

# SCHOOL OF ENGINEERING & TECHNOLOGY

(B.Tech.)

Part – B

## RB.1. Eligibility for Admission

Candidates who have passed

- Final examination of the 10+2 system, conducted by any recognized Central/ State Board, such as Central Board of Secondary Education, New Delhi; Council for Indian School Certificate Examination, New Delhi, etc

OR

- Final examination of the two year course of the Joint Services Wing of the National Defense Academy

OR

- General Certificate Education (GCE) Examination (London/Cambridge/Sri Lanka) at the Advanced (A) Level

OR

- Any Public School/Board/University examination in India or in any foreign country recognized as equivalent to 10+2 system by the Association of Indian Universities (AIU)

OR

- H.S.C. Vocational Examination

OR

- Senior Secondary School Examination conducted by the National Open schooling with a minimum of five subjects

And

Candidates should have secured at least 50 percent marks in aggregate in their qualifying examination. They should have passed in all subjects and should have following combination:

Course	Compulsory	Any one of the Optional Subjects
B.Tech/B.Tech (Hons)	Physics & Mathematics	Chemistry/ Computer Science/ Biology/ Biotechnology

3 or 4 years diploma recognised by AICTE or a State Board of Technical Education.



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**RB.2. Structure of the B.Tech/ B.Tech (Honours) Programme.**

RB.2.1. The programme of instruction will consist of:

- (i) a general core programme comprising basic sciences, engineering sciences, humanities, engineering arts, and mathematics;
- (ii) an engineering core programme introducing the student to the foundations of engineering in his/her branch;
- (iii) an elective programme enabling the students to take up a group of courses of interest to him/her in the relevant branch of engineering.  
and
- (iv) Project approved by the Department.
- (v) Elective programs which are Industry oriented augmentation programs.
- (vi) Knowledge presentation in the form of seminar and group discussion

RB.2.2. The complete programme will consist of 5 categories: Humanities, Basic Sciences, Basic Engineering, Professional Major & Minor distributed over eight semesters, with two semesters per year. Normally a student can offer a course only when the pre-requisites of the course have been cleared.

The Professional Major Theory (PMT) courses will commence from firstsemester onwards. The Minor Stream courses will be offered from the 5 semester onwards.

A Minor stream course means a bunch of not less than 3 courses which may be offered by one or more number of Departments of which one department will be the Coordinating Department and the other(s) will be participating department(s).

RB.2.3. No semester normally shall have more than six lecture based courses and four laboratory courses as prescribed in the curriculum carrying a maximum of 29 credits, subject to the following:

Students are permitted to register for an additional course from the fifth semester onwards for B.Tech (Honours) subject to the maximum limit of 32 credits per semester.

RB.2.4. Every course of the B.Tech. / B.Tech. (Honours) programme will be placed in one of the categories listed in Table 1.

A student normally must earn a minimum number of credits under each category as shown in Table 1.

RB.2.5. However, only students belonging to the VI or higher semesters are eligible to register for M.Tech. courses, and every such student desiring to register for such a course must obtain the consent of the department offering the course.

RB.2.6. The minimum number of credits to be earned for the award of the B.Tech. Degree is 180 out of which 3-9 credits may be offered for coursework done under non-CGPA subjects. Minimum number of credits must include all the core subjects as decided by the department. Non-CGPA credits shall however not be counted towards CGPA calculation.

RB.2.7. However, students who take admission via lateral entry will not have to earn credits offered in the first year and their CGPA will be calculated on the basis of credits earned at ITM University Gwalior.


  
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Table -1

Sl.No.	Category	Code	Cgpa Credit	Non-Cgpa Credit	Course-Wise Minimum Credit Requirement
1.	Humanities	HU	9		9
2.	Basic Sciences				24-26
	Physics	PH	10		
	Chemistry	CH	7		
	Mathematics	MA	12-15		
	Life Science	LS	0-2		
3.	Basic Engg				28-35
	Theory	BET	11-17		
	Skills	BES	9		
4.	Professional Major				96-102
	Theory Courses	PMT	55-67* 67-79**		
	Laboratory	PML	12-19		
	Self Study	PSS	3-4		
	Viva voce	PMP	0-2		
	Project	PMP	8-12		
	Industrial Training	PIT	2		
		PPF			
	Industrial Lecture	PIL			
5.	Minor Electives	MNS	9		9
6.	Free Electives		6		2-6
	Total		Minimum 180* Minimum 192**	3-9	168-187

\* B.Tech programme

\*\* B.Tech (Honours) programme

**Note:** Non CGPA credits between 3-9 may be permitted in subjects such as humanities/Industrial Training/Industrial Lectures or any other activities as prescribed by the concerned Board of Study from time to time.

**RB.3.** In addition to B.Tech regulations specified above, the B.Tech (Honours) students must register for 12 additional credits by end of program. Department to see that 12 additional credits can be availed by students. Such credits may be offered as contact courses.

B.Tech (Honours) students can register for a maximum of 02 additional PMT courses in a semester from the Honours basket of courses over and above the courses prescribed in the B.Tech curriculum from 5th semester onwards. Innovative Project work is a must for B.Tech (Honours).

  
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**RB.4. Change of Programme**

- RB.4.1. Students admitted to B.Tech Programme can opt for B.Tech (Honours) programme at the end of the fourth semester. Such students should have a CGPA of 6.5 and above and should have cleared all the courses as prescribed in the curriculum in the first attempt upto & including IV semester. Students who have obtained 'E' or 'U' or 'W' grade in any course are not eligible to opt for B.Tech (Honours) degree.
- RB.4.2. Change over from 4year B.Tech programme to 5year dual degree programme is permitted within the same Department at the end of the sixth semester, provided a student meets the following criteria:
- RB.4.2.1. Should have a minimum of 6.5 CGPA at the end of VI semester
- RB.4.2.2. Should not have any backlog courses
- RB.4.2.3. The strength in the particular B.Tech. discipline should not fall below the sanctioned strength by more than 10%.

**RB.5. Eligibly for Award of Degree**

In addition to RA 23 & RA 24 the minimum requirement for successful completion of the B. Tech/B. Tech Honors programme is as follows:

- RB. 5.1 Student must have earned 180 credits (192 credits for B. Tech Honors)

**RB.6. Lateral Entry**

- RB.6.1 For being eligible to seek lateral entry to an engineering & technology degree programme at the second year / third semester level
- RB.6.1.1 Candidate must have passed the diploma in engineering in relevant branch of the under graduate course as per the list given in annexure, with a minimum of 50 per cent in the aggregate.
- RB.6.1.2 A candidate must have passed the degree in science (B.Sc), with mathematics as subject and with a minimum of 50 per cent marks in aggregate from any UGC/ AICTE approved Indian University or from foreign university recognised by Association of Indian Universities.
- RB. 6.2 Maximum 10 percent seats over and above the sanctioned intake of previous academic year shall be available for admission through lateral entry. In addition, vacant seats in First Year during the last academic year shall also be available for admission.
- RB. 6.3 The admission shall be made in the order of merit on the basis of rank assigned in common entrance test.

However, candidates who are appearing in final year examination may also appear in the common entrance test but shall be given admission only, if they have passed final year examination with minimum of 50 per cent marks in the aggregate and completed the course on the date of counselling and produce original certificate.

  
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## Annexure

S.No.	Name of Diploma (Branch) Passed	Name of Degree (Branch Eligible for admission)
1	2	3
1.	Mechanical/Refrigeration & Air conditioning/ Mechatronics/ Advance Diploma in Tool & Die making/ IPE/ Cement Technology / Printing Technology / Civil/ Construction Technology Management / Mining/ Architecture / Automobile Engg./ Electrical / Production Engg. / Industrial and Production Engg / Manufacturing Engg Electronics / Electronics & Telecommunication / Industrial Electronics/Opto Electronics, / Electronics & Instrumentation / Chemical Engg. / Petro-Chemical & Refinery/ Plastic Technology/ Instrumentation Engg. / Information Technology / Computer Science & Engg./ Computer Hardware and Maintenance	Mechanical / Civil / Fire Technology Automobile Engg. / Electrical/ Electrical & Electronics / Industrial & Production Engg. / Industrial Engineering and Management / Electronics/Electronics & Telecommunication / Electronics & Communication / Instrumentation & Control / Electronics & Instrumentation Engg./ chemical Engg./ Petro Chemical Engineering / Information Technology / Computer Science & Engg.
2.	Pharmacy	Pharmacy
3.	Textile Technology, Handloom Technology/ Textile Designing of Central India/ Textile Design Food Technology	Textile Technology/ Technical Food Technology Textile Engg.
4.	Bio-Technology/ Chemical/ Pharmacy/ Bio-Medical	Bio-Technology/ Bio - Medical

## (M.Tech.)

Part - B

## REGULATIONS

**RB.1. Admission to the M.Tech Programme**

**RB.1.1** Candidate who have qualified for the award of the Bachelor's degree in Engineering/ Technology or Master's degree in Science and who have qualified in GATE (Graduate Aptitude Test in Engineering) are eligible to apply for admission to the M.Tech Programme. Tech Graduate with a minimum CGPA of 5.0 on a scale of 10 CGPA or equivalent % of marks are eligible for admission without GATE Score.

**RB.1.2** Notwithstanding what has been stated above (1), applications from candidates sponsored by organizations recognized by the Academic Council, and applications from foreign nationals received through proper channel, may be considered for admission to the M.Tech programme. Their admission shall, however, be governed by the regulations prescribed by the Academic Council.

  
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RB.1.3 In addition to (1) and (2), a candidate who possesses Associate Membership of Professional Bodies approved by the academic Council and who has qualified in GATE shall also be eligible to apply for admission to the M.Tech programme, subject to regulations approved by the Academic Council.

**RB.2. Structure of the M.Tech programme:**

RB.2.1 The program of instruction for each stream of specialization will consist of  
i. core courses  
ii. elective courses  
iii. project work

The student may be required to give one or more seminars and undergo industrial / practical training during the program.

The curriculum should be so drawn up that the minimum number of credits for successful completion of the M.Tech program of any stream is not less than 85.

RB.2.2 Electives will have to be taken from the courses offered by the Department in that particular semester from among the list of approved courses.

However, departments may permit the selection of electives other than those listed against the stream, provided they have relevance to the area of specialization and subject to the approval of the Faculty Adviser.

RB.2.3 The M.Tech students are eligible to take extra courses apart from the courses prescribed in the curriculum viz. one course in the 3rd semester and not more than two courses in the 4th semester, subject to a maximum of 9 credits, provided a student has no backlog and has earned a minimum CGPA of 6.5 at the end of the previous semester. Students taking extra courses should obtain the prior approval of the Dean (Academic Courses). This will be shown in the grade card as EXT category and will be considered for CGPA calculation.

RB.2.4 There is no provision for registration in BA Category for M.Tech Programme.

RB.2.5 Branch Transfer in M.Tech Programme is not permissible.


RB.2.6 There is no provision of M.Tech Honours degree

**RB.3. Project Evaluation:**

RB.3.1 In addition the RA.15 Evaluation of Project work will be taken up only after the student completes all the core as well as elective courses requirements satisfactorily. In the case of projects, a viva voce examination will be conducted at the completion of the project work.

**RB.4. Project work in Industry or other Organizations:**

RB.4.1 Sponsored candidates from organizations which have R& D units and facilities for research work and those students who get employment in such organizations after completion of the course work may be permitted to carry out their project work in such organizations during the final year, under the following conditions:

  
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A departmental committee shall examine the requests from such students, and fix in advance:

- i. an internal guide (a faculty member of the institute)
- ii. the area of project work, and
- iii. an external guide (Scientist or Engineer in Industry).

RB.4.2 The above details should be submitted to the Dean through the Head of the Department and the Dean's approval should be obtained before the commencement of the project.

RB.4.3 The students who are permitted to do the project work in an industry will have to pay the tuition and other fees to the Institute for the third and fourth semester as well.

### RB.5. Eligibility for the award of M.Tech Degree

Student shall be declared to be eligible for the award of M.Tech degree if he/she has:

RB.5.1 successfully acquired the minimum 85 credits.

RB.5.2 secured minimum CGPA of 5.

## M.B.A.

Part B

### RB.1. Eligibility for Admission

Candidate should be a graduate/post-graduate in any discipline with at least 50 percent marks in aggregate of any Indian University or foreign University or Institute recognized by the University as equivalent or any Open University such as MP-Bhoj, IGNOU. However, the graduate degree should be with (three years of regular study after passing 12th examination of (10+2) scheme or equivalent or (10+2+3) year system or equivalent.

Candidate who is appearing or has appeared for final year of any degree examination during the current academic session as a regular or a private candidate can also apply for admissions on provisional basis.

### RB.2. Structure of the Programmes.

RB.2.1. The programme of instruction will consist of:

- (i) A general core Program comprising communication;
- (ii) A business management core Program introducing the student to the foundations of the business management in his/her branch;
- (iii) Functional foundation courses that enable students to earn preliminary cross-functional understanding.
- (iv) An elective Program enabling the students to take up a group of courses of interest to him/her in the relevant branch.
- (v) Projects approved by the Department.
- (vi) Elective programs which are Industry oriented augmentation programs.
- (vii) Presentation in the form of seminars and group discussion.

  
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- (viii) Internship.
- (ix) Non-CGPA Credits(Co-curricular and Extra-curricular)and
- (x) Dissertation.

RB.2.2. The complete programme consists of 5 categories: Humanities, Business Foundation, Functional Foundation, Specialisations and Dissertation distributed over six trimesters, with three trimesters per year. Normally a student can offer a course only when the pre-requisites of the course have been cleared.

The Professional Major Theory (PMT) courses will commence from first trimester onwards. The Minor Stream courses will be offered from the 5 trimester onwards.

A Minor stream course means a bunch of not less than 3 courses which may be offered by one or more number of Departments of which one department will be the Coordinating Department and the other(s) will be participating department(s).

RB.2.3. No trimester normally shall have more than six eight lecture based courses and four laboratory courses as prescribed in the curriculum carrying a maximum of 29 credits, subject to the following:

Students are permitted to register for an additional course from the fifth trimester onwards for subject to the maximum limit of 32 credits per trimester.

RB.2.4. The minimum number of credits to be earned for the award of the Degree is 130 out of which 39 credits may be offered for coursework done under non-CGPA subjects. The non CGPA credits shall however not be counted towards CGPA calculation.

### RB.3. Award of Dual Degree

RB.3.1. After one year students may be awarded POST GRADUATE DIPLOMA IN MANAGEMENT.

RB.3.2. A student will also have the flexibility of withdrawing from the programme after one year. In case they continue the programme they will be awarded MBA degree after earning the requisite credits.

RB.3.3. Such students can rejoin the programme up to within three years after leaving the programme. After earning remaining credits a student will be awarded MBA degree. In case they fail to rejoin the programme within three years then they will have to seek fresh admission.

RB.4. This programme will be offered on trimester basis.

  
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# SCHOOL OF COMPUTER APPLICATIONS

## B.C.A. Part – B

### RB 1. Eligibility for Admission in B.C.A:

Candidates who have passed final examination of the 10+2 system conducted by any recognized Central/ State Board, such as Central Board of Secondary Education, New Delhi; Council for Indian School Certificate Examination, New Delhi, etc,

OR

equivalent as decided by ITM University Admission Board duly constituted by the competent authorities of the University

AND

Provided he/she has secured atleast 45% marks in aggregate in their qualifying examination.

### RB 2. Structure of B.C.A.programme:

#### RB 2.1 The BCA program shall consist of following components :


- (i) Courses of disciplines comprising Computer Science/ Applications, humanities, accounts and mathematics;
- (ii) An elective enabling the students to take up a group of courses of interest to him/her in the relevant stream of computer applications.
- (iii) A Project in the area of chosen elective .
- (iv) Knowledge presentation in the form of seminar and group discussion.

1) Elective programs which are Industry oriented augmentation programs.

#### RB 2.2 The credit based curriculum of B.C.A. programme shall be in accordance with Table 1.

Table-1 B.C.A.

Sl.No.	CATEGORY	CODE	CGPA CREDIT	NON-CGPA CREDIT	COURSE-WISE MINIMUM CREDIT REQUIREMENT
1.	Humanities	HSS	06		06
2	Basic Foundations				24
	Mathematics	MTA	16		
	Envi. Science	EVS	04		
	Accounting	ACT	04		
3.	Professional Major				110
	Theory Courses	PMT	80		
	Laboratory	PML	18		

  
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	Seminar, GD	PSS	03		
	Minor / Major Projects	PMP	09		
4.	Electives	MNS	04		04
	Laboratory	MNL			
	Total		144		144

- RB 2.3 The credit based curriculum of the B.C.A. program is designed to have a total of 144 credits for the award of the degree.
- RB 2.4 No semester normally shall have more than six lecture based courses and four laboratory courses as prescribed in the curriculum to a maximum of 24 credits.
- RB 2.5 The medium of instruction for all components of BCA program shall be English only.
- RB 3 **Eligibility for Award of the B.C.A. Degree:**
- RB 3.1 The minimum number of credits to be earned for the award of the B.C.A. Degree is 144 credits.


### B.C.A. (Honors)

PART-B

- RB 1. **Eligibility for Admission in BCA(Honors):**  
Candidates who have passed final examination of the 10+2 system conducted by any recognized Central/ State Board, such as Central Board of Secondary Education, New Delhi; Council for Indian School Certificate Examination, New Delhi, etc,
- OR
- equivalent as decided by ITM University Admission Board duly constituted by the competent authorities of the University
- AND
- Provided he/she has secured at least 50% marks in aggregate in their qualifying examination and shall have following choice of subjects :

Compulsory Subjects	Optional Subject
Math's and Physics	Chemistry / Computer Science

- RB 2. **Academic Structure of the B.C.A.(Honors):**
- RB 2.1 The BCA (Honors) program shall consist of following components :
- (i) Courses of disciplines comprising Computer Science/ Applications, humanities, accounts and mathematics;

  
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- (ii) An elective enabling the students to take up a group of courses of interest to him/her in the relevant stream of computer applications.  
 (iii) A Project in the area of chosen elective .  
 (iv) Knowledge presentation in the form of seminar and group discussion.

2) **Elective programs which are Industry oriented augmentation programs.**

RB 2.2 The credit based curriculum of B.C.A.(Honors) program shall be in accordance with Table 1.

Table-1 B.C.A.(Honours)

SL.NO.	CATEGORY	CODE	CGPA CREDIT	NON-CG-PA CREDIT	COURSE-WISE MINIMUM CREDIT REQUIREMENT
1.	Humanities (Th +Lab)	HSS	06		06
2	Basic Foundations				24
	Mathematics	MTA	16		
	Env. Science	EVS	04		
	Accounting	ACT	04		
3.	Computer Science/ Applications				123
	Theory Courses	PMT	84		
	Laboratory courses	PML	25		
	Seminar, GD	PSS	03		
	Minor/Major Projects	PMP	11		
	Project Presentations	PPT			
	Industrial Training	PIT			
4.	Electives				
	Theory courses	MNS	08		09
	Laboratory	MNL	01		
	Industry Oriented Augmentation Program (Optional)				
	Total		162		162

RB 2.5 The credit based curriculum of the B.C.A.(Honors) program is designed to have a total of 162 credits for the award of the degree.

RB 2.6 No semester shall have more than six lecture based courses and four laboratory courses as prescribed in the curriculum to a maximum of 28 credits.

RB.2.7 The medium of instruction for all components of BCA(Honors) program shall be English only.

  
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**RB 3. Eligibility for Award of the B.C.A.(Honors) Degree:**

RB 3.1 The minimum number of credits to be earned for the award of the B.C.A. Degree is 162 credits.

**B.C.A. (Honors) + M.C.A.**  
PART-B

**RB 1. Eligibility for Admission in B.C.A.(Honors)+M.C.A.**

Candidates who have passed final examination of the 10+2 system conducted by any recognized Central/ State Board, such as Central Board of Secondary Education, New Delhi; Council for Indian School Certificate Examination, New Delhi, etc,

OR

Equivalent as decided by ITM University Admission Board duly constituted by the competent authorities of the University

AND

Provided he/ she has secured at least 50% marks in aggregate in their qualifying examination and shall have following choice of Subjects:

Compulsory Subjects	Optional Subject
Maths and Physics	Chemistry / Computer Science

**RB 2. Structure of the B.C.A.(Honours)+M.C.A.:**

RB 2.1 The BCA (Honors)+MCA program shall consist of following components :

- (i) Courses of disciplines comprising Computer Science/ Applications, humanities, accounts and mathematics;
- (ii) An elective enabling the students to take up a group of courses of interest to him/her in the relevant stream of computer applications.
- (iii) A Project in the area of chosen elective .
- (iv) Knowledge presentation in the form of seminar and group discussion.
- (v) Elective programs which are Industry oriented augmentation programs.

RB 2.2 The credit based curriculum of B.C.A.(Honours) +MCA programme shall be in accordance with Table 1.


Table-1 B.C.A.(Honors)+MCA

SL.NO.	CATEGORY	CODE	CGPA CREDIT	NON-CGPA CREDIT	COURSE-WISE MINIMUM CREDIT REQUIREMENT
1.	Humanities (Th +Lab)	HSS	06		06
2	Basic Foundations				28
	Mathematics	MTA	20		

  
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	Env. Science	EVS	04		
	Accounting	ACT	04		
3.	Computer Science/ Applications				204
	Theory Courses	PMT	124		
	Laboratory courses	PML	41		
	Seminar, GD	PSS	03		
	Minor/Major Projects	PMP	20		
	Project Presentations	PPT	02		
	Industrial Training	PIT	14		
4.	Electives				30
	Theory courses	MNS	24		
	Laboratory	MNL	06		
	Industry Oriented Augumentation Program (Optional)				
	Total		268		268

- RB 2.3 The credit based curriculum of the B.C.A.(Honors) +MCA program is designed to have a total of 268 credits for the award of the degree.
- RB 2.4 No semester shall have more than six lecture based courses and four laboratory courses as prescribed in the curriculum to a maximum of 28 credits.
- RB 2.5 The medium of instruction for all components of BCA(Honors) +MCA program shall be English only.
- RB 3. Eligibility for Award of the B.C.A.(Honors) +M.C.A. Degree
- RB 3.1 The minimum number of credits to be earned for the award of the BCA(Honours) +M.C.A. Degree is 268 credits.

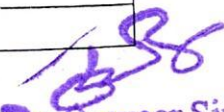
  
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## MCA PART-B

- RB 1. Eligibility for Admission in MCA:**  
Candidate who have passed B.C.A. or B.Sc. (CS/IT) or an equivalent degree from any recognized University with at least 50% of marks. However, in addition to this, students having mathematics as compulsory subjects at 10+2 level are eligible for lateral entry in third semester M.C.A. three year programme.
- RB 2. Academic Structure of the MCA Program.**
- RB 2.1** The MCA program shall consist of following components :
- (i) Courses of disciplines comprising Computer Science/ Applications, humanities, accounts and mathematics;
  - (ii) An elective enabling the students to take up a group of courses of interest to him/her in the relevant stream of computer applications.
  - (iii) A Project in the area of chosen elective .
  - (iv) Knowledge presentation in the form of seminar and group discussion.
  - (v) Elective programs which are Industry oriented augmentation programs.
- RB 2.2** The credit based curriculum of MCA program shall be in accordance with Table 1.

Table-1 MCA

S.NO.	CATEGORY	CODE	CGPA CREDIT	NON-CGPA CREDIT	COURSE-WISE MINIMUM CREDIT REQUIREMENT
1.	Humanities	HSS	06		06
2.	Basic Foundations				17
	2.1 Mathematics	MAT	12		
	2.2 Accounting	ACT	05		
3.	Computer Applications				117
	Theory Courses	PMT	64		
	Laboratory	PML	19		
	Seminar, GD	PS/PG	02		
	Minor Projects	PMP	09		
	Minor Project Presentations	PMPT	03		
	Major Project Industrial Training	MPIT	20		
4.	Electives Theory	ET	16		20
	Electives Laboratory	EL	04		
	Total		160		160

  
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- RB 2.3 The credit based curriculum of the MCA program is designed to have a total of 160 credits for the award of the degree. Student who takes admission via lateral entry will not be required to earn credits offered in the first year of the degree. CGPA of such students will be calculated taking into account the credits earned by them at ITM University.
- RB 2.4 No semester shall have more than six lecture based courses and four laboratory courses as prescribed in the curriculum to a maximum of 28 credits.
- RB 2.5 The medium of instruction for all components of MCA program shall be English only.
- RB 3. Eligibility for Award of the MCA Degree**
- RB 3.1 The minimum number of credits to be earned for the award of the M.C.A. Degree is 160 credits. However, students admitted via lateral entry will be required to earn credits offered in remaining years of their degree.

  
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