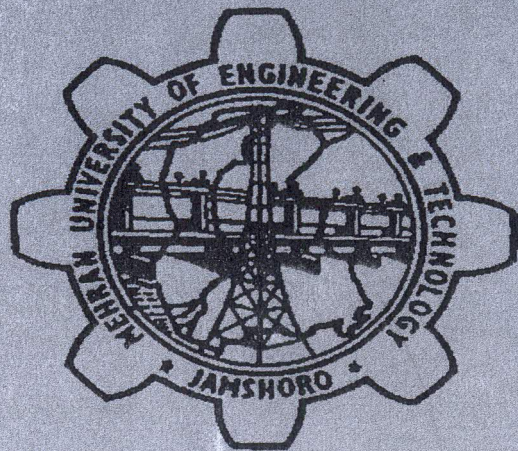


MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY



PH.D DEGREE PROGRAMS REGULATIONS 2016 (w.e.f 2017 batch and onwards)

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CONTENTS

	Page
Contents	(i)
1. Short Title	1
2. Commencement	1
3. Eligibility	1
2. Procedure for Admission	1
3. Transfer of Credits	1
4. Duration of Program	2
5. Grade Equivalent	2
1. Credit Hour (C.H)	2
2. Quality Point (Q.P)	3
3. Grade Point Average (GPA)	3
4. Cumulative Grade Point Average (CGPA)	3 to 4
6. Approval of Research Proposal and Supervisor	4
7. Conduct of Initial Seminar	5
8. Conduct of Progress Seminar (i)	5
9. Conduct of Progress Seminar (ii)	5 to 6
10. Conduct of Final Seminar	6
11. Submission of Thesis Book and Conduct of Viva-Voce Examination.	6 to 7
12. Management Committee	7 to 8
13. Amendment to Regulation	8

**MEHRAN UNIVERSITY
OF
ENGINEERING AND TECHNOLOGY**

* **Regulations** regarding for the **Ph.D. Degree Programs** of the Mehran University of Engineering and Technology, under Section 47(1) (n) of the Act 1977.

SHORT TITLE

These regulations may be called the Mehran University of Engineering and Technology Ph.D. Degree Regulations 2016 repealing such regulations framed by the University authorities (if any).

COMMENCEMENT

These regulations shall be deemed to have come into force with effect from 2017 batch and onwards.

ELIGIBILITY

To be eligible for admission to the PhD Degree Program, a student must possess first division, 60% or CGPA = 3.00 out of 4.00 in ME/MS/MBA/MPhil/Equivalent degree (18 years education) in the relevant field of study. Moreover, the student must pass pre-admission test either the internationally/nationally recognized test or the University based test. The minimum qualifying score for internationally/nationally recognized tests is 60%. However, for the University based test the minimum qualifying score is 70%.

PROCEDURE FOR ADMISSION

The applicant will submit the application form duly completed in all respects along with the relevant documents by the last date fixed for this purpose. The student may be registered for a full time or part time program. A full time student, if employed, will have to obtain study leave from employer before registration. A part time student, if employed, will have to obtain No Objection Certificate from his/her employer before registration. Each application for admission will be processed separately by the concerned Directorate/Institute. Incomplete application forms or applications not accompanied by the relevant documents and/or processing fee, or applications received after the due date will not be considered. The University reserves the right to refuse admission to any applicant without assigning any reason, or cancel the admission of a student at any stage if his/her conduct or progress in studies is not found satisfactory.

Students seeking admission are required to pay the fees at the time of admission as given in the prospectus duly approved by the University authorities. All fees paid are non-refundable except the library and caution money, which will be refunded at a time when student leaves the Institution.

TRANSFER OF CREDITS

Transfer of credits earned in other institutions may be approved in individual cases up to a maximum determined by the Equivalence Committee of the University.

**Revised on the lines of ASRB in its 136th meeting held on 10th August, 2016, vide resolution No.136.80 and approved by the Academic Council in its 88th meeting held on 14th November, 2016, vide resolution No.88.5 and approved by the Syndicate in its 140th meeting held on 18th March, 2017, vide Resolution No.140.4 (iii).*

DURATION OF PROGRAM:

The minimum duration for completing all the requirements for the full time and part time Ph.D Program shall be three years and five years respectively. The duration starts from the date of admission and finishes at date of conduct of viva voce. The maximum duration, for completing all the requirements for the full time and part time Ph.D degree program shall be five years and seven years respectively. However, the ASRB may extend the period up to two years on account of any special circumstances on the recommendation of the supervisor/co-supervisor(s) and the concerned director/co-director.

For strengthening student's knowledge in his/her research work, he/she is required to complete the course work. Each Ph.D Degree Program shall carry a number of approved courses and each course shall be assigned 03 Credit Hours (C.H). A Ph.D Degree Program shall have minimum 18 C.H of course work including compulsory and elective courses followed by the comprehensive examination. The duration of leaching time in each semester shall be 16 weeks. Minimum number of contact hours for subject of 3 C.H shall be 42.

The minimum requirement for each course shall be as follows:

1. Assignment
2. Test/Quizzes (minimum two)
3. Mid semester examination
4. Final semester examination

GRADE EQUIVALENT

Grade	Grade Point	Marks			
		Theory		Practical	
		Max Marks 100	Max Marks 50	Max Marks 100	Max Marks 50
A+	4.0	85 & above	42 & above	85 & above	42 & above
A	3.75	75 to 84	37 to 41	75 to 84	37 to 41
B+	3.5	66 to 74	33 to 36	66 to 74	33 to 36
B	3.0	60 to 65	30 to 32	60 to 65	30 to 32
C+	2.5	55 to 59	27 to 29	55 to 59	27 to 29
C	2.0	50 to 54	25 to 26	50 to 54	25 to 26
F	0.0	0 to 49 (Fail)	0 to 24 (Fail)	0 to 49 (Fail)	0 to 24 (Fail)

- Fraction shall be considered as a whole number
- Subjects carrying more than 100 marks in Theory/Practical shall be awarded grades accordingly.

The results shall be prepared on the basis of Grade Point Average (CPA) based on credit hours and quality points

1. Credit Hour (C.H)

One Credit Hour for a particular course is generally to be considered as one hour of teaching theory per week.

2. Quality Point (Q.P)

For computation of the GPA the quality Point is first determined by multiplying the value of the grade earned by the students with the credit hours of that course. E.g. if a student obtains "A+" grade for a 3 C.H course then the Q.P of this course will be calculated as follows:

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

3. Grade Point Average (GPA)

Grade Point Average is an expression for the average performance of a student in the course he/she has been offered. This is calculated by adding the quality points of all the courses taken divided by the total number of C.H offered.

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

4. Cumulative Grade Point Average (CGPA)

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

$$CGPA = \frac{\text{Sum of Quality Points for all the courses appeared}}{\text{Sum of the Credit Hours for all the courses appeared}}$$

The distribution of marks for course shall be as follows:

	Maximum Marks 100
Test (s)/ Assignment(s)/Quizzes	10
Mid Semester examination	30
Final Semester examination	60
Total	100

Final semester examination will be of 3 hours duration for 3 CH courses each question paper will contain 5 questions without any choice. Mid semester examination will be of one and half hour duration and question paper will contain minimum two questions without any choice. The minimum passing marks in a subject will be 60. A student should have at least 75% attendance to appear in the examination. In genuine cases, maximum 10% condonation in attendance shall be the discretionary power of the Dean of the concerned faculty on the basis of an application to be scrutinized by the Director/Co-Director.

The comprehensive examination includes the written and oral components. The written component carries 60% and oral component carries 40% marks. In the written component, the objective test will be conducted, and for the oral examination a following panel will be approved by the competent authority.

- At least one internal examiner (other than supervisor)
- One external examiner

The procedure of conducting examination and declaration of results shall be as follows:

- i. The examination will be conducted by the Examination Department in collaboration with the concerned Institute/Directorate.

- ii. The scripts of all assignments will be returned and those of the tests and mid semester examination will be shown to the students after evaluation. Each blank page/gaps in the scripts will be stamped/lines drawn by the invigilator.
- iii. Teachers will prepare 3 copies of the result of each course separately on the prescribed proforma and will forward two copies to the Controller of Examinations through concerned Director/Co-Director.
- iv. The result will be announced by the Controller of examinations.
- v. For the award of PhD degree, a student must secure 3.00 GPA in each course work and must fulfill all other requirements.
- vi. If a student fails in one or more subjects, he/she will be given one chance to appear in the supplementary examination. If the student fails again in the same subject(s) then ASRB may allow him/her one more chance to appear in the special supplementary examination based upon his/her written request and the recommendations of the concerned Director/Co-Director.
- vii. If a student passes all subjects but secures less than 3.00 CGPA, he/she will be allowed to improve those subjects in which he/she has secured less than 3.00 GPA. Normally, more than one chance for improvement of grades will not be allowed. However, the ASRB may allow him/her one more chance of improvement of grades under special circumstances.
- viii. Once student qualifies in all subjects he/she has to pass the comprehensive examination. The comprehensive examination will be a combination of written and oral examination. The written examination will cover objective type questions from all subjects the student studied during the PhD course. It will be 3 hours examination covering 180 MCQs. The qualifying score is 60%.

APPROVAL OF RESEARCH PROPOSAL AND SUPERVISOR

- i. Student will fill up the Research Proposal Proforma and pay the required processing fees through bank challan available in the office of the concerned Director/Co-Director. Cash payment will not be accepted in any case.
- ii. The Research Proposal Proforma will be signed by the student himself/herself, his/her supervisor and co-supervisor(s), the Chairman/Chairperson/Focal Person of the concerned Department/Program, the Director/Co-Director of the Institute/Directorate and duly approved by the Dean of the concerned faculty.
- iii. The Research Proposal proforma will be submitted in the office of the concerned Director/Co-Director with the following documents:
 - a. Research Proposal. Each page of the proposal will be signed by the student and his/her supervisor and co-supervisor(s).
 - b. A copy of the Bank Challan after the payment of the processing fees.
 - c. The Similarity index of the scanning report (Plagiarism). It must be less than or equal to 19% and no any single source should have a similarity index more than or equal to 5%.
 - d. Attested copy of the Enrollment Card.
- iv. The Director/Co-Director will process his/her application and forward it to the Advanced Studies and Research Board (ASRB) for approval. The ASRB will approve the supervisor and, if needed, co-supervisor(s) in consultation with supervisor along with the research proposal.

CONDUCT OF INITIAL SEMINAR

- i. After approval of his/her research proposal by the ASRB, the student will be required to deliver initial seminar before the ASRB and experts.
- ii. The student will prepare a presentation of 15-20 minutes duration under the guidance of his/her supervisor/co-supervisor(s).
- iii. The Initial seminar will be evaluated by the following:
 - a. At least four Advanced Studies and Research Board (ASRB) members.
 - b. One internal expert
 - c. One external expert
- iv. The evaluations will be submitted to the ASRB for final approval.
- v. In case the Initial Seminar is not approved by the ASRB, the student will be asked to deliver another seminar by incorporating the suggestions and observations of the ASRB members and experts.
- vi. After approval of the initial seminar, the research proposal must be evaluated by at least three experts in the relevant field, one from within the country and the two from abroad.
- vii. The panel of the experts will be proposed by the supervisor and approved by the ASRB.
- viii. After completing all the formalities, including initial seminar, the student will proceed with his/her research work under the guidance of his/her supervisor in accordance with the approved Regulations of PhD degree program, and deliver progress seminars and submit progress reports as required by the ASRB.

CONDUCT OF PROGRESS – I SEMINAR

- i. A student will be eligible to deliver Progress – I seminar if his/her course work including comprehensive examination is completed, his/her initial seminar is approved by the ASRB and his/her research proposal is evaluated by the approved experts in the relevant field and approved by the ASRB.
- ii. The date of the conduct of the Progress – I seminar will be announced by the concerned Director/Co-Director.
- iii. The student will prepare a presentation of 15 - 20 minutes duration under the guidance of his/her supervisor/Supervisor(s) and discuss about the progress that he/she achieved after his/her initial seminar.
- iv. The Progress – I seminar will be evaluated by the following:
 - a. At least four Advanced Studies and Research Board (ASRB) members
 - b. One internal expert
 - c. One external expert
- v. The evaluations will be submitted to the ASRB for approval.
- vi. In case the Progress – I seminar is not approved by the ASRB, the student will be asked to deliver another seminar by incorporating suggestions and observations of the ASRB members and experts.

CONDUCT OF PROGRESS – II SEMINAR

- i. A student will be eligible to deliver Progress - II seminar if his/her Progress - I seminar is approved by the ASRB and he/she has completed at least 50% objectives.
- ii. The date of the conduct of the Progress – II seminar will be announced by the concerned Director/Co-Director.

- iii. The student will prepare a presentation of 15 - 20 minutes duration under the guidance of his/her supervisor/co-supervisor(s) and discuss about the progress that he/she achieved after his/her Progress – I seminar.
 - a. The Progress – II seminar will be evaluated by the following:
 - b. At least four Advanced Studies and Research Board (ASRB) members
 - c. One internal expert
 - d. One external expert
- iv. The evaluations will be submitted to the ASRB for final approval.
- v. In case the Progress – II Seminar is not approved by the ASRB, the student will be asked to deliver another seminar by incorporating the suggestions and observations of the ASRB members and evaluators.
- vi. At least two Progress seminars are mandatory to qualify for the final seminar.
- vii. A student will be eligible to deliver progress II seminar if he/she has completed at least 50% objectives.

CONDUCT OF FINAL SEMINAR

- i. A student will be eligible to deliver final seminar if:
 - (a) His/her Progress – II seminar has already been approved by the ASRB.
 - (b) His /her final version of thesis book (loose bound) has submitted for evaluation.
 - (c) He/she has published at least one research paper in the HEC approved journal.
- ii. The student will prepare a presentation of 30 - 45 minutes duration with the consultation of his/her supervisors.
- iii. The student will inform the concerned Director/Co-Director in written through his/her supervisor/co-supervisor(s) that he/she is ready for the final seminar.
- iv. The Director/Co-Director will announce the date for the conduct of the final seminar.
- v. The final seminar will be evaluated by the following:
 - (a) The Dean of the concerned Faculty or his/her nominee.
 - (b) Four members of the ASRB
 - (c) One internal examiner
 - (d) One external examiner
- vi. The Director/Co-Director will submit the evaluations to ASRB for final approval.
- vii. If ASRB does not approve the final seminar, the student will be asked, to deliver another final seminar by incorporating suggestions and observations of the ASRB members and experts.
- viii. The final seminar of PhD should be an open defense.

SUBMISSION OF THESIS BOOK AND CONDUCT OF VIVA-VOCE EXAMINATION

- i. The student will submit one hard copy (loose bound) and one soft copy of the thesis book to the concerned Director/Co-Director along with the processing fees of the thesis evaluation through his/her supervisor.
- ii. Student will also submit the fees for anti-plagiarism services.
- iii. The Director/Co-Director will send the softcopy of the thesis to the focal person of the Anti-Plagiarism Cell of the University to scan it for finding authenticity of the thesis through HEC approved software for plagiarism.
- iv. If the scanning report has similarity index less than or equal to 19% and no any single source has a similarity index greater than or equal to 5% the thesis will be accepted for viva voce examination. Otherwise it will be returned back to (he student. This procedure will be repeated until minimum similarity index as defined above is met.

- v. The student will submit required number of hard copies (loose bound) along with softcopy of the thesis to the concerned Director/Co-Director through his/her supervisor for expert evaluators.
- vi. The thesis will be sent to the experts within the country and abroad who had originally evaluated the research proposal, if any of the evaluators is not available the ASRB shall appoint a new evaluator. The name of any new evaluator will be again proposed by the supervisor.
- vii. Once satisfactory report is received from the approved evaluators, the student will be allowed by the ASRB to appear in the viva voce examination to defend his/her thesis. However, if the research work is not considered satisfactory by the evaluators the student will incorporate suggestions given by evaluators and resubmit the modified thesis through his/her supervisor.
- viii. The student will submit two hard copies (loose bound) of the thesis book to the concerned Director/Co-Director through his/her supervisor for viva voce.
- ix. The supervisor will propose a panel of external and internal experts for the conduct of the viva voce examination.
- x. The concerned Director/Co-Director will submit this panel of experts to the competent authority for approval of one External and one Internal Examiner.
- xi. The Director/Co-Director will send the names of the approved examiners to the Controller of examinations along with two hard copies of the thesis book and the scanning report of the thesis.
- xii. The Controller of Examinations will send copies of the thesis to the approved examiners for their evaluation and conduct of final viva voce examinations.
- xiii. The final viva voce examination will be conducted by the external and internal examiners in presence of the concerned Director/Co-Director and Supervisor/Co-Supervisor(s).
- xiv. If the examiners recommend that the student is successful at the viva-voce examination, he/she may be declared to have passed the Doctor of Philosophy Degree examination. In case of failure, a second examination may be conducted on the recommendations of examiners. In normal circumstances, no student shall be permitted a third examination. However, the ASRB may allow the third examination under genuine circumstances.
- xv. The hard bound copies prepared on guidelines and approved by the concerned Director/Co-director and evaluation report of the examiners duly signed by all concerned will be submitted to the Controller of Examination for announcement of the result.
- xvi. The hard and softcopy of the thesis will be submitted to the HEC for PhD country directory.

MANAGEMENT COMMITTEE

Each Directorate/Institute shall have a management committee comprising the following:

- The Director
- The Co-Director (if any)
- The Chairman/Chairperson/Focal Person/Director/Co-Director of the concerned department/institute.
- Two senior most faculty members other than Chairman/Chairperson Focal Person/Director/Co-Director.

The Committee shall be responsible for selection of students for any financial assistance, assess and monitor the progress of the students during the semester and the results of all the course work examinations. In case of any discrepancy in the result, during scanning process, the concerned committee shall seek approval of the competent authority for rechecking the scripts by a subject expert (other than the subject teacher).

AMENDMENT TO REGULATION

These Regulations may be amended from time to time as deemed fit by the authorities of the Mehran University of Engineering & Technology, and, unless specifically stated otherwise, the amended Regulations shall apply to students registered in 2017 and onwards.