

INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

RULES AND REGULATIONS

**M. Tech./M. Phil./M. Des./
M. Mgt./DIIT Programme**



Academic Office

M.TECH., M.PHIL.,M.DES.,M.MGT.,DIIT.PROGRAMME STRUCTURE AND RULES.

Preface

Academic Programmes of the Institute are governed by Rules and Regulations as approved by the Senate, which is the highest Academic body of this Institute. The Senate continuously monitors these programmes and makes appropriate modifications/improvements from time to time. This booklet gives comprehensive information on the existing Rules & Regulations about M. Tech./M. Phil./M. Des./M. Mgt./DIIT Programme.

The academic system is semester based and hence the students are required to follow certain procedures and meet certain academic requirement each semester.

It is in the interest of the students that he/she should be fully familiar with the academic systems of this Institute. Particular attention should be paid to the assessment procedure, rules governing the systems and academic performance.

The academic performance is monitored by **Postgraduate Academic Performance Evaluation Committee (PGAPEC)**, which also reviews status of individuals after reviewing their performance.

PROGRAM COMMITTEES

The Institute offers Postgraduate Programmes in various areas (Table-1). The following sections provide the details of the programmes and set of rules governing them.

In order to keep pace with the rapid developments in science and technology and also to keep in view the requirements of the nation and the aspirations of students, it is imperative that the academic programmes of the Institute are reviewed continuously. The Postgraduate Programmes Committee (PGPC) is entrusted with this responsibility. It deliberates upon academic proposals received from the various **Departmental Postgraduate Committees ((DPGCs), Interdisciplinary Programmes Committees (IDPC's), School Postgraduate Committees (SPGCs) and Postgraduate Committees for Centre (PGC's)** makes suitable recommendations to the Senate for its approval.

FACULTY ADVISORY SYSTEM

The advisory system plays a very important role in a flexible curriculum of the type offered under the various programmes of the Institute. The choice of courses being very wide, and considerable flexibility in the programme being its characteristic feature, students normally need guidance to formulate a meaningful and well-knit programme for each of them. On joining the Institute each students are assigned to a Faculty Advisor or a group of Faculty Advisors. He/She is expected to consult his/her Faculty Advisor on all matters relating to his/her in-semester and end-semester academic performance and the course workload he/she may take in particular semester. The students are advised to contact the Faculty Advisors for advice about courses within the framework of the norms laid down for the purpose. For the student's project, his/her supervisor automatically becomes a Co-faculty Advisor. For further registration for courses, the students should consult their project supervisor also.

Table 1 gives the various programmes and specializations, which are available at the Institute.

Table 1
M.TECH., M.PHIL., M.DES. AND M.MGT. PROGRAMMES

Programme	Specialization	Offered by Dept/IDP/Centre/School
<u>M.Tech.</u>		
Aerospace Engg.	1. Aerodynamics 2. Dynamics & Control 3. Aerospace Propulsion 4. Aerospace Structures	Aerospace Engg.
Chemical Engg.	--	Chemical Engg.
Civil Engg.	1. Transportation Systems Engineering 2. Geotechnical Engineering 3. Water Resources Engineering 4. Structural Engineering 5 Remote Sensing	Civil Engg.

Computer Sc. & Engg. PGDIIT	--	Computer Sc. & Engg. -do-
Earth Sciences	1. Geoexploration 2. Petroleum Geoscience	Earth Science
Electrical Engg.	1. Communication Engg. 2. Control & Computing 3. Power Electronics and Power Systems 4. Microelectronics 5. Electronic Systems	Electrical Engg.
Mechanical Engg.	1. Thermal & Fluids Engg. 2. Design Engineering 3. Manufacturing Engineering	Mechanical Engg.
Met. Engg. & Materials Science	1. Materials Science 2. Process Engineering	Met. Engg. & Mat. Sc.
Corrosion Sc. & Engg.		Met. Engg. & Mat. Sc.
Biomedical Engg	--	School of Biosciences and Bioengineering
Energy Systems Engg.	--	Interdisciplinary Group of of Energy Systems Engg.
Environmental Sc. & Engg.	--	Centre for Environmental Sc. & Engg.
Industrial Engineering and Operation Research	--	Interdisciplinary Group of Industrial Engg. & Operation Research
Reliability Engineering	--	Interdisciplinary Group of Reliability Engineering

Systems & Control Engg. -- Interdisciplinary Group of Systems & Control Engg.

Natural Resources Engg. -- Centre for Studies in Resources Engineering

Centre for Technology - Technology Centre for Technology
Alternatives for Rural Areas and Development Alternatives for Rural Areas (CTARA)

M.Phil.

Humanities & Social Sc. Planning & Development Humanities & Social Sciences

M.Des.

Industrial Design	Industrial Design Centre
Visual Communication	-----do-----
Animation	-----do-----
Interaction Design	-----do-----

M.Mgt.

Master of Management -- SJM School of Management

DIIT -- --

M. TECH. AND M. PHIL. PROGRAMMES

These programmes are of 2-years duration. The total minimum credit requirement for the entire programme varies from one programme to another (i.e. the M.Tech Programme of Department 'A' may be different from the Department 'B'), and may be in the range of 156-170 credits. Each programme is managed as per the Institute rules by a Programme Committee (PC) set up by Department/ School/Centre/ID Group, offering the programme.

The total credits are divided between course credits and the M.Tech/ M.Phil project credits, and as specified by the individual Programme Committees(PCs). Course credits

include theory courses, laboratory courses, seminars and other academic work like practical training, field visits, etc. as specified by the PCs. To enhance interdisciplinary content, one Institute Elective course has been made mandatory for all students, wherein students will select a course from a list of courses specified from time to time. Apart from this one course on Communication Skills is compulsory for all students. A programme may have a mix of compulsory and elective courses.

The common framework of the programmes incorporates sufficient flexibility both at the individual programme level and the student level. All academic work associated with the programmes, including those, which carry a PP/NP grade, carry credits commensurate with the quantum of work.

Students with adequate background may be permitted by PCs to replace 6 or 12 course credits with R&D projects (distinct from M.Tech/M.Phil project). If the option is for 12 credits, it can either be taken together in one semester or split into two projects of 6 credits each, taken in two semesters. One cannot register for more than 6 R&D project credits in the first semester. The projects will be evaluated as per norms set by each PC and will be awarded letter grades.

Another important feature of the programme is the concept of a 'minor' wherein a student can utilize electives into a focused group of courses in another discipline. A minor will consist of a minimum of 18 course credits. This may include a maximum of 6 credits of R&D project. What constitutes a minor is clearly prescribed by the concerned PCs as shown in the programme structure.

Table 2 gives, as an example, the structure of the M.Tech. Programme for the hypothetical Department. The credits are distributed over 4 semesters. The second and the fourth semesters include the immediately succeeding summers, and hence have higher credits. There should be a minimum of three theory courses in the first semester. Other courses may be spread over the next three semesters. The project work, done in three stages, is distributed in semesters 2,3 and 4.

Please see the bulletins of various departments/centers/schools & Interdisciplinary groups for details of their programmes.

Table 2
A Typical M.Tech./ M.Phil. Programme Structure:

Credits	Sem I	Sem II	Sem III	Sem IV	Total
Course Work					
Core Courses	18	6	--	--	24
Elective	12	12	--	--	24
Institute Elective	--	6	--	--	6
Courses outside Dept.	--	--	--	--	--
Lab Course	4	--	--	--	4
Seminar	4	--	--	--	4
R&D Project	--	6	--	--	6
Communication (P/NP) (* not included in total)	--	+4	--	--	4
Training (P/NP)	--	--	--	--	--
Course Total	38	30+4	--	--	(64+4) 68
Project	--	16	32	42	90
Total	38	52(+4)	32	42	158 (+4)

M.DES. PROGRAMME

(Industrial Design, Visual Communication, Animation and Interaction Design)

Industrial Design Centre offers a 2-year programme leading to Master of Design degree (M.Des.) in Industrial Design, Visual Communication, Animation and Interaction Design.

The first two semesters in the first year consist of theory courses and learning/instruction-oriented projects. The second year is largely spent on design projects. Depending on their interest the students choose elective courses in the 3rd semester. In the last two semesters the students undertake three application-oriented projects of varying duration and complexities. The schedule of projects and seminars for students of this programme is given in Table 3.

Table 3

Semester wise Credits structure for Industrial Design

<i>Semester</i>	<i>Credit for Courses</i>		<i>Credit for Project</i>			<i>Total</i>
	Dept. courses	Other electives	I	II	III	
First Semester	39					39
Second Semester	35					35
Third Semester June only (July to November)	15	6	4	15		40
Fourth Semester December to April May to June	6				24 6	30 6
Total	95	6	4	15	30	150

Semester wise Credits structure for Visual Communication

Semester	Credit for Courses		Credit for Project			Total
	Dept. courses	Other electives	I	II	III	
First Semester	38					38
Second Semester	37					37
Third Semester June only (July to November)	8	12	4	15		39
Fourth Semester December to April May to June	6				24 6	30 6
Total	89	12	4	15	30	150

MASTER OF MANAGEMENT PROGRAMME

Master of Management (M.Mgt.) Programme is a 21 months full-time postgraduate course conducted by the Shailesh J. Mehta School of Management. Most of the courses in the School are organized in a half semester fashion, thus allowing students to complete as many as ten courses in a semester. Students are also allowed to pursue related courses from other department such as Industrial Engineering & Operations Research, Computer Science and Engineering, and Industrial Design Centre.

Table 4

<i>Semester</i>	<i>Credit for courses</i>		<i>Credit for Project</i>	<i>Total</i>
First Semester	40			40
Second Semester	40			40
Third Semester	4	34-36		38-40
Fourth Semester	4	34-36		38-40
Total	88	68-72		156-160

PGDIIT

- i) Whenever the PGDIIT is proposed from among the existing courses, which are part of the regular M.Tech. Programme of the department, the eligibility criteria should be same as the eligibility to appear for GATE and additional constraints as required by individual departments.
- ii) When the PGDIIT Programme is an independent programme by itself, the eligibility criteria, should be defined by the concerned department based on the focus of the course. (These criteria could be same as the eligibility criteria for taking GATE examination).
- iii) Industrial experience and industry sponsorship need not be mandatory for admission to PGDIIT.
- iv) The admission procedure for PGDIIT programme should be defined by the department (it may, for example, consist of a written test and/or an interview).
- v) Minimum credit requirements should be 58 credits.
- vi) A minimum passing grade (DD) must be prescribed in each course. **The minimum cumulative grade point index (CPI) should be 5.50 for award of the diploma.**

- vii) The PGDIIT programme must include a Seminar (4 credits) or Project (10 credits) as part of the credit requirements.
- viii) Departments may offer specialized PGDIIT programme, where they will prescribe the minimum number of courses from the area of specializations.
- ix) If a candidate fails in a course, a 100 marks re-examination should be given once (a suitable fee for re-examination may be charged). Further, failures should require a repeat (with fresh course fees) or registration in an alternate course.
- x) In case of situations not covered above, the normal Institute Rules should be applied.

1. GENERAL INFORMATION

1.1. REGISTRATION

- 1.1.1 On joining the Institute every student is required to plan his/her academic programme in consultation with a Faculty Advisory Group of the Department/IDP/SPGC in which the student is admitted. Details of the academic requirements of this programme and details of courses available are given in the bulletin. **The bulletins are available on the website of each Departments.**
- 1.1.2 The registration for each semester is carried out through the computerized "Online Registration" programme. This registration is mandatory for all students, and they must register themselves on the prescribed dates announced from time to time. Every student must register in each semester until he/she completes the programme.
- 1.1.3 All students have to clear the Institute and Hostel dues before **Registration.**
- 1.1.4 If a student does not register for regular Semester (Autumn or Spring) without prior written permission of PGAPEC, his/her name is likely to be struck off from the rolls of the Institute and he/she may not normally be readmitted. To obtain prior permission, the student must apply to PGAPEC at least one month in advance of the date of registration.
- 1.1.5 The Faculty Advisory Group is authorized to carry out the course registration and also adjustments as specified later. However, once the student is registered for the project work, the project supervisor also acts as a Co-faculty Advisor. A student is to register for courses in the beginning of the semester, which is to be done on the dates announced for the purpose.

1.1.6 Along with the credit courses, a student is normally allowed to take a maximum of one audit course per semester. The registration for this is also to be done in consultation with the Faculty Advisory Group and at the same time as for the credit courses.

1.1.7 A student is not permitted to re-register for a course, which he has undergone and in which he has secured AU, DD or higher grades.

1.2 COURSE ADJUSTMENTS

Within the period prescribed in the Academic Calendar, a student can substitute one or more courses by others. For this purpose the student **has to do Course Adjustment** in consultation with his/ her Faculty Advisory Group.

2. RULES AND REGULATIONS

The rules and regulations governing the M.Tech., M.Phil., M.Des., M.Mgt., and DIIT programmes are given below:

2.1 ADMISSION

MR 2.1.1 (a) STUDENT STATUS

There are various types of student's status:

1. Institute Teaching Assistantship (TA) – Full-time
2. Teaching Assistantship through Project (TP) – Full-time
3. Research Assistantship – Part time
 - i) Institute Research Assistantship (RA)
 - ii) Project Research Assistantship (PA)
4. Project Staff (PS) – Part time
5. Institute Staff (IS) – Part time
6. Self-financed students (SF) – Full-time/ Part-time
7. Sponsored (SW) – Full-time/ Part-time
8. Full-time students under QIP/ CSIR/ paid by outside agencies
9. Foreign students with scholarship (Indian Council for Cultural Relations)/ Self-financed

NOTE:

(1) Institute Teaching Assistantship (TA):

A full-time student should complete the Programme within **24 months**. A Full Time student on Teaching Assistantship will receive the Institute Assistantship for the duration of **four** semesters of the M.Tech./M.Phil. and M.Des. Programme, provided he/she has cleared GATE/CEED/MET. However, IIT B.Tech's getting a CGPA/CPI score of 8 or above (on a scale of 10) may be admitted to IIT's M.Tech. Programme with Teaching Assistantship without having to appear in GATE.

Such students are awarded **Teaching** Assistantship on the following condition.

i) They should not accept any other scholarships/employments/financial assistance/salary etc. awarded through any other sources or shall not hold any appointment, paid or otherwise.

ii) They are not sponsored by any organization.

lii) They do not leave the course midway or appear in any competitive examination not related to engineering/technology.

iv) The present rate of Teaching Assistantship of **Rs.5000/-** per month is payable for a maximum period of **24 months (M.Tech. and M.Phil.)** and **23 months (M.Des.)**. However the Teaching Assistantship is not payable after the date of final assessment of project.

(a) Students getting the assistantship will be required to assist in teaching or research, as assigned by the department, to the extent of 8 hours per week.

(b) The continuation of the assistantship will be subject to satisfactory performance of the duties assigned by the Department/Center as well as satisfactory academic performance (see section 5).

(c) All M.Tech and M.Phil students will have to complete the programme in 24 months and M.Des students will have to complete the programme in 23 months.

(2) Full-time/Part-time Sponsored Students:

Sponsored candidates who are admitted to the programme should have full financial support from the concerned sponsoring agency, namely, the Govt. Department, organization, Industry, etc., for the entire duration of the programme. They can complete

programme on full-time or part-time basis, depending on the nature of sponsorship. Sponsored candidates are not eligible for any Institute Assistantship. Admission to Sponsored candidates will be based on valid GATE score or 2 years of relevant experience and performance in the Written Test and/or Interview.

(3) Full-time students under QIP/CSIR/paid by outside agencies:

The Institute also admits students under Quality Improvement Programme (QIP) from Engineering Institutes/Colleges approved by All India Council for Technical Education (AICTE). The Institute also admits students who have cleared Council for Scientific & Industrial Research (CSIR) examination. Few students also get financial support from outside agencies such as Tata Consultancy Services (TCS), Ministry of Non-conventional Energy Sources (MNES), Atomic Energy Regulatory Board (AERB), etc. (As approved by the Institute from time to time).

(4) Full-time/Part-time Self-Finance Student:

The Institute also admits a limited number of students under self-financed category on the basis of their GATE percentile and performance in written test/interview. These students have to support themselves fully. These students may be permitted to change to TA category, if available.

(5) Project Staff (PS)

This category is for Employees working in Sponsored Research Project at the Institute.

Candidate to this category will be admitted subject to:

- a) 6 months service in project.
- b) Valid GATE score OR 2 years total experience of which 6 months in the Project of the Institute.
- c) Performance in Written Test/Interview.

The students joining the programme under this category require to satisfy following norms:

- a) The candidate under this category will be required to assist as assigned by the principal investigator of the concerned project.
- b) They are required to work for up to 20 hours a week.
- c) The duration of this category of M.Tech. programme is 3 years.

(6) Institute Staff:

- a) Being permanent employee of the Institute.
- b) Valid GATE score OR more than 2 years relevant experience.

- c) Performance in Written Test/Interview.
- d) The applicant must have 2-years service left.
- e) Students admitted under this category have to complete M.Tech. Programme in 3 years.
- f) Should not have more than 10% low GATE score to that of cut-off followed for General category applicants.

(7) Foreign Students:

Admissions criteria of foreign students will be on case-to-case basis and will depend on the details of the programme completed and his/her performance.

(8) Research Assistant (Part-Time):

Depending upon the requirement, each department/center may **admit** one Research Assistant every year.

- (a) Students who have valid GATE score will be considered for Research Assistantship.
- (b) The amount of Assistantship will be **Rs. 6000/-** per month, with **annual increment of Rs. 500/-**.
- (c) These Research Assistants have to look after the laboratories and also assist in teaching or research or other work assigned by the Head of the Department.
- (d) They are required to work for about 20 hours a week. They have to complete the PG Programme in **3 years**.

MR 2.1.1 (b) Criteria for admission to M.Tech. programme through CEP

- (a) A candidate should apply to the DPGC through CEP for conversion to M.Tech. after completing **at least 40 credits with minimum 6.5 CPI at the time of application.**
- (b) Professor In-charge, CEP will provide the details of the academic performance of the candidate.
- (c) DPGC/IDPC/PGC should examine the application and see that the courses completed by the candidate in CEP are equivalent to courses recommended for regular M.Tech. Students.
- (d) DPGC/IDPC/PGC should also recommend a time-limit for completion of programme.

MR 2.1.2

Change of student status is permitted subject to approval of PGPC from one category to another.

Rules for change of categories:

1. Admissions to Institute Teaching assistantship (TA), Institute Research Assistantship (RA), Teaching Assistantship through project (TP) and Project Research Assistantship (PA) categories are on competitive basis and based on valid GATE score.
2. Candidates admitted to Institute Research Assistantship (RA), Teaching Assistantship through Project (TP) and Project Research Assistantship (PA) cannot change their category to Institute Teaching Assistantship (TA).
3. Candidate admitted under Project Research Assistantship (PA) category may be supported by the Institute in exceptional cases for maximum period of 1 year.

MR 2.1.3 Change from M.Tech. to Ph.D.

- (a) If a student who is pursuing full-time M.Tech. programme at the Institute and is fulfilling the minimum qualifications prescribed for admission to any specific Ph.D. programme of the Institute, wishes to change over to that Ph.D. programme, he/she may be permitted to do so provided he/she has obtained an SPI of 9.00 or above after having registered for **full** credits of course work in the first semester.

The student(s) shall apply for the change over by the end of the first semester through the DPGCs/IDPCs/SPGCs, who shall forward the applications to the PGAPEC with their recommendations.

- (b) **Award of PGDIIT to M.Tech. students** (Ref. 136th Meeting of the Senate)

The M.Tech. student who wants to discontinue the M.Tech. Programme on his own may be considered for the award of PGDIIT, subject to satisfying the following requirements:

1. Minimum credit requirement should be 58 credits

2. A minimum passing grade (DD) in each course must be prescribed. The minimum cumulative grade point index (CPI) should be 5.50 for award of diploma.
3. The applications for the award of PGDIIT should be routed through DPGC for the consideration of PGAPEC.

(c) **Change from one PG programme to another**

- i) These Transfers will be considered on case-to-case basis.
- ii) Request for a change of PG programme should come from the student and to be endorsed by Supervisor.
- iii) The application for consideration of admission to another PG programme should be routed through the Postgraduate Committee of the Dept./Group/Centre/School.
- iv) The candidate should satisfy all academic requirements for the award of the degree for which he is being considered.
- v) DPGC/IDPC/SPGC may recommend the time limits for submission of Dissertation/Thesis, if required.
- vi) The request will be considered by PGAPEC and subsequent approval by Senate.

2.2 PATTERN OF COURSES AND CREDITS

The courses offered for the PG Programmes may be Lecture Courses, Laboratory Courses, Design Courses, Seminars, **R & D Projects, Communication Skills, Practical Training and Field Visits.**

MR 2.2.1

The credit for a course is dependent upon the contact hours associated with the course and is obtained by adding all these hours. The credits for all the available courses are indicated in the Courses of Study Bulletin.

MR 2.2.2

Students are required to complete all the credit required for the PG programme as approved by the Senate from time to time.

MR 2.2.3

Seminar shall satisfy the following conditions:

- i) Each seminar shall carry four credits.
- ii) Seminar shall be treated as a course for purpose of registration and evaluation.
- iii) Seminar Coordinators appointed by the DPGCs/IDPCs/SPGCs shall organize the Seminars and forward the grades awarded by the panels of examiners to the Academic Office by the end of the Semester.

MR 2.2.4

The general credit structure for full-time students for the M.Tech.,M.Phil.,M.Des. and M.Mgt. programmes are given on table 2,3 and 4 respectively.

3. COURSE CREDIT REQUIREMENT AND REGISTRATION FOR COURSE

MR 3.1

The total minimum credit requirement for M.Tech./M.Phil. programme is **158 + 4*** including the main project.

*** For Communication Skills Course**

MR 3.2

A sample semester-wise distribution for Part-time students is given **below in broad terms.**

Individual departments may work out the exact programme for their part-time students. It is expected that Autumn Semesters will generally have minimum 24 credits and Spring Semesters (including summer months) will have 28 credits.

Semester		Credits
I	Courses, seminar and / or R & D Project	24
II	Courses, R & D Project, Seminar (Seminar may be done in Summer months)	28
III	Courses	24
IV	Course(s) and Project Stage-I (Including summer months)	28
V	Project Stage - II	24
VI	Project Stage - III	28

(Note: The total minimum credits should be 158, including Communication Skills Course.)

MR 3.3 :

All categories of students are allowed to register for a **maximum of two UG Courses** for the entire programme, limited to a maximum of one course in each semester. These should be from the approved list **otherwise they** will not be counted towards **the programme credits.**

MR 3.4

The students admitted under reserved category (SC/ST) may be permitted to take 1 less course in each semester, or drop one course from the list of registered courses late upto 1 month before the final examinations. This will be with the approval of faculty advisor and PGAPEC or Dean (AP). These students may be permitted to extend their study into the 5th semester for completing their total credit requirements of the programme. They

may be permitted to overload one course in project semesters with the permission of Faculty Advisor. The students will not be given any assistantships beyond 24 months.

4. COURSE ASSESSMENT & AWARD OF GRADES.

(Amended in the 158th Meeting of the Senate held on 6.3.2002 & 27.3.2002)

MR 4.1

For every course taken by the students, he/she is assigned a letter grade on his/her combined performance in all the assessments. These grades are described by the following letters and corresponding grade points.

AA (10 points), AB (9 points), BB (8 points), BC (7 points), CC (6 points), CD (5 points), DD (4 points), FF (0 points), **FR (0 points), PP (Passed), NP (not Passed)**. Minimum passing grade in a course is DD.

MR 4.2 – FF and FR grade

The letter grades **FF** and **FR** shall be treated as failure grades. Re-examination may be permitted for a course if he/she obtains **FF** grade. After such re-examination if the student passes in that course, he/she will be awarded the **maximum grade of DD** in that course. If a student does not take or fails in the re-examination, he/she will be awarded the grade **FR**.

MR 4.2.1

A student getting a **FR** grade has to re-register for the same course if it is a core subject and if backlog course is an elective course, he/she may register for alternative course as prescribed by the DPGC/ IDPC/SPGC (without counting as an additional courses).

'DAAD':

Those students who are selected under DAAD scheme and also in some cases due to ill health could not clear a course, of a particular semester in that semester. If the backlog course is not offered in the next semester, they cannot register and clear it in time. These cases will be decided by the Chairman, Senate.

The following options may be recommended to clear backlog course(s).

a) Taking course work at the host Institute of equivalent credits.

b) R&D Project: Students may be given an option to register for 6 or 12 courses credits as R&D project work during their entire stay (PC option). If the option is for 12 credits, it can either be taken together in one semester or split into two projects of 6 credits each, taken in two semesters. One cannot register for more than 6 R&D project credits in the first semester. These projects will be evaluated as per norms set by each PC, and awarded letter grades.

MR 4.2.2

(i) M.Tech./M.Phil./M.Des.

A student will be permitted to take re-examination for FF grades in a given semester provided the number of FR grades do not exceed those given in MR 5.2(i) for 50% weightage & immediately after the semester-end examination.

(ii) M.Mgt.

A student will be permitted to take re-examination for FF grades in a given semester provided the number of FR grades do not exceed those given in MR 5.2(ii) for 50% weightage & immediately after the semester end-examination.

After such a re-examination if the student passes in that course, he/she will be awarded the maximum grade of DD in that course.

Student with FF grade/ grades be permitted to write re-examination, if after re-examination they are likely to get the SPI/CPI of 6.00. The SPI/CPI will be calculated before re-examination assuming that he/she gets 'DD' grade in re-examination.

MR 4.3 Audit Grade

The student registered for auditing a course shall be awarded the grade AU if they fulfill the requirement of minimum of **80% attendance and duly satisfactory in-semester performance as prescribed by the Instructor**. The Instructor shall include such AU grades in the final grade report for that course. If the student does not qualify for the grade AU, it will be assumed that the course has been dropped by that student and the semester grade card issued accordingly.

MR 4.4 .1 II grade

The grade II shall be awarded to a candidate in a lecture course in which he has satisfactory in-semester performance but could not appear for the end-semester examination for bonafide reasons viz. of an illness or a serious accident to himself/herself, or death of a parent/guardian. In case of illness or accident to the

candidate, the application for the re-examination should be supported by a medical certificate from the Senior Medical Officer of the Institute or a Civil Surgeon. A student obtaining the grade II is entitled for a re-examination in that course and after such a re-examination, the Instructor can award an appropriate grade to him/her. If no medical certificate is received before re-examination schedule his/her II grade will be converted to FR grade and result will be finalized accordingly.

MR 4.4 .2 XX grade

- 1.The grade XX in a course is awarded if a student does not maintain the minimum 80% attendance in the Lecture/ Tutorial class and will have to re-register for the same course.
- 2.The XX grade will be declared in the first week of November for the Autumn Semester Courses and in the first week of April for Spring Semester Courses.
- 3.A student with XX grade in a given course is not permitted to take the semester-end Examination in that course. He/She is also not eligible for 100 marks Re-examination in that course. Such a student has to Re-register for the same course in core, else another course.
4. The CPI/ SPI of the student will be calculated with zero points for XX and then the rules of continuation will be applied.

MR 4.5.1 Seminar Grade

For the student who has submitted the seminar report in time, but the evaluation of which however could not be completed, the Seminar Co-ordinator shall award the grade II and shall forward the grade report to the Academic Office before the end of the semester. All such II grades shall be converted into suitable letter grades in due course of time, before one month following the end of the semester.

MR 4.5.2

If a student either does not submit his seminar report by the prescribed date or he/she is absent for presentation on the scheduled date he/she shall be awarded **FF** grade unless he/she is given extension by the coordinator under exceptional circumstances.

MR 4.5.3

All students who get **FF** grade in Seminar shall be allowed to complete the evaluation during the period earmarked for re-examination and will not be given a grade better than the maximum passing grade, **DD**.

M.R.4.5.4 PP/NP Grade

Practical Training, Communication skills and Field Visits courses will be awarded PP/NP grades. No grade points are associated with these grades and performance in these courses is not taken into account in the calculation of the

performance indicates SPI or CPI. However, the award of the degree is subject to obtaining a PP grade in all such courses.

5. PERFORMANCE REQUIREMENTS AND RE-EXAMINATION IN COURSES

MR 5.1

The performance of a student in a semester is indicated by a number called the Semester Performance Index (SPI). The SPI is the weighted average of the grade points obtained in all the courses and projects taken by the student during the semester.

Example: Suppose in a given semester a student has taken five courses having credits C_1, C_2, C_3, C_4, C_5 and his/ her grade points in those courses are G_1, G_2, G_3, G_4, G_5 respectively. Then his/ her

$$\text{SPI} = \frac{C_1 G_1 + C_2 G_2 + C_3 G_3 + C_4 G_4 + C_5 G_5}{C_1 + C_2 + C_3 + C_4 + C_5}$$

SPI will be calculated (after re-examination, if any) on the basis of the final grades awarded AA, AB, BB, BC, CC, CD, DD and **FR**. The SPI is calculated up to two decimal places.

An up-to-date assessment from the time the student entered the Institute is obtained by calculating a number called the Cumulative Performance Index (CPI). The CPI is the weighted average of the grade points obtained in all the courses taken by the student since he/she entered the Institute. It is calculated in the same manner as the SPI.

CPI for the course credits and the project credits will be separately calculated and shown in the grade card, alongwith the overall CPI.

MR 5.1.1

In case of a student clearing a failed course, or a course taken in lieu of an earlier course as approved by the Department, the earlier failed grade would be replaced by the new passing grade in calculation of the CPI.

MR 5.1.2

For CPI requirement of 6.00 (Rule 5.2.4), if re-examination is allowed and taken, CPI will be calculated using the new grade obtained by the student in the re-exam.

MR 5.2 Discontinuation from the programme (Ref. 167th Meeting of the Senate)

MR 5.2.1 (Ref: 182nd Senate Meeting)

(i) **M.Tech./ M.Phil./ M.Des.**

A student will be required to discontinue the programme if at the end of any semester he/she has two or more FR/XX grades.

(ii) **M.Mgt.**

A student will be required to discontinue the programme if at the end of any semester he/she has three or more FR/XX grades.

MR 5.2.2 For Master of Management:

A student from M.Mgt. is required to discontinue the programme, if he/she has more than one failed course (with FF/XX grade) at the end of 1st Semester or more than two failed courses at the end of subsequent semesters.

MR 5.2.3

5.2.1 & 5.2.2 will be applied after re-examination, if any, as permitted by Rule 4.2.2.

MR 5.2.4

At the end of a given semester, student must maintain CPI of 6.00 (computed with FR/XX, if any, but after re-examination grade if re-examination is permitted). Otherwise, the student will be required to discontinue the programme.

6 PROJECT

MR 6.1 PROJECT ALLOTMENT:

MR 6.1.1

Each student shall be given a topic for his project work at the end of the first semester for M.Tech./ M.Phil., by the end of second semester for M.Des. and by the end of third semester for M.Mgt. programmes.

MR 6.1.2

Each student should have a Project Supervisor from the faculty of the parent Department to which he/she is admitted. In addition, Co-supervisor(s) from the same Department/ other Department/IDP Group/Center/School may be co-opted by the Supervisor with the approval of DPGC/IDPC/SPGC.

MR 6.1.3

Whenever a Supervisor leaves the Institute permanently/temporarily, the DPGC/ IDPC/SPGC shall make alternative arrangements for guidance during the supervisor's absence.

MR 6.2 SCHEDULE FOR PROJECT ASSESSMENT:

Schedule for Project Assessment is as per MR 6.2 or as approved by the PGAPEC based on the recommendations of the DPGC/ IDPC/ SPGC.

(A) M.TECH AND M.PHIL PROGRAMME:

For Full-time Student

I stage assessment	Beginning of August
II stage assessment	Beginning of January
III stage assessment	Between end of April and end of July

For Part Time Student

I stage assessment	Beginning of August
II stage assessment	Beginning of January
III stage assessment	Between end of April and end of July

(B) M.DES. PROGRAMME:

I stage assessment	End of June
II stage assessment	By 1 st December
III stage assessment	by end of June
III stage- special project	by end of June

(C) MASTER OF MANAGEMENT:

Summer project	by end of June
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MR 6.3 SUBMISSION OF PROJECT

1) Students are required to submit final soft bound project report to the respective

Depts/IDPC/School

- 2) The viva-voce is to be conducted under departmental arrangements.
- 3) Forms for submission of assessed Dissertation, duly completed must be deposited to the Academic office along with the provisional clearances from Accounts Section.
- 4) Final grade reports are to be sent by the panel of examiners to the Academic Office on completion of viva-voce.

MR 6.4 LATE SUBMISSION OF PROJECT

Whenever any project stage is not submitted before the last date as specified in the academic calendar, the student is required to:

- a) Make specific request for extension with justification (**without grade restriction**) upto a specific date for submission **at least 15 days before last date of submission**.
- b) Pay the Institute fees for the **fifth** semester (in case of III stage extension).
- c) Formally register for that semester.

Grade will be restricted to “CC” unless permitted otherwise by PGAPEC or Dean (AP) before the last date for submission.

MR 6.5 PROJECT EVALUATION

MR 6.5.1

The I stage assessment and the II stage assessment, if any, will be done by a panel appointed by the DPGC/IDPC/SPGC in consultation with the supervisor(s). The panel shall consist of the supervisor(s) and two faculty members conversant with the field.

MR 6.5.2 (Amended in 159th Meeting of the Senate held on 9.5.2002)

The III and final stage assessment will be done by a Board of Examiners appointed by the DPGC/IDPC/SPGC consisting of the following:

- 1) **Chairman:** Either a Senate Member (a Professor) or an Associate Professor from another Department.
- 2) **Supervisor/ Co-supervisor:** The supervisor(s)/ Co-supervisor(s) and in their absence, another faculty member conversant with the subject.

- 3) **Internal Examiner:** A faculty member from the Institute conversant with the subject as internal examiner.
- 4) **External Examiner: An approved examiner from other Institute/Organization/Research Labs.** The presence of external examiner is desirable. However, in case of difficulty in finding external examiner in the required area, an additional internal examiner may be appointed in place of external examiner subject to the approval of DPGC/ IDPC/ PGC.

MR 6.5.3

The minimum passing grade in each of the project assessment shall be CC.

MR 6.5.4

In case a student gets a fail grade in any of the project assessment he/she should carry out additional work/modifications etc. as suggested by the panel and appear for assessment within one month from the date of previous assessment. At this assessment, he/she should not be given a grade higher than CC.

MR 6.6

A full-time student should not take up any other assignment before submitting his/her dissertation.

7 Temporary Discontinuation

MR 7.1.

In genuine cases, if the DPGC/IDPC/SPGC recommends temporary discontinuation **after course work or project stage-I**, the PGAPEC may take a decision on merits for permitting such temporary discontinuation. Such cases will be governed by the following rules. However, they have to submit the following certificates at the time of rejoining the programme:

a) If a break is permitted on medical ground

1. He/She should submit fitness certificates from Senior Medical Officer of the Institute or authorized medical practitioner.
2. Joining report through the Head/Convener of the Dept/Centre/School/ID group.

b) If a break is permitted to join a job

- 1) He/She should submit a relieving certificate from the employer.

2) Joining report through the Head/Convener of Dept/Centre/School/ID groups.

MR 7.1.1

The student must complete the programme within **four** years from the date of original registration for the PG Programme.

MR 7.1.2

He/She has to work at a stretch for a minimum period of **12** months at the Institute for earning the remaining credits for the project.

MR 7.1.3

When he/she rejoins and commences his/her project the student has to give a seminar on the topic of his/her project before a panel of examiners duly constituted by DPGC/IDPC/SPGC.

- (a) If the panel is satisfied that he/she can continue with the original project, **the students will be permitted to continue, and the student will submit a detailed programme for remaining study/project work to PGAPEC through the panel.**
- (b) If the panel is not satisfied, he/she will have to register for the project afresh and will have to work for a new project. **The student will submit a detailed programme for the project work through the panel.**

8. VACATION/LEAVE RULES

- 1. They are entitled for Winter vacation/Summer break for first year.
- 2. In addition, they are entitled for maximum of 30 days leave in addition to public holidays, during entire tenure of the programme.

Glossary:

PGPC	- Postgraduate Programmes Committee.
DPGC	- Departmental Postgraduate Committee.
IDPC	- Interdisciplinary Postgraduate Committee.
PGC	- Postgraduate Committee for Centre
SPGC	- School Postgraduate Committee
PGAPEC	- Postgraduate Academic Performance Evaluation Committee.

CRF - Course Registration Forms

CAF - Course Adjustment Forms

FA - Faculty Advisor

Course List - List of students registered for a course

Course Credit- Weighted sum of the number for credit hours (L) Tutorial hours (T) Practical hours (P) associated with the course.

SPI - Semester Performance Index, which is obtained by dividing the Semester Grade Points by the Semester credits.

CPI - Cumulative Performance Index which is obtained by dividing the Cumulative Grade Points by the Cumulative Credits.

June 2007