

Information Booklet
For
Postgraduate Studies



**Department of Computer Science and
Engineering**

**Dhaka University of Engineering & Technology
(DUET), Gazipur**

Rules and Regulations for Postgraduate Programs



**Dhaka University of Engineering
& Technology (DUET), Gazipur**

Academic Rules and Regulations for **Postgraduate Programs**

1. Definitions:

- (i) ‘University’ means the Dhaka University of Engineering & Technology, Gazipur abbreviated as DUET, Gazipur.
- (ii) ‘Syndicate’ means the Syndicate of the University.
- (iii) ‘Academic Council’ means the Academic Council of the University.
- (iv) ‘Vice-Chancellor’ means the Vice-Chancellor of the University.
- (v) ‘Pro-Vice Chancellor’ means the Pro-Vice Chancellor of the University.
- (vi) ‘Faculty’ means the Faculty of the University.
- (vii) ‘Dean’ means the Dean of the Faculty of the University.
- (viii) ‘Department’ means the Department of the University.
- (ix) ‘Head’ means the Head of the Department of the University.
- (x) ‘Registrar’ means the Registrar of the University.
- (xi) ‘Controller’ means the Controller of Examinations of the University.
- (xii) ‘CASR’ means the Committee for Advanced Studies and Research of the University.
- (xiii) ‘ECF’ means the Executive Committee of the Faculty of the University.
- (xiv) ‘ACPG’ means the Academic Committee for the Postgraduate Program of a Department of the University.

- (xv) ‘Equivalence Committee’ means the Committee for determining the equivalency of Undergraduate and Postgraduate Degrees obtained from other Universities.
- (xvi) ‘Semester’ means program of study to be completed within a specific period of time, an Academic Year will consist of two semesters.

2. Committee:

2.1 Committee for Advanced Studies and Research (CASR):

2.1.1 The CASR shall consist of the following members:

- (i) Vice-Chancellor or his/her nominated person; Chairman
- (ii) Pro-Vice Chancellor Member
- (iii) Three Professors of the University to be nominated by the Syndicate; Member
- (iv) Three Teachers of the University having research capabilities and experience to be nominated by the Academic Council not below the rank of Associate Professor; Member
- (v) Two Experts from outside the University to be nominated by the Vice-Chancellor; Member
- (vi) Director (Research & Extension). Member Secretary

2.1.2 At least 50% of members will fulfill the quorum.

2.1.3 The term of the nominated members shall be of three years. A nominated member shall continue to act as member till a nominated substitute takes over.

2.1.4 The functions of the Committee shall be as follows:

- (i) to recommend the concerned authorities for promotion of research and development of advisory and extension services of the University;
- (ii) to approve the proposals for research, advisory and extension services submitted by the different Departments of the University;
- (iii) to approve the Doctoral Committee;
- (iv) to approve the Teacher/Expert's name for supervision of research;
- (v) to recommend the Academic Council about the Board of Examiners for research evaluations;
- (vi) to do such other acts as may be assigned or referred to it by the Vice-Chancellor, the Academic Council or the Syndicate.

2.2 Executive Committee of Faculty (ECF):

2.2.1 The ECF shall consist of the following members:

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|---|----------|
| (i) Dean of the Faculty; | Chairman |
| (ii) All Heads under the Faculty; | Member |
| (iii) All Professors and Associate Professors under the Faculty; | Member |
| (iv) Three Teachers of the University from outside the Faculty (closely related to the subjects) nominated by the Academic Council; | Member |
| (v) Two Experts, having experience in one or more relevant field but not working at the University to be nominated by the Academic Council. | Member |

2.2.2 The Chairman will nominate one of the members as mentioned in Article no. 2.2.1(iii) to act as the Member Secretary.

2.2.3 At least 50% of members will fulfill the quorum.

2.2.4 The term of the nominated members shall be of three years. A nominated member shall continue to act as member till a nominated substitute takes over.

2.2.5 The functions of the Committee shall be as follows:

- (i) to select the courses, syllabuses and marks to award Postgraduate Degrees;
- (ii) to recommend the Academic Council about the requirements for degree, diploma, certificate and other honors;
- (iii) to recommend the Academic Council to create/restructuring posts for the Teacher and Researcher of the concerned Departments under the Faculty;
- (iv) to take necessary actions as may be conferred on it by Academic Council.

2.3 Academic Committee for the Postgraduate (ACPG) Program:

2.3.1 The ACPG shall consist of the following members:

- (i) Head of the Department; Chairman
- (ii) All Professors and Associate Professors of the Department and all other Teachers offering Postgraduate courses; Member
- (iii) One Professor from the relevant field from any other University / Institute to be nominated by the Vice-Chancellor; Member
- (iv) One Expert from the relevant field having experience in any industry, research or commercial organization to be nominated Member

by the Academic Council.

2.3.2 The Chairman will nominate one of the members as mentioned in Article no. 2.3.1(ii) to act as the Member Secretary.

2.3.3 At least 50% of members will fulfill the quorum.

2.3.4 The term of the nominated members shall be of three years. A nominated member shall continue to act as member till a nominated substitute takes over.

2.3.5 The functions of the Committee shall be as follows:

- (i) to formulate and review the courses and syllabuses to award Postgraduate Degrees;
- (ii) to propose the names of paper setters and examiners for different Postgraduate examinations to the Vice-Chancellor;
- (iii) to perform such other functions as may be conferred on it by ECF, Academic Council, Syndicate and the University Act.

2.4 Equivalence Committee:

2.4.1 The Equivalence Committee shall consist of the following members:

- (i) Vice-Chancellor or his/her nominated person; Chairman
- (ii) Pro-Vice Chancellor; Member
- (ii) Deans of the Faculties; Member
- (iii) Head of the Department concerned; Member
- (iv) Two Professors of the University to be nominated by the Academic Council; Member
- (v) One Professor of the University to be nominated by the Vice-Chancellor. Member

- 2.4.2 The Chairman will nominate one of the members as mentioned in Article no. 2.4.1(iv) or (v) to act as the Member Secretary.
- 2.4.3 At least 50% of members will fulfill the quorum.
- 2.4.4 The term of the nominated members shall be of three years. A nominated member shall continue to act as member till a nominated substitute takes over.
- 2.4.5 The functions of the Committee shall be as follows:
- (i) to assess the Degrees obtained from other Universities / Institutes;

3. Postgraduate Course Co-ordinator:

The Member Secretary of the ACPG of the Department will act as the Postgraduate Course Co-ordinator of that Department. The Course Co-ordinator should coordinate all the related activities regarding the respective Postgraduate program and will preserve all the related documents and records.

Rules and Regulations for Postgraduate Programs

M Sc. Engg. / M Engg.



**Dhaka University of Engineering
& Technology (DUET), Gazipur**

Academic Rules and Regulations for **M Sc. Engg. and M Engg. Degree**

1. Degrees Offered

The Masters Degrees to be offered by the University under the Rules and Regulations are as follows:

- 1.1 Master of Science in Computer Science and Engineering abbreviated as M Sc. Engg. (CSE)
- 1.2 Master of Engineering in Computer Science and Engineering abbreviated as M Engg. (CSE)

2. Eligibility for the Applicant

- 2.1 In order to get admission to the Masters Degree Program an applicant
 - (a) must have a minimum GPA of 3.00 out of 5.00 or 2.75 out of 4.00 or a first division in SSC or HSC or Diploma in Engg. or in equivalent examinations; and
 - (b) must have a minimum CGPA of 2.75 out of 4.00 in B Sc. Engg. in the relevant branch. In other cases, the Equivalence Committee will decide.
 - (c) The above requirements may be relaxed for applicants on deputation or sponsored by Academic Institutions / Research Organizations / International Organizations / DUET Graduates. Such relaxation shall be recommended by the Admission Committee of the respective Department for approval of Academic Council.
- 2.2 For M Sc. Engg. /M Engg. Degree Program in any branch, an applicant must have a B Sc. Engg. in the relevant branch or an equivalent Degree from any recognized

University/Institute. The Equivalence Committee shall examine the equivalence and suitability an applicant's Degree for admission.

3. Admission and Registration Procedures

- 3.1 Applications for admission to the above programs shall be invited through regular means of advertisement and shall be received by the Registrar office.
- 3.2 On the recommendation of the respective ACPG through ECF, the rules for admission into the University for Postgraduate Program shall be framed by the Academic Council from time to time. CASR on its own may, if it deems fit, recommend such rules for admission for approval of the Academic Council.
- 3.3 There shall be a Admission Committee in each Department as constituted by the respective ACPG on the recommendation of the Head of the Department.
- 3.4 Before being finally selected for admission an applicant may require to sit for an oral and/or written test before the Admission Committee. S/he may require to take pre-requisite course(s) as may be prescribed by the Admission Committee.
- 3.5 The selected applicants should complete their course registration and related tasks as per the announcement of the Registrar office of the University.

4. Academic Requirements and Regulations

- 4.1 The minimum duration of M Sc. Engg. / M Engg. Program shall be three semesters and generally not more than 5 (five) Academic Years starting from the date of first registration. Each Academic Year shall consist of two semesters. The duration of a semester will be of minimum 13 (thirteen) weeks.

- 4.2 The courses of a Program in a Department shall be proposed by the respective ACPG and approved by the Academic Council on the recommendation of respective ECF.
- 4.3 The courses to be offered by a Department in any semester shall be determined by the respective Department.
- 4.4 Academic progress of students shall be assessed in terms of credit hours earned by them. In a semester 1 (one) contact hour per week for theory courses or 3 (three) contact hours per week for Thesis/Project represent(s) 1 (one) credit hour. The number of credit hours for each course shall be specified in the syllabus of respective Department.
 - 4.4.1 For the Degree of M Sc. Engg., a student must earn a minimum of 36 credit hours of which 18 credit hours shall be assigned for a Thesis.
 - 4.4.2 For the Degree of M Engg., a student must earn a minimum of 36 credit hours of which 6 credit hours shall be assigned for a Project.
- 4.5 A student may be allowed to switch from M Sc. Engg. to M Engg. on the recommendation of the respective ACPG through Head of the Department before the commencement of a semester.
- 4.6 A student may be allowed to switch from M Engg. to M Sc. Engg. on the recommendation of the respective ACPG through Head of the Department and concerned Supervisor upon having the approval of the CASR before the commencement of a semester.
- 4.7 There shall be two categories of student, namely, full-time student and part-time student.
- 4.8 A full-time student must register a minimum of 12 (twelve) credit hours and a maximum of 15 (fifteen) credit hours per semester. If a full-time student gets an employment while continuing the program, s/he can continue the program as a part-time/full-time student with the written permission or leave from the employer.

- 4.9 A student, serving in different organizations, may be admitted as part-time student with a written consent of the employer. A part-time student may be allowed to register a maximum of 9 (nine) credit hours in a semester.
- 4.10 A student may be allowed to switch from part-time to full-time or vice versa on the recommendation of the respective ACPG through the Head of the Department before the commencement of a semester.
- 4.11 A student may be permitted to withdraw and/or change their registered courses within 3 (three) working weeks from the commencement of that semester on the recommendation of the Course Co-ordinator and the Head of the Department. The concerned course Teacher and authorities will be informed of the decision.
- 4.12 On the recommendation of the relevant ACPG through CASR and by the approval of the Academic Council, a student may be allowed to transfer a maximum of 9 (nine) credits for M Sc. Engg. and 15 (fifteen) credits for M Engg. of the required theory courses of this University completed by the student at a recognized University/Institute provided that the courses were not taken earlier than 3 (three) calendar years from the date of their first enrollment in the respective program at the University. In addition, the student must obtain a minimum GPA of 3.00 out of 4.00 or its equivalent and those courses should be equivalent to the theory courses offered at the University.
- 4.13 If a student is unable to complete the final examination of a semester due to serious illness or serious accident or official commitment, s/he may apply to the Registrar in a prescribed form through respective Head of the Department for total withdrawal from the semester within a week after the end of the semester final examination. The application must be supported by a medical certificate from the Chief Medical Officer (CMO), DUET or relevant Official documents. The Academic Council will take the final

decision about such application on the recommendation of the relevant ACPG.

- 4.14 The qualifying requirement for graduation is that a student must earn a minimum CGPA of 2.65 based on the weighted average of their course work.
- 4.15 2 (two) courses may be repeated for improvement with the prior approval of the Head of the Department on the recommendation of the Course Co-ordinator, provided that the student has a CGPA less than or equal to 2.65. In such cases, the better grade(s) amongst the previous examination and improvement examination would be retained.
- 4.16 A student shall not be allowed to continue the Program if s/he obtains a total of 4 (four) or more 'F' grades during the period of their studies.
- 4.17 If at the end of the second or any subsequent semester, the cumulative GPA falls below 2.50, s/he shall not be allowed to continue the Program.
- 4.18 In addition to the successful completion of theory course work, each student shall have to submit a Thesis on their research work or a Report on their Project work, as applicable, fulfilling the requirements as detailed in the subsequent Article no. 7 or 8.

5. Grading System

- 5.1 The grading system for assessing the performance of a student in credit courses shall be as follows:

<u>Numerical grade</u>	<u>Letter grade</u>	<u>Grade point</u>	<u>Merit description</u>
90% and above	A plus	4.00	Excellent
≥80% but <90%	A regular	3.50	Very good
≥70% but <80%	B plus	3.00	Good
≥60% but <70%	B regular	2.50	Average
≥50% but <60%	C	2.00	Pass

below 50%	F	0.00	Failure
	I		Incomplete
	S		Satisfactory
	U		Unsatisfactory
	X		Continuation

All the final grades for the course of M Sc. Engg. / M Engg. will be recorded in letter grade system. The Grade Point Average (GPA) shall be computed for each semester. The GPA will be calculated as follows:

$$GPA = \frac{\sum_{i=1}^n C_i G_i}{\sum_{i=1}^n C_i}$$

where, n is the number of courses passed by the student during the semester, C_i is the number of credits allotted to a particular course and G_i is the grade point corresponding to the grade awarded for that course(s). The overall or Cumulative GPA gives the cumulative performance of the student from first semester up to any other semester to which it refers and is computed by dividing total grade points ($\sum C_i G_i$) accumulated up to the date by the total credit hours ($\sum C_i$). Both GPA and Cumulative GPA will be rounded off to the second place of decimal for representing/reporting.

- 5.2 Course(s) in which a student gets 'F' grade shall not be counted towards credit hour requirements and for the calculation of GPA. Students may repeat the 'F' graded course(s) if it is offered again.
- 5.3 The 'B' and 'C' grades, up to a maximum of two courses, may be ignored for calculation of GPA on the written request of the student to the Head of the Department and on the recommendation of the Course Co-ordinator, provided that the student has to fulfill the total course credit hour requirements in the remaining courses with a minimum GPA of 2.65.

- 5.4 The performance in all the courses including all the ‘F’ grades shall be reflected in the transcript.
- 5.5 Grade ‘I’ will be given only when a student is unable to sit for the examination of a course at the end of the semester because of circumstances beyond of their control. To get ‘I’ grade, s/he must apply to the Head of the Department through the respective course Teacher within 1 (one) week after the examination of the respective course. S/he has to complete the course within the next 2 (two) consecutive semesters; otherwise s/he will get ‘F’ grade in that course. If that course is not offered within the next 2 (two) consecutive semesters, the student can take any other offered course as a replacement on the recommendation of ACPG. An M Sc. Engg. student can apply for an ‘I’ grade for a maximum of 4 (four) same/different courses and an M Engg. Student can apply for an ‘I’ grade for a maximum of 6 (six) same/different courses.
- 5.6 Satisfactory (‘S’) and Unsatisfactory (‘U’) shall be used for final grading of the performance of Thesis/Project and non-credit courses. An ‘X’ grade shall be recorded for Thesis/Project continuation.
- 5.7 A student may enroll for non-credit course(s) termed as audit course(s) on the recommendation of their Thesis/Project Supervisor and Head of the Department.

6. Conduct of Examination

- 6.1 In addition to class tests, assignments, term papers, etc. there shall be a written examination on all theoretical courses at the end of each semester. The respective course Teacher will be solely responsible for the performance evaluation of a student. The dates of the examinations shall be announced by the Controller of Examinations as advised by the Head of the Department at least 2 (two) weeks before its commencement. The final grade in a theoretical

course shall be based on the performance of all class tests, assignments, term papers, etc. and written examination.

- 6.2 The Controller of Examinations shall keep the up-to-date record of all the grades obtained by students and shall publish the results at the end of each semester. A student may collect a copy of the grade sheet from the office of the Controller of Examinations at the end of each semester. In addition, each student is entitled to 1 (one) official academic transcript after the completion of their academic program from the office of the Controller of Examinations on production of document of clearance from all concerned Departments and payment of the prescribed fees.
- 6.3 The respective ACPG shall recommend the names of the paper setters and examiners for the semester final examinations at least 2 (two) weeks before the date of the commencement of the examination to the Vice-Chancellor for approval.

7. Thesis

- 7.1 The research work for a thesis shall be carried out under the Supervision of a full-time teacher, who should be the member of ACPG of the relevant Department. A Joint-supervisor/ Co-supervisor within or outside the Department may be appointed (if necessary). The Supervisor, Joint-supervisor/Co-supervisor and the research topic shall be approved by the CASR on the recommendation of ACPG after completion of at least 12 (twelve) credit hours of course work and having a minimum CGPA of 2.65.
- 7.2 A student shall submit a Thesis proposal to the ACPG through Supervisor. The ACPG shall examine the proposal and recommend it for the approval of the CASR through the Head of the Department. In special circumstances, the ACPG may recommend any subsequent changes in the

research topic and forward it through the Head of the Department to CASR for further approval.

- 7.3 If any change is necessary on the approved Thesis (title, content, cost, Supervisor, Joint-supervisor/Co-supervisor, etc.), it shall be approved by the CASR on the recommendation of the relevant ACPG.
- 7.4 The research work should normally be carried out at the University. However, if necessary, with the approval of the ACPG, the Supervisor can allow their student to carry out the research work outside the University.
- 7.5 At the end of a student's research work and with the consultation of the Supervisor, the student has to submit a Thesis which must be an original contribution to Engineering/ Science and worthy of publication. Each student must submit at least 5 (five) numbers of printed copies of their Thesis in the prescribed format to the Head of the Department on or before a date to be fixed by the Supervisor concerned in consultation with the Head of the Department.
- 7.6 The student shall have to declare that the research work was carried out by them and has not been submitted elsewhere for the award of any other Diploma or Degree.
- 7.7 The Thesis should reflect a satisfactory knowledge in the field of research undertaken by the student.
- 7.8 Each student submitting a Thesis in the partial fulfillment of the requirements of a Degree, shall be required to take an oral examination, on a date or dates fixed by the Supervisor concerned in consultation with the Head of the Department and must satisfy the examiners that s/he is capable of intelligently applying the results of their research to the solution of problems, of undertaking independent work, and also shows evidence of satisfactory knowledge related to the theory and technique used in their research work.

7.9 An Examination Board for each student for Thesis and oral examination shall be approved by the Academic Council through the ACPG and CASR on the recommendation of the Thesis Supervisor. The Supervisor shall act as the Chairman and the Head of the Department will be an Ex-officio member of the Examination Board. The Board shall consist of at least 5 (five) members including the Head of the Department and the Supervisor. The Examination Board shall be constituted as follows:

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|-------|--|------------------------|
| (i) | Supervisor | Chairman |
| (ii) | Joint/Co-supervisor (if any) | Member |
| (iii) | Head of the Department | Member
(Ex-officio) |
| (iv) | One or two Teachers from the ACPG of the respective Department | Member |
| (v) | One external member from outside the University/Department | Member
(External) |

7.10 If any examiner is unable to accept the appointment or has to relinquish their appointment before the examination, the Vice-Chancellor shall appoint another examiner in their place, on the suggestion from the Supervisor in consultation with the Head of the Department. This appointment will be reported to the CASR.

7.11 In case a student fails to satisfy the Examination Board in Thesis and/or oral examination, the student shall be given one more chance to resubmit the Thesis and/or take an oral examination as recommended by the Board.

8. Project

- 8.1 The Project work shall be carried out under the supervision of a full-time Teacher, who should be the member of ACPG of the relevant Department. The Supervisor and the topic of the Project work shall be approved by the CASR on the recommendation of ACPG after completion of at least 12 (twelve) credit hours of course work and having a minimum CGPA of 2.65.
- 8.2 A student shall submit a Project proposal to the ACPG through Supervisor. The ACPG shall examine the proposal and recommend it for the approval of the CASR through the Head of the Department. In special circumstances, the ACPG recommend any subsequent changes in the Project topic and forward it through the Head of the Department to CASR for approval.
- 8.3 If any change is necessary on the approved Project (title, content, cost, Supervisor etc.), it shall be approved by the CASR on recommendation of the relevant ACPG.
- 8.4 The Project work should normally be carried out at the University. However, if necessary, with the approval of the ACPG, the Supervisor can allow their student to carry out the Project work outside the University.
- 8.5 At the end of a student's Project work and with the consultation of the Supervisor the student has to submit a Project report. Each student must submit at least 5 (five) number of printed copies of their Project in the prescribed format to the Head of the Department on or before a date to be fixed by the Supervisor concerned in consultation with the Head of the Department.
- 8.6 The student shall have to declare that the Project work was carried out by them and has not been submitted elsewhere for the award of any other Diploma or Degree.
- 8.7 Each student submitting a Project report in partial fulfillment of the requirements of a Degree, shall be

required to take at an oral examination, on a date or dates fixed by the Supervisor concerned in consultation with the Head of the Department and must satisfy the examiners that s/he has gained satisfactory knowledge related to the Project work.

8.8 An Examination Board for each student for Project and oral examination shall be approved by the Academic Council through the ACPG and CASR on the recommendation of the Project Supervisor. The Supervisor shall act as the Chairman and the Head of the Department will be an Ex-officio member of the Examination Board. The Board shall consist of at least 5 (Five) members including the Head of the Department and the Supervisor. The Examination Board shall be constituted as follows:

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|-------|--|------------------------|
| (i) | Supervisor | Chairman |
| (ii) | Head of the Department | Member
(Ex-officio) |
| (iii) | At least two Teachers from the ACPG of the respective Department | Member |
| (iv) | One external member from outside the University/Department | Member
(External) |

8.9 If any examiner is unable to accept the appointment or has to relinquish their appointment before the examination, the Vice-Chancellor shall appoint another examiner in their place, on the suggestion from the Supervisor in consultation with the Head of the Department. This appointment will be reported to the CASR.

8.10 In case a student fails to satisfy the Examination Board in Project report and/or oral examination, the student shall be given one more chance to resubmit the Project report and/or take an oral examination as recommended by the Board.

9. Cancellation of Admission

The admission of a student shall be cancelled from the University on the following grounds:

- (i) Non-payment of fees of the University and the Halls of residence within a prescribed period.
- (ii) If the requirements in Article no. 4.16 and 4.17 are not fulfilled by the student.
- (iii) Forced to discontinue their studies by the Board of Discipline.
- (iv) Withdrawn officially from all the courses including Thesis/Project.

10. Academic Fees

Academic tuition and fees will be declared and reviewed by the appropriate authority of the University from time to time.

11. Extension of Time for Completion of Degree

The application for extension of time span of a student should be approved by the Academic Council through CASR on the recommendation of the relevant ACPG. A prescribed form may be used for this purpose. The application must be submitted before the normal time span has elapsed.

Rules and Regulations for Postgraduate Program

Doctor of Philosophy (Ph. D)



**Dhaka University of Engineering
& Technology (DUET), Gazipur**

Academic Rules and Regulations for Doctor of Philosophy (Ph. D) Degree

1. Degrees Offered

The degree of Doctor of Philosophy (Ph. D) shall be offered by Department of Computer Science and Engineering

2. Eligibility for the Applicant

2.1 In order to get admission to the Ph. D Degree program an applicant

- a. must have a minimum GPA of 3.00 out of 5.00 or 2.75 out of 4.00 or a first division or equivalent in SSC or HSC or Diploma in Engg. or in equivalent examinations; and
- b. must have at least 50% marks or a minimum CGPA of 2.75 out of 4.00 or its equivalent in B Sc. Engg. / Four-year B Sc. degree or M Sc. degree in the relevant branch.
- c. must have a minimum CGPA of 2.75 out of 4.00 or its equivalent in Masters degree in the relevant branch.
- d. The above requirements may be relaxed for applicants on deputation or sponsored by Academic Institutions / Research Organizations / International Organizations. Such relaxation shall be recommended by the Admission Committee of the respective Department for approval of Academic Council.

2.2 Specific requirements for different Departments are spelled out in the following sections:

- a. For Engineering disciplines, the minimum qualification for admission shall normally be an M Sc.

Engg. / M Engg. Degree in the appropriate branch of engineering or its equivalent from any recognized Institution.

- b. For Mathematics, the minimum qualification for admission shall normally be an M.Sc. / M Phil. Degree in Mathematics or its equivalent from any recognized Institution.

OR

- c. Masters Degree in Physics / Engineering discipline or its equivalent.
- d. For Physics, the minimum qualification for admission shall normally be an M.Sc. / M Phil. Degree in Physics or its equivalent from any recognized Institution.

OR

Masters Degree in Engineering discipline or its equivalent.

- e. For Chemistry, the minimum qualification for admission shall normally be an M.Sc. / M Phil. Degree in Chemistry or its equivalent from any recognized Institution.

OR

Masters Degree in Engineering discipline or its equivalent.

3. Admission and Registration Procedure

- 3.1 An applicant may apply to the Registrar for provisional admission to the Ph. D program in any semester.
- 3.2 There shall be a Admission Committee in each Department as constituted by the relevant ACPG on recommendation of the Head of the Department.
- 3.3 A selected applicant by the Admission Committee shall be provisionally admitted and may be required to pass the

prerequisite non-credit courses as prescribed by the Admission Committee.

- 3.4 The selected applicants should complete their course registration and related tasks as per the announcement of the Registrar office of the University.

4. Appointment of a Supervisor

On provisional admission, the Admission Committee as constituted in Article no. 3.2 shall submit a name of a Supervisor who shall be a full-time faculty member belonging to the relevant Department and a Joint-supervisor / Co-supervisor from within or outside the Department (if necessary). These selections have to be approved by the CASR. The supervisor shall prescribe a plan of study to be undertaken by the student and supervise the progress of the candidate's work.

5. Final Registration

A provisionally admitted student shall be deemed to be eligible for final registration as a Ph. D student with effect from the date of their provisional admission after s/he passes the comprehensive examination.

6. Academic Requirements for the Degree

- 6.1 A student must complete all requirements for the Ph. D Degree within a maximum of 7 (seven) academic years (session) and not less than 3 (three) academic years (session) from the date of their provisional admission.
- 6.2 Academic progress shall be assessed in terms of Credit hours earned by a student. One Credit hour subject shall normally require 13 (thirteen) weeks of lecture for one semester while one Credit hour for Thesis work should normally require 39 (thirty nine) hours of research work for one semester. The number of credit hours for each course

shall be as specified in the syllabus of the respective Department.

- 6.3 A student must complete a minimum of 54 credit hours of which 45 credit hours shall be assigned for a Thesis.
- 6.4 There shall be two categories of student, namely, full-time student and part-time student.
 - 6.4.1 A student may enroll as a part-time student. A student, serving in different organizations, may also be admitted as part time students with the written consent of the employer. A part time student may be assigned a maximum of 9 (nine) credit hours of course including Thesis work in any semester.
 - 6.4.2 A full-time student must register for a minimum of 12 (twelve) credit hours and a maximum of 15 (fifteen) credit hours per semester. A full-time student shall not be allowed to be in the employment of any organization (even as a part-time employee). However, they may be employed as Teaching/Research Assistant at the University. If a full time student becomes an employee (full time or part time) of any other organization in the middle of a semester, s/he may, with the approval of the Head of the Department and their Employer, be allowed to continue as a full-time student for that semester.
 - 6.4.3 A student may be allowed to switch from part-time to full-time or vice versa on the recommendation of the respective Doctoral Committee before the commencement of a semester.
- 6.5 The courses of study in the different Departments shall be as recommended by the respective ACPG and the Faculty / CASR and approved by Academic Council.
- 6.6 The courses that may be offered in any semester shall be as decided by the relevant Department.

- 6.7 A student on the recommendation of the relevant ACPG and as approved by the CASR may be allowed to transfer a maximum of 3.0 credits of the courses completed by the student at a recognized institution provided that the courses were not taken earlier than 5 (five) calendar years from the date of their first enrollment in the respective program at DUET and that the student obtained a minimum GPA of 3.00 out of 4.00 or its equivalent in such courses and that the courses are equivalent to the approved courses of DUET

7. Grading System

- 7.1 The grading system for assessing the performance of a student in credit courses shall be as follows:

<u>Numerical grade</u>	<u>Letter grade</u>	<u>Grade point</u>	<u>Merit description</u>
90% and above	A plus	4.00	Excellent
≥80% but <90%	A regular	3.50	Very good
≥70% but <80%	B plus	3.00	Good
≥60% but <70%	B regular	2.50	Average
≥50% but <60%	C	2.00	Pass
below 50%	F	0.00	Failure
	I		Incomplete
	S		Satisfactory
	U		Unsatisfactory
	X		Continuation

All the final grades for the course of Ph. D will be recorded in letter grade system. The GPA will be calculated as follows:

$$GPA = \frac{\sum_{i=1}^n C_i G_i}{\sum_{i=1}^n C_i}$$

where, n is the number of courses passed by the student during the semester, C_i is the number of credits allotted to a particular course and G_i is the grade point corresponding to the grade awarded for that course(s). The overall or Cumulative GPA gives the cumulative performance of the student from first semester up to any other semester to which it refers and is computed by dividing total grade points ($\sum C_i G_i$) accumulated up to the date by the total credit hours ($\sum C_i$). Both GPA and Cumulative GPA will be rounded off to the second place of decimal for representing/reporting.

7.2 The course(s) in which the student gets F grade shall not be counted towards credit hour requirements and for the calculation of Grade Point Average (GPA).

7.2.1 The 'B and C' grades, up to a maximum of two courses, may be ignored for calculation of GPA at the written request of the student to the Head of the Department on the recommendation of supervisor provided that the student has fulfilled the total course credit hour requirements in the remaining courses with a minimum GPA of 2.75.

7.2.2 When a course is repeated for improvement, better grade shall be counted for the calculation of GPA.

7.2.3 The performance in all the courses including all the 'F' grades shall be reflected in the transcript.

7.3 Grade 'I' is given only when a student is unable to sit for the examination of a course at the end of the semester because of circumstances beyond their control. To get 'I' grade s/he must apply to the Head of the Department through the respective course teacher within one week after the examination of the respective course. S/he has to complete the course within the next 2 (two) consecutive semesters; otherwise s/he will get 'F' grade in that course.

- 7.4 Satisfactory ('S') and Unsatisfactory ('U') shall be used for final grading of the performance of Thesis and non-credit courses. An 'X' grade shall be recorded for Thesis continuation.
- 7.5 A student may enroll for non-credit course(s) termed as audit course(s) on recommendation of their Thesis Supervisor and Head of the Department.
- 7.6 A student shall withdraw officially from a course within 2 (two) working weeks of the commencement of the semester or else their grade in that course shall be recorded as 'F' unless s/he is eligible to get a grade of 'I'. A student may be permitted to withdraw and change their course within the specified period with the approval of their Supervisor, Head of the Department and the respective teacher(s) concerned. (In that case their grade in the courses registered shall be recorded as 'W' in his Academic Record but shall not be reflected in the transcript).

8. Doctoral Committee

A Doctoral Committee for each student shall be proposed by the Supervisor in consultation with the Head of the Department. The committee shall be approved by the CASR on recommendation of the ACPG. The Committee shall be formed within 1 (one) year from the date of the student's provisional admission. The Committee shall consist of at least five members but shall not exceed seven including the Head of the Department and the Supervisor. The Doctoral Committee shall be constituted as follows:

- | | |
|---|------------------------|
| (i) Supervisor | Chairman |
| (ii) Joint/Co-supervisor (if any) | Member |
| (iii) Head of the Department | Member
(Ex-officio) |
| (iv) At least two Teachers from the ACPG of the relevant Department | Member |

- (v) At least one external member from outside the University/Department Member (External)

The Doctoral Committee should meet from time to time on the request of the Supervisor to review the progress of the student. Under special circumstances CASR may approve any addition and/or alteration in the Doctoral Committee on the recommendation of the Supervisor through the Head of the Department.

9. Research Proposal

- 9.1 The student, after passing the comprehensive examination, shall submit a research proposal to the Doctoral Committee which shall examine the proposal and recommend it for the approval of the CASR through the Head of the Department. In special circumstances the Doctoral Committee may recommend through the Head of the Department to CASR for approval of any subsequent changes in the research proposal.
- 9.2 Research work for a Dissertation shall be carried out at this University or at a place(s) recommended by the Doctoral Committee. The work schedule and financial involvement should be mentioned in the research proposal for carrying out research work outside the university.

10. Conduct of Examination

- 10.1 In addition to class tests, assignments, term papers etc. there shall be a written examination on all theoretical courses at the end of each semester. The respective course teacher will be solely responsible for the performance evaluation of a student. The dates of the examinations shall be announced by the Controller of Examinations as advised by the Head of the Department at least 2 (two) weeks before its commencement. The final grade in a theoretical

course shall be based on the performance of all class tests, assignments, term paper and written examination.

10.2 The Controller of Examinations shall keep the up-to-date record of all the grades obtained by students and shall publish the results at the end of each semester. A student may collect a copy of the grade sheet from the office of the Controller of Examinations at the end of each semester. In addition, each student is entitled to 1 (one) official academic transcript after the completion of their academic program from the office of the Controller of Examinations on production of the document of clearance from all concerned Departments and payment of the prescribed fees.

10.3 The respective ACPG shall recommend the names of the paper setters and examiners for the semester final examinations at least 2 (two) weeks before the date of the commencement of the examination to the Vice-Chancellor for approval.

11. Qualifying Requirements

11.1 Course Work

To qualify for the degree a student must earn a minimum Grade Point Average (GPA) of 2.75 out of 4.00 based on the weighted average of Grade Points (GP) in their course work.

11.1.1 2 (two) courses may be repeated for improvement with the prior approval of the Head of the Department on the recommendation of Supervisor.

11.1.2 A student obtaining 'F' grade in a course may be allowed to repeat the course with the prior approval of Head of the Department on the recommendation of Supervisor. Such approval shall be reported to the ACPG.

11.2 A student shall not be allowed to continue the program if s/he obtains a total of 2 (two) or more 'F' grades in one or more than one courses taken together, during the period of their studies.

11.3 Comprehensive Examination

The date(s) and time of the comprehensive examination shall be fixed by the Doctoral Committee on the request of the Supervisor. The comprehensive examination shall be held after the completion of the course work by the student. The theory courses should be completed within 3 (three) semesters.

The comprehensive examination shall comprise a written examination and/or an oral examination to test the knowledge of the student in their field of study and research.

The Doctoral Committee shall conduct the comprehensive examination. If a student fails in a comprehensive examination s/he shall be given one more chance to take the examination as scheduled by the Doctoral Committee.

11.4 In addition to successful completion of course works and comprehensive examination every student shall submit a Thesis/Dissertation on their research work fulfilling the requirements.

12. Thesis/Dissertation

12.1 At the end of the student's research work the student shall submit a Thesis/Dissertation which must be an original contribution to Engineering/Science and worthy of publication. At least 6 (six) printed copies of the Thesis/Dissertation in the prescribed format must be submitted to the Head of the Department.

- 12.2 The student shall certify that the research work was done by them and that this work has not been submitted elsewhere for any other purpose (except for publication).
- 12.3 On the completion of the research work and submission of the Thesis/Dissertation an oral examination shall be arranged on a date(s) fixed by the Supervisor in consultation with the Head of the Department in which the student shall defend their research work. The student must satisfy the examiners (as constituted in Article no. 14.1) that s/he is capable of intelligently applying the results of his/her research work to the solution of problems, of undertaking independent research and afford evidence of satisfactory knowledge related to the theory and technique used in their research work.
- 12.4 In order to qualify for the Degree, a student must have 2 (two) numbers of publications (of which at least one should be published in a journal) relevant to their research work.

13. Examination Board

- 13.1 An Examination Board for each student for Thesis/Dissertation and oral examination shall consist of the Doctoral Committee and one or more external examiner(s) to be approved by the Academic Council through the CASR on the recommendation of the Thesis/Dissertation Supervisor in consultation with the Head of the Department. The Board shall consist of at least 6 (six) and maximum 8 (eight) members including the Head of the Department and the Supervisor. The Supervisor shall act as the Chairman of the Examination Board. At least one external examiner shall be appointed from outside the University (DUET). If the external examiner is appointed from outside the country a copy of the Thesis/Dissertation should be sent to them for their evaluation and their written opinion be placed before the Examination Board.

13.2 If any examiner is unable to accept the appointment or has to relinquish their appointment before/during the examination, the Vice- Chancellor shall appoint another examiner in their place, on the suggestion from the Supervisor in consultation with the Head of the Department. This appointment will be reported to the CASR.

13.3 In case a student fails to satisfy the Examination Board in Thesis/Dissertation and /or oral examination, the student shall be given one more chance to resubmit the Thesis/Dissertation and/or appear in oral examination as recommended by the Board.

14. Cancellation of Admission

The admission of a student shall be cancelled by the University on the following grounds:

- (i) Non-payment of dues of the University and the Halls of residence within a prescribed period.
- (ii) If the requirements in Article no. 11.2 and 11.3 are not fulfilled by the student.
- (iii) Forced to discontinue their studies by the Board of Discipline.
- (iv) Withdrawn officially from the Ph. D program.

15. Academic Fees

Academic fees will be reviewed by the appropriate authority of the University from time to time.

16. Extension of Time for Completion of Degree

The application for extension of time span of a student should be approved by the Academic Council through CASR on the recommendation of the Doctoral Committee. A prescribed form

may be used for this purpose. The application must be submitted before the normal time span has elapsed.