct of final exam of that subject and submit the same to the concerned Chairman and Controller of Examination for scanning and final / formal announcement.

13.4 External examination system will be applicable only for final year Project Examination.

14. Grade Equivalence

Table 14.1 Grade Equivalence (upto 21 batch)

Grade	Grade Point	Marks			
		Theory		Practical	
		Max Marks 100	Max Marks 50	Max marks 100	Max Marks 50
A+	4.00	>=85	>=42	>=85	>=42
A	3.75	75 to 84	37 to 41	75 to 84	37 to 41
B+	3.50	66 to 74	33 to 36	66 to 74	33 to 36
B	3.00	60 to 65	30 to 32	60 to 65	30 to 32
C+	2.50	55 to 59	27 to 29	55 to 59	27 to 29
C	2.00	50 to 54	25 to 26	50 to 54	25 to 26
F	Fail	0 to 49	0 to 24	0 to 49	0 to 24

Table 14.2 Grade Equivalence (w.e.f. 22 batch)

Grade	Grade Point	Percentage of Marks	
		Theory / Practical / Project	
A+	4.0	>=90%	
A	3.5	89% - 81%	
B+	3.0	80% - 73%	
B	2.5	72% - 65%	
C+	2.0	64% - 60%	
C	1.5	59% - 55%	
C-	1.0	54% - 50%	
F*	N/A	<50%	*Fail
W**	N/A	N/A	**Withdrawn
I***	N/A	N/A	***Incomplete

Note:

- Fraction will be round off to the nearest whole number.
- The results will be prepared on the basis of Grade Point Average (G.P.A)

15. Computation of Semester Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA):

15.1 Quality Point (Q.P.)

For computation of the (G.P.A.) the quality point (Q.P) shall be determined by multiplying the value of the grade earned by a student with the Credit Hours assigned to that particular course, e.g. if a student obtain “A+” grade for a three credit hour course then the Quality Points will be calculated as follows:

$$(Q.P.)=4 \times 3=12.$$

15.2 Grade Point Average (G.P.A)

Grade point Average is an expression for the average performance of a student in the course he/she has *been* offered during a particular semester. This is calculated by adding the Quality Points of all the courses taken, divided by the total number of Credit Hours offered:-

$$(G.P.A) = \frac{\text{Sum of Quality Points}}{\text{Sum of the Credit Hours}}$$

15.3 Cumulative Grade Point Average (C.G.P.A)

The Cumulative Grade Point Average (C.G.P.A) is the expression describing the performance of a student in all semester is determined by the following way:

$$(C.G.P.A) = \frac{\text{Sum of Quality Points for all the courses appeared}}{\text{Sum of the Credit Hours for all the courses appeared}}$$

16. CGPA requirement for Award of Degree:

16.1 For completion of the degree, the minimum qualifying CGPA for a bachelor course BE/BS Students shall be 2.00.

16.2 In case a student secures less than 2.00 CGPA (minimum qualifying CGPA) at the end of final Semester, she/he may be allowed to get re-admission in one or more courses, wherein his/her obtained Grade is below C, provided that she/he is not debarred under the CGPA Improvement (as defined in Section 11) and time duration specified for the program (as defined in table 5.1). This shall be a onetime chance.

17. Transfer of Credit Hours:

17.1 Credits may be transferred on course to course basis i.e. a person taking course A at University X is allowed to transfer his/her credits to University Y provided that course A is equivalent to course B taught at the Y University.

17.2 No credit hour of a course will be transferred if the obtained grade is less than B.

17.3 Transfer of Credit Hours shall only be considered as valid if the University/ HEI is a duly recognized institution or is an internationally recognized Universities.

18. Format of Final Transcript:

The final transcript for the award of degree shall contain following information:

Front Side:

- Name of Student
- Father's Name
- Surname/Last Name
- For Pakistani nationals : CNIC No / Passport No. for Foreign nationals
- Date of Birth
- Roll No.
- Enrollment No
- Name of the Programme
- Date of Admission into Degree Program
- Semester Wise Break-up
- Subjects Title along with (Subject Code) and Credit Hours
- Type of Enrollment – Full Time
- Picture of the Applicant be Printed on Transcript
- Date of Completion of Degree Requirements
- Mode of Study – Regular
- Medium of Instruction- English
- Online Result Verification Key/ID (Front Side at the End of the Transcript)
- GPA/CGPA (at the End of the front side of Transcript)

Back Side:

- Basic Admission Requirement of the Programme
- Previous Degree held by the Student along with Institution Name
- Credit Hours Exempted/Transferred if any/applicable.
- Grading System to be mentioned.
- Charter Date of the University/DAI may be mentioned.
- Name of Campus/College be mentioned along with HEC Permission Date
- Signature of Issuing Officer(s) (Front and Back Side at the end of the Transcript)
- The transcript must have the water-mark seal on it.

19. Departmental Committee:

Each Department/ Institute will have a Departmental Committee consisting of three senior most teachers of the Department/Institute including Chairman/Director to assess the progress of the students during the semester and the results of all the examinations including the final semester examination. In case any discrepancy in the results is detected during scanning process, the concerned committee will assign a subject expert (other than the Subject teacher) for rechecking the Scripts. The final recommendations of the Departmental Committee concerning the results will be submitted through the concerned Dean and Pro Vice Chancellor/Vice Chancellor for consideration and approval.

20. Course File:

Maintaining the Course File is compulsory for all faculty members. It shall contain complete record of every activity that happens during the course. The course file should contain:

- **(For Theory)**
 1. Academic Calendar
 2. Course contents with defined CLOs, taxonomy level and linking to PLOs
 3. Tentative Teaching Plan
 4. Lesson Plan
 5. Classes Time Table and student counseling hours including record of makeup classes (if any)
 6. Semester Progress Report
 7. Student's attendance register
 8. Teaching material
 9. Class sessional activities and record (Tests/Assignments/etc. with solutions)
 10. Mid Semester and Final Exams Question papers and solutions
 11. Sample of best, worst and average answer sheets of Tests/Assignment/ Exams.
 12. Award Lists
 13. Assessment Sheet conforming to the CLOs and PLOs
 14. Course Evaluation Report
- **(FOR PRACTICAL)**
 1. Academic Calendar
 2. List of Experiments
 3. Tentative Teaching Plan
 4. Laboratory Time Table
 5. Student's attendance register
 6. Laboratory Manual / Workbook
 7. Rubrics Sheet
 8. Sample of Objective type paper with solution
 9. Sample of Best, Worst, and average Objective type test
 10. Award Lists
 11. Assessment Sheet conforming to the CLOs and PLOs Modles/ standards/patterns
 12. Course Evaluation Report.

21. Indiscipline in Examinations:

Any candidate found guilty of following matters, his/her case will be submitted to Unfair Means Cases Committee constituted by the University. This committee will be comprised of Senior Dean as Convener and the concerned Dean and the Chairman as members.

21.1 Removes a leaf from his/her answer book, the answer book shall be marked as invalid/cancelled.

- 21.2 Submits forged or fake documents in connection with the examination.
- 21.3 Commits impersonation in the examination.
- 21.4 Copies from any paper, book or notes.
- 21.5 Mutilates the Answer Book.
- 21.6 Possesses any kind of material, which may be helpful to him/her in the examination.
- 21.7 Commits anything that is immoral or illegal in connection with the examination and which may be helpful to him/her in the examination.
- 21.8 Refuses to obey the invigilation staff or refuses to follow the instructions issued by the University in connection with the examination.
- 21.9 misbehaves or creates any kind of disturbance in or around the examination centre
- 21.10 Uses abusive or inappropriate language on the answer script.
- 21.11 Possesses any kind of weapon in or around examination centre.
- 21.12 Possesses any kind of electronic device which may be helpful in the examination

22. His / Her case shall result in penalties keeping in view the Nature and Intensity of offence, as under:

- 22.1 Cancellation of paper Unfair Means Cases Committee will decide whether the student will have to appear in summer semester/with regular semester for the cancelled paper.
- 22.2 Suspension from programme for one semester.
- 22.3 Imposition of Heavy or light Fine
- 22.4 Expulsion from the University forever.
- 22.5 Any other action deemed appropriate.

23. Appeal against the decision of the unfair means cases Committee:

If a student is not satisfied with the decision of the Unfair Means Cases Committee, she/he can submit an appeal within a week of the decision by the Committee to the Vice Chancellor. No appeal shall lie against the decision of the Syndicate.

24. Probation (w.e.f. 22 batch):

Probation is a status granted to the student whose academic performance falls below the minimum University standard i.e. 2.0 CGPA.

- 24.1 The students acquiring less than 1.5/4.00 GPA in a semester but passing in all subjects will be promoted with the condition to acquire more than 2.0 GPA in the next semester and she/he will be put on probation for the next semester.
- 24.2 The students acquiring GPA 1.5 and above but failing in any subject(s) will be placed on probation and promoted to the next semester conditionally. They will have to be registered for summer semester to improve the grade.
- 24.3 Students acquiring GPA less than 1.5 in two consecutive semesters and failing in any subject(s) even after attending summer semester for one academic year will have to seek re-admission. Re-admission will be allowed only twice during 4 years

undergraduate degree program. Re-admission will be allowed after the payment of full admission fee.

25. Permission of Writer for Special Students:

- 25.1 A visually impaired student may be allowed to attempt the Mid/Final Examinations of the University on Braille/ Computer/any other means of facilitation.
- 25.2 In case a student is physically handicapped/visually impaired, she/he may apply to the Chairperson of the respective department (with medical certificate as proof of her/his disability) for permission to engage a writer in Tests/ Examinations of the University well before the start of Tests/ Examinations. She/he will be allowed 45 minutes (maximum) extra time to solve the question paper.
- 25.3 The qualification of the person who acts as writer of a handicapped student must be at least one step lower than that of the student from within the same department (e.g. for level 6 student, the writer should be at the most of level 5).

26. Damaged/Lost Answer Script:

In an exceptional case where an answer script is damaged, lost or destroyed due to unavoidable circumstances, then the student may be given the following options:

1. Average marks shall be awarded to the student in that subject/course.
2. In case of Final Year Examination, if the candidate so desires, she/he shall be given another chance as a special case to take the Examination in that subject/course in the next examination and no examination fee shall be charged from the student.

27. Awards and Distinctions:

- 27.1 Medals/Positions will be awarded to the students passing their courses/papers in Semester System in a Single first attempt only.
- 27.2 In a single first attempt Letter Grades will be awarded on the basis of GPA/CGPA and Positions would be given on the basis of CGPA. In case two or more students are acquiring same CGPA only then the Positions will be shared among those students.
- 27.3 No Medal/Roll of Honor will be awarded in the case the students has improved CGPA.
- 27.4 The disciplines where number of students is less than 05, no position will be awarded in semester system.