



आईएफटीएम विश्वविद्यालय, मुरादाबाद, उत्तर प्रदेश  
**IFTM University, Moradabad, Uttar Pradesh**  
**NAAC ACCREDITED**

**Academic Ordinance**  
**for**  
**Bachelor of Science in Food Technology (B.Sc. FT)**  
**Programme**  
**(w.e.f. Session 2021-22)**

(Amended with CBCS as per UGC Guidelines  
&

Approved by the Academic Council in the Meeting held on September 25, 2021)

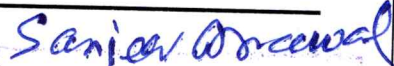
**IFTM UNIVERSITY**

(Established under U.P. Govt. Act No.24 of 2010 and approved under section 22 of UGC Act 1956)  
Lodhipur Rajput, Delhi Road, Moradabad- 244102, U.P.

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## REGULATIONS

### 1. Short Title and Commencement

These regulations shall be called as "The Regulations for the Bachelor of Science in Food Technology (B.Sc. FT) Degree Program (CBCS) of the IFTM University, Moradabad", latest revised from the Academic Year 2021-22. The regulations framed are subject to modifications from time to time by IFTM University, Moradabad.

### 2. Minimum qualification for admission

Candidate must have 45% (40% for SC/ST) at 10+2 level with Physics, Chemistry and Maths/ Biology. Admission in B.Sc. FT programme will be based on Merit. Only primary mode of evaluation (CGPA or percentage) as mentioned in the qualifying degree certificate/mark sheet will be considered while verifying eligibility. Conversion from CGPA to percentage or vice versa given by individual Institute/University will not be allowed.

Foreign National candidates, who apply through Ministry of Human Resource Development, Government of India, are eligible to apply provided that they possess the same minimum qualification.

### 3. Duration of the program

The course of study for B.Sc. FT shall extend over a period of six semesters (three academic years) for students. The curricula and syllabi for the program shall be prescribed from time to time by IFTM University, Moradabad.

### 4. Medium of instruction and examinations


Medium of instruction and examination shall be in English.

### 5. Working days in each semester

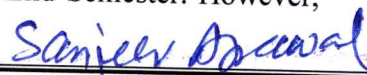
Each semester shall consist of not less than 90 working days. The odd semesters shall be conducted from the month of June/July to November/December and the even semesters shall be conducted from December/January to May/June in every calendar year.

### 6. Attendance and progress

A candidate is required to put in at least 75% attendance to appear in End-Semester. However,

  
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the same can be condoned to 15% on medical grounds or for other genuine reasons beyond the control of students.

## 7. Program/Course credit structure

As per the philosophy of Credit Based Semester System, certain quantum of academic work viz. theory classes, practical classes, project report, internship etc. are measured in terms of credits. On satisfactory completion of the courses, a candidate earns credits. The amount of credit associated with a course is dependent upon the number of hours of instruction per week in that course. Similarly, the credit associated with any of the other academic, co/extra-curricular activities is dependent upon the quantum of work expected to be put in for each of these activities per week.

### 7A. Credits and Grade System

(a) All programmes shall have credits associated with them as per their Lecture/Tutorial/Practical (LTP) structure and shall be determined as follows:

- One lecture hour per week per semester shall be assigned one credit.
- One practical hour per week shall be assigned half credit.

However, the credits associated with every programmes will be a whole number, i.e., wherever the sum comes out to be in half credit on calculation following the aforesaid process, the half shall be rounded to the next whole number.

(b) The letter grades based upon the overall marks obtained in a subject will be as follows:

S.No.	Marks	Letter Grade	Grade Point
1.	$\geq 90$	A+	10
2.	80-89	A	9
3.	70-79	B+	8
4.	60-69	B	7
5.	50-59	C+	6
6.	40-49	C	5
7.	35-39	D	4
8.	30-34	E	2
9.	$< 30$	F	0

'E' & 'F' Grade will be treated as Carry Over Paper.



In addition to the above grades, there shall be two more letter grades 'I' and 'AB' which shall stand for Incomplete and Absent Grades, respectively.

**(c) Semester Grade Point Average (SGPA)**

The SGPA is a weighted average of the grade points earned by a student in all the papers credited and described his/her academic performance in a semester. If the grade points associated with the letter grades awarded to a student are  $g_1, g_2, g_3, \dots, g_k$ , etc. and the corresponding credits are  $c_1, c_2, c_3, \dots, c_k$ , the SGPA is given by:

$$SGPA = \frac{c_1 g_1 + c_2 g_2 + c_3 g_3 + \dots + c_k g_k}{c_1 + c_2 + c_3 + \dots + c_k}$$

Where,  $k$  is the number of papers for which the candidate remains registered during the semester.

**(d) Cumulative Grade Point Average (CGPA)**

The Cumulative Grade Point Average (CGPA) indicates the overall academic performance of a student in all the papers registered in that particular academic year. It is computed in the same manner as the SGPA, considering all the papers (say,  $n$ ), and is given by:

$$CGPA = \frac{\sum_{i=1}^n c_i g_i}{\sum_{i=1}^n c_i}$$

**(e) Final CGPA**

It is the weighted average of the CGPA of all years of study.

**(f) Percentage equivalence of CGPA/Final CGPA**

The conversion of CGPA/Final CGPA to exact percentage of marks does not have perfect rationale. However, its equivalent at best can be arrived at by multiplying by 10.00.

**7B. Change of Grade already awarded**

Letter Grade 'E' will be changed into Letter Grade 'D' up to a maximum of 03 papers at the time of promotion to the next academic year provided he/she can be declared to have passed the academic year without any carry over paper, by changing the Grade.

**8. Academic work**

A regular record of attendance both in Theory and Practical shall be maintained by the teaching staff of respective courses.



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9. **Course of study**


The course of study for B.Sc. FT shall include Semester-Wise Theory & Sessional. The number of hours to be devoted to each theory including tutorial courses in any semester shall not be less than 40 sessions and for practical courses in any semester shall not be less than 20 sessions.

  
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**B. Sc. FT I Semester**  
**Theory Papers (Total 5)**  
**Practical (Total 4)**

S.No.	Category	Course Code	Course Name	Periods			EVALUATION SCHEME				Course Total	Credits
							Mid Term Exam			External Exam		
				L	T	P	CT	AS +AT	Total			
THEORY												
1.	CC-T	BSB101T	Animal Science	3	1	0	20	10	30	70	100	4
2.	CC-T	BSB102T	Plant Science	3	1	0	20	10	30	70	100	4
3.	CC-T	BSB103T	Biochemistry and Metabolism	3	1	0	20	10	30	70	100	4
4.	GE	BSB104T	Chemistry I	3	1	0	20	10	30	70	100	4
5.	AECC	TPSD101	Professional Skill Development I	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
6.	CC-P	BSB101P	Animal Science Lab	0	0	2	-	-	30	70	100	1
7.	CC-P	BSB102P	Plant Science Lab	0	0	2	-	-	30	70	100	1
8.	CC-P	BSB103P	Biochemistry and Metabolism Lab	0	0	2	-	-	30	70	100	1
9.	GP	GP-101	General Proficiency	-	-	-	-	-	100	-	100	1
			TOTAL	15	05	06	-	-	340	560	900	24

  
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**B. Sc. FT II Semester**  
**Theory Papers (Total 5)**  
**Practical (Total 4)**

S.No.	Category	Course Code	Course Name	Periods			EVALUATION SCHEME				Course Total	Credits
							Mid Term Exam			External Exam		
				L	T	P	CT	AS +AT	Total			
THEORY												
1.	CC-T	BFT201T	Principles of Food Processing	3	1	0	20	10	30	70	100	4
2.	CC-T	BFT202T	Food Microbiology	3	1	0	20	10	30	70	100	4
3.	CC-T	BSB203T	Chemistry II	3	1	0	20	10	30	70	100	4
4.	GE	BSB204T	Plant Physiology	3	1	0	20	10	30	70	100	4
5.	AECC	BSB 205T	Environmental Science	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
6.	CC-P	BFT201P	Principles of Food Processing Lab	0	0	2	-	-	30	70	100	1
7.	CC-P	BFT202P	Food Microbiology Lab	0	0	2	-	-	30	70	100	1
8.	CC-P	BSB203P	Chemistry II Lab	0	0	2	-	-	30	70	100	1
9.	GP	GP-201	General Proficiency	-	-	-	-	-	100	-	100	1
			TOTAL	15	05	06	-	-	340	560	900	24

  
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**B. Sc. FT III Semester**  
**Theory Papers (Total 5)**  
**Practical (Total 3)**

S.No.	Category	Course Code	Course Name	Periods			EVALUATION SCHEME				Course Total	Credits
							Mid Term Exam			External Exam		
				L	T	P	CT	AS +AT	Total			
THEORY												
1.	CC-T	BFT301T	Food and Nutrition	3	1	0	20	10	30	70	100	4
2.	CC-T	BSB302T	Enzymology	3	1	0	20	10	30	70	100	4
3.	DSE-T	BFT303T	Food Engineering	3	1	0	20	10	30	70	100	4
4.	AECC	BFT304T	Technology of Cereals, Pulses and Oil Seeds	3	1	0	20	10	30	70	100	4
5.	SEC	BSB305T	Modern Analytical Techniques	3	1	0	20	10	30	70	100	4
6.	QP	TEHU-301	Disaster Management (Audit Paper)#	3	1	0	20	10	30	70 *	100 *	-
PRACTICALS / PROJECT												
7.	CC-P	BFT301P	Food and Nutrition Lab	0	0	2	-	-	30	70	100	1
8.	CC-P	BSB302P	Enzymology Lab	0	0	2	-	-	30	70	100	1
9.	GP	GP-301	General Proficiency	-	-	-	-	-	100	-	100	1
			TOTAL	18	06	04	-	-	340	560	900	23

\* Internal Assessment

# The Subject (TEHU-301), Disaster Management will be offered as a compulsory audit course and each student has to pass the subject at the minimum by getting 35 marks out of 100.

  
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**B. Sc. FT IV Semester  
Theory Papers (Total 5)  
Practical (Total 3)**

S.No.	Category	Course Code	Course Name	Periods			EVALUATION SCHEME				Course Total	Credits
							Mid Term Exam			External Exam		
				L	T	P	CT	AS +AT	Total			
THEORY												
1.	CC-T	BFT401T	Food Chemistry	3	1	0	20	10	30	70	100	4
2.	CC-T	BFT402T	Food Preservation Technology	3	1	0	20	10	30	70	100	4
3.	DSE-T	BFT403T	Principles of Food Preparation	3	1	0	20	10	30	70	100	4
4.	GE	BSB404T	Introductory Biostatistics	3	1	0	20	10	30	70	100	4
5.	SEC	BFT405T	Techniques in Food Analysis	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	CC-P	BFT401P	Food Chemistry Lab	0	0	2	-	-	30	70	100	1
8.	CC-P	BFT402P	Food Preservation Technology Lab	0	0	2	-	-	30	70	100	1
9.	GP	GP-401	General Proficiency	-	-	-	-	-	100	-	100	1
			TOTAL	15	05	04	-	-	310	490	800	23

Note- Industrial Training needs to be done in summer break after semester IV and will be considered for evaluation in semester V

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**B. Sc. FT V Semester**  
**Theory Papers (Total 5)**  
**Practical (Total 3)**  
**Industrial Training (Total 1)**

S.N o.	Category	Course Code	Course Name	Periods			EVALUATION SCHEME				Course Total	Credits
				L	T	P	Mid Term Exam			Exte rnal Exa m		
				CT	AS +AT	Tota l						
THEORY												
1.	CC-T	BFT501T	Fat Rich and Traditional Dairy products	3	1	0	20	10	30	70	100	4
2.	CC-T	BFT502T	Food Safety and Microbial Standards	3	1	0	20	10	30	70	100	4
3.	DSE-T	BFT503T	Food Industry By-Products and Waste Utilization	3	1	0	20	10	30	70	100	4
4.	AECC	BFT504T	Food Packaging Technology	3	1	0	20	10	30	70	100	4
5.	SEC	BFT505T	Food Quality Management	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
6.	CC-P	BFT501P	Fat Rich and Traditional Dairy products Lab	0	0	2	-	-	30	70	100	1
7.	CC-P	BFT502P	Food safety and Microbial Standards Lab	0	0	2	-	-	30	70	100	1
8.	STPR	BFT503P	Industrial Training (Evaluation & Viva voce)	0	0	3	-	-	100	-	100	3
9.	GP	GP-501	General Proficiency	-	-	-	-	-	100	-	100	1
			TOTAL	15	05	07	-	-	410	560	900	26

  
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**B. Sc. FT VI Semester**  
**Theory Papers (Total 5)**  
**Practical (Total 3)**  
**Project (Total 1)**

S.No.	Category	Course Code	Course Name	Periods			EVALUATION SCHEME				Course Total	Credits
				L	T	P	Mid Term Exam		Ext	nal		
							CT	AS +A T	Total	Exa m		
<b>THEORY</b>												
1.	CC-T	BFT601T	Food Fermentation Technology	3	1	0	20	10	30	70	100	4
2.	CC-T	BFT602T	Food Quality Testing and Evaluation	3	1	0	20	10	30	70	100	4
3.	GE	BAG209	Production Technology of Fruit and Plantation Crops	3	1	0	20	10	30	70	100	4
4.	AECC	BFT603T	Technology of Meat, Poultry and Eggs	3	1	0	20	10	30	70	100	4
5.	SEC	Departmental Elective*	*Only one paper is to be chosen from the basket of departmental electives having 04 papers provided by the School	3	1	0	20	10	30	70	100	4
<b>PRACTICALS / PROJECT</b>												
6.	CC-P	BFT601P	Food Fermentation Technology Lab	0	0	2	-	-	30	70	100	1
7.	CC-P	BFT602P	Food Quality Testing and Evaluation Lab	0	0	2	-	-	30	70	100	1
8.	DSE-P	BFT681P	Project	0	0	3	-	-	100	-	100	3
9.	GP	GP-601	<b>General Proficiency</b>	-	-	-	-	-	100	-	100	1
			<b>TOTAL</b>	<b>15</b>	<b>05</b>	<b>07</b>	<b>-</b>	<b>-</b>	<b>410</b>	<b>490</b>	<b>900</b>	<b>26</b>

**DEPARTMENT ELECTIVES\***

BFT604T Project Management and Entrepreneurship  
 BFT605T Food Product Development and Evaluation  
 BFT606T Food Fortification And Fermentation  
 NCC-01 NCC General


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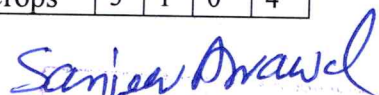
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## LIST OF COURSES

Course Code	CBCS BASKET	Credits			
Core Courses- Theory (CC-T)		L	T	P	C
BSB101T	Animal Science	3	1	0	4
BSB102T	Plant Science	3	1	0	4
BSB103T	Biochemistry and Metabolism	3	1	0	4
BFT201T	Principles of Food Processing	3	1	0	4
BFT202T	Food Microbiology	3	1	0	4
BSB203T	Chemistry II	3	1	0	4
BFT301T	Food and Nutrition	3	1	0	4
BSB302T	Enzymology	3	1	0	4
BFT401T	Food Chemistry	3	1	0	4
BFT402T	Food preservation Technology	3	1	0	4
BFT501T	Fat Rich and Traditional Dairy Products	3	1	0	4
BFT502T	Food Safety and Microbial Standards	3	1	0	4
BFT601T	Food Fermentation Technology	3	1	0	4
BFT602T	Food Quality Testing and Evaluation	3	1	0	4
Core Courses-Practical (CC-P)		L	T	P	C
BSB101P	Animal Science Lab	0	0	2	1
BSB102P	Plant Science Lab	0	0	2	1
BSB103P	Biochemistry and Metabolism Lab	0	0	2	1
BFT201T	Principles of Food Processing Lab	0	0	2	1
BFT202T	Food Microbiology Lab	0	0	2	1
BSB203T	Chemistry II Lab	0	0	2	1
BFT301T	Food and Nutrition Lab	0	0	2	1
BSB302T	Enzymology Lab	0	0	2	1
BFT401T	Food Chemistry Lab	0	0	2	1
BFT402T	Food preservation Technology Lab	0	0	2	1
BFT501T	Fat Rich and Traditional Dairy Products Lab	0	0	2	1
BFT502T	Food Safety and Microbial Standards Lab	0	0	2	1
BFT601T	Food Fermentation Technology Lab	0	0	2	1
BFT602T	Quality Testing and Evaluation Lab	0	0	2	1
Discipline Specific Elective-Theory (DSE-T)		L	T	P	C
BFT303T	Food Engineering	3	1	0	4
BFT403T	Principles of Food Preparation	3	1	0	4
BFT503T	Food Industry By-Products and Waste Utilization	3	1	0	4
Discipline Specific Elective-Practical (DSE-P)		L	T	P	C
BFT681P	Project	0	0	3	3
Generic Elective (GE)		L	T	P	C
BSB104T	Chemistry I	3	1	0	4
BSB204T	Plant Physiology	3	1	0	4
BSB404T	Introductory Biostatistics	3	1	0	4
BAG209	Production Technology of Fruit and Plantation Crops	3	1	0	4

  
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Ability Enhancement Compulsory Course (AECC)			L	T	P	C
TPSD101	Professional Skill Development I		3	1	0	4
BSB205T	Environmental Science		3	1	0	4
BFT304T	Technology of Cereals, Pulses and Oil Seeds		3	1	0	4
BFT504T	Food Packaging Technology		3	1	0	4
BFT602T	Technology of Meat, Poultry and Eggs		3	1	0	4
Skill Enhancement Courses (SEC)			L	T	P	C
BSB305T	Modern Analytical Techniques		3	1	0	4
BFT405T	Techniques in Food Analysis		3	1	0	4
BFT505T	Food Quality Management		3	1	0	4
Elective	BFT604T	Project Management and Entrepreneurship	3	1	0	4
	BFT605T	Food Product Development and Evaluation				
	BFT606T	Food Fortification And Fermentation				
	NCC-01	NCC General				
Qualifying Paper (QP)/MOOCs/NPTEL/VAC/Audit Paper			L	T	P	C
TEHU-301	Disaster Management (Audit Paper*)		0	0	0	-
Summer Training Project Report <i>Viva voce</i> (STPR)			L	T	P	C
BFT503P	Industrial Training (Evaluation & <i>Viva voce</i> )		0	0	3	3
General Proficiency (GP)			L	T	P	C
GP-101	General Proficiency		-	-	-	1
GP-201	General Proficiency		-	-	-	1
GP-301	General Proficiency		-	-	-	1
GP-401	General Proficiency		-	-	-	1
GP-501	General Proficiency		-	-	-	1
GP-601	General Proficiency		-	-	-	1


## 10. Examinations/Assessments

### 10A. Internal/ Sessional Examination

- The minimum Grade required to pass in each Theory & Practical paper is 'GRADE D'.
- A candidate, in order to pass must satisfy the requirement of Minimum CGPA of 4.50 in a particular academic year inclusive of both semesters of that academic year subject to conditions of clause 10D.
- In case of audit/qualifying paper the minimum Grade required to pass is Grade D. However, the Grade obtained in audit paper shall not be included in SGPA.

### 10B. End-Semester Examination

There will be two End Semester Examinations in all theory and project subjects viz. Odd Semester Examination and Even Semester Examination in an academic year.

  
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**10C. Carry Forward of Marks**

In case, if a student gets the back in a course/paper, the sessional marks of the subject concerned will be carried forward in the total of marks when he/she re-appears for the examination of the course in which he/she has got the back.

**10D. Heads of Passing**

- (a) The minimum passing marks in each theory subject (including Internal/ Sessional marks) will be 35%.
- (b) The minimum passing marks in each comprehensive viva/project will be 50 %.
- (c) A student, in order to pass must satisfy the following:  
Minimum 45% marks in aggregate of a particular academic year inclusive of both semesters of that academic year subject to the conditions of the clause 7B.

**10E. Carry Over System**


Maximum number of carry over papers (Theory/viva/project) permissible for promotion to next year will be 06.

**10F. Promotion**

- (a) A candidate satisfying all the requirements under clause 10A shall be promoted to the next academic year of study.
- (b) A candidate shall be eligible for provisional promotion with carryover (PCP status) to the next academic year of study provided he/she fails to satisfy the requirements of clause 10A(a) in not more than permissible carry over paper as mentioned in clause 10D.
- (c) If a candidate satisfies the requirement of clause 10A(a) but fails to satisfy the requirement of 10A(b) he/she shall be eligible for provisional promotion with carryover (PCP-A {aggregate} status). He/she may choose up to a maximum of any 04 theory papers of that particular academic year as per his/her choice to pass the examination of that.

**10G. Ex-studentship**

A candidate opting for ex-studentship shall be required to appear in all the theory/practical/viva papers in the end semester examinations of both semesters/ annual examination of the same academic year. However, the sessional marks of theory & practical both shall remain the same as those secured earlier.

  
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## 11. Evaluation of Performance

- (a) **Programmes:** Evaluation of performance of the students in a programme shall be a continuous process based on their performance in the class test, quizzes, assignments and the end semester examinations.

### Theory papers in semester system (Maximum Marks: 100)

The evaluation will be done through two class test and one end semester examination.

This will be in addition to quizzes, assignments, attendance, etc. Each class test will carry a weightage of 10 marks, and the end semester examination will carry a weightage of 70 marks. The remaining 10 marks will be awarded on the basis of attendance and performance in quizzes and assignments.

- (b) **Practical, Industrial Training and Project etc.**

Practical, industrial training and project and other learning-oriented activities shall have associated maximum marks and credits, as stated in the syllabus.

<i>Evaluation Scheme</i>			
	<i>Internal</i>	<i>External</i>	<i>Total</i>
<i>Theory</i>	<i>30</i>	<i>70</i>	<i>100</i>
<i>Practical</i>	<i>30</i>	<i>70</i>	<i>100</i>
<i>Industrial Training</i>	<i>100</i>	<i>-</i>	<i>100</i>
<i>Project Report Evaluation and Viva-Voce</i>	<i>100</i>	<i>-</i>	<i>100</i>

### Question paper pattern for End-semester Examinations

I. Multiple Choice Questions (MCQs)	= 20x1	=	20
II. Long Answers (Answer 5 out of 10)	=05x10	=	50
<b>Total Marks</b>		=	<b>70</b>

### Question paper pattern for Internal/ Sessional Examinations

I. Multiple Choice Questions (MCQs)	= 04x0.5	=	02
II. Long Answers (Answer 2 out of 03)	=02 x 04	=	08
<b>Total Marks</b>		=	<b>10</b>
2 Class Test		=	20 (10x2)
Internal Assessment (Attendance/ Assignment)		=	10
<b>Total Mark</b>		=	<b>30</b>

## 12. Award of Division

- (a) The division shall be awarded on the basis of final year result.
- (b) If a student passes all examinations and secure minimum Final CGPA 4.50 to 5.99, he/she shall be eligible for the award of SECOND DIVISION.

- (c) If a student passes all examinations and secure minimum Final CGPA 6.00 to 7.49, he/she shall be eligible for the award of FIRST DIVISION.
- (d) If a student passes all examinations in first attempt without change of Grade and secures minimum Final CGPA 7.50 & above, he/she shall be eligible for the award of FIRST DIVISION WITH HONOURS.

### 13. Scrutiny and Re-evaluation

- (a) Scrutiny shall be allowed in only theory papers, in which Re-totaling of the marks awarded will be done and only unchecked answers (if any) will be evaluated.
- (b) Re-evaluation of theory/practical papers is not permitted.

### 14. Unfair Means

Cases of unfair means shall be dealt as per the rules of the University.

### 15. Result

- (a) The result of a candidate shall be declared on the basis of the performance of both semesters of the same academic year.
- (b) Result of the final year shall be declared on the basis of working out Final CGPA which is the weighted average of CGPA of all years of the study.

### 16. Improvement

There shall be no provision of Improvement examination in all the courses running in the University.

### 17. Grade Card

- (a) A copy of the Grade Card shall be issued to each student at the end of each academic year. The duplicate copy, if required can be obtained on payment of prescribed fee.
- (b) The Grade Report Card of a student may be withheld if he/she has not paid his/her dues or if there is a case of indiscipline pending against him/her or for any other such reasons.

### 18. Re-Admission

A candidate may be allowed for re-admission provided he/she satisfies one of the following conditions:



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**REGISTRAR**  
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- (a) A candidate is declared fail.
- (b) A candidate promoted with carry over papers and opts for re-admission.

**19. Duration for completion of the program of study**

The duration for the completion of the program shall be fixed as double the actual duration of the program and the students have to pass within the said period, otherwise they have to get fresh registration.

  
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IFTM University

  
**REGISTRAR**  
IFTM UNIVERSITY  
MORADABAD.