Academic Requirements for the M Sc (IT) Program
(Effective from Autumn 2017-18)

Master of Science (Information Technology): M Sc (IT): duration – two (2) year postgraduate program of DA-IICT will be governed by these rules, subject to amendments, from time to time, as per the needs and requirements. These rules deal only with the post-admission academic activities of the program. Eligibility for admission, admission procedures etc., for the program are outside the purview of this document.

The Dean (Academic Programs)/Registrar may, from time to time, issue such instructions or directions as may be necessary to give effect to and carry out the provisions of these rules. Director, as Chairman of the Academic Council, may relax/exempt some provision(s) of the rules in exceptional situations and all such cases shall be reported to the Academic Council in the immediate next meeting.

Important terms/expressions used in the document have been defined in the GLOSSARY at the end of this document.

1. REGISTRATION

1.1 Categories of Registration:

a)   A student has to register in the resident registration category only.

b)   To qualify for resident registration, the student must register for a duly approved course programme and pay the prescribed tuition and other fees, including any outstanding dues.

1.2 New entrants to the program, who are awaiting the results of the qualifying examination may be allowed 'provisional' registration. Latest by the date given in the Academic Calendar (usually about 8 weeks from the date of registration) such candidates will be required to submit, for verification, the Certificates of having passed the qualifying examination. Original certificates will be returned to the students and a self-attested copy will be kept for records.

1.3 Late Registration:

a)   If for any compelling reason like illness, a student is unable to register on the day of registration, he/she will be allowed to register during the late registration period as specified in the Academic Calendar (which is about one week from the date of registration). Any student registering late will be required to pay the specified late registration fee.

b)   In exceptional cases, the Dean (Academic Programs) on the recommendation of the Post-Graduate Committee (PGC) may consider registration beyond the date of late registration.

1.4 Academic Advising:

a)   A student will be advised in the selection of courses by the faculty adviser appointed by Dean (Academic Programs) in consultation with the PGC.

b)　A student may be permitted to repeat or substitute courses in which he/she has obtained 'DD', 'DE' or 'F' grades. Permission to repeat/substitute a course will be governed by the guidelines laid down in section 2.3.

1.5　Semester Load Requirements:

a)　For M Sc (IT) semester load will be as prescribed from time to time in the approved program course structure document.

1.6　Adding/Dropping of Courses and Withdrawal from a Semester

a)　Adding and dropping of courses is permitted, during the Add/Drop period, only if the student's request is endorsed by the instructor of the course and the Convener PGC. The last dates of applying for adding and dropping of courses are specified in the Academic Calendar.

b)　A student who wishes to withdraw prior to registration for a semester must obtain a formal approval from the Dean (Academic Programs) before the prescribed last date for late registration for the concerned semester. Withdrawal after registration for a semester is permitted only on medical grounds or for other exceptional reasons and formal approval for such withdrawal must be obtained from the Dean (Academic Programs) before the date of commencement of the end-semester examination for the concerned semester. Withdrawal from a semester, either prior to registration or after registration, is permitted for only one semester during the entire program. If a student does not register for a regular semester or does not withdraw with permission from the Dean (Academic Programs) as indicated above, his/her name is liable to be struck off from the rolls of the Institute.

c)　A student who registers for a semester after having withdrawn in previous semester(s) can register for the available courses as prescribed in the curriculum for that particular semester subject to pre-requisites, if any.

d)　The transcript of a student who has 'withdrawn' status would show the appropriate status for the concerned semester(s). The transcript of a student who is suspended for an academic or disciplinary reason would also show 'withdrawn' status.

e)　The maximum period for completion of the program as given in the appropriate subsection of Section 2 includes any semester in which the student has 'withdrawn' status.

2.　ACADEMIC REQUIREMENTS

2.1　M Sc (IT) Program:

The total credits required in the M Sc (IT) programs will be at least 79. The actual credits will be as specified in the approved curriculum applicable to the concerned batch. The maximum permissible duration for the completion of the programs is 3 years.

2.2　Audit Courses:

The students are permitted to audit courses. They will be given a 'P' grade, which will be entered in their grade card if they satisfy the requirements placed by the course instructor. If they do not meet the requirements, then they will not get any grade and no entry will be made in the grade-card/transcript for that course.

2.3 Grades, Semester and Cumulative Performance Index:

A student is awarded a letter grade in each course he/she is registered for, indicating his/her overall performance in that course. These letter grades are assigned points on a 10-point scale as described in the table below:

Letter Grade	Grade Points	Explanation
AA	10	
AB	9	
BB	8	
BC	7	
CC	6	
CD	5	
DD	4	
DE	3	
F	0	Fail
I	-	Incomplete
P*	-	Pass

*For Pass/Fail and Audit Courses only.

a) If a student does not complete all the requirements for a course for a genuine reason, the instructor may award grade 'I' (Incomplete). An 'I' grade must be converted by the instructor to a regular letter grade by the last date for such conversion specified in the Academic Calendar, failing which it is automatically converted to an 'F' grade.

b) A student getting an 'F' grade in a core course must repeat it. An elective course must be either repeated or substituted as suggested by PGC.

c) A student getting a 'DD' or 'DE' grade in an elective course may substitute it by another course, provided his/her CPI is less than the prescribed minimum for getting the Degree and the student is allowed to continue in the program.

d) In case a course is repeated or substituted, the old grade will also appear on the transcript although it will not be taken into account while computing the CPI.

3. ACADEMIC PERFORMANCE REQUIREMENT

3.1 Semester Performance Index (SPI) and Cumulative Performance Index (CPI):

The SPI is an indicator of the academic performance of a student in all the courses he/she has registered during a given semester. It is computed by taking the weighted average of the grades obtained in that semester. The CPI indicates the cumulative academic performance in all the courses taken including those taken in the current semester. CPI is computed by taking the cumulative weighted average of the grades earned till that semester. The SPI and CPI is calculated up to two decimal places.

3.2 Minimum CPI requirements for graduation in the program:

Program	CPI for Graduation
M Sc (IT)	6.0

3.3 Academic Probation and Dismissal:

A student whose CPI falls below the minimum required for graduation at the end of any semester will be placed on Academic Probation for the next semester with written intimation. For every student placed on Academic Probation for a semester, the PGC will prescribe a specified course load in the concerned semester and may also prescribe a minimum SPI the student must attain in the semester. The PGC will keep a watch on the progress of every student placed on probation and if the performance of a student is poor so that he/she is not likely to benefit from continuing in the program any further, will recommend to the Director that he/she should leave the Institute. If a student's continuation in the program is terminated, the appropriate authority will issue the letter of termination.

4. **GLOSSARY**

Academic Probation: Academic Probation indicates that a student's academic performance is not up to the expected level. Over and above the academic consequences described in section 3.3, a student who has been placed on probation may be subjected to other restrictions related to financial support, award of medals and prizes, etc. at any time.

Cumulative Performance Index (CPI): CPI indicates the cumulative academic performance in all the courses taken including those taken in the current semester. CPI is computed by taking the cumulative weighted average of the grades earned till that semester.

Grade Points: Product of the credits and points of a letter grade awarded to the course.

Postgraduate Committee (PGC): Committee of the Institute responsible for Policy Guidelines and Implementation Strategies covering the Postgraduate Programs.

Semester: Approximately 16 weeks duration each, the first one (Autumn Semester) extending from July to November and the second (Winter Semester) from December/ January to April.

Semester Credits: The sum of credits of courses registered by the student in a semester.

Semester Grade Points: The sum of the products of credits and points for each course registered by a student in a semester.

Semester Performance Index (SPI): SPI is an indicator of the academic performance of a student in all the courses he/she has registered during a given semester. It is computed by taking the weighted average of the grades obtained in that semester.

DA-IICT, Gandhinagar
Created as of August 2017.

M Sc (IT) – Master of Science (Information Technology) Program Structure

Curriculum structure

Semester-I		L-T-P-C
SC612	Discrete Mathematics	3-1-0-4
IT603	C Programming	3-0-2-4
IT616	Algorithms and Data Structures	3-1-0-4
IT615	Database Management Systems	3-0-2-4
PC613	Communication Skills	3-0-2-4
Semester I Credits: 15-2-6-20		
Semester-II		
IT602	Object Oriented Programming	3-0-2-4
IT632	Software Engineering	3-0-2-4
IT6??	Systems Programming	3-0-2-4
IT694	Computer Networks	3-0-2-4
IT6??	Web Programming	3-0-2-4
Semester II Credits: 15-0-10-20		
Summer-I		
PC649	Summer Internship (4 credits)	Pass/Fail
Semester-III		
IT619	Design of Software Systems	3-0-2-4
IT618	Enterprise Computing	3-0-2-4
	Technical Elective-I	3-0-2-4
	Technical Elective-II	3-0-2-4
	Open Elective-I	3-0-0-3
Semester III Credits: 15-0-8-19		
Semester-IV		
PC641	Project Internship (16 credits)	Pass/Fail