

ORDIANCE

For

B.Sc.(Honours) in Statistics

Session: 2019-2020 & 2020-2021



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University of Chittagong
Faculty of Science

Ordinance for the degree of Bachelor of Science with Honors with effect for the session 2019-2020

1. Duration of the Programme of Study

The programme of study for the Degree of Bachelor of Science with Honours shall extend over a period of 4 (four) Academic years and shall be completed by a student in not more than 6 (six) Academic years.

2. Subjects

There shall be the following subjects in the Faculty of Science of this University:

(i) Physics (ii) Chemistry (iii) Mathematics (iv) Statistics and (v) Applied and Environmental Chemistry and any other subject/s as may be approved by the University authority from time to time.

3. Qualification For Admission

Students passing the Higher Secondary Certificate (H.S.C.) Examination in Science from an Education Board of Bangladesh or a recognized equivalent examination from home or abroad may be admitted to the programme of Bachelor of Science with Honours in any of the above mentioned subjects in this University on such terms and conditions as maybe determined by the University authority from time to time.

4. Registration

- i. A candidate shall attain studentship of the University on admission to a programme as per rules. S/he shall be required to be registered with the University through such processes and on payment of such fees as determined by the University authority from time to time.
- ii. A student shall never take admission in more than one subject other than certificate/diploma courses. If it is so reported/found, his/her studentship and examinations, if appeared/passed, shall be immediately cancelled.

5. Course Identification System

Each course shall be designated by three to five letters for the subject/discipline as decided by the concerned department and a three-digit number for course of which the first digit shall correspond to the year. for example, CHEM-101 for the first course of 1st year in Chemistry, STAT-405 for the fifth course of the 4th year in Statistics and so on. English course shall be denoted by ENG-001.

6. Marks and Corresponding Credits

Theoretical / practical courses / Viva-voce of 25, 50, 75 and 100 marks are equivalent to 1, 2, 3 and 4 credits respectively.

7. Nature of Courses and Distribution of Marks

- i. The B.Sc. (Honours) Degree Programme shall be an integrated one consisting of major and related courses, carrying a total of 4000 marks as distributed below (year-wise).

Year	Major Theoretical + Practical	Related Theoretical + Practical	Credits	Sessional	Viva-Voce	Credits (S+V-V)	Total Marks	Total Credits
1 st	450	350	32	75	75	03+03	950	38
2 nd	450	350	32	75	75	03+03	950	38
3 rd	850	--	34	75	75	03+03	1000	40
4 th	950	--	38	75	75	03+03	1100	44
Total	2700	700	136	300	300	24	4000	160

- ii. The related courses shall be from at last two subjects other than the major subject as decided by the Academic Committee of Courses and studies of the Department shall prepare the syllabus. In preparing the syllabus of the related courses, the teachers of relevant subjects should be invited as an associate member in the meeting of the Committee of Courses.
- iii. Sessional means tutorial, class test, term paper, fieldwork, field tour, study tour etc.
- iv. 25-35% of the total of Theoretical and Practical marks shall be allotted for practical in all subjects other than Mathematics.
- v. 5-10% marks of the total of Theoretical and Practical marks shall be allotted for practical in Mathematics.
- vi. 20% of the practical marks shall be awarded on the basis of class performance during the whole course of study evaluated by the course teacher and the rest 80% on the basis of performance in the Annual Examination.
- vii. Project works, if applicable shall be started at the beginning of the 4th year class.

8. English Course

Apart from the credit courses mentioned above a student shall take one English course of 100 marks in the first year and s/he will be allowed to sit for this examination. If s/he fails to do that, s/he will be allowed to appear at the examination with the immediate next batch, only once. Points secured in this course in excess of 12.00 shall be added in calculating his CGPA. Minimum *pass mark for English is 25*. Student securing marks *between 25 and below 65 will be awarded 'Pass'*. The *F grade will be awarded to the students scoring less than 25 marks*. If a student *fails to appear even in the second time, 'Incomplete'* will be written in her/his transcript as shown in the following table:

Numerical Grade	Letter Grade
65% and above	B+ and above
25% to less than 65%	Pass
Less than 25%	F
Not appeared in the examination	Incomplete

9. Class Hours (45 Minutes Each)

Theoretical and practical courses shall be so designed as to be completed in minimum of the following class hours:

Theoretical course of 25 marks (1 credit) in 15 class hours, 50 marks (2 credits) in 30 class hours, 75 marks (3 credits) in 45 class hours and 100 marks (4 credits) in 60 class hours.

10. Duration of Examination

Examination shall be held on academic year (annual) basis. Time allotted for examination shall be as follows:

- a. Theoretical courses :2 hours for 25 marks, 3 hours for 50 marks, 4 hours for 75 - 100 marks
- b. Practical courses : 4 hours for 25 marks, 6 hours for 50 marks, 9 hours for 75 marks and 12 hours for 100 marks.

11. Medium of Instruction and Examination

The medium of instruction and answer in the examination scripts shall be either English or Bengali. Mixing of English and Bengali in the answer script of any course shall not be acceptable except for scientific/ technical terms.

12. Eligibility to Appear at the Examinations

- i. In order to be eligible for appearing at the examination, a candidate shall be required to attend on an average not less than 70% of the lectures. The Academic Committee of the Department may recommend marginal cases of shortage of attendance (not below 50%) on special ground with documentary evidences. In this case, the candidate shall have to pay the requisite non-collegiate fee as determined by the University Authority as per General rules and Regulations No. 1(ix).
- ii. The course teacher must submit the class attendance register and report to the Chairman of the Department before processing the examination entry forms. The Department shall verify the eligibility of the candidates and send the entry forms to the Provost of the concerned hall for necessary action.
- iii. The Provost of the concerned hall shall make necessary verification of the forms and send forward to the Comptroller of Accounts for necessary action.
- iv. The Controller of examinations shall issue admit card only to the eligible candidates as per rules and send these to the concerned Department and the Chairman shall distribute the same to the candidates. If the examination entry forms remain incomplete, admit cards shall not be issued. Each student shall mention his/her registration/ID number with session and previous examination roll/ID number in the entry form, if any.

13. Grading System

Letter grades and corresponding grade points shall be awarded as follows:

Numerical Grade	Letter Grade	Grade Point
80% and above	A+	4.00
75% to less than 80%	A	3.75
70% to less than 75%	A-	3.50
65% to less than 70%	B+	3.25
60% to less than 65%	B	3.00
55% to less than 60%	B-	2.75
50% to less than 55%	C+	2.50

45% to less than 50%	C	2.25
40% to less than 45%	D	2.00
Less than 40%	F	0.00
Incomplete / Absent	-	X

14. Pass Marks

Course Marks	100	75	50	25
Pass Marks	40	30	20	10

15. GPA / CGPA Calculation

- No credits are granted for grade less than D. Calculation of GPA and CGPA (Cumulative Grade point Average) is Shown in Appendix-A. To calculate CGPA, no grades from any source other than that of the prescribed credits will be considered.
- In the Academic Transcript/Grade sheet, only Letter Grade (LG), corresponding Grade Points (GP), points Secured (PS) and finally GPA, CGPA, not the numerical marks, shall be shown.
- 0.05 points secured will be added to the total points secured of candidates who will study Military Science and score 70% or above at the time of calculating CGPA.

16. Promotion to Higher Class (From 1st Year to 4th Year)

A student is required to fulfill the following conditions for promotion to the next higher class:

- A student must earn at least GPA 1.75 without sessional and viva-voce at his/her respective examination of the year, failing which s/he shall be declared to be failed in the respective examination.
- In such case, a student shall be allowed to improve his/her GPA of the 1st/2nd/3rd year by appearing at the examination of the immediate next batch only.
- At this stage, if s/he earns required GPA for promotion of the 1st / 2nd / 3rd year examination but failed in any course/s, s/he shall not be allowed to appear in the failed course/s to improve GPA under any consideration for the third time.
- Promotion to 2nd / 3rd / 4th year after the respective examination shall be given effect on the basis of the results published by the Controller of Examinations.

17. Viva-Voce

- A regular student must appear at the viva-voce of the 1st / 2nd / 3rd / 4th year examination. At the end of each examination, the Examination Committee shall hold a viva-voce. The viva-voce marks shall not be taken into consideration for the determination of yearly GPA. All marks of 4 viva-voce examinations will be added up to determine LG, GP and PS and to calculate CGPA.
- If a student fails to appear at the viva-voce, the Examination Committee may recommend him/her for appearing at the viva-voce within 30 days from the date of preceding regular viva-voce of the respective examination and also before the publication of result of the respective examination. However, the candidate shall have to take permission from the

Vice-chancellor producing necessary documents. In this case, s/he shall have to bear all expenses to conduct the viva-voce as fixed by the University Authorities.

- iii. If a student does not avail the above clause (i.) and (ii.) i.e. does not appear at the annual viva-voce, s/he shall be declared to have failed in the respective examination.

18. Sessional

- i. A regular student must compete his/her sessional of the 1st, 2nd, 3rd and 4th year. The sessional marks shall not be taken into consideration for the determination of yearly GPA. All marks of 4 sessionals shall be added up to determine LG, GP and PS and to calculate CGPA.
- ii. If a student fails to appear at her/his sessional of the 1st /2nd /3rd /4th year, s/he shall be declared to have failed in the respective examination.

19. Improvement of Grades

- i. A regular student earning C, D and F grade in any course in the 1st, 2nd and 3rd year examination may improve their grade/s by appearing at the annual examination of the same course/s only with the immediate next batch. If such a student fails to improve his/her grade/s, the previous grade/s of the same course shall remain valid.
- ii. If a student appears at the Improvement Examination of any course/s as mentioned in the clause i. above, the word “Improvement” shall be written to the right column of the Transcript corresponding to the improvement course/s.
- iii. No improvement shall be allowed in English course, sessional and viva-voce.
- iv. For improvement of his/her grade in a particular course, the student shall apply to the Chairman of the Department at least 4 weeks before the start of the next annual examination.
- v. The Chairman of the department shall prepare the list/s of candidates for the regular, irregular and improvement categories and send one copy of each to the office of the Controller of examinations after the last date of filling up the examination entry forms.

20. Degree Requirements

For the degree of Bachelor of Science with Honours, a student shall require to fulfill the following conditions:

- i. A student must earn a minimum CGPA 2.25 and s/he must earn GPA 1.75 in 1st, 2nd, 3rd and 4th year examinations separately.
- ii. A student must earn a minimum GPA 2.00 in consolidated sessional, failing which s/he shall be declared failed in the programme.
- iii. A student must earn a minimum GPA 2.00 in consolidated viva-voce, failing which s/he shall be declared failed in the programme.
- iv. A student earning CGPA 4.00 will be awarded B.Sc (Hons.) degree with **Distinction** and citation so made in the academic transcript.
- v. A student who shall earn CGPA 2.00 to less than 2.25 after completion of 4 year course shall be awarded B.Sc. Pass Degree without any class but s/he must earn GPA 1.75 in 1st

/2nd /3rd and 4th year examination. GPA 2.00 in consolidated sessional and GP 2.00 in consolidated viva-voce separately. The student with a Pass Degree shall not be eligible for admission into Masters Programme.

21. Failed Students

- i.** If a student fails to earn required GPA for promotion mentioned in clause 16(i) of the 1st /2nd /3rd year examination, s/he shall be treated as a failed student. The failed student shall be allowed to appear in the failed course/s with the batch that immediately follows as an irregular candidate, failing which s/he shall be dropped out of the programme.
- ii.** If a student fails to appear at the 1st /2nd/3rd /4th year examination after depositing examination fees, s/he shall be treated as a failed student. The failed student shall be allowed to appear at the examination with the batch that immediately follows as an irregular candidate, failing which s/he shall be dropped out of the programme.
- iii.** If a failed student earns required GPA for promotion as an irregular candidate in the 1st /2nd /3rd year examination, s/he shall not be allowed to appear in the course/s s/he scored C, D or F grade to improve his/her GPA under any consideration.
- iv.** If a student fails to appear at the viva-voce of the 1st /2nd /3rd /4th year examination as per clause 17, s/he shall be treated as a failed student. In such a case, s/he shall be allowed to appear at the viva-voce with the batch that immediately follows as an irregular candidate, failing which s/he shall be dropped out of the programme.
- v.** If a student fails to appear at the sessional of the 1st /2nd /3rd /4th year examination as per clause 18, s/he shall be treated as a failed student. In such a case, s/he shall be allowed to appear at the sessional with the batch that immediately follows as an irregular candidate with permission of Academic Committee of the Department, failing which s/he shall be dropped out of the programme.
- vi.** The failed student shall appear at the 1st /2nd /3rd /4th year examination as an irregular candidate, generally as per syllabus in force without any re-admission. If any drastic changes in the syllabus are made, the irregular candidate shall appear at the examination in his/her original syllabus on the recommendation of the Academic Committee of the department.
- vii.** After completing 1st /2nd /3rd /4th year examination as irregular candidate, the above categories of students shall have to be admitted provisionally to the next higher class within the date fixed by the Academic Committee of the concerned department. If the student fails at the respective examination, his/her provisional admission shall automatically be cancelled.
- viii.** If a student fails to appear at the examination twice in a particular year or more than twice in the entire programme, s/he shall be dropped out of the programme.
- ix.** A student failing to earn minimum GPA 1.75 in 4th year examination shall be treated as a failed student. Such a student is allowed to improve his/her GPA by appearing in 4th year course/s at the examination with the immediate next batch only as an irregular candidate, but it must be within six consecutive academic year from the session of his/her first admission. Failing which s/he shall be dropped out of the programme.
- x.** A Student failing to earn required GP in consolidated sessional during finalization of 4-year results will have to appear at four courses (total marks 300) of comprehensive examinations each of 75 marks with the immediate next batch only once as an irregular

candidate, but it must be within six consecutive academic years from the session of his/her first admission. Course-1, 2, 3 and 4 comprises of 1st, 2nd, 3rd and 4th year syllabi respectively.

- xi. A student who fails to earn required GPA in consolidated viva-voce during finalization of 4-year results will have to appear at a viva-voce examination of 300 marks with the immediate next batch only as an irregular candidate. But it must be within six consecutive academic year from the session of his/her first admission.

22. Re-Admission

- i. If a student fails to appear at the 1st/2nd/3rd/4th year examination due to shortage of required percentage of class attendance or any other reason, s/he shall have to get himself/herself re-admitted as an irregular student with the batch that immediately follows on recommendation of and within the date fixed by the Academic Committee of the department. S/he must have to fulfill the requisite class attendance for appearing at the examination as an irregular candidate.
The student shall be allowed to appear at the respective examination only once with the batch that immediately follows as an irregular candidate, failing which s/he shall be dropped out of the programme. If a re-admitted student earns required GPA for promotion as an irregular candidate in the 1st /2nd /3rd /4th year examination, s/he shall not be allowed to appear in the course/s s/he scored C, D, or F grade to improve GPA under any consideration.
- ii. Re-admission will not be allowed in the first year, if the percentage of class attendance of the student is below 30%, then his/her studentship will be treated as cancelled, i.e. s/he shall be dropped out of the programme.
- iii. A student may be allowed re-admission for not more than once in a particular year and not more than twice in the entire programme.

23. Improvement of Results

A student may improve his/her CGPA after the degree is awarded by appearing only once in 4th year course/s earning C, D or F grade at the examination with the immediate next batch but it must be within six consecutive years from the session of his/her first admission. If a student improves his/her CGPA, the word 'Improvement' and 'the year' of improvement examination should be mentioned in his/her academic transcript and certificate. A student willing to cancel his/her improved CGPA and have the previous results reinstated shall apply in this respect to the Controller of Examinations through the Chairman of the Department and the Provosts of the concerned hall with necessary fees prescribed by the University Authority from time to time.

24. Formation of the Examination Committee

There shall be separate Examination Committees for each of the 1st, 2nd, 3rd and 4th year examination as follows:

- i. The 1st and 2nd year Examination Committees, each shall consist of – One Chairman, two Internal Members of the major subject, two members of the related subjects and one External Member (from another Public University). **The members on the related course/s will moderate question papers of related course/s and also conduct viva-voce.**
- ii. The 3rd and 4th year Examination Committees, each shall consist of – One Chairman, three Internal Members and one External Member (from another Public University).

25. General Rules and Regulations

- i. Functions of the Academic Committee/Chairman/Director of the Departments/ Institutes/RCMPS shall be according to " **General rules and regulation No-1**" .
- ii. Functions of the Examination Committee shall be according to " General rules and regulation No-2"
- iii. Functions of the Chairman of the Examination Committee shall be according to " General rules and regulation No-3".
- iv. Functions of the course teacher/examiner shall be according to " General rules and regulation No-4" .
- v. Functions of the tabulators for finalization of the results shall be according to " General rules and regulation No-5" .
- vi. Functions of the Controller of Examinations regarding examinations and publication of results shall be according to "General rules and regulation No-6".

26. Collection of Tuition Fees

The Comptroller of Accounts will make arrangement to collect tuition and session fees of respective session from a student who will be promoted to 2nd /3rd/4th year classes, within two months after publication of result of 1st /2nd /3rd year examinations. If s/he fails to deposit fees within the time, s/he may be given another 30 days to deposit the same with late fine fixed by the University Authority, failing which his/her name shall be struck off the University Register. i.e. s/he shall be dropped out of the programme.

27. Admission of the Expelled Student

- i. If a student adopts unfair means in 1st /2nd /3rd /4th year Examination and s/he shall be penalized with cancellation of results of his/her respective year. Then his/her results of the previous year/s, if any shall remain valid.
- ii. If a student of 1st /2nd /3rd /4th year is expelled from the university for any reason as the case may be, s/he shall have to get himself /herself re-admitted to the subsequent 1st /2nd /3rd /4th year B. Sc. Honours class respectively for once only. Generally, the syllabus in force for the examination concerned will be applicable for such a student. If any drastic changes in the syllabus are made, s/he shall have to appear at the examination with his/her original syllabus on the recommendation of the Academic Committee of the Department.
- iii. The expelled period shall not be counted for calculating maximum available period (6 years) in clause 1.

28. Academic Calendar

The Academic Committee of the concerned Department shall prepare an academic calendar showing the beginning of each academic year date for commencement and suspension of classes, commencement of each examination. Classes will be suspended at least 30 days before commencement of each examination. There should be a gap of at least 30 days from the date publication of results of a particular year (e.g. 2nd year 2002) and date of commencement of the next examination of next session (eg. 2nd year 2003).

29. Review of the Ordinance

The ordinance may be reviewed by the Academic Council on recommendation of the Faculty through Ordinance Committee.

30. Effect of the Ordinance

This ordinance shall be effective for the Academic session 2019-2020

(As per recommendation of 22^{1st} extraordinary meeting of the Academic Council vide resolution no-1 (kha) held on 24-07-2010 & approved by 46^{7th} meeting of the Syndicate vide resolution no-6 held on 09-08-2010 and later on amended and revised as per the Syndicate empowerment.)

Dated: August 28, 2019

Chittagong University Registrar in charge
Chittagong, Bangladesh.

Chittagong University

APPENDIX -A

Calculation of Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA):

$$GPA = \frac{\sum PS}{\sum Cr}, \quad \text{where } \sum PS \text{ means total Points Secured}$$

and $\sum Cr$ means total credits offered in a year.

Example: GPA calculation in one year:

Course	No. of credits	Marks (%)	Letter Grade	Grade Points	Points Secured	GPA
C-101	4	80	A+	4.00	16.00	$GPA = \frac{\text{Total PS}}{\text{Total No. of Credits}}$ $\Rightarrow GPA = \frac{91,50}{32} = 2.86$
C-102	4	75	A	3.75	15.00	
C-103	4	70	A-	3.50	14.50	
C-104	4	65	B+	3.25	13.00	
C-105	4	60	B	3.00	12.00	
C-106	4	55	C+	2.75	11.00	
C-107	4	50	C	2.50	10.00	
C-108	4	38	F	0.00	00.00	
Total	32	-	-	-	91.50	

TPS of (1st year + 2nd year + 3rd year + 4th year) + PS of 4 years

$$CGPA = \frac{\text{Sessional} + \text{PS of 4 years Viva - voce} + \text{Excess PS of English}}{\text{Total number of credits offered in the whole programme}}$$

Example: CGPA Calculation of 4 years B.Sc. Honours Programme

Year	Total Points Secured	Total No. of Credits	CGPA
First	91.75	32	$CGPA = \frac{471.75}{160} = 2.95$
Second	99.00	32	
Third	100.00	34	
Fourth	105.00	38	
Sessional	48.00	16	
Viva-voce	24.00	08	
Excess PS of English Course	04.00	00	
Total	471.75	160	

Distribution of marks for attendance in theoretical class will be as follows:

Attendance	Marks (Out of 15)
96% and higher	15
91% ----- 95%	14
86% ----- 90%	12
81% ----- 85%	11
76% ----- 80%	9
71% ----- 75%	8
66% ----- 70%	6
60% ----- 65%	5
Less than 60 %	0

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Undergraduate