

*** ACADEMIC REGULATIONS FOR M.TECH (BY RESEARCH) PROGRAMME**
UNDER THE FACULTY OF TECHNOLOGY AND ENGINEERING

R. PGR 1 Registration of Research Scholars: (Engineering)

1.1 Eligibility – criteria

There will be two categories of candidates for admission to M.Tech (by Research) as under:

- ¹i) Full-time
- ii) External

A candidate seeking admission to M.Tech (Research) in any of specialized area must fulfil the following criteria:

He should have passed the qualifying examination of Bachelor of Engineering/Bachelor of Technology from a recognized university with minimum % of marks as prescribed by the AICTE from time to time or equivalent cumulative grade point index, OR He should have passed any other qualifying degree/diploma examination considered as equivalent by Nirma University (with minimum 50% marks or equivalent cumulative grade point index).

The candidates who are applying as External candidates should also have minimum working experience of three years after graduation. They will also be required to submit a 'No Objection Certificate' from their employers for taking up this programme.

- 1.2 The University will invite applications from the candidates through advertisement in the press or in the website. Candidates, who intend to register for M.Tech(Research) have to apply in a prescribed proforma. If there are more number of applications received than available seats then, entrance test shall be conducted followed by an interview by a committee consisting of the Dean of the Faculty of Technology and Engineering (FoTE), concerned Head of the Department and concerned faculty member (who has proposed a research area and who will be guiding student on admission). After interview by the committee, and on the recommendation of the committee, admission will be confirmed on payment of prescribed fees.

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¹ No admission from AY 2019-20 onwards vide noti.No NU-36 dt. 0305.2019, BG mtg. 19.04.19 reso.-4(B)

1.3 Programme Duration:

- Full-time candidates: minimum 2 years and maximum period of 4 years from the date of joining.
- External candidates: minimum 3 years and maximum period of 5 years from the date of joining.

1.4 Course-work requirement:

Following course structure will be followed for both external and full time candidates.

- ¹ For Full-time candidates

Sem.	Detail	Credits	Remarks
I	Course work: Theory Course - 1 Theory Course – 2 Research Methodology Seminar	3 3 3 4	Total 13 credits of course work is the minimum requirement. Depending upon requirements, candidates may select additional courses from existing M.Tech Programmes as audit courses. In addition, at the end of 1 st Sem. Candidates must finalize research problem, its detailed scope and possible outcome and submit the research proposal.
II	Dissertation –Part-I	17	Progress of student will be monitored by Research Progress Committee (RPC), as prescribed in 1.6. Student progress will be monitored at the end of every semester by RPC.
III	Dissertation – Part-II	17	
IV	Dissertation -Final	23	<ul style="list-style-type: none">• The submission of final dissertation shall be allowed only after successful completion of presynopsis seminar on the research work carried out by the candidate and proof of acceptance of minimum one research papers at peer reviewed journal.• RPC will review pre synopsis seminar.

- For External candidates

Sem.	Detail	Credits	Remarks
I	Course work: Theory Course - 1 Theory Course – 2 Research Methodology Seminar	3 3 3 4	Total 13 credits of course work is the minimum requirement. Depending upon requirements, candidates may select additional courses from existing M.Tech Programmes as audit courses. In addition, at the end of 1 st Sem. Candidates must finalize research problem, its detailed scope and possible outcome and submit the research proposal.
II	Dissertation –Part-I	11	Progress of student will be monitored by Research Progress Committee (RPC), as prescribed in 1.6. Student progress will be monitored at the end of every semester by RPC.
III	Dissertation – Part-II	11	
IV	Dissertation –Part-III	11	
V	Dissertation – Part-IV	12	
VI	Dissertation -Final	12	<ul style="list-style-type: none"> • The submission of final dissertation shall be allowed only after successful completion of presynopsis seminar on the research work carried out by the candidate and proof of acceptance of minimum one research papers at peer reviewed journal. • RPC will review pre synopsis seminar.

1.4.1 Selection of Courses:

The course-work offered for the M.Tech (Research) Programmes may be from courses offered in regular M.Tech programmes or self-study courses. The details about the course work to be taught shall be decided by the guide and must be approved by concerned Head of Dept. and Dean, FoTE.

1.4.2 Time limit for completion of coursework:

All research scholars for M.Tech (Research) Programme are required to register for 13 credits of course work in 1st Semester and must complete the 13 credit course work within maximum period of 1 year from the date of joining by the research scholars. The research scholar who is not in a position to complete the course work in the prescribed time limit as above, due to genuine reason, may file an appeal and on the recommendation of HOD concerned, Dean, FoTE, may grant extension up to maximum of 6 months.

1.4.3 Course assessment, grade evaluation, and examination

Examinations, Grades, Grades in Examinations and Performance levels will be similar to M. Tech. regulations of the University as applicable, i.e., minimum C+

in each course. For self- study course, the examination will be Term Assignment, which may consist of exercises, quizzes, tests, and term paper.

1.4.4 For the appointment of Paper Setters and Examiners for the Course Work, wherever prescribed for the students of M.Tech.(Research) Programme for both Full-Time and External students, the procedure prescribed for regular M. Tech Programmes be followed.

1.5 **Monitoring mechanism:**

The Research Progress Committee (RPC) consisting of Guide and one expert – either from Institute or from outside, will monitor the progress of the research scholar. RPC will be approved by Dean, FoTE. RPC will meet at least once in a semester (from 2nd Semester onward) and monitor the progress of the research scholar and, based on the suggestions of the committee, the research scholar will take follow-up actions.

1.6 **Registration of Topic of Research:**

At the end of 1st Semester, research scholar shall register his topic of research along with submission of proposal consisting of objective, scope, methodology to be adopted and possible outcome which may benefit to society or concern professional field.

1.7 **Change of Topic of Research:**

Normally the research scholars who are so registered shall not be permitted to change topic of research. Under exceptional conditions, change of topic may be permitted with the recommendation of RPC and approval of Dean, FOTE.

1.8 **Cancellation of Registration:**

In case the progress of a research scholar is not satisfactory, the Dean, FoTE shall be competent to cancel the registration of the research scholar on recommendation from the RPC.

1.9 **Payment of Tuition & other fees:**

The research scholar registered for the M.Tech (Research) programme shall be required to pay the tuition fees and other fees as prescribed from time to time for all the terms from the registration to the date of submission of the final dissertation.

R.PGR-2 Recognizing teacher as qualified for guiding the research scholar for M.Tech (Research):

2.1 All faculty members working in the University and having Ph. D degree shall be considered deemed to be a recognized M.Tech (Research) guide.

- 2.2 Maximum number of students who can registered under a particular Guide will be decided by Dean, FoTE based on no. of Ph.D. students working under him/her, experience, expertise and availability of fund required for research work.
- 2.3 Normally M.Tech (Research) guide shall register students up to completion of 63 years of age. However, in exceptional cases on the recommendations of the Dean, FoTE, the Director General may consider to allow such guide to register the students even after the age of 63 years.
- 2.4 A student desirous to change his guide shall apply to the Executive Registrar through both the old and the new guiding teachers, Head of the Department and Dean, FoTE. The decision on this will be taken by the Director General on the recommendation of the Dean, FoTE. Provided that in the case of death of a guide or long leave or prolonged sickness of a guide or the cases of similar nature, a candidate may apply for change of guide.

R.PGR- 3 Procedure for submission of Thesis and follow-up action:

- 3.1 On completion of the research work for the M.Tech(Research) by a research scholar, the guide shall organize a pre-synopsis seminar in consultation with the Head of the Department to appraise the researchers and other research workers of the department, the research scholar's work and receive suggestions for improvement of the research work. The RPC shall assess the work of research scholar through this seminar. If the RPC is not satisfied with the quality of the work of the research scholar then the research scholar shall do further work and deliver a fresh seminar after a definite period specified by the RPC.
- 3.2 If the RPC is satisfied with the pre-synopsis seminar of the research scholar, the research scholar shall submit the final dissertation only on acceptance of minimum one research paper in peer reviewed journals before submission of the thesis.
- 3.4 Each research scholar shall submit two copies of the dissertation embodying the results of his/her research with one CD. The dissertation shall contain an account of the research work carried out by the research scholar leading to the discovery of new facts or techniques or new correlations of scientific facts already known, the work being of such quality that it makes a definite contribution to the advancement of knowledge.
- 3.5 The dissertation shall be submitted through the Guide and Head of the Department to Dean, FoTE. It shall contain certificate to the effect that the dissertation incorporates the results of independent investigations carried out by the Research Scholar himself/herself, and signed by the Research Scholar and the guide.

- 3.6 The final dissertation examination shall be taken by a panel of examiners consisting of Guide and one external examiner from the relevant field, nominated by Dean FoTE. Copy of dissertation shall be send to external examiner at least two weeks before the examination.
- 3.7 The final dissertation examination shall be open seminar followed by viva-voce examination. The date & time of the open seminar to be conducted, be communicated to the University by the guide through proper channel, so as to encourage the faculty/students to attend.

Miscellaneous Provisions:

R.PGR-4 Leave and Attendance:

- 4.1 **Leave Rules:** A ¹Full time M.Tech (Research) scholar shall be eligible to avail a leave of 30 days in an academic year. He shall not be entitled for any inter semester breaks, winter and summer vacations. However, he is entitled for an additional leave of up to 10 days on medical grounds in an academic year.
- 4.2 **Attendance requirement:** A ¹Full time research scholar is required to sign on all working days of the faculty in an attendance register to be kept in the concerned department, except when he is on duty/ sanctioned leave. For external candidates, minimum 90 days of attendance during entire duration of M.Tech (Research) programme.
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DISCLAIMER

This regulations are the content of the original notifications issued in pursuance to the Board of Governors meetings and hence, in any dispute or doubt under this document will be verified with the original notification and the same would be final.