# MS ORDINANCES AND REGULATIONS

Revised upto the 296<sup>th</sup> Meeting of the Senate



Indian Institute of Technology Madras

Chennai – 600036

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#### NOMENCLATURE AICTE All India Council of Technical Education CFTI Centrally Funded Technical Institute (as declared by MoE) HTRA **CGPA** Cumulative Grade Point Average CSIR Council of Scientific and Industrial Research DC Doctoral Committee for PhD scholars DST Department of Science and Technology in India GTC General Test Committee for MS scholars HTRA Half-time Research Assistantship awarded by IITM HoD Head of the Department IC&SR Center for Industrial Consultancy & Sponsored Research at IITM IIM An Indian Institute of Management under MoE, India IISc Indian Institute of Science, Bengaluru IIT An Indian Institute of Technology under MoE, India IITM Indian Institute of Technology Madras JRF Junior Research Fellowship MoU Memorandum of Understanding PG Postgraduate degree QIP Quality Improvement Program of AICTE R&D Research and Development RKA Registration Kept Alive UG Undergraduate degree UGC **University Grants Commission**

	DEGREES
Ph.D	Doctor of Philosophy • Regular Ph.D for those joining after a Master's degree
	<ul> <li>Direct admission to M.S.+Ph.D. in Engineering/ Mana for those joining after BE/ BTech</li> </ul>
	<ul> <li>Upgraded Ph.D in Engineering/ Management for those using from MS or M.Tech</li> </ul>
M.S.	'Master of Science' or 'Master of Science by Research' in Engineering/Technology/Management
M.S.(Entrepreunership)	Master of Science by Research (Entrepreneurship)
M.S(Applied Research)	Master of Science (Applied Research)
M.E	Master of Engineering (2 year programme)
M.Tech.	Master of Technology (2 year programme)
M.Sc	Master of Science (2 year programme in sciences)
M.A	Master of Arts (2 year programme)
M.B.A	Master of Business Administration (2 year programme)
B.E	Bachelor of Engineering (4 year programme)
B.Tech	Bachelor of Technology (4 year programme)

		Examinations			
	GATE	Graduate Aptitude Test in Engineering administered by IISc/ IITs			
	CSIR-NET	National Eligibility Test administered by CSIR for award of JRF in Physical, Chemical, Mathematical, Earth Atmospheric Ocean & Planetary and Life Sciences			
44	UGC-NET	National Eligibility Test administered by UGC for JRF award in Humanities, Social Sciences, Environmental Sciences, Forensic Science, Computer Science & Applications, Electronic Science.			
	CAT	Common Admission Test administered by IIMs Graduate Management Admission Council (GMAC)			
	TOEFL	Test Of English as Foreign Language administered by ETS			

## **ORDINANCES AND REGULATIONS**

### **MS Ordinances**

- MS-O.1 A candidate who has qualified for the award of the Bachelor's degree in engineering/technology from a recognized institute or university in a discipline as prescribed in
  the regulations of the Senate is eligible to apply for the Master of Science by Research
  (M.S) programme in engineering/entrepreneurship/management of this Institute.
  - MS-O.2 A candidate who has qualified for the award of the M.Sc degree in basic sciences from a recognized institute or university or a Master's degree in certain areas approved by the Senate is also eligible to apply for the MS programme in engineering/entrepreneurship/management of this Institute.
- MS-O.3 The award of the MS degree shall be in accordance with the regulations of the Senate of this Institute.

### **MS REGULATIONS**

#### MS-R.1 CATEGORIES OF ADMISSION

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Candidates will be admitted to the M.S programme of the Indian Institute of Technology Madras (IITM) in engineering/entrepreneurship/management under one of the following categories.

Category	Remarks
Regular-HTRA	Half-Time Research Assistantship (HTRA) from IITM.
Regular-Fellowship	Funding from outside agencies such as UGC, CSIR, industry etc.
Regular-Project-HTRA	Funding through a project administered by IC&SR at IITM.
Regular-Project-NHTRA	Funding through a project administered by IC&SR at IITM without eligibility for conversion to HTRA.
External	Sponsored by and employed in an industry, organization, or institution having R&D facilities and recognized by DST(DSIR) or IITM. Candidates should have at least 2 years of relevant work experience.
Part-time	Should be employed in a reputed industry, organization, or institution located within commutable distance of IITM. Candidates should have at least 2 years of relevant work experience.
Staff	Should be employed as a permanent staff member of IITM with at least 2 years of experience.

- (a) Scholars registered for any of the Regular categories are considered full-time scholars.
- (b) For admission under **Regular-HTRA**, **Regular-Fellowship** and the **Regular-Project-HTRA** category, departments will adopt common shortlisting criteria and have a common merit list.

(c) **Project-NHTRA** admissions can happen in two ways:

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- (i) Project staff of IC&SR who have successfully completed two approved courses at IITM (total credits ≥ 18) with CGPA ≥ 7.5, and have obtained at least a 'C' grade in each course can be selected through an interview without having to take a written test. They can join the programme after gaining at least 6 months experience in a project.
- (ii) Project staff of IC&SR who have gained at least 6 months experience in a project can be selected through a written test and interview. This selection will be for project-NHTRA applicants who do not meet the course requirement criteria.

The provisions above are also applicable to project staff working in the IITM research park.

286<sup>th</sup> Senate Res. № 96/2019

291<sup>st</sup> Senate Res. № 5/2021

- (d) A research scholar under the **External** category will carry out his/her research work in his/her organization under the supervision of a guide at IITM, and a co-guide employed in the organization. An external scholar employed in the IITM Research Park need not have a co-guide from his/her organization.
- (e) **External and part-time** scholars have a minimum residential requirement of one semester. Part-time scholars will be permitted to undergo course work without the residential requirement, with the permission of their employer.
- (f) Scholars admitted under the Regular-HTRA category can move to the Regular-Project-HTRA category and revert to the Regular-HTRA category, if necessary.
- (g) Scholars admitted under the Regular-Project-HTRA category can move to the Regular-HTRA category, provided they have been funded by a project for a duration of at least one year.
- (h) Scholars admitted under the Project-NHTRA/Part-time/External categories cannot move to the Regular-HTRA category at any time. 286<sup>th</sup> Senate Res. № 96/2019
- (i) Interdisciplinary (ID) M.S programme: Admission of scholars to the ID programme will be based on an interdisciplinary research proposal, needed as part of the selection procedure formulated by the IDRP committee. (Please refer to the admission brochure for details of the areas of research.)
- (j) The degree for **M.S** (**Applied Research**) will be Master of Science by Research as awarded for the regular M.S programme.
- (k) The medium of instruction and communication for academic research shall be English.

#### MS-R.2 ELIGIBILITY FOR ADMISSION TO THE M.S PROGRAMME

- <sup>93</sup> All the applicants should have a good academic record.
- The minimum qualifications for each of the various modes are as follows –
- These qualifications should be in relevant areas/disciplines as provided by the respective departments in the brochure released with the admission notice. The brochure will also include details about inter-disciplinary research areas. Short-listed candidates will be called for a "test and"
- interview" or "interview" by a selection committee in the respective departments.

## 99 MS-R.2.1 Minimum Qualifications for Admission to the M.S programme

Candidates applying for the M.S programme in one of the following areas need to have **any one** of the minimum qualifications mentioned in the table below.

Area	Minimum Qualifications				
	Educational Qualifications	Additional Qualifications			
Engineering	B.E/B.Tech or Master's degree in a relevant discipline, or equivalent.  or  Associate Membership of the following professional bodies of the discipline, provided they have passed parts A and B of the membership examinations: The Institution of Engineers (India)(Civil, Mechanical, Electrical and Electronics, Electronics and Communications), The Aeronautical Society of India, The Indian Institute of Metals, The Indian Institute of Chemical Engineers, The Institute of Electronics & Telecommunication Engineering and other professional bodies approved by the Senate from time to time.	Valid GATE score is required for Regular-HTRA, Regular-Fellowship and Regular-Project-HTRA categories, except for IIT B.Tech students with CGPA ≥ 8.			
Applied Mechanics	B.E/B.Tech or Master's degree in a relevant discipline, or equivalent. In addition, applicants with an MBBS degree, having taken mathematics in their +2, and having at least 2 years research/teaching experience are eligible for the sponsored M.S. programme in the area of biomedical engineering.  295 <sup>th</sup> Senate Res. № 2/2022	Valid GATE score is required for Regular-HTRA, Regular-Fellowship and Regular-Project-HTRA categories, except for IIT B.Tech students with CGPA ≥ 8.			

Engineering Design	B.E/B.Tech or Master's degree in Aerospace, Automobile, Biomedical, Civil, Computer Science, Design, Electrical, Electronics, Engineering Design, Engineering Physics, Instrumentation, Industrial Mathematics, Mechanical, Metallurgical, Naval Architecture, Production/Manufacturing Engineering.	Valid GATE score is required for Regular-HTRA, Regular-Fellowship and Regular-Project-HTRA categories, except for IIT B.Tech students with CGPA ≥ 8.		
Entrepreneurship	B.E/B.Tech or Master's degree in a relevant discipline or equivalent, or any postgraduate degree e.g. M.A. or M.Com.	Valid GATE score is required for Regular-HTRA, Regular-Fellowship and Regular-Project-HTRA categories, except for IIT B.Tech students with CGPA ≥ 8.		
Management	B.E/B.Tech or Master's degree in a relevant discipline or equivalent, or any postgraduate degree e.g. M.A. or M.Com.	Valid GATE score is required for Regular-HTRA, Regular-Fellowship and Regular-Project-HTRA categories, except for IIT B.Tech students with CGPA ≥ 8.  280 <sup>th</sup> Senate Res. № 33/2018  Valid GRE/GMAT eligible only for foreign students' admission without HTRA.		

#### **NOTES**

- (a) The departmental selection committees may set more stringent criteria than the minimum educational qualifications listed above.
- (b) For external/part-time/staff categories, the requirement of a valid GATE score or CSIR/UGC JRF or Lectureship/NBHM/CAT or equivalent qualification is waived.
- (c) The departmental selection committees may consider meritorious candidates from disciplines other than those listed in the admission brochure, if there is a good match between the educational/research backgrounds of the candidates and the proposed areas of research.
- (d) All candidates applying for M.S (Entrepreneurship) must submit a proposal, which is their own idea or apply against a listed idea¹. A screening committee will evaluate the proposals and shortlist applications to be forwarded to the selection committee for interview.

  292<sup>nd</sup> Senate Res. № 23/2021

<sup>&</sup>lt;sup>1</sup>The ideas for exploitation will be submitted through a call for proposals/projects from faculty members, similar to the process followed in IDRP submissions.

# MS-R.2.2 Conversion of B.Tech & Dual-Degree Students of IITM at the end of the 6th semester to the B.Tech + M.S (Entrepreneurship) programme

- (a) B.Tech. students at the end of their 6th semester can convert to B.Tech. + M.S (Entrepreneurship) programme if they have a CGPA  $\geq 8.0$  or a valid GATE score.
- (b) Dual-degree students at the end of their 6th semester can convert to the B.Tech + M.S (Entrepreneurship) programme, if they have a CGPA  $\geq 7.0$ . For HTRA, the students should have a CGPA  $\geq 8.0$  or a valid GATE score. The students have to complete the B.Tech requirements in the parent department.
- (c) The application (including the proposal) has to be routed through the faculty advisor and HoD. It will be treated as a new admission to the M.S (Entrepreneurship) programme.
- (d) Students who have upgraded to the M.S (Entrepreneurship) programme cannot be further upgraded to the Ph.D programme. They can revert to the B.Tech. programme after a minimum period of two years from the date of upgradation, provided they fulfill all B.Tech. requirements. They can appear in placements only once.

#### MS-R.3 Foreign Nationals

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Foreign nationals are those with foreign passports, including those who are PIO/OCI card holders.

- (a) Foreign nationals can only register as full-time scholars. They are not eligible to receive HTRA support.
  - (b) Foreign nationals who are PIO/OCI card holders are eligible for admission with the fee prescribed for Indian nationals.
  - (c) Foreign nationals with eligible degrees from Indian universities (MS-R.2) will be treated on par with Indian nationals for admission, but with the prescribed fee for foreign nationals.
  - (d) Foreign nationals with foreign degrees must meet the minimum educational requirements equivalent to an Indian degree (MS-R.2) in the relevant disciplines. They should have a valid score in the GMAT/GRE (or equivalent) examination in the relevant discipline.
  - (e) Foreign nationals whose medium of instruction in their UG and PG programmes was not English should satisfy one of the following:
    - (a) IELTS with a minimum score of 6.5 (overall)
    - (b) TOEFL (internet based): 80 (overall)

#### MS-R.4 SELECTION PROCEDURE

- Eligible candidates possessing the minimum educational qualifications (as per MS-R.2), and satisfying additional and possibly stiffer criteria set by the departments, will be called for a "test and interview" or "interview" by departmental selection committees.
- For candidates who have obtained their UG/PG degrees more than 10 years earlier (as on the last date for the receipt of completed applications), a written test will be conducted.
- Applications of foreign nationals may be considered without a test/interview.

- Based on the academic record and the performance of the candidates in the test/interview, the departmental selection committees will recommend suitable candidates to the Chairperson, Senate.
- Candidates applying to the M.S. (Entrepreneurship) programme will be evaluated by a committee set-up by the Dean(AR). Candidates found suitable will be recommended by the Dean(AR) to the Chairperson, Senate. 292<sup>nd</sup> Senate Res. Nº 23/2021

#### 156 MS-R.5 Admission

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- (a) Candidates whose selection is approved by the Chairperson, Senate will be admitted to the M.S programme after they pay the prescribed fee.
- (b) Candidates admitted to the M.S (Entrepreneurship) programme are required to undergo a common course list including ID5101, ID5102 and/or Incubate from the Gururaj Deshpande Center. At the end of the coursework, candidates have to submit a feasibility report on the product(s) proposed to be developed by them at IITM. 292<sup>nd</sup> Senate

#### 163 MS-R.6 REGISTRATION

A scholar's date of joining is the date of registration.

#### 165 MS-R.7 GUIDES AND CO-GUIDES

- To supervise the progress of the scholar, an IITM faculty member shall be nominated as a guide by the Dean(AR).
- In addition to the guide, at most one faculty member from IITM may be nominated as a co-guide.
- A co-guide from outside IITM may be allowed with the approval of the Chairperson, Senate.

#### In addition to the above,

- (a) If the guide from IITM proceeds on leave for more than a year, another faculty member may be appointed as a co-guide.
- (b) A faculty member, who has guided a candidate for at least 2 years, will continue to be a guide post-retirement. However, another member, with at least 3 years of service remaining, will be nominated as a co-guide at the time of the guide's retirement.
- (c) A faculty member retiring within 2 years may be permitted to be a guide for a new scholar. However, another faculty member with at least 3 years of service remaining will be appointed as a co-guide when the scholar joins IITM. On retirement, the faculty member will continue to be a guide.
- (d) The appointment of co-guide, based on the recommendation of the General Test Committee (GTC), should be made within one year from the date of joining. Requests received after this will be considered by the Dean(AR) on a case-by-case basis.
- (e) The GTC may recommend change of guide/co-guides or appointment of a co-guide for valid reasons.

- (f) CSIR/ other Emeritus Fellows / Scientists / Emeritus Professors, currently holding office at IITM with an appointment period of at least one year, can be a co-guide along with a guide (who has at least 3 years of service remaining).
- (g) Faculty from other CFTIs/universities or experts from industries with a Master's degree, and with adequate professional experience in the relevant field may be appointed as a co-guide, based on the recommendation of the GTC. If the co-guide's organization does not have an MoU with IITM, he/she shall sign an Intellectual Property Rights (IPR) and Memorandum of Agreement (MoA). IITM will have no financial obligation to the co-guide. The co-guide approval by the Dean(AR) will be provisional, subject to his/her appointment as an adjunct faculty by BoG within 6 months of the provisional approval. The term for such adjunct faculty will be for 5 years from the date of appointment.

The request to appoint a co-guide as adjunct faculty should be sent to the Dean(Admin) along with the recommendation of the departmental consultative committee (DCC). *Only adjunct faculty of IIT Madras are eligible to serve as co-guide*. 281<sup>st</sup> Senate Res. № 72/2018

(h) Co-guides of external category scholars from industries need not be adjunct faculty.
 281<sup>st</sup> Senate Res. № 72/2018

#### MS-R.8 GENERAL TEST COMMITTEE

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<sup>203</sup> A General Test Committee (GTC) shall be constituted to periodically assess the scholar's progress.

The following is the composition of the GTC:

HoD (or his/her nominee)	Chairperson of the GTC		
Guide/Co-Guide*	Member(s)		
Minimum of 1 departmental faculty member **	Members nominated by the Chairperson, Senate (or his/her nominee) from the panel names sug		
Minimum of 1 faculty member from allied departments/institutions	gested by the HoD.		

<sup>\*</sup> co-guide is optional

#### For M.S (Entrepreneurship)

HoD of main guide's department	Chairperson of the GTC		
Guide /co-guide*	Member(s)		
1-2 members from the Institute 0-1 members from outside the institute	Members nominated by the Chairperson, Senate (or his/her nominee) from the panel names suggested by the HoD, with at least 1 member from the Program Coordination Committee (PCC).		

<sup>\*</sup> co-guide is optional

<sup>\*\*</sup> for the interdisciplinary M.S programme, it is one member from the primary department

Advisors from industry are encouraged. However, they will not be part of the GTC, unless approved by the Dean(AR).

#### MS-R.8.1 Additional Guidelines for the GTC

If the HoD is the guide, the senior-most professor/previous HoD will be nominated as the Chairperson GTC by the Chairperson, Senate (or his/her nominee).

- (1) The Chairperson, GTC must attend the thesis submission approval and the viva-voce meetings.
- 214 (2) If a GTC member goes on leave for more than a year or resigns/retires from IITM, the Chairperson, Senate (or his/her nominee) will nominate another member on the suggestion of the Chairperson, GTC.
- 217 (3) The GTC members from outside IITM must meet the same eligibility criteria as co-guides MS-R.7.
- 219 (4) The GTC shall conduct periodic progress review meetings as outlined in MS-R.10.
  - (5) All the GTC members will be invited for all the meetings related to the scholar.
- (6) All the decisions and recommendations made by the GTC shall be minuted and forwarded to the Dean(AR).

#### MS-R.9 ENROLLMENT

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- A scholar is required to enrol every semester after paying the requisite fees, until the submission of the thesis.
- Enrolment has to be completed by the stipulated date, and should be approved by the HoD.
- Enrolment will be cancelled if progress is not satisfactory.
- Scholars belonging to the external category/part-time/RKA, and those who have temporarily
  withdrawn, or are on maternity leave, and those on academic duty with prior permission from
  the Institute, are eligible to enroll in absentia during the stipulated period after payment of the
  requisite fee.

#### MS-R.10 M.S REQUIREMENTS

The requirements for the completion of the M.S are listed below.

Requirements	Expected time frame	Section
0th GTC meeting <sup>\$</sup> 295 <sup>th</sup> Senate Res. № 9/2022	Start of programme	MS-R.11
Course work	Within two semesters	MS-R.11
Mid-term review  Open seminar	Within 18 months <sup>#</sup> 295 <sup>th</sup> Senate Res. № 9/2022  Within 27 months	
Thesis-Submission Approval Meeting  295 <sup>th</sup> Senate Res. № 9/2022	Within 3 months of the open seminar	MS-R.13
M.S viva voce examination, if i	recommended by the reviewer(s)	MS-R.14

<sup>\$</sup> The 0th GTC meeting can be by email circulation. 295<sup>th</sup> Senate Res. № 9/2022

- (a) Registered scholars should submit a progress report twice during an academic year to the GTC. The guide's assessment of the scholar's progress and approval of the Chairperson, GTC is required for enrolment in the subsequent semester.
- (b) Continuance of registration after 2.5 years will depend on the recommendation of the GTC.
- (c) The open seminar is considered to be a GTC meeting.
  - (d) Beyond 2.5 years, progress review meetings by the GTC will be held once every 6 months.
    - (e) In addition to the above, the HoD/Dean(AR) may convene a special GTC meeting(s) based on the request from the scholar/guide, to address any issue(s) with respect to the research progress of the scholar.

#### MS-R.11 Course Work

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#### 45 MS-R.11.1 General Guidelines

- (a) A basket of courses with twice the number of required courses will be recommended by the GTC at the start of the programme. Courses shall be at the post-graduate level at IITM, and will be prescribed by the GTC in its 0th meeting (possibly via email circulation).

  295<sup>th</sup> Senate Res. № 9/2022
- (b) Changes in the prescribed courses shall be made only by the GTC.

<sup>#</sup> The 1st GTC meeting should be held within the first 18 months. The scholar is expected to propose and defend his/her research plan. HTRA will continue after 18 months (up to 30 months) only upon the recommendation of the GTC. 295<sup>th</sup> Senate Res. № 9/2022

- (c) The GTC may approve courses already undergone by the scholar in other institutions towards meeting the course work requirements of IITM. These courses must be equivalent to those prescribed, and the scholar's performance in these courses must meet IITM's minimum requirements. Courses already undergone by the scholar in IITM or other institutions shall not be considered if they were part of the requirements for the award of any other degree/diploma.
- (d) Contact courses may be allowed subject to approval of the GTC.
- (e) All courses successfully cleared by the scholar (i.e., grade C or above) will be considered for CGPA calculation. To be eligible for the M.S degree, the CGPA ≥ 7.5.

  295<sup>th</sup> Senate Res. № 9/2022

#### MS-R.11.2 Coursework Requirement for Research Scholars

Discipline	Minimum Course Work	<b>Minimum Credits</b>
Engineering/Management/ Entrepreneurship	Five courses out of a basket of 10 courses along with ID6020 and ID6021*	45

<sup>\*</sup> ID6021 is optional, to be decided by the Department as well as GTC

- (a) The GTC must prescribe a basket of ten courses. The scholar is required to take at least five courses out of the prescribed basket along with ID6020 and ID6021 (if required by the department). 295<sup>th</sup> Senate Res. № 9/2022
- (b) Research scholars shall obtain a CGPA ≥ 7.50, subject to a minimum of a "C" grade in each of the prescribed courses. 295<sup>th</sup> Senate Res. № 9/2022
- (c) All courses successfully cleared by the scholar (i.e., completed with a grade of C or better) will be considered in the computation of the CGPA. Once a course is successfully completed, it cannot be repeated.
- (d) The GTC may reduce the course requirement for B.Tech./dual-degree students upgrading to B.Tech+M.S (Entrepreneurship) programme.

#### MS-R.11.3 Grades and CGPA

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Based on performance, each scholar is awarded a final grade at the end of the semester in each subject. The grades and the corresponding grade points are as follows:

Grade	S	A	В	С	D	Е	U
<b>Points</b>	10	9	8	7	6	4	0

The CGPA will be calculated according to the formula

$$CGPA = \frac{\sum C \times GP}{\sum C}$$

where C = credits and GP = the grade point obtained for the course. The sum is over all the successfully completed courses (i.e., those where the grade obtained is 'C' or above).

#### MS-R.12 Upgradation from the M.S to the Ph.D Programme

- (a) Candidates registered for the M.S are eligible for upgradation to the Ph.D programme in the same department, if they have a CGPA>=8 in the prescribed courses completed (at least three of the prescribed courses should have been completed).
- (b) Upgrade requests should be submitted within 2 years from the date of joining. For M.S scholars who have completed 2 years, the request for an upgrade may be considered if at least one journal paper has been accepted/published.
- (c) After upgrading to the Ph.D programme, an M.S scholar can revert to the M.S programme after one semester.
- (d) M.S (Entrepreneurship) scholars cannot upgrade to the Ph.D programme.
- (e) M.S scholars who upgrade their registration to the Ph.D programme are bound by the regulations of the Ph.D programme.

#### MS-R.13 THESIS AND PANEL OF EXAMINERS

The M.S thesis is a detailed report of the scholar's research. 295<sup>th</sup> Senate Res. № 9/2022

- (a) The scholar shall circulate the thesis to the GTC after satisfactory completion of courses, research and the open seminar. The thesis must be submitted within three months of the open seminar. The Chairperson, GTC shall then convene a thesis-submission approval meeting. If approved by the GTC, the thesis should be submitted by following relevant procedures laid down by the academic section.

  295<sup>th</sup> Senate Res. № 9/2022
- (b) M.S (Entrepreneurship) scholars shall submit only one business development thesis, focusing on the product/solution specifications(technology survey), market segmentation and other commercial aspects, validated through a rigorous market survey.
- (c) The Dean(AR) may permit extension of thesis submission time based on valid reasons. Depending upon the nature of publication(s) arising out of the research, the GTC may recommend submission of the thesis as per the following guidelines:
  - (i) The thesis shall be submitted to the HoD, if the research (or part thereof) presented in the thesis has been published (accepted) as (i) at least one research paper in a refereed journal of quality acceptable to the GTC, or (ii) at least one full paper in conference proceedings, which is evaluated by two referees (evidence of the rigour of the refereeing process must be submitted by the scholar in the form of editor's communication(s)/referee's comments). The thesis will then be evaluated by one examiner from IITM. The thesis examination process will be handled by the office of the HoD.
  - (ii) The thesis shall be submitted to the academic section if there is no publication from the research, or the publication does not meet the criteria given in (i) above. The GTC will suggest the names and addresses of at least 6 examiners chosen from within India, including IIT Madras. The HoD may obtain concurrence of the examiners via email using the thesis abstract and the scholar's list of published works (if any) as inputs to potential examiners.

    295<sup>th</sup> Senate Res. № 9/2022 The thesis will be examined by two examiners chosen by the Dean(AR).

- (d) For the M.S (Entrepreneurship) programme, the evaluation must focus on the techno-commercial aspects of the business, with emphasis on business feasibility, methods applied to perform primary market research, and estimation of all elements of the business model. The guides and Chairperson,GTC should find an appropriate set of examiners who are competent to evaluate the techno-economic merit of the thesis.
- (e) For the M.S (Applied Research) programme, the GTC can recommend appropriate methods of review so that the information in the thesis is kept confidential.

#### MS-R.14 THESIS REPORTS AND VIVA

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- (a) When the thesis evaluation process is handled by the HoD (as per MS-R.13 (c) (i))
  - (i) If the examiner declares the thesis as 'commended', the need for a viva-voce examination will be decided based on the comments of the examiner(s) and the scholar's response of these comments. The GTC will conduct the viva-voce.
    - If the performance is satisfactory, the GTC will recommend the award of the M.S degree after appropriate modifications(if any).
    - If the performance is not satisfactory, the scholar shall reappear for the viva-voce examination, not earlier than two weeks and not later than six months from the first examination.
    - If the performance of the research scholar is not satisfactory in the second examination, the matter will be referred to the Senate for a decision.
  - (ii) If the examiner recommends that the thesis should be resubmitted after revision, the scholar will be allowed to do so within the time stipulated by the GTC, failing which the revised thesis will not be accepted, and his/her registration will be cancelled.
  - (iii) If the examiner evaluates the thesis as 'not acceptable', the thesis shall be referred to another examiner for evaluation.
- (b) When the thesis evaluation process is handled by the Dean (AR) (as per MS-R.13 (c) (ii))
  - (i) If the two examiners declare the thesis as 'commended', the need for a viva-voce examination will be decided based on the comments of the examiner(s) and scholar's response to these comments. The GTC will conduct the viva-voce.
    - If the performance is satisfactory, the GTC will recommend the award of the MS degree after modifications(if any).
    - If the performance is not satisfactory, the scholar shall reappear for the viva-voce examination, not earlier than two weeks and not later than six months from the first examination.
    - If the performance of the research scholar is not satisfactory in the second examination, the matter will be referred to the Dean(AR) for a decision.
  - (ii) If one or both of the examiners recommend(s) that the thesis should be resubmitted after revision, the scholar will be allowed to do so within the time stipulated by the GTC, failing which the revised thesis will not be accepted and his/her registration will be cancelled.

- (iii) If one of the examiners evaluates the thesis as 'not acceptable', the thesis shall be referred to a third examiner for evaluation.
- (iv) If two examiners evaluate the thesis as 'not acceptable', the thesis will be rejected and the registration will be cancelled.
- (c) In all other cases not covered by the above regulations, the matter will be referred to the GTC for consideration and recommendation to the Dean(AR).

#### MS-R.15 MINIMUM AND MAXIMUM DURATION

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The minimum duration of the M.S programme from the date of registration to the date of submission of thesis shall be 18 months. The minimum residential requirement for the scholars under external or part-time (not employed in the Institute) registrations is one semester. This requirement is waived for external scholars who are employed in the IITM Research Park.

M.S scholars shall submit the thesis within 2 1/2 years from the date of registration. The GTC may extend this period up to 1 year for full-time research scholars, with an additional year for research scholars who are external, part-time, or staff members of the Institute.

The registration period of the programme will be extended by the duration of the sanctioned maternity leave (up to a maximum period of 180 days).

The period of medical leave, duly certified by the Institute Hospital, can be considered by Dean(AR) to extend the registration period of the programme, up to a maximum period of one year.

282<sup>nd</sup> Senate Res. No 101/2018

#### <sub>75</sub> MS-R.16 Relief from the M.S Programme to Take Up Employment

A regular full-time scholar who has a job offer can obtain relief from the programme upon recommendation by the GTC, if (s)he has completed the minimum residential requirement of 18 months, coursework, and the open seminar.

The scholar should keep his/her registration alive by paying the requisite fee every semester. Renewal of the registration each semester is subject to the GTC finding the scholar's progress satisfactory.

#### MS-R.17 WITHDRAWAL FROM THE PROGRAMME

A scholar may be permitted by the Dean(AR) to withdraw from the programme for a semester or longer for health reasons or any other valid grounds, if duly recommended by the GTC. A scholar will be permitted to discontinue from the programme only for a maximum continuous period of two semesters.

#### MS-R.18 Cancellation of Registration

- (a) The registration of a research scholar who has not enrolled, or whose progress is not found to be satisfactory by the GTC is liable to be cancelled.
- (b) The registration of a research scholar who has not submitted his/her thesis before the end of the maximum permissible period (MS-R.15) will be cancelled.

#### MS-R.19 Reversion of Scholars Upgraded from the M.S to the Ph.D.

- (a) A scholar may apply for reversion to the M.S programme after one semester from the date of upgradation.
- (b) If the scholar does not pass the comprehensive examination in two attempts, he/she will be reverted to the M.S programme. The DC will continue to function as the GTC till the completion of the requirements for the M.S degree. The scholar must complete the degree requirements (MS-R.10) within one year from the date of reversion.

# MS-R.20 Conversion of Regular/Direct M.S + Ph.D. Registration to the M.S

A scholar directly admitted to the M.S + Ph.D. programme can apply for conversion to the M.S programme under the same guide, if he/she fulfils all M.S admission criteria for the corresponding year of selection. This option is not available for Regular Ph.D. scholars.

A Regular/Direct M.S + Ph.D scholar in Engineering/Management who does not pass the comprehensive examination in two attempts, may request the DC to convert his/her registration from the Ph.D. to M.S programme under the same guide. If this option is not exercised, his/her registration will be cancelled. The DC may recommend conversion of registration for approval by the Senate.

- (a) The DC will continue to function as the GTC till the completion of the M.S requirements.
- (b) The duration of the scholar's M.S programme shall not be more than three years from the date of first registration in the Ph.D programme.
- (c) In its first meeting following the conversion of registration, the GTC may recommend additional courses necessary to satisfy the requirements towards the M.S programme.
- (d) The award of HTRA to the scholar will be as per the M.S programme.

#### MS-R.21 AWARD OF THE M.S DEGREE

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Upon satisfactory completion of all requirements and the submission of the final thesis, the scholar will be awarded a Master of Science by Research degree on the recommendation of the Senate, and with the approval of the Board of Governors of IITM.

For IITM students upgrading from the B.Tech/dual-degree programme to the B.Tech + M.S (Entrepreneurship) programme, the two degrees will be awarded after successful completion of the requirements of both the programmes.

The award of M.S degrees before the convocation will be considered on request, provided the scholars have completed all the requirements.

#### MS-R.22 DISCIPLINE

- Every scholar is required to observe disciplined and decorous behaviour both inside and outside the campus and should not indulge in any activity, which will bring down the prestige of IITM.
- Any act of indiscipline of a scholar reported to the Dean(AR) will be referred to a Discipline and Welfare Committee nominated by the Senate. The committee will investigate and recommend suitable punishment if it finds the charges substantiated. The recommendation of the committee will be considered by the Board of Academic Research, which will authorize the Dean(AR) to take appropriate action. The Dean(AR) will report the action taken at the next meeting of the Senate.
- Appeal: The scholar may appeal to the Chairperson, Senate whose decision will be final.

#### MS-R.23 Power to Modify

Notwithstanding all that has been stated above, the Senate reserves the right to modify any of the above regulations.