



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

ACADEMIC ORDINANCE
for
BACHELOR OF TECHNOLOGY (B.Tech)
(Effective from the Session 2021-22)

(Amended with CBCS as per UGC Guideline)

&

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)
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Sanjeev Bawal

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REGULATIONS

1. Short Title and Commencement

These regulations shall be called as "The Regulations for the Bachelor of Technology (B.Tech) 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

2.1 Admission in B.Tech First Year

Candidate must have passed 10+2 examination or equivalent from recognized Board along with Physics, Chemistry and Mathematics as compulsory subjects. In Case of B.Tech in Biotechnology the combination of Physics, Chemistry, and Biology also considered.

In case of B.Tech in Agriculture Engineering combination of PCM/PCB/Agriculture also considered. Candidates belonging to open category must have scored at least 45% marks in aggregate, while candidates belonging to SC/ST category are required to score at least 40% marks.

2.2 Admission in B.Tech Second Year through Lateral Entry Scheme

a. Candidate must have passed full time Diploma in Engineering from a recognized Technical Board/University or

b. The Candidate B.Sc. full time Degree of 03 years duration from a recognized University respectively with Mathematics as a subject in Class 12th. Candidates belonging to open category must have scored at least 45% marks in aggregate, while candidates belonging to SC/ST category are required to pass with at least 40 % marks.

Admission in B.Tech programme will be based on Merit/Entrance Examination. 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.

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3. Duration of the Program

Total duration of the B.Tech program shall be 4 years, each year comprising of two semesters.

Each semester shall normally have teaching for the 90 working days.

The student admitted to 1st Year B.Tech shall complete the course within a period of seven academic years from the date of first admission, failing which he/she has to discontinue the course. The students admitted under lateral entry scheme (2nd Year B.Tech) shall complete the course within a period of six academic years from the date of first admission, failing which he/she has to discontinue the course.

A candidate, who has failed twice in first year due to any reason (either due to his/her non-appearance or he/she being not permitted to appear in semester examinations) shall not be allowed to continue his/her studies further. Provided further that if a student wishes to continue third time in first year he/she may be allowed on the terms and conditions laid down by the University for such Permission but the maximum time allowed for completing the course will remain the same.

4. Curriculum

The four Year curriculum has been divided into eight semesters and shall include lectures, tutorials, practical's, seminars and projects etc. in addition to industrial training and educational tour etc. as defined in the scheme and executive instructions issued by the University from time to time.

The curriculum will also include such other curricular, co-curricular and extracurricular activities as may be prescribed by the University from time to time.

5. Change of Branch

Change of branch may be allowed against the vacant seats in the following two stages, provided criteria at following sub clauses is satisfied:

- a. In first year, after the last date of admission to the B.Tech. first Semester, on the basis of merit.
- b. In the second year, on the basis of merit at the B.Tech. First year examination for those who are passing without any carry over paper.
- c. The change of branch if allowed will become effective from B.Tech. III semester.
- d. The branch change process must be completed by 30th August of each academic session.

6. Medium of Instruction and Examinations

Medium of instruction and examination shall be in English.

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7. 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 semester shall be conducted from December/January to May/June in every calendar year.

8. Attendance and Progress

A candidate is required to put in at least 75% attendance to appear in End-Semester/ Annual examination. However, the same can be condoned to 15% on medical grounds or for other genuine reasons beyond the control of students as per the consideration of the University norms.

9. Program/Course Credit Structure

As per the philosophy of CBCS, 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.

10 A. 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:

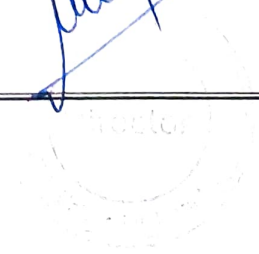
- One lecture hour per week per semester shall be assigned one credit.
- One practical hour per week shall be assigned half credit.

However, the credits associated with every programme 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.

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(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.	≥ 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 :

$$SGPA = \frac{c_1g_1 + c_2g_2 + c_3g_3 + \dots + c_kg_k}{c_1 + c_2 + c_3 + \dots + c_k}$$

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

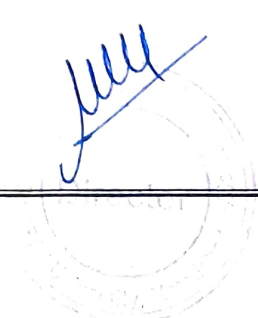
(d) **Cumulative Grade Point Average (CGPA)**

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:

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

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(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.

10 B. 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.

11. Academic work

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

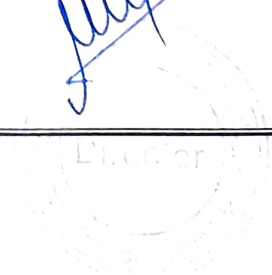
12. Course of study

The course of study for B.Tech shall include Semester-Wise Theory & Sessional. The number of hours to be devoted to each theory, tutorial and practical course in any semester shall not be less than forty (40).

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B.Tech EE I Semester

Theory Papers (Total 6), Practical Paper (Total 4)

S.N.	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.	FSC	TEMA -101	Engineering Mathematics-I	3	1	0	20	10	30	70	100	4
2.	FSC	TEPH -101	Engineering Physics-I	3	1	0	20	10	30	70	100	4
3.	VAC / FSC	TECE -101 / TECH -101	Environmental Science / Engineering Chemistry	3	1	0	20	10	30	70	100	4
4.	HML/ FSC	TPSD -101 / TEME -101	Professional Skill Development-I / Engineering Mechanics	3	1	0	20	10	30	70	100	4
5.	FSC/ FSC	TEEE -101 / TEEC -101	Electrical Engineering / Electronics Engineering	3	1	0	20	10	30	70	100	4
6.	FSC/ FSC	TEME -102 / TECS -101	Materials & Manufacturing / Computer Fundamentals & Programming	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	ELC	TEPH -151 / TECH -151	Physics Lab / Chemistry Lab	0	0	2	-	-	30	70	100	1
8.	ELC	TEEE -151 / TEEC -151	Electrical Engg. Lab / Electronics Engg. Lab	0	0	2	-	-	30	70	100	1
9.	ELC	TEME-152 / TECS -151	Materials & Manufacturing Lab / Computer Lab	0	0	2	-	-	30	70	100	1
10.	ELC	TEME-153 / TEME -151	Engineering Graphics Lab / Mechanical Engg. Lab	0	0	2	-	-	30	70	100	1
11.	PST	TGP-101	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				18	06	08	-	-	-	-	1100	29

B.Tech EE II Semester

Theory Papers (Total 6), Practical Paper (Total 4)

S.N.	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.	FSC	TEMA -201	Engineering Mathematics-II	3	1	0	20	10	30	70	100	4
2.	FSC	TEPH -201	Engineering Physics-II	3	1	0	20	10	30	70	100	4
3.	FSC / VAC	TECH -201 / TECE -201	Engineering Chemistry / Environmental Science	3	1	0	20	10	30	70	100	4
4.	FSC/HML	TEME -201 / TPSD -201	Engineering Mechanics / Professional Skill Development-I	3	1	0	20	10	30	70	100	4
5.	FSC / FSC	TEEC-201/ TEEE -201	Electronics Engineering / Electrical Engineering	3	1	0	20	10	30	70	100	4
6.	FSC / FSC	TECS -201 / TEME -202	Computer Fundamentals & Programming / Materials & Manufacturing	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	ELC	TECH -251 / TEPH -251	Chemistry Lab / Physics Lab	0	0	2	-	-	30	70	100	1
8.	ELC	TEEC -251 / TEEE -251	Electronics Engg. Lab / Electrical Engg. Lab	0	0	2	-	-	30	70	100	1
9.	ELC	TECS -251 / TEME -252	Computer Lab / Materials & Manufacturing Lab	0	0	2	-	-	30	70	100	1
10.	ELC	TEME -251 / TEME-253	Mechanical Engg. Lab / Engineering Graphics Lab	0	0	2	-	-	30	70	100	1
11.	PST	TGP-201	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				18	06	08	-	-	-	-	1100	29

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B.Tech EE III Semester

Theory Papers (Total 6), Audit Paper (Total 01), Practical Paper (Total 4)

S.N.	Category	Course Code	Course Name	Periods			EVALUATION SCHEME				Course Total	Credits
				L	T	P	Mid Term Exam			External Exam		
							CT	AS +AT	Total			
THEORY												
1.	FSC	TEMA-301	Engineering Mathematics -III	3	1	0	20	10	30	70	100	4
2.	ECC	TEEE-301	Electrical Machine-I	3	1	0	20	10	30	70	100	4
3.	ECC	TEEE-302	Electrical Measurements And Measuring Instruments-I	3	1	0	20	10	30	70	100	4
4.	ECC	TEEE-303	Analog Electronic Devices	3	1	0	20	10	30	70	100	4
5.	ECC	TEEE-304	Electromagnetic Field Theory	3	1	0	20	10	30	70	100	4
6.	ECC	TEEE-305	Networks and Systems	3	1	0	20	10	30	70	100	4
7.	VAC	TEHU-401	Disaster Management (Audit Paper)#	3	0	0	20	10	30	70 *	100 *	0
PRACTICALS / PROJECT												
7.	ELC	TEEE-351	Electrical Machine -I Lab	0	0	2	-	-	30	70	100	1
8.	ELC	TEEE-352	Network Lab	0	0	2	-	-	30	70	100	1
9.	ELC	TEEE-353	Electronic Devices Lab	0	0	2	-	-	30	70	100	1
10.	ELC	TEEE-354	Electrical Measurements -I Lab	0	0	2	-	-	30	70	100	1
11.	PST	TGP-301	General Proficiency	-	-	-	-	-	100	-	100	1
			TOTAL	18	06	08	-	-	-	-	1100	29

B.Tech EE IV Semester

Theory Papers (Total 6), Practical Paper (Total 4)

S.N.	Category	Course Code	Course Name	Periods			EVALUATION SCHEME				Course Total	Credits
				L	T	P	Mid Term Exam			External Exam		
							CT	AS +AT	Total			
THEORY												
1.	FSC	TEMA-401	Computer based Numerical & Statistical Techniques	3	1	0	20	10	30	70	100	4
2.	ECC	TEEE-401	Electrical Measurements And Measuring Instrument-II	3	1	0	20	10	30	70	100	4
3.	ECC	TEEE-402	Electrical Machine -II	3	1	0	20	10	30	70	100	4
4.	ECC	TEEE-403	Digital Electronics	3	1	0	20	10	30	70	100	4
5.	ECC	TEEE-404	Signal and Systems	3	1	0	20	10	30	70	100	4
6.	HML	TPSD-401	Professional Skill Development - II	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
8.	ELC	TEEE-451	MATLAB and SIMULINK Lab	0	0	2	-	-	30	70	100	1
9.	ELC	TEEE-452	Digital Electronics Lab	0	0	2	-	-	30	70	100	1
10.	ELC	TEEE-453	Electrical Measurements -II Lab	0	0	2	-	-	30	70	100	1
11.	ELC	TEEE-454	Electrical Machine -II Lab	0	0	2	-	-	30	70	100	1
12.	PST	TGP-401	General Proficiency	-	-	-	-	-	100	-	100	1
			TOTAL	18	06	08	-	-	-	-	1100	29

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B.Tech EE V Semester

Theory Papers (Total 6) Practical Paper (Total 4)

S.N.	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.	ECC	TEEE-501	Microprocessor Engineering	3	1	0	20	10	30	70	100	4
2.	ECC	TEEE-502	Electrical Engineering Material Science	3	1	0	20	10	30	70	100	4
3.	ECC	TEEE-503	Commutating Machines	3	1	0	20	10	30	70	100	4
4.	ECC	TEEE-504	Control System	3	1	0	20	10	30	70	100	4
5.	HML	TEHU-501	Human Values & Professional Ethics	3	1	0	20	10	30	70	100	4
6.	EDE	TEEE-505	Instrumentation Engineering	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	ELC	TEEE-551	Microprocessor Lab	0	0	2	-	-	30	70	100	1
8.	ELC	TEEE-552	Electrical Machine-III Lab	0	0	2	-	-	30	70	100	1
9.	ELC	TEEE-553	Control System Lab	0	0	2	-	-	30	70	100	1
10.	ELC	TEEE-554	Instrumentation Engineering Lab	0	0	2	-	-	30	70	100	1
11.	PST	TGP-501	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				18	06	08	-	-	-	-	1100	29

B.Tech EE VI Semester

Theory Papers (Total 6) Practical Paper (Total 4)

S.N.	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.	ECC	TEEE-601	Power System Protection	3	1	0	20	10	30	70	100	4
2.	ECC	TEEE-602	Power Electronics	3	1	0	20	10	30	70	100	4
3.	ECC	TEEE-603	Principles of Electrical Machine Design	3	1	0	20	10	30	70	100	4
4.	ECC	TEEE-604	Digital Signal Processing	3	1	0	20	10	30	70	100	4
5.	EDE	TEEE-1	Elective-I	3	1	0	20	10	30	70	100	4
6.	ECC	TEEE-606	Electrical Power Transmission & Distribution	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
8.	ELC	TEEE-651	Power System Protection Lab	0	0	2	-	-	30	70	100	1
9.	ELC	TEEE-652	Power Electronics Lab	0	0	2	-	-	30	70	100	1
10.	ELC	TEEE-653	Electrical Machine Design Lab	0	0	2	-	-	30	70	100	1
11.	ELC	TEEE-654	Digital Signal Processing Lab	0	0	2	-	-	30	70	100	1
12.	PST	TGP-601	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				18	06	08	-	-	-	-	1100	29

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B.Tech EE VII Semester

Theory Papers (Total 6) Practical Paper (Total 4)

S.N.	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.	HML	TEHU-701	Industrial Management	3	1	0	20	10	30	70	100	4
2.	ECC	TEEE-702	Power System Analysis	3	1	0	20	10	30	70	100	4
3.	ECC	TEEE-703	Electrical Drives	3	1	0	20	10	30	70	100	4
4.	ECC	TEEE-704	Utilization of Electrical Energy and Traction	3	1	0	20	10	30	70	100	4
5.	ECC	TEEE-2	Elective-II	3	1	0	20	10	30	70	100	4
6.	ECC	TEEE-706	Intelligent Instrumentation	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	PDT	TEEE-751	Seminar*	-	-	2	-	-	100	-	100	1
8.	ELC	TEEE-752	Power System Analysis Lab	0	0	2	-	-	30	70	100	1
9.	ELC	TEEE-753	Electrical Drives Lab	0	0	2	-	-	30	70	100	1
10.	PDT	TEEE754	Industrial Training (Evaluation & Viva)	0	0	2	-	-	100	-	100	1
11.	PST	TGP-701	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				18	06	08	-	-	-	-	1100	29

B.Tech EE VIII Semester

Theory Papers (Total 3) Practical Paper (Total 1)

S.N.	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.	VAC	TEEE-801	Non Conventional Energy Resources	3	1	0	20	10	30	70	100	4
2.	ECC	TEEE-802	Power System Operation and Control	3	1	0	20	10	30	70	100	4
3.	ECC	TEEE-803	Power Station Practice	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
4.	PST	TEEE - 851	Project	0	0	20	-	-	300	400	700	10
5.	PST	TGP-801	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				09	03	20	-	-	-	-	1100	23

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B.Tech EC I Semester

Theory Papers (Total 6) Practical Paper (Total 4)

S. N.	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.	FSC	TEMA -101	Engineering Mathematics-I	3	1	0	20	10	30	70	100	4
2.	FSC	TEPH -101	Engineering Physics-I	3	1	0	20	10	30	70	100	4
3.	VAC / FSC	TECE -101 /TECH -101	Environmental Science / Engineering Chemistry	3	1	0	20	10	30	70	100	4
4.	HML/F SC	TPSD -101 /TEME -101	Professional Skill Development-I/ Engineering Mechanics	3	1	0	20	10	30	70	100	4
5.	FSC / FSC	TEEE -101 /TEEC -101	Electrical Engineering / Electronics Engineering	3	1	0	20	10	30	70	100	4
6.	FSC / FSC	TEME -102 /TECS -101	Materials & Manufacturing / Computer Fundamentals & Programming	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	ELC	TEPH -151 /TECH -151	Physics Lab / Chemistry Lab	0	0	2	20	10	30	70	100	1
8.	ELC	TEEE -151 /TEEC -151	Electrical Engg. Lab / Electronics Engg. Lab	0	0	2	20	10	30	70	100	1
9.	ELC	TEME-152 /T ECS -151	Materials & Manufacturing Lab / Computer Lab	0	0	2	20	10	30	70	100	1
10	ELC	TEME-153 /TEME -151	Engineering Graphics Lab / Mechanical Engg. Lab	0	0	2	20	10	30	70	100	1
11	PDT	TGP-101	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				18	06	08	-	-	-	-	1100	29

B.Tech EC II Semester

Theory Papers (Total 6) Practical Paper (Total 4)

S. N.	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.	FSC	TEMA -201	Engineering Mathematics-II	3	1	0	20	10	30	70	100	4
2.	FSC	TEPH -201	Engineering Physics-II	3	1	0	20	10	30	70	100	4
3.	FSC / VAC	TECH -201 / TECE -201	Engineering Chemistry / Environmental Science	3	1	0	20	10	30	70	100	4
4.	FSC/ HML	TEME -201 /TPSD -201	Engineering Mechanics / Professional Skill Development-I	3	1	0	20	10	30	70	100	4
5.	FSC / FSC	TEEC -201 /TEEE -201	Electronics Engineering / Electrical Engineering	3	1	0	20	10	30	70	100	4
6.	FSC / FSC	TECS-201 / TEME -202	Computer Fundamentals & Programming / Materials & Manufacturing	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	ELC	TECH-251 /TEPH -251	Chemistry Lab / Physics Lab	0	0	2	20	10	30	70	100	1
8.	ELC	TEEC -251 /TEEE -251	Electronics Engg. Lab / Electrical Engg. Lab	0	0	2	20	10	30	70	100	1
9.	ELC	TECS-251 / TEME -252	Computer Lab / Materials & Manufacturing Lab	0	0	2	20	10	30	70	100	1
10	ELC	TEME-251 / TEME-253	Mechanical Engg. Lab / Engineering Graphics Lab	0	0	2	20	10	30	70	100	1
11	PDT	TGP-201	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				18	06	08	-	-	-	-	1100	29

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B.Tech EC III Semester

Theory Papers (Total 6) Audit Papers (Total 1) Practical Paper (Total 4)

S. N.	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.	FSC	TEMA-301	Engineering Mathematics -III	3	1	0	20	10	30	70	100	4
2.	ECC	TEEC-301	Digital Integrated Circuit	3	1	0	20	10	30	70	100	4
3.	ECC	TEEC-302	Signals and Systems	3	1	0	20	10	30	70	100	4
4.	ECC	TEEC-303	Elementary Electronic Devices	3	1	0	20	10	30	70	100	4
5.	ECC	TEEC-305	Network Analysis and Synthesis	3	1	0	20	10	30	70	100	4
6.	ECC	TECR-301	Professional Skill Development - II	3	1	0	20	10	30	70	100	4
7.	VAC	TEHU-301	Disaster Management (Audit Paper)**	3	0	0	20	10	30	70 *	100 *	3 *
PRACTICALS / PROJECT												
7.	ELC	TEEC-351	Digital Integrated Circuit Lab	0	0	2	20	10	30	70	100	1
8.	ELC	TEEC-352	Networks and Circuits Lab	0	0	2	20	10	30	70	100	1
9.	ELC	TEEC-353	Electronic Devices Lab	0	0	2	20	10	30	70	100	1
10.	ELC	TEEC-354	PCB lab	0	0	2	20	10	30	70	100	1
11.	PDT	TGP-301	General Proficiency	-	-	-	-	-	100	-	100	1
			TOTAL	18	06	08	-	-	-	-	1100	29

B.Tech EC IV Semester

Theory Papers (Total 6) Practical Paper (Total 4)

S.N.	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.	FSC	TEMA-401	Computer Based Numerical Analysis and Statistical Techniques	3	1	0	20	10	30	70	100	4
2.	ECC	TEEC-401	Electronic Circuits	3	1	0	20	10	30	70	100	4
3.	ECC	TEEC-402	Control Systems and Applications	3	1	0	20	10	30	70	100	4
4.	ECC	TEEC-403	Microprocessor and Applications	3	1	0	20	10	30	70	100	4
5.	ECC	TEEC-404	Electronics Instrumentation & Measurements	3	1	0	20	10	30	70	100	4
6.	HML	TEEC-405	Engineering Electromagnetic Theory	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
8.	ELC	TEEC-451	Electronic Circuits Lab	0	0	2	20	10	30	70	100	1
9.	ELC	TEEC-452	Control System Lab	0	0	2	20	10	30	70	100	1
10.	ELC	TEEC-453	Microprocessor Lab - I	0	0	2	20	10	30	70	100	1
11.	ELC	TEEC-454	Measurement Lab	0	0	2	20	10	30	70	100	1
12.	PDT	TGP-401	General Proficiency	-	-	-	-	-	100	-	100	1
			TOTAL	18	06	08	-	-	-	-	1100	29

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B.Tech EC V Semester

Theory Papers (Total 6) Practical Paper (Total 4)

S.N.	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.	ECC	TEEC-501	Linear Integrated Circuits	3	1	0	20	10	30	70	100	4
2.	ECC	TEEC-502	Analog Communication System	3	1	0	20	10	30	70	100	4
3.	ECC	TEEC-503	Advanced Microprocessor and Microcontroller	3	1	0	20	10	30	70	100	4
4.	ECC	TEEC-505	Power Electronics	3	1	0	20	10	30	70	100	4
5.	HML	TEEC-	Departmental Elective-I*	3	1	0	20	10	30	70	100	4
6.	EDE	TEHU501	Human Values and Professional Ethics	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	ELC	TEEC-551	Linear Integrated Circuits Lab	0	0	2	20	10	30	70	100	1
8.	ELC	TEEC-552	Communication Lab- I	0	0	2	20	10	30	70	100	1
9.	ELC	TEEC-553	Microprocessor Lab-II	0	0	2	20	10	30	70	100	1
10.	ELC	TEEC-554	Power Electronics Lab	0	0	2	20	10	30	70	100	1
11.	PDT	TGP-501	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				18	06	08	-	-	-	-	1100	29

B.Tech EC VI Semester

Theory Papers (Total 6) Practical Paper (Total 4)

S.N.	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.	ECC	TEEC-601	Digital Communication	3	1	0	20	10	30	70	100	4
2.	ECC	TEEC-602	Digital Signal Processing	3	1	0	20	10	30	70	100	4
3.	ECC	TEEC-603	Microwave Engineering	3	1	0	20	10	30	70	100	4
4.	ECC	TEEC-604	VLSI Technology	3	1	0	20	10	30	70	100	4
5.	EDE	TEEC-605	Antenna Theory and Wave Propagation	3	1	0	20	10	30	70	100	4
6.	ECC	TEEC-	Departmental Elective-II*	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
8.	ELC	TEEC-651	Communication Lab -II	0	0	2	20	10	30	70	100	1
9.	ELC	TEEC-652	DSP Lab	0	0	2	20	10	30	70	100	1
10.	ELC	TEEC-653	Microwave Lab	0	0	2	20	10	30	70	100	1
11.	ELC	TEEC-654	Seminar	0	0	2	-	100	100	-	100	1
12.	PDT	TGP-601	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				18	06	08	-	-	-	-	1100	29

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B.Tech EC VII Semester

Theory Papers (Total 6) Practical Paper (Total 4)

S.N.	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.	HML	TEEC-701	Wireless Communication	3	1	0	20	10	30	70	100	4
2.	ECC	TEEC-702	Data Communication Networks	3	1	0	20	10	30	70	100	4
3.	ECC	TEEC-703	Optical Fiber Communication	3	1	0	20	10	30	70	100	4
4.	ECC	TEEC-704	VLSI Design	3	1	0	20	10	30	70	100	4
5.	ECC	TEEC-	Departmental Elective-III*	3	1	0	20	10	30	70	100	4
6.	ECC	TEHU701	Industrial Management	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	PDT	TEEC-751	CAD of Electronics Lab	-	-	2	-	100	100	-	100	1
8.	ELC	TEEC-752	Optical Fiber Communication Lab	0	0	2	20	10	30	70	100	1
9.	ELC	TEEC-753	Communication Network Simulation Lab	0	0	2	20	10	30	70	100	1
10.	PDT	TEEC-754	Industrial Training (Evaluation & Viva)	0	0	2	20	10	30	70	100	1
11.	PDT	TGP-701	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				18	06	08	-	-	-	-	1100	29

B.Tech EC VIII Semester

Theory Papers (Total 3)

Practical Paper (Total 1)

S.N.	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.	VAC	TEEC-801	Introduction to Radar System	3	1	0	20	10	30	70	100	4
2.	ECC	TEEC-802	Electronics Switching	3	1	0	20	10	30	70	100	4
3.	ECC	TEEC-	Departmental Elective-IV*	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
4.	PDT	TEEC-851	Project	0	0	20	-	300	300	400	700	10
5.	PDT	TGP-801	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				09	03	20	-	-	-	-	1100	23

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B.Tech ME I Semester

Theory Papers (Total 6) Practical Paper (Total 4)

S.N.	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.	FSC	TEMA -101	Engineering Mathematics-I	3	1	0	20	10	30	70	100	4
2.	FSC	TEPH -101	Engineering Physics-I	3	1	0	20	10	30	70	100	4
3.	VAC /	TECE -101/ TECH -101	Environmental Science / Engineering Chemistry	3	1	0	20	10	30	70	100	4
4.	HML / FSC	TPSD -101 / TEME -101	Professional Skill Development-I / Engineering Mechanics	3	1	0	20	10	30	70	100	4
5.	FSC / FSC	TEEE -101 / TEEC -101	Electrical Engineering / Electronics Engineering	3	1	0	20	10	30	70	100	4
6.	FSC / FSC	TEME -102 / TECS -101	Materials & Manufacturing / Computer Fundamentals & Programming	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	ELC	TEPH -151 / TECH -151	Physics Lab / Chemistry Lab	0	0	2	-	-	30	70	100	1
8.	ELC	TEEE -151 / TEEC -151	Electrical Engg. Lab / Electronics Engg. Lab	0	0	2	-	-	30	70	100	1
9.	ELC	TEME-152 / TECS-151	Materials & Manufacturing Lab / Computer Lab	0	0	2	-	-	30	70	100	1
10.	ELC	TEME-153 / TEME -151	Engineering Graphics Lab / Mechanical Engg. Lab	0	0	2	-	-	30	70	100	1
11.	PST	TGP-101	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				18	06	08	-	-	-	-	1100	29

B.Tech ME II Semester

Theory Papers (Total 6) Practical Paper (Total 4)

S. N.	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.	FSC	TEMA -201	Engineering Mathematics-II	3	1	0	20	10	30	70	100	4
2.	FSC	TEPH -201	Engineering Physics-II	3	1	0	20	10	30	70	100	4
3.	FSC / VAC	TECH -201 / TECE -201	Engineering Chemistry / Environmental Science	3	1	0	20	10	30	70	100	4
4.	FSC / HML	TEME -201 / TPSD -201	Engineering Mechanics / Professional Skill Development-I	3	1	0	20	10	30	70	100	4
5.	FSC / FSC	TEEC -201 / TEEE -201	Electronics Engineering / Electrical Engineering	3	1	0	20	10	30	70	100	4
6.	FSC / FSC	TECS -201 / TEME-202	Computer Fundamentals & Programming / Materials & Manufacturing	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	ELC	TECH -251 / TEPH-251	Chemistry Lab / Physics Lab	0	0	2	-	-	30	70	100	1
8.	ELC	TEEC -251 / TEEE -251	Electronics Engg. Lab / Electrical Engg. Lab	0	0	2	-	-	30	70	100	1
9.	ELC	TECS -251 / TEME -252	Computer Lab / Materials & Manufacturing Lab	0	0	2	-	-	30	70	100	1
10.	ELC	TEME -251 / TEME-253	Mechanical Engg. Lab / Engineering Graphics Lab	0	0	2	-	-	30	70	100	1
11.	PST	TGP-201	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				18	06	08	-	-	-	-	1100	29

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B.Tech ME III Semester

Theory Papers (Total 6) Practical Paper (Total 4)

S. N.	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.	FSC	TEMA-301	Engineering Mathematics -III	3	1	0	20	10	30	70	100	4
2.	ECC	TEME-301	Thermodynamics	3	1	0	20	10	30	70	100	4
3.	ECC	TEME-302	Mechanics of Solids	3	1	0	20	10	30	70	100	4
4.	ECC	TEME-303	Fluid Mechanics	3	1	0	20	10	30	70	100	4
5.	ECC	TEME-304	Measurement & Metrology	3	1	0	20	10	30	70	100	4
6.	ECC	TEME-307	Industrial Engineering	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	ELC	TEME-351	Thermodynamics Lab	0	0	2	-	-	30	70	100	1
8.	ELC	TEME -352	Machine Drawing -I Lab	0	0	2	-	-	30	70	100	1
9.	ELC	TEME -353	Fluid Mechanics Lab	0	0	2	-	-	30	70	100	1
10.	ELC	TEME -354	Measurement & Metrology Lab	0	0	2	-	-	30	70	100	1
11.	PST	TGP-301	General Proficiency	-	-	-	-	-	100	-	100	1
			TOTAL	18	06	08	-	-	-	-	1100	29

B.Tech ME IV Semester

Theory Papers (Total 6) Audit Papers (Total 1) Practical Paper (Total 4)

S.N.	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.	ECC	TEME -401	Applied Thermodynamics	3	1	0	20	10	30	70	100	4
2.	ECC	TEME -402	Advance Mechanics of Solids	3	1	0	20	10	30	70	100	4
3.	ECC	TEME -403	Materials Science	3	1	0	20	10	30	70	100	4
4.	ECC	TEME -404	Kinematics of Machines	3	1	0	20	10	30	70	100	4
5.	ECC	TEEE -405	Electrical Machines & Automatic Control	3	1	0	20	10	30	70	100	4
6.	HML	TPSD-401	Professional Skill Development - II	3	1	0	20	10	30	70	100	4
7.	VAC	TEHU-401	Disaster Management (Audit Paper)#	3	0	0	20	10	30	70	100	0
PRACTICALS / PROJECT												
8.	ELC	TEME -451	Applied Thermodynamics Lab	0	0	2	-	-	30	70	100*	1
9.	ELC	TEME -452	Machine Drawing -II Lab	0	0	2	-	-	30	70	100	1
10.	ELC	TEME -453	Materials Testing Lab	0	0	2	-	-	30	70	100	1
11.	ELC	TEEE -455	Electrical Machines Lab	0	0	2	-	-	30	70	100	1
12.	PST	TGP-401	General Proficiency	-	-	-	-	-	100	-	100	1
			TOTAL	18	06	08	-	-	-	-	1100	29

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B.Tech ME V Semester

Theory Papers (Total 6) Practical Paper (Total 4)

S.N.	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.	ECC	TEME -501	Heat Transfer	3	1	0	20	10	30	70	100	4
2.	ECC	TEME -502	Machine Design -I	3	1	0	20	10	30	70	100	4
3.	ECC	TEME -503	Manufacturing Engineering - I	3	1	0	20	10	30	70	100	4
4.	ECC	TEME -504	Fluid Machinery	3	1	0	20	10	30	70	100	4
5.	ECC	TEME -507	I.C Engines	3	1	0	20	10	30	70	100	4
6.	EDE	DEME - 1	Departmental Elective - 1	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	ELC	TEME -551	Heat Transfer Lab	0	0	2	-	-	30	70	100	1
8.	ELC	TEME -552	Machine Design -I Lab	0	0	2	-	-	30	70	100	1
9.	ELC	TEME -553	Manufacturing Engineering Lab	0	0	2	-	-	30	70	100	1
10.	ELC	TEME -554	Fluid Machinery Lab	0	0	2	-	-	30	70	100	1
11.	PST	TGP-501	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				18	06	08	-	-	-	-	1100	29

B.Tech ME VI Semester

Theory Papers (Total 6) Practical Paper (Total 4)

S.N.	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.	ECC	TEME -601	Refrigeration & Air Conditioning	3	1	0	20	10	30	70	100	4
2.	ECC	TEME -602	Machine Design -II	3	1	0	20	10	30	70	100	4
3.	ECC	TEME -603	Dynamics of Machines	3	1	0	20	10	30	70	100	4
4.	ECC	TEME -604	Manufacturing Engineering - II	3	1	0	20	10	30	70	100	4
5.	ECC	TEME -605	Production Planning & Control	3	1	0	20	10	30	70	100	4
6.	HML	TEHU -601	Human values & Professional Ethics	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	ELC	TEME -651	Refrigeration & A.C. Lab	0	0	2	-	-	30	70	100	1
8.	ELC	TEME -652	Machine Design - II Lab	0	0	2	-	-	30	70	100	1
9.	ELC	TEME -653	Dynamics of Machine Lab	0	0	2	-	-	30	70	100	1
10.	PST	TEME -654	Seminar	0	0	2	-	-	100	-	100	1
11.	PST	TGP-601	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				18	06	08	-	-	-	-	1100	29

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B.Tech ME VII Semester

Theory Papers (Total 6) Practical Paper (Total 4)

S.N.	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.	ECC	TEME -701	Power Plant Engineering	3	1	0	20	10	30	70	100	4
2.	ECC	TEME -702	Computer Aided Design	3	1	0	20	10	30	70	100	4
3.	ECC	TEME -703	Computer Aided Manufacturing	3	1	0	20	10	30	70	100	4
4.	ECC	TEME -704	Automobile Engineering	3	1	0	20	10	30	70	100	4
5.	ECC	TEME -705	Unconventional Manufacturing Processes	3	1	0	20	10	30	70	100	4
6.	EDE	TEME-2	Departmental Elective - II	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	PST	TEME -751	Industrial Training (Evaluation & Viva)	0	0	2	-	-	100	-	100	1
8.	ELC	TEME -752	Computer Aided Design Lab	0	0	2	-	-	30	70	100	1
9.	ELC	TEME -753	Computer Aided Manufacturing Lab	0	0	2	-	-	30	70	100	1
10.	ELC	TEME -754	Automobile Engineering Lab	0	0	2	-	-	30	70	100	1
11.	PST	TGP-701	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				18	06	08	-	-	-	-	1100	29

B.Tech ME VIII Semester

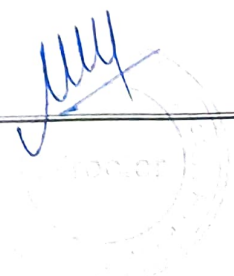
Theory Papers (Total 3) Practical Paper (Total 1)

S.N.	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.	ECC	TEME - 801	Maintenance Engineering & Management	3	1	0	20	10	30	70	100	4
2.	VAC	TEME - 802	Non-Conventional Energy Resources	3	1	0	20	10	30	70	100	4
3.	HML	TEHU - 801	Industrial Management	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
4.	PST	TEME - 851	Project	0	0	20	-	-	300	400	700	10
5.	PST	TGP-801	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				09	03	20	-	-	-	-	1100	23

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B.Tech CE I Semester

Theory Papers (Total 6) Practical Paper (Total 4)

S. N.	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.	FSC	TEMA -101	Engineering Mathematics-I	3	1	0	20	10	30	70	100	4
2.	FSC	TEPH -101	Engineering Physics-I	3	1	0	20	10	30	70	100	4
3.	VAC / FSC	TECE -101 / TECH -101	Environmental Science / Engineering Chemistry	3	1	0	20	10	30	70	100	4
4.	HML/FSC	TPSD -101 / TEME -101	Professional Skill Development-I / Engineering Mechanics	3	1	0	20	10	30	70	100	4
5.	FSC / FSC	TEEE-101 / TEEC -101	Electrical Engineering / Electronics Engineering	3	1	0	20	10	30	70	100	4
6.	FSC / FSC	TEME-102 / TECS -101	Materials & Manufacturing / Computer Fundamentals & Programming	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	ELC	TEPH-151 / TECH -151	Physics Lab / Chemistry Lab	0	0	2	-	-	30	70	100	1
8.	ELC	TEEE-151 / TEEC -151	Electrical Engg. Lab / Electronics Engg. Lab	0	0	2	-	-	30	70	100	1
9.	ELC	TEME-152 / TECS -151	Materials & Manufacturing Lab / Computer Lab	0	0	2	-	-	30	70	100	1
10.	ELC	TEME-153 / TEME -151	Engineering Graphics Lab / Mechanical Engg. Lab	0	0	2	-	-	30	70	100	1
11.	PST	TGP-101	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				18	06	08	-	-	-	-	1100	29

B.Tech CE II Semester

Theory Papers (Total 6) Practical Paper (Total 4)

S. N.	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.	FSC	TEMA -201	Engineering Mathematics-II	3	1	0	20	10	30	70	100	4
2.	FSC	TEPH -201	Engineering Physics-II	3	1	0	20	10	30	70	100	4
3.	FSC / VAC	TECH-201 / TECE -201	Engineering Chemistry / Environmental Science	3	1	0	20	10	30	70	100	4
4.	FSC / HML	TEME-201 / TPSD -201	Engineering Mechanics / Professional Skill Development-I	3	1	0	20	10	30	70	100	4
5.	FSC / FSC	TEEC -201 / TEEE -201	Electronics Engineering / Electrical Engineering	3	1	0	20	10	30	70	100	4
6.	FSC / FSC	TECS-201 / TEME -202	Computer Fundamentals & Programming / Materials & Manufacturing	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	ELC	TECH-251 / TEPH -251	Chemistry Lab / Physics Lab	0	0	2	-	-	30	70	100	1
8.	ELC	TEEC-251 / TEEE -251	Electronics Engg. Lab / Electrical Engg. Lab	0	0	2	-	-	30	70	100	1
9.	ELC	TECS-251 / TEME -252	Computer Lab / Materials & Manufacturing Lab	0	0	2	-	-	30	70	100	1
10.	ELC	TEME-251 / TEME-253	Mechanical Engg. Lab / Engineering Graphics Lab	0	0	2	-	-	30	70	100	1
11.	PST	TGP-201	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				18	06	08	-	-	-	-	1100	29

Sanjeev Adarsh

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B.Tech CE III Semester

Theory Papers (Total 6) Practical Paper (Total 4)

S. N.	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.	FSC	TEMA -301	Engineering Mathematics -III	3	1	0	20	10	30	70	100	4
2.	ECC	TECE-301	Engineering Geology	3	1	0	20	10	30	70	100	4
3.	ECC	TECE-302	Building Materials & Construction	3	1	0	20	10	30	70	100	4
4.	ECC	TECE-303	Surveying Practice - I	3	1	0	20	10	30	70	100	4
5.	ECC	TECE-304	Fluid Mechanics	3	1	0	20	10	30	70	100	4
6.	ECC	TECE-305	Strength of Materials	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	ELC	TECE-351	Engineering Geology Lab	0	0	2	-	-	30	70	100	1
8.	ELC	TECE -352	Building Material Lab	0	0	2	-	-	30	70	100	1
9.	ELC	TECE -353	Surveying - I Lab	0	0	2	-	-	30	70	100	1
10.	ELC	TECE -354	Fluid Mechanics Lab	0	0	2	-	-	30	70	100	1
11.	PST	TGP-301	General Proficiency	-	-	-	-	-	100	-	100	1
			TOTAL	18	06	08	-	-	-	-	1100	29

B.Tech CE IV Semester

Theory Papers (Total 6) Audit Papers (Total 1) Practical Paper (Total 4)

S. N.	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.	FSC	TEMA - 401	Computer Based Numerical & Statistical Techniques	3	1	0	20	10	30	70	100	4
2.	ECC	TECE -401	Concrete Technology	3	1	0	20	10	30	70	100	4
3.	ECC	TECE -402	Surveying Practice - II	3	1	0	20	10	30	70	100	4
4.	ECC	TECE -403	Structural Analysis - I	3	1	0	20	10	30	70	100	4
5.	ECC	TECE -404	Estimation, Costing Evaluation	3	1	0	20	10	30	70	100	4
6.	HML	TPSD-401	Professional Skill Development - II	3	1	0	20	10	30	70	100	4
7.	VAC	TEHU-401	Disaster Management (Audit Course) #	2	1	0	20	10	30	70	100	0
PRACTICALS / PROJECT												
7.	ELC	TECE -451	Concrete Technology Lab	0	0	2	-	-	30	70	100	1
8.	ELC	TECE -452	Surveying - II Lab	0	0	2	-	-	30	70	100	1
9.	ELC	TECE -453	Building Planning & Drawing Lab	0	0	2	-	-	30	70	100	1
10.	ELC	TEMA - 451	Computer Based Numerical & Statistical Techniques Lab	0	0	2	-	-	30	70	100	1
11.	PST	TGP-401	General Proficiency	-	-	-	-	-	100	-	100	1
			TOTAL	18	06	08	-	-	-	-	1100	29

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B.Tech CE V Semester

Theory Papers (Total 6) Practical Paper (Total 4)

S. N.	Category	Course Code	Course Name	Periods			EVALUATION SCHEME				Course Total	Credits
							Mid Term Exam			External Exam		
				CT	AS +AT	Total						
THEORY												
1.	ECC	TECE - 501	Environmental Engineering - I	3	1	0	20	10	30	70	100	4
2.	ECC	TECE - 502	Transportation Engineering - I	3	1	0	20	10	30	70	100	4
3.	ECC	TECE - 503	Geotechnical Engineering-I	3	1	0	20	10	30	70	100	4
4.	ECC	TECE - 504	Structural Analysis - II	3	1	0	20	10	30	70	100	4
5.	ECC	TECE - 505	Reinforced Cement Concrete - I	3	1	0	20	10	30	70	100	4
6.	ECC	TECE - 506	Open Channel Flow	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	ELC	TECE - 551	Environmental Engineering. Lab	0	0	2	-	-	30	70	100	1
8.	ELC	TECE - 552	Transportation Engineering. Lab-I	0	0	2	-	-	30	70	100	1
9.	ELC	TECE - 553	Soil Mechanics Lab	0	0	2	-	-	30	70	100	1
10.	ELC	TECE - 554	Structural Analysis Lab	0	0	2	-	-	30	70	100	1
11.	PST	TGP-501	General Proficiency	-	-	-	-	-	100	-	100	1
			TOTAL	18	06	08	-	-	-	-	1100	29

B.Tech CE VI Semester

Theory Papers (Total 6) Practical Paper (Total 4)

S. N.	Category	Course Code	Course Name	Periods			EVALUATION SCHEME				Course Total	Credits
							Mid Term Exam			External Exam		
				CT	AS +AT	Total						
THEORY												
1.	ECC	TECE - 601	Environmental Engineering - II	3	1	0	20	10	30	70	100	4
2.	ECC	TECE - 602	Transportation Engineering - II	3	1	0	20	10	30	70	100	4
3.	ECC	TECE - 603	Hydrology	3	1	0	20	10	30	70	100	4
4.	HML	TEHU-601	Human Value & Professional Ethics	3	1	0	20	10	30	70	100	4
5.	ECC	TECE -605	Reinforced Cement Concrete - II	3	1	0	20	10	30	70	100	4
6.	ECC	TECE-606	Design of Steel Structure-I	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	ELC	TECE - 651	CAD Lab - I	0	0	2	-	-	30	70	100	1
8.	ELC	TECE - 652	Transportation Engineering. Lab-II	0	0	2	-	-	30	70	100	1
9.	ELC	TECE - 653	Hydraulic Engineering. Lab	0	0	2	-	-	30	70	100	1
10.	PST	TECE - 654	Seminar	0	0	2	-	-	30	70	100	1
11.	PST	TGP-601	General Proficiency	-	-	-	-	-	100	-	100	1
			TOTAL	18	06	08	-	-	-	-	1100	29

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B.Tech CE VII Semester

Theory Papers (Total 6) Practical Paper (Total 4)

S.N	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.	ECC	TECE - 701	Geotechnical Engineering-II	3	1	0	20	10	30	70	100	4
2.	ECC	TECE - 702	Irrigation Engineering	3	1	0	20	10	30	70	100	4
3.	ECC	TECE - 703	Design of Steel Structure-II	3	1	0	20	10	30	70	100	4
4.	ECC	TECE - 704	Construction Planning & Management	3	1	0	20	10	30	70	100	4
5.	ECC	TECE-706	Earthquake Resistant Design	3	1	0	20	10	30	70	100	4
6.	EDE	TECE-1	Departmental Elective- I	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	ELC	TECE - 751	CAD Lab - II	0	0	2	20	10	30	70	100	1
8.	ELC	TECE - 752	Geotechnical Engineering Lab-II	0	0	2	20	10	30	70	100	1
9.	ELC	TECE - 755	Structural Design and Detailing Lab	0	0	2	20	10	30	70	100	1
10.	PST	TECE - 754	Industrial Training (Evaluation & Viva)	0	0	2	-	100	100	-	100	1
11.	PST	TGP-701	General Proficiency	-	-	-	-	-	100	-	100	1
			TOTAL	18	06	08	-	-	-	-	1100	29

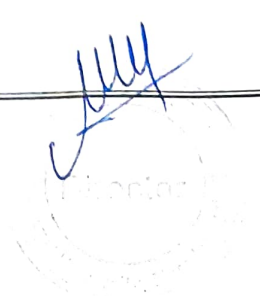
B.Tech CE VIII Semester

Theory Papers (Total 3) Practical Paper (Total 1)

S.N	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.	ECC	TECE-801	Water Resources Engineering.	3	1	0	20	10	30	70	100	4
2.	ECC	TECE-802	Bridge Engineering	3	1	0	20	10	30	70	100	4
3.	HML	TEHU-801	Industrial Management	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
4.	PST	TECE - 851	Project	0	0	20	-	-	300	400	700	10
5.	PST	TGP-801	General Proficiency	-	-	-	-	-	100	-	100	1
			TOTAL	02	00	20	-	-	-	-	1100	23

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B.Tech CS I Semester

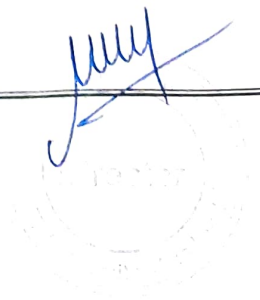
Theory Papers (Total 6)

Practical Paper (Total 4)

S.N.	CATEGORY	COURSE CODE	COURSE NAME	PERIODS			EVALUATION SCHEME				COURSE TOTAL	CREDITS
				L	T	P	MID TERM EXAM			EXTERNAL EXAM		
							CT	AS+AT	TOTAL			
THEORY												
1.	FSC	TEMA -101	Engineering Mathematics-I	3	1	0	20	10	30	70	100	4
2.	FSC	TEPH -101	Engineering Physics-I	3	1	0	20	10	30	70	100	4
3.	FSC	TECH -101	Engineering Chemistry	3	1	0	20	10	30	70	100	4
4.	HML	TPSD -101	Professional Skill Development-I	3	0	0	20	10	30	70	100	4
5.	FSC	TEEE -101	Electrical Engineering	3	1	0	20	10	30	70	100	4
6.	FSC	TEME -102	Materials & Manufacturing	3	1	0	20	10	30	70	100	4
Total											600	24
LABORATORY COURSE												
7.	ELC	TEPH -151	Physics Lab	0	0	2	20	10	30	70	100	1
8.	ELC	TEEE -151	Electrical Engg. Lab	0	0	2	20	10	30	70	100	1
9.	ELC	TEME -152	Manufacturing Lab	0	0	2	20	10	30	70	100	1
10.	ELC	TEME -153	Engineering Drawing Lab	0	0	2	20	10	30	70	100	1
11.	PDT	TEGP -101	General Proficiency	-	-	-	-	-	100	-	100	1
Total											500	5
SEMESTER TOTAL				18	06	08	-	-	-	-	1100	29

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B.Tech CS II Semester

Theory Papers (Total 6)

Practical Paper (Total 4)

S.N.	COURSE CATEGORY	COURSE CODE	COURSE NAME	PERIODS			EVALUATION SCHEME				COURSE TOTAL	CREDITS
				L	T	P	MID TERM EXAM		EXTERNAL EXAM			
							CT	AS +AT		TOTAL		
THEORY												
1.	FSC	TEMA - 201	Engineering Mathematics-II	3	1	0	20	10	30	70	100	4
2.	FSC	TEPH - 201	Engineering Physics-II	3	1	0	20	10	30	70	100	4
3.	VAC	TECH - 202	Environmental Science	3	0	0	20	10	30	70	100	4
4.	FSC	TEME - 201	Engineering Mechanics	3	1	0	20	10	30	70	100	4
5.	FSC	TEEC - 201	Electronics Engineering	3	1	0	20	10	30	70	100	4
6.	FSC	TECS - 201	Computer Fundamentals & Programming	3	1	0	20	10	30	70	100	4
Total											600	24
LABORATORY COURSE												
7.	ELC	TECH - 251	Chemistry Lab	0	0	2	20	10	30	70	100	1
8.	ELC	TECS - 251	Computer Lab	0	0	2	20	10	30	70	100	1
9.	ELC	TEEE - 251	Electrical Engg. Lab	0	0	2	20	10	30	70	100	1
10.	ELC	TEME - 251	Mechanical Engg. Lab	0	0	2	20	10	30	70	100	1
11.	PDT	TEGP- 201	General Proficiency	-	-	-	-	-	100	-	100	1
Total											500	5
SEMESTER TOTAL				18	06	08	-	-	-	-	1100	29

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B.Tech CS III Semester

Theory Papers (Total 6)

Audit Paper (Total 1)

Practical Paper (Total 4)

S. NO	COURSE CODE	SUBJECT	PERIODS			SESSIONAL				ESE	TOTAL	CREDITS
			L	T	P	TA	AT	CT	Total			
1.	TECS301	Data Structures Using C	3	1	0	5	5	10+10	30	70	100	4
2.	TECS302	C++ Programming	3	1	0	5	5	10+10	30	70	100	4
3.	TECS303	Computer Organization	3	1	0	5	5	10+10	30	70	100	4
4.	TECS304	Operating System Concepts	3	1	0	5	5	10+10	30	70	100	4
5.	TECS305	Discrete Mathematical Structures	3	1	0	5	5	10+10	30	70	100	4
6.	TEHU301	Disaster Management (audit Paper)	3	0	0	5	5	10+10	30	70*	100*	3*
7.	TPSD301	Professional Skill Development -2	3	1	0	5	5	10+10	30	70	100	4
PRACTICALS/Seminar/Projects												
8.	TECS351	Data Structure Lab	0	0	2	10	10	30	50	50	100	1
9.	TECS352	C++ Lab	0	0	2	10	10	30	50	50	100	1
10.	TECS353	Digital and CO Lab	0	0	2	10	10	30	50	50	100	1
11.	TECS354	OS Lab	0	0	2	10	10	30	50	50	100	1
12.	TEGP301	General Proficiency							100	--	100	1
											1100	29

B.Tech CS IV Semester

Theory Papers (Total 6)

Practical Paper (Total 4)

S. NO	COURSE CODE	SUBJECT	PERIODS			SESSIONAL				ESE	TOTAL	CREDITS
			L	T	P	TA	AT	CT	Total			
1.	TECS401	Data Communication & Network	3	1	0	5	5	10+10	30	70	100	4
2.	TECS402	Design and Analysis of Algorithms	3	1	0	5	5	10+10	30	70	100	4
3.	TECS403	Database Management System	3	1	0	5	5	10+10	30	70	100	4
4.	TECS404	Introduction to Microprocessor	3	1	0	5	5	10+10	30	70	100	4
5.	TECS405	Software Engineering	3	1	0	5	5	10+10	30	70	100	4
6.	TEMA401	Computer Based Numerical & Statistical Techniques	3	1	0	5	5	10+10	30	70	100	4
PRACTICALS/Seminar/Projects												
7.	TECS451	Computer Networks Lab	0	0	2	10	10	30	50	50	100	1
8.	TECS452	DAA Lab	0	0	2	10	10	30	50	50	100	1
9.	TECS453	DBMS Lab	0	0	2	10	10	30	50	50	100	1
10.	TECS454	Microprocessor Lab	0	0	2	10	10	30	50	50	100	1
11.	TEGP401	General Proficiency							100	--	100	1
											1100	29

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B.Tech CS V Semester

Theory Papers (Total 6)

Practical Paper (Total 4)

S. NO	COURSE CODE	SUBJECT	PERIODS			SESSIONAL				ESE	TOTAL	CREDITS
			L	T	P	TA	AT	CT	Total			
1.	TECS501	Computer Graphics	3	1	0	5	5	10+10	30	70	100	4
2.	TECS502	Internet & Java Programming	3	1	0	5	5	10+10	30	70	100	4
3.	TECS503	Artificial Intelligence	3	1	0	5	5	10+10	30	70	100	4
4.	TECS504	Theory of Computation	3	1	0	5	5	10+10	30	70	100	4
5.	TECS505	Computer Architecture	3	1	0	5	5	10+10	30	70	100	4
6.	TEHU501	Human Values & Professional Ethics	3	1	0	5	5	10+10	30	70	100	4
PRACTICALS/Seminar/Projects												
7.	TECS551	Computer Graphics Lab	0	0	2	10	10	30	50	50	100	1
8.	TECS552	Internet & Java Programming Lab	0	0	2	10	10	30	50	50	100	1
9.	TECS553	AI Lab	0	0	2	10	10	30	50	50	100	1
10.	TECS554	CBNST LAB	0	0	2	10	10	30	50	50	100	1
11.	TEGP501	General Proficiency							100	--	100	1
											1100	29

B.Tech CS VI Semester

Theory Papers (Total 6)

Practical Paper (Total 4)

S. NO	COURSE CODE	SUBJECT	PERIODS			SESSIONAL				ESE	TOTAL	CREDITS
			L	T	P	TA	AT	CT	Total			
1.	TECS601	Object Modeling Techniques & UML	3	1	0	5	5	10+10	30	70	100	4
2.	TECS602	Web Technology & E-Commerce	3	1	0	5	5	10+10	30	70	100	4
3.	TECS603	Compiler Design	3	1	0	5	5	10+10	30	70	100	4
4.	TECS604	Principles of Programming Language	3	1	0	5	5	10+10	30	70	100	4
5.	TECS605	Elective-I	3	1	0	5	5	10+10	30	70	100	4
6.	TECS606	Elective-II	3	1	0	5	5	10+10	30	70	100	4
PRACTICALS/Seminar/Projects												
7.	TECS651	Mini Project-I	0	0	2	10	10	30	50	50	100	1
8.	TECS652	Web Technology & Multimedia Lab	0	0	2	10	10	30	50	50	100	1
9.	TECS653	Compiler Design Lab	0	0	2	10	10	30	50	50	100	1
10.	TECS654	Python Lab	0	0	2	10	10	30	50	50	100	1
11.	TEGP601	General Proficiency							100	--	100	1
											1100	29

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B.Tech CS VII Semester

Theory Papers (Total 6)

Practical Paper (Total 4)

S. NO	COURSE CODE	SUBJECT	PERIODS			SESSIONAL				ESE	TOTAL	CREDITS
			L	T	P	TA	AT	CT	Total			
1.	TECS701	Elective-III	3	1	0	5	5	10+10	30	70	100	4
2.	TECS702	Digital Image Processing	3	1	0	5	5	10+10	30	70	100	4
3.	TECS703	Data Mining & Warehousing	3	1	0	5	5	10+10	30	70	100	4
4.	TECS704	Elective-IV	3	1	0	5	5	10+10	30	70	100	4
5.	TECS705	Cryptography & Network Security	3	1	0	5	5	10+10	30	70	100	4
6.	TEHU701	Industrial Management	3	1	0	5	5	10+10	30	70	100	4
PRACTICALS/Seminar/Projects												
7.	TECS751	Distributed Computing Lab	0	0	2	10	10	30	50	50	100	1
8.	TECS752	DIP Lab	0	0	2	10	10	30	100	--	100	1
9.	TECS753	Colloquium & Summer Training Viva	0	0	2	10	10	30	50	50	100	1
10.	TECS754	Mini Project-II	0	0	2	10	10	30	50	50	100	1
11.	TEGP701	General Proficiency							100	--	100	1
		Colloquium & Summer Training Viva									1100	29

B.Tech CS VIII Semester

Theory Papers (Total 3)

Practical Paper (Total 2)

S. NO	COURSE CODE	SUBJECT	PERIODS			SESSIONAL				ESE	TOTAL	CREDIT S
			L	T	P	TA	AT	CT	Total			
1.	TECS801	Elective-V	3	1	0	5	5	10+10	30	70	100	4
2.	TECS802	Elective-VI	3	1	0	5	5	10+10	30	70	100	4
3.	TECS804	Big Data and Analytics	3	1	0	5	5	10+10	30	70	100	4
PRACTICALS/ Seminar/ Projects												
4.	TECS851	Project	0	0	-	75	75	150	300	300	600	15
5.	TECS852	Seminar	0	0	-	0	0	0	100	--	100	1
6.	TEGP801	General Proficiency							100	--	100	1
											1100	29

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B.Tech BT I Semester

Theory Papers (Total 6)

Practical Paper (Total 4)

S. N.	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.	FSC	TEMA-102/ EBT107T	Elementary Mathematics-I/ Elementary Biology-I	3	1	0	20	10	30	70	100	4
2.	FSC	TEPH -101	Engineering Physics-I	3	1	0	20	10	30	70	100	4
3.	VAC / FSC	TECE-101/ TECH-101	Environmental Science/ Engineering Chemistry	3	1	0	20	10	30	70	100	4
4.	HML / FSC	TPSD101/ TEME-101	Professional Skill Development-I/ Engineering Mechanics	3	1	0	20	10	30	70	100	4
5.	FSC / FSC	TEEE -101/ TEEC-101	Electrical Engineering/ Electronics Engineering	3	1	0	20	10	30	70	100	4
6.	FSC / FSC	TECS -101/ EBT102T	Computer Fundamentals & Programming/ Introduction to Biotechnology	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	ELC	TEPH -151/ TECH-151	Physics Lab/Chemistry Lab	0	0	2	-	-	30	70	100	1
8.	ELC	TEEE -151/ TEEC-151	Electrical Engg. Lab/ Electronics Engg. Lab	0	0	2	-	-	30	70	100	1
9.	ELC	TECS-151/ EBT102P	Computer Lab/ Introduction to Biotechnology Lab	0	0	2	-	-	30	70	100	1
10.	ELC	TEME-153/ TEME-151	Engineering Graphics Lab/ Mechanical Engg. Lab	0	0	2	-	-	30	70	100	1
11.	PST	TGP-101	General Proficiency	-	-	-	-	-	100	-	100	1
Total Credit				18	6	8	-	-	400	700	1100	29

Sanjeev D. Sawal

July

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IFTM UNIVERSITY
MORADABAD.

B.Tech BT II Semester
Theory Papers (Total 6)
Practical Paper (Total 4)

S. N.	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.	FSC	TEMA-202/ EBT209T	Elementary Mathematics-II/ Elementary Biology-II	3	1	0	20	10	30	70	100	4
2.	FSC	TEPH -201	Engineering Physics-II	3	1	0	20	10	30	70	100	4
3.	FSC / VAC	TECH -201/ TECE-201	Engineering Chemistry/ Environmental Science	3	1	0	20	10	30	70	100	4
4.	FSC / HML	TEME-201/ TPSD201	Engineering Mechanics/ Professional Skill Development-I	3	1	0	20	10	30	70	100	4
5.	FSC / FSC	TEEC -201/ TEEE-201	Electronics Engineering/ Electrical Engineering	3	1	0	20	10	30	70	100	4
6.	FSC / FSC	EBT202T/ TECS-201	Introduction to Biotechnology/ Computer Fundamentals & Programming	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	ELC	TECH-251/ TEPH -251	Chemistry Lab/ Physics Lab	0	0	2	-	-	30	70	100	1
8.	ELC	TEEC-251/ TEEE -251	Electronics Engg. Lab/ Electrical Engg. Lab	0	0	2	-	-	30	70	100	1
9.	ELC	EBT-202P/ TECS-251	Introduction to Biotechnology Lab/ Computer Lab	0	0	2	-	-	30	70	100	1
10.	ELC	TEME-251/ TEME-253	Mechanical Engg. Lab/ Engineering Graphics Lab	0	0	2	-	-	30	70	100	1
11.	PST	TGP-201	General Proficiency	-	-	-	-	-	100	-	100	1
Total Credit				18	6	8	-	-	400	700	1100	29

Sanjeev Arora

July

REGISTRAR
IFTM UNIVERSITY
MORADABAD.

B.Tech BT III Semester

Theory Papers (Total 6)

Audit Paper (Total 1)

Practical Paper (Total 4)

S. N.	Category	Course Code	Course Name	Periods			EVALUATION SCHEME				Course Total	Credits
				L	T	P	Mid Term Exam			External Exam		
							CT	AS+ AT	Total			
1	ECC	TEBT301T	Biochemistry	3	1	0	20	10	30	70	100	4
2	ECC	TEBT302T	Microbiology	3	1	0	20	10	30	70	100	4
3	ECC	TEBT303T	Cell Biology	3	1	0	20	10	30	70	100	4
4	EDE	TEBT304T	Bioenergetics	3	1	0	20	10	30	70	100	4
5	EDE	TEBT305T	Fluid Flow and Solid Handling	3	1	0	20	10	30	70	100	4
6	FSC	TEBT306T	Biostatistics	3	1	0	20	10	30	70	100	4
7	VAC	TEHU-301	Disaster Management (Audit Paper) #	3	0	0	20	10	30	70*	100*	-
PRACTICALS/ PROJECT												
8	ECL	TEBT301P	Biochemistry Lab	0	0	2	-	-	30	70	100	2
9	ECL	TEBT302P	Microbiology Lab	0	0	2	-	-	30	70	100	2
10	ECL	TEBT303P	Cell Biology Lab	0	0	2	-	-	30	70	100	2
11	PST	TGP-301	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				21	6	6	-	-	400	700	1100	31

Sanjeev Arora

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MORADABAD.

July

B.Tech BT IV Semester

Theory Papers (Total 6)

Practical Paper (Total 3)

S. N.	Category	Course Code	Course Name	Periods			EVALUATION SCHEME				Course Total	Credits
				L	T	P	Mid Term Exam			External Exam		
							CT	AS+AT	Total			
1	ECC	TEBT401T	Enzymology	3	1	0	20	10	30	70	100	4
2	ECC	TEBT402T	Immunology	3	1	0	20	10	30	70	100	4
3	ECC	TEBT403T	Molecular Genetics	3	1	0	20	10	30	70	100	4
4	FSC	TEBT404T	Data Structure using C	3	1	0	20	10	30	70	100	4
5	HML	TPSD401	Professional Skill Development-II	3	1	0	20	10	30	70	100	4
6	EDE	TEBT405T	Modern Analytical Techniques	3	1	0	20	10	30	70	100	4
PRACTICALS/ PROJECT												
7	ECL	TEBT401P	Enzymology Lab	0	0	2	-	-	30	70	100	2
8	ECL	TEBT402P	Immunology Lab	0	0	2	-	-	30	70	100	2
9	ECL	TEBT403P	Molecular Genetics Lab	0	0	2	-	-	30	70	100	2
10	PST	TGP-401	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				18	6	6	-	-	370	630	1000	31

Sanjeev D. D. D.

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MORADABAD.**

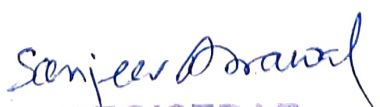
July

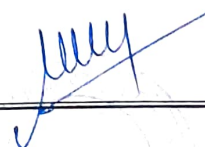
B.Tech BT V Semester

Theory Papers (Total 6)

Practical Paper (Total 3)

S. No.	Category	Course Code	Course Name	Periods			Evaluation Scheme				Course Total	Credits
				L	T	P	Mid Term Exam			External Exam		
							CT	AS+AT	Total			
1	ECC	TEBT501T	Genetic Engineering	3	1	0	20	10	30	70	100	4
2	ECC	TEBT502T	Bioprocess Engineering-I	3	1	0	20	10	30	70	100	4
3	ECC	TEBT503T	Bioinformatics	3	1	0	20	10	30	70	100	4
4	EDE	TEBT504T	Plant Biotechnology	3	1	0	20	10	30	70	100	4
5	EDE	TEBT505T	Heat and Mass Transfer in biological systems	3	1	0	20	10	30	70	100	4
6	EDE	TEBT506T	Engineering Principles and calculations	3	1	0	20	10	30	70	100	4
PRACTICALS/ PROJECT												
7	ECL	TEBT501P	Genetic Engineering Lab	0	0	2	-	-	30	70	100	2
8	ECL	TEBT502P	Bioprocess Engineering Lab	0	0	2	-	-	30	70	100	2
9	ECL	TEBT503P	Bioinformatics Lab	0	0	2	-	-	30	70	100	2
10	PST	TGP-501	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				18	6	6	-	-	370	630	1000	31


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B.Tech BT VI Semester

Theory Papers (Total 6)

Practical Paper (Total 3)

S. No.	Category	Course Code	Course Name	Periods			Evaluation Scheme				Course Total	Credits
				L	T	P	Mid Term Exam			External Exam		
							CT	AS+ AT	Total			
1	ECC	TEBT601T	Advanced Bioinformatics	3	1	0	20	10	30	70	100	4
2	ECC	TEBT602T	Fermentation Biotechnology	3	1	0	20	10	30	70	100	4
3	ECC	TEBT603T	Food Biotechnology	3	1	0	20	10	30	70	100	4
4	EDE	TEBT604T	Animal Biotechnology	3	1	0	20	10	30	70	100	4
5	HML	TEHU-601	Human Values and Professional Ethics	3	1	0	20	10	30	70	100	4
6	EDE	TEBT606T	Nanobiotechnology	3	1	0	20	10	30	70	100	4
PRACTICALS/ PROJECT												
7	ECL	TEBT601P	Advanced Bioinformatics Lab	0	0	2	-	-	30	70	100	2
8	ECL	TEBT602P	Fermentation Biotechnology Lab	0	0	2	-	-	30	70	100	2
9	ECL	TEBT603P	Food Biotechnology Lab	0	0	2	-	-	30	70	100	2
10	PST	TGP-601	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				18	6	6	-	-	370	630	1000	31

Sanjeev Dora

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B.Tech BT VII Semester

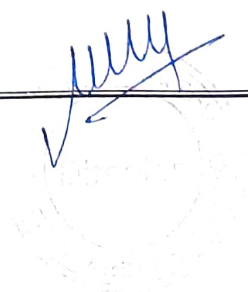
Theory Papers (Total 5)

Practical Paper (Total 3)

S. No.	Category	Course Code	Course Name	Periods			Evaluation Scheme				Course Total	Credits
				L	T	P	Mid Term Exam			External Exam		
							C	AS+AT	Total			
1	ECC	TEBT701T	Downstream Processing	3	1	0	20	10	30	70	100	4
2	HML	TEHU-701	Industrial Management	3	1	0	20	10	30	70	100	4
3	EDE	TEBT703T	Bioethics, Biosafety & IPR	3	1	0	20	10	30	70	100	4
4	EDE	TEBT704T	Bioprocess Engineering-II	3	1	0	20	10	30	70	100	4
5	EDE	TEBT705T	Vaccine Technology & Immunoinformatics	3	1	0	20	10	30	70	100	4
PRACTICALS/ PROJECT												
6	ECL	TEBT701P	Downstream Processing Lab	0	0	2	-	-	30	70	100	2
7	PST	TBT781P	Mini-Project	0	0	2	-	-	30	70	100	2
8	PST	TEBT703P	Seminar	0	0	2	-	-	100	-	100	1
9	PST	TEBT751P	Industrial Training (Evaluation & Viva-Voce)	0	0	2	-	-	100	-	100	1
10	PST	TGP-701	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				15	5	8	-	-	510	490	1000	28

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B.Tech BT VIII Semester

Theory Papers (Total 4)

Practical Paper (Total 1)

S. N.	Category	Course Code	Course Name	Periods			Evaluation Scheme				Course Total	Credits
				L	T	P	Mid Term Exam			External Exam		
							CT	AS + AT	Total			
1	ECC	TEBT801T	Environmental Biotechnology	3	1	0	20	10	30	70	100	4
2	EOE	Engineering Open Elective*	Only one paper to be chosen from the basket of Open Elective having 04 papers provided by the university*	3	1	0	20	10	30	70	100	4
3	EDE	Engineering Departmental Elective-I**	Only one paper to be chosen from the basket of Departmental Elective-I having 03 papers provided by the School**	3	1	0	20	10	30	70	100	4
4	EDE	Engineering Departmental Elective-II***	Only one paper to be chosen from the basket of Departmental Elective-I having 03 papers provided by the School***	3	1	0	20	10	30	70	100	4
PRACTICALS/ PROJECT												
5	PST	TEBT881P	Project	0	0	20	-	-	100	200	300	10
6	PST	TGP801	General Proficiency	-	-	-	-	-	100	-	100	1
TOTAL				12	4	20	-	-	320	480	800	27

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B.Tech AG I Semester

Theory Papers (Total 6)

Practical Paper (Total 4)

S.N	Category	Course Code	Course Name	Periods			EVALUATION SCHEME				Course Total	Credits
				L	T	P	Mid Term Exam			External Exam		
							CT	AS+AT	Total			
THEORY												
1.	FSC	TEMA-102/ TEBT-107T	Elementary Mathematics-I / Elementary Biology-I	3	1	0	20	10	30	70	100	4
2.	FCS	TEPH-101	Engineering Physics-I	3	1	0	20	10	30	70	100	4
3.	FSC	TECH- 101/201	Engineering Chemistry	3	1	0	20	10	30	70	100	4
4.	FSC/ HML	TEME-101/ TEME201	Engineering Mechanics	3	1	0	20	10	30	70	100	4
5.	FSC/ FSC	TEEC-101/ TEEC201	Electronics Engineering	3	1	0	20	10	30	70	100	4
6.	FSC/ FSC	TECS-101/ TECS201	Computer Fundamentals & Programming	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	ELC	TECH-151/ TECH251	Engineering Chemistry Lab	0	0	2	20	10	30	70	100	1
8.	ELC	TEEC-151	Electronics Engineering Lab	0	0	2	20	10	30	70	100	1
9.	ELC	TECS-151	Computer Lab	0	0	2	20	10	30	70	100	1
10.	ELC	TEME-151	Mechanical Engineering Lab	0	0	2	20	10	30	70	100	1
11.	PST	TGP-101	General Proficiency	-	-	-	-	-	100	-	100	1
Total Credit				18	06	08	-	-	480	620	1100	29

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B.Tech AG II Semester

Theory Papers (Total 6)

Practical Paper (Total 4)

S.N.	Category	Course Code	Course Name	Periods			EVALUATION SCHEME				Course Total	Credits
				L	T	P	Mid Term Exam			External Exam		
							CT	AS+AT	Total			
THEORY												
1.	FSC	TEMA-202/ EBT-209T	Elementary Mathematics- II/Elementary Biology-II	3	1	0	20	10	30	70	100	4
2.	FSC	TEPH-201	Engineering Physics-II	3	1	0	20	10	30	70	100	4
3.	VAC	TECE-201/101	Environmental Science	3	1	0	20	10	30	70	100	4
4.	HML	TPSD-201	Professional Skill Development-I	3	1	0	20	10	30	70	100	4
5.	FSC	TEEE-201	Electrical Engineering	3	1	0	20	10	30	70	100	4
6.	FSC	TEME-202	Materials & Manufacturing	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
7.	ELC	TEPH-251	Physics Lab	0	0	2	20	10	30	70	100	1
8.	ELC	TEME-252	Materials & Manufacturing Lab	0	0	2	20	10	30	70	100	1
9.	ELC	TEEE-251	Electrical Engineering Lab	0	0	2	20	10	30	70	100	1
10.	ELC	TEME-253	Engineering Graphics Lab	0	0	2	20	10	30	70	100	1
11.	PST	TGP-201	General Proficiency	-	-	-	-	-	100	-	100	1
Total Credit				18	06	08	-	-	480	620	1100	29

Sanjeev Brawaf

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MORADABAD.

July

B.Tech AG III Semester
Theory Papers (Total 7)
Practical Paper (Total 5)

S.N.	Category	Course Code	Course Name	Periods			EVALUATION SCHEME				Course Total	Credits
							Mid Term Exam			External Exam		
				L	T	P	C/T	AS + AT	Total			
THEORY												
1.	ECC	TEAG302	Principle of Soil Science, Agronomy and Horticulture Crops	3	0	0	20	10	30	70	100	3
2.	ECC	TEME308	Fluid Mechanics and Open Channel Hydraulics	3	1	0	20	10	30	70	100	4
3.	EDE	TECE306	Surveying practices	3	1	0	20	10	30	70	100	4
4.	ECC	TEME306	Heat & Mass Transfer	3	1	0	20	10	30	70	100	4
5.	FSC	TEMA303	Analytical Mathematics	3	1	0	20	10	30	70	100	4
6.	HML	TPSD301	Professional Skill Development - II	3	1	0	20	10	30	70	100	4
7.	ECC	TEEE306	Electrical Machines & Power Utilization	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
8.	ELC	TEAG352	Soil Science, Agronomy and Horticulture Lab	0	0	2	20	10	30	70	100	1
9.	ELC	TEME358	Fluid Mechanics Lab	0	0	2	20	10	30	70	100	1
10.	ELC	TECE356	Surveying Lab	0	0	2	20	10	30	70	100	1
11.	ELC	TECE357	Auto CAD Applications lab	0	0	2	20	10	30	70	100	1
12.	ELC	TEEE356	Electrical Machines & Power utilization Lab	0	0	2	20	10	30	70	100	1
13.	PST	TGP301	General Proficiency	-	-	-	-	-	-	-	100	1
TOTAL				21	06	10					1300	33

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B.Tech AG III Semester
Theory Papers (Total 7)
Practical Paper (Total 5)

S.N.	Category	Course Code	Course Name	Periods			EVALUATION SCHEME				Course Total	Credits
							Mid Term Exam			External Exam		
				L	T	P	C T	AS+AT	Total			
THEORY												
1.	ECC	TEAG302	Principle of Soil Science, Agronomy and Horticulture Crops	3	0	0	20	10	30	70	100	3
2.	ECC	TEME308	Fluid Mechanics and Open Channel Hydraulics	3	1	0	20	10	30	70	100	4
3.	EDE	TECE306	Surveying practices	3	1	0	20	10	30	70	100	4
4.	ECC	TEME306	Heat & Mass Transfer	3	1	0	20	10	30	70	100	4
5.	FSC	TEMA303	Analytical Mathematics	3	1	0	20	10	30	70	100	4
6.	HML	TPSD301	Professional Skill Development - II	3	1	0	20	10	30	70	100	4
7.	ECC	TEEE306	Electrical Machines & Power Utilization	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
8.	ELC	TEAG352	Soil Science, Agronomy and Horticulture Lab	0	0	2	20	10	30	70	100	1
9.	ELC	TEME358	Fluid Mechanics Lab	0	0	2	20	10	30	70	100	1
10.	ELC	TECE356	Surveying Lab	0	0	2	20	10	30	70	100	1
11.	ELC	TECE357	Auto CAD Applications lab	0	0	2	20	10	30	70	100	1
12.	ELC	TEEE356	Electrical Machines & Power utilization Lab	0	0	2	20	10	30	70	100	1
13.	PST	TGP301	General Proficiency	-	-	-	-	-	-	-	100	1
TOTAL				21	06	10					1300	33

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B.Tech AG IV Semester
Theory Papers (Total 7)
Practical Paper (Total 5)

S.N.	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.	ECC	TEAG404	Farm Machinery and Equipments-I	3	0	0	20	10	30	70	100	3	
2.	ECC	TEAG405	Soil Mechanics	3	0	0	20	10	30	70	100	3	
3.	ECC	TEAG406	Dairy & Food Engineering	3	0	0	20	10	30	70	100	3	
4.	ECC	TEME405	Strength of Materials	3	1	0	20	10	30	70	100	4	
5.	ECC	TEME406	Thermal Engineering	3	1	0	20	10	30	70	100	4	
6.	ECC	TEEC408	Basic Electronics and Instrumentation	3	1	0	20	10	30	70	100	4	
7.	ECC	TEME407	Theory of Machines	3	1	0	20	10	30	70	100	4	
PRACTICALS / PROJECT													
							I A	AT					
8.	ELC	TEAG454	Farm Machinery & Equipment-I Lab	0	0	2	20	10	30	70	100	1	
9.	ELC	TEAG455	Soil Mechanics Lab	0	0	2	20	10	30	70	100	1	
10.	ELC	TEAG456	Dairy and Food Engineering Lab	0	0	2	20	10	30	70	100	1	
11.	ELC	TEME456	Thermal Engineering Lab	0	0	2	20	10	30	70	100	1	
12.	ELC	TEEC458	Electronics and Instrumentation Lab	0	0	2	20	10	30	70	100	1	
13.	PST	TGP401	General Proficiency	-	-	-	-	-	-	-	100	1	
TOTAL				21	04	10	-	-	-	-	1300	31	

Sanjeet Das

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July

B.Tech AG V Semester
Theory Papers (Total 7)
Practical Paper (Total 6)

S.N.	Category	Course Code	Course Name	Periods			EVALUATION SCHEME				Course Total	Credits
				L	T	P	Mid Term Exam			External Exam		
							C	AS	Total			
THEORY												
1.	ECC	TEAG506	Tractor System & Control	3	0	0	20	10	30	70	100	3
2.	ECC	TEAG507	Soil & Water Conservation Engineering	3	0	0	20	10	30	70	100	3
3.	ECC	TEAG508	Tractor and Automotive Engines	3	0	0	20	10	30	70	100	3
4.	ECC	TEAG509	Watershed Hydrology, Planning and Management	3	0	0	20	10	30	70	100	3
5.	ECC	TEAG510	Bio-Energy systems: Design and Applications	3	0	0	20	10	30	70	100	3
6.	HML	TEHU501	Human values and professional ethics	3	1	0	20	10	30	70	100	4
7.	ECC	TEME506	Machine Design	3	1	0	20	10	30	70	100	4
PRACTICALS / PROJECT												
							IA	AT				
8.	ELC	TEAG556	Tractor System & Control Lab	0	0	2	20	10	30	70	100	1
9.	ELC	TEAG557	Soil & Water Conservation Engg. Lab	0	0	2	20	10	30	70	100	1
10.	ELC	TEAG558	Tractor and Automotive Engines Lab	0	0	2	20	10	30	70	100	1
11.	ELC	TEAG559	Hydrology Lab	0	0	2	20	10	30	70	100	1
12.	ELC	TEAG550	Bio-energy Lab	0	0	2	20	10	30	70	100	1
13.	ELC	TEAG560	Skill Development Training-I (Student READY) Registration only 5(0+5) / Seminar based on industrial training	0	0	-	-	-	100	-	100	5
14.	PST	TGP501	General Proficiency	-	-	-	-	-	-	-	100	1
TOTAL				21	02	10	-	-	-	-	1400	34

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B.Tech AG VI Semester
Theory Papers (Total 7)
Audit Paper (Total 1)
Practical Paper (Total 4)

S.N.	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.	ECC	TEAG607	Irrigation & Drainage Engineering	3	0	0	20	10	30	70	100	3	
2.	ECC	TEAG608	Ground Water, Well & Pumps	3	0	0	20	10	30	70	100	3	
3.	ECC	TEAG609	Post Harvest Engineering of Horticultural crops	3	0	0	20	10	30	70	100	3	
4.	ECC	TEAG610	Farm Machinery and Equipments-II	3	0	0	20	10	30	70	100	3	
5.	ECC	TEAG611	Engineering Properties of Agriculture Produce of Agricultural	3	0	0	20	10	30	70	100	3	
6.	EDE	TEAG612(A/B/C)	Elective I	3	0	0	20	10	30	70	100	3	
7.	VAC	TEHU601	Disaster Management (Audit Paper)#	3	0	0	20	10	30	70*	100*	3	
PRACTICALS / PROJECT													
							IA	AT					
8.	ELC	TEAG657	Irrigation & Drainage Engineering lab	0	0	2	20	10	30	70	100	1	
9.	ELC	TEAG658	Ground Water, Well & Pump Engineering Lab	0	0	2	20	10	30	70	100	1	
10.	ELC	TEAG659	Post Harvest Engineering of Horticultural crops Lab	0	0	2	20	10	30	70	100	1	
11.	ELC	TEAG660	Farm Machinery and Equipments-II lab	0	0	2	20	10	30	70	100	1	
12.	PST	TGP601	General Proficiency	-	-	-	-	-	-	-	100	1	
TOTAL				21	00	08	-	-	-	-	1200	26	

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B.Tech AG VII Semester

Theory Papers (Total 6)

Practical Paper (Total 6)

S.N.	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.	ECC	TEAG708	Post Harvest Engineering of Cereals, Pulses and Oil Seeds	3	0	0	20	10	30	70	100	3
2.	ECC	TEAG709	Water Harvesting and Soil Conservation Structures	3	0	0	20	10	30	70	100	3
3.	ECC	TEAG710	Agricultural Structures & Environmental Control	3	0	0	20	10	30	70	100	3
4.	ECC	TEAG711	Sprinkler and Micro Irrigation Systems	3	0	0	20	10	30	70	100	3
5.	EDE	TEAG712(A/B/C)	Elective II	3	0	0	20	10	30	70	100	3
6.	ECC	TEAG713	Renewable Energy Sources and Management	3	0	0	20	10	30	70	100	3
PRACTICALS / PROJECT												
							IA	AT				
7.	ELC	TEAG758	Post Harvest Engineering of Cereals, Pulses and Oil Seeds Lab	0	0	2	20	10	30	70	100	1
8.	ELC	TEAG760	Experiential Learning I (Process & Food Engineering)	0	0	4	20	10	30	70	100	2
9.	ELC	TEAG761	Experiential Learning II (Farm Machinery & equipments)	0	0	4	20	10	30	70	100	2
10.	ELC	TEAG762	Experiential Learning III (Soil & Water conservation Engineering and Irrigation)	0	0	4	20	10	30	70	100	2
11.	PDT	TEAG763	Seminar (Project based special problem)	0	0	-	20	10	30	70	100	1
12.	PDT	TEAG764	Skill Development Training-II (Student READY) Registration	0	0	-	-	-	100	-	100	5
13.	PDT	TGP701	General Proficiency	-	-	-	-	-	-	-	100	1
TOTAL				18	00	14	-	-	-	-	1300	32

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B.Tech AG VIII Semester

Theory Papers (Total 6)

Practical Paper (Total 3)

S.N.	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.	HML	TEHU801	Industrial Management	3	0	0	20	10	30	70	100	3	
2.	HML	TEAG803	Entrepreneurship Development and Business Management	3	0	0	20	10	30	70	100	3	
3.	ECC	TEAG804	Fundamentals of Remote Sensing & GIS Applications	3	0	0	20	10	30	70	100	3	
4.	EDE	TEAG805(A/B/C)	Elective course III	3	0	0	20	10	30	70	100	3	
5.	EOE	Engineering Open Electives	Only one paper to be chosen from the basket of Open Elective having 03 papers provided by the University*	3	1	0	20	10	30	70	100	4	
6.	ECC	TEAG806	Agri-Informatics	3	0	0	20	10	30	70	100	3	
PRACTICALS / PROJECT													
7.	ELC	TEAG854	Remote Sensing Lab	0	0	2	20	10	30	70	100	1	
8.	ELC	TEAG856	Agri-Informatics Lab	0	0	2	20	10	30	70	100	1	
9.	PDT	TEAG852	Project	0	0	10	-	200	200	300	500	10	
10.	PST	TGP801	General Proficiency	-	-	-	-	-	-	-	100	1	
TOTAL				15	00	14	-	-	-	-	1300	32	

Industrial Training of 4 – 6 Weeks after VI Semester which will be evaluated in VII Semester.

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LIST OF ELECTIVES (EE)

1. TEEE-605 (A)
2. TEEE-605 (B)
3. TEEE-605 (C)
4. TEEE 605(D)
5. TEEE 605(E)
6. TEEE-605 (F)
7. TEEE-605 (G)
8. TEEE-605 (H)
9. TEEE-605 (I)
10. TEEE-605 (J)
11. TEEE-605 (K)
12. NCC01

Elective – I

High Voltage Engineering
Special Electrical Machines
Digital Communication
Robotics
Electrical and Hybrid Vehicles
Energy Management Systems
Power Theft and Energy Management
Conventional & CAD of Electrical Machines
Smart Energy Delivery Systems
Analog & Digital Communication
Telemetry & Data Transmission
NCC General

Elective – II

1. TEEE-705 (A) Artificial Neural Network & Fuzzy System
2. TEEE-705 (B) Generalised Theory of Elect. Machines
3. TEEE-705 (C) Embedded Systems
4. TEEE-705(D) Advanced Digital Signal Processing
5. TEEE-705(E) Deregulated Power System
6. TEEE-705(F) Electrical Standards and Engineering Practices
7. TEEE-705(G) Entrepreneurship Development
8. TEEE-705 (H) Advanced Control System
9. TEEE-705 (I) Power Quality & FACTS
10. TEEE-705 (J) Deregulated Power System
11. TEEE-705 (K) Energy Conservation & Auditing
12. TEEE-705 (L) Bio-medical Instrumentation
13. TEEE-705 (M) Application of Power Electronics to power system

LIST OF ELECTIVES (EC)

1. TEEC050
2. TEEC051
3. TEEC052
4. TEEC053
5. TEEC054
6. TEEC055
7. TEEC056
8. TEEC057

Elective – I

Introduction to Neural Networks and Fuzzy Logic
Operating Systems
Transducers, Sensors & Display Systems
Advance Semiconductor Devices
Introduction to optoelectronics
Scientific Computing
Mixed Signal Design
Smart Antenna

Elective-II

1. TEEC060 Embedded System Design
2. TEEC061 Artificial Intelligence
3. TEEC062 Web Technologies
4. TEEC063 Data Structures and Algorithms
5. TEEC064 Satellite Communications
6. TEEC065 Semiconductor Device Modeling
7. TEEC066 IoT for Communication Engineering

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8. TEEC067

Remote Sensing

1. TEEC070
2. TEEC071
3. TEEC072
4. TEEC073
5. TEEC074
6. TEEC 075
7. TEEC076
8. TEEC077

Elective III
Consumer Electronics
Digital Image Processing
Optical Networks
Speech Processing
Micro and Smart Systems
Advanced Wireless Broadband Communications
Wavelet Transforms
Biomedical Electronics

1. TEEC080
2. TEEC081
3. TEEC082
4. TEEC083
5. TEEC084
6. TEEC085
7. TEEC086
8. TEEC087

Elective IV
Information Theory and Coding
Biomedical Instrumentation
Non-Conventional Energy Resources
Optoelectronics Devices and Circuits
Renewable Energy
Biomedical Signal Processing
Wireless sensor networks
FPGA & reconfigurable computing

LIST OF ELECTIVES (CE)

1. NCC01
2. TECE071
3. TECE072
4. TECE073
5. TECE074
6. TECE075
7. TECE076
8. TECE077
9. TECE078
10. TECE079
11. TECE079(A)
12. TECE079(B)
13. TECE079(C)
14. TECE079(D)
15. TECE079(E)

Engineering Application.

16. TECE079(F)
17. ECE079(G)
18. ECE079(H)
19. ECE079(I)
20. TECE079(J)
21. TECE079(K)
22. TECE079(L)
23. TECE079(M)

Elective I
NCC General
Transportation System & Planning
Finite Element Method for Civil Engineering
Advance Foundation Design
Industrial Pollution Control
Prestressed Concrete Structure
Analysis and Design of Hydraulic Structures
Principle of Town Planning and Architectural
Precast and Modular Construction Practice
Ground Improvement Techniques
Tunnel Engineering
Rural Development Engineering
River Engineering
Modern Construction Materials
Sensor and instrumentation Technology for Civil
Noise and Air pollution control
Railway Engineering
Airport Engineering
Digital Image processing
Advance Geology and Remote Sensing
Industrial Waste Treatment
Solid Waste Management
Traffic Management & Design

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LIST OF ELECTIVES (ME)

1. EME 011
2. EME 012
3. EME 013
4. EME 014
5. EME 015
6. EME 016
7. EME 017
8. EME 018
9. EME 019
10. EME 020
11. NCC01

Elective I

Gas Dynamics
Computational Aerodynamics
Tribology
Advanced Welding Technology
Finite Element Methods
Operations Research
Mechanical System Design
Reliability Engineering
Thermal Turbo Machines
Composite Materials
NCC General

1. EME 021
2. EME 022
3. EME 023
4. EME 024
5. EME 025
6. EME 026
7. EME 027
8. EME 028
9. EME 029
10. EME 030
11. TEME 031
12. TEME 032
13. TEME 033
14. TEME 034
15. TEME 035
16. TEME 036

Elective II

Total Quality Management
Ergonomics
Numerical Control Of Machine Tool
Applied Computational Fluid Dynamics
Micro Manufacturing
Mechanical Vibrations
Optimization Techniques in Engineering
Management Information System
Supply Chain Management
Entrepreneurship Development Program
Renewal Energy Resources and Its utilization
Industrial Automation & Control Systems
Basics of Nano Technology
Modern Manufacturing Processes
Project Management
Robotics & FMS

LIST OF ELECTIVES (BT)

1. TEBT-033
2. TEBT-034
3. TEBT-035
4. TEBT-043
5. TEBT-044
6. TEBT-053
7. TEBT-054
8. TEBT-063
9. TEBT-064
10. TEBT-085
11. TEBT-033-I
12. TEBT-034-I
13. TEBT-035I
14. TEBT-043-I
15. TEBT-044I
engineering process
16. TEBT-053-I

Cellular biophysics
Plant Cell Bioprocessing
Introduction to Developmental Biology
Drug Delivery: Principles and Engineering
Functional Genomics
Fundamentals of micro and nanofabrication
Nanotechnology in Biomedical
Introduction to protein Engineering
Transport Phenomena in Biological Systems
Wildlife Ecology
Cell Culture Technologies
Technologies For Clean And Renewable Energy Production
Polymers: concepts, properties, uses and sustainability
Basic Environmental Engineering and Pollution Abatement
Mathematical modelling and simulation of chemical
Chemical Reaction Engineering

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17. TEBT-054-I	Biological Inorganic Chemistry
18. TEBT-063-I	NMR spectroscopy for Structural Biology
19. TEBT-064-I	Analytical Chemistry
20. TEBT-085-I	Organic Chemistry In Biology And Drug Development
21. TEBT-033-II	Data Base Management System
22. TEBT-034-II	Project Management
23. TEBT-035-II	Patent Search and Analysis
24. TEBT-043-II	Stress Management
25. TEBT-044-II	Biotechnology for Human Welfare
26. TEBT-053-II	Macromolecular Structure & Analysis
27. TEBT-054-II	Cyto-genetic Techniques
28. TEBT-063-II	Computational Biology
29. TEBT-064-II	Introduction to DBMS, Computer Network & Numerical
Analysis	
30. TEBT-085-II	Model Organisms in Genome Project
31. TEBT-033-III	Molecular & Structural Biophysics
32. TEBT-034-III	Advanced Mathematics For Biotechnology
33. TEBT-035-III	Bio fuels
34. TEBT-043-III	Hazardous waste management
35. TEBT-044-III	Marine Biotechnology
36. TEBT-053-III	Stem Cell Technology
37. TEBT-054-III	Design of Industrial waste water management
38. TEBT-063-III	Phyto chemical Technology
39. TEBT-064-III	Biosensors and Biomedical devices in Diagnostics
40. TEBT-085-III	Environmental Toxicology

LIST OF ELECTIVES (AG)

Elective I

1. TEAG612D	Agri-Business Management
2. TEAG612E	Milk Processing
3. TEAG612F	Post Harvest Agricultural Engineering
4. TEAG612G	Agricultural Information System
5. TEAG612H	Conservation Tillage
6. TEAG612I	Water and Waste Management
7. TEAG612J	Zero Waste Processing
8. TEAG612K	Dairy Products Technology
9. TEAG612L	System Stimulation and Agro-advisory
10. TEAG612M	Building Material and Structural Design
11. TEAG612N	Advances in Food Processing Engineering

Elective II

1. TEAG712D	Operational Research
2. TEAG712E	Fundamentals of Dairy Technology
3. TEAG712F	Irrigation System Automation
4. TEAG712G	Entrepreneurship Development in Agro Industries
5. TEAG712H	Entrepreneurship Development in Business Communication
6. TEAG712I	Problematic Soil, Water and their Management
7. TEAG712J	Soil Survey and Land Use Planning
8. TEAG712K	Fundamentals of Food Preservation

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9. TEAG712L
10. TEAG712M
11. TEAG712N

Alternate Fuels and Applications
 Bioinformatics in Agriculture
 Repair and Maintenance of Farm Tractors

Elective III

1. TEAG805D
2. TEAG805E
3. TEAG805F
4. TEAG805G
5. TEAG805H
6. TEAG805I
7. TEAG805J
8. TEAG805K
9. TEAG805L
10. TEAG805M
11. TEAG805N

Agricultural Risk Management
 Beverage Technology
 Advances in Farm Machinery Equipments
 Basic Terminology in Farm Power
 Soil Erosion and Conservation
 Soil, Water and Air pollution
 Land degradation and restoration
 Energy, Ecology and Environment
 Biomass Energy Conservation and Management
 Computer and Its application in Agriculture
 Soil Physics

LIST OF ELECTIVES (CS)

Elective I

1. ECS- 605(1)
2. ECS- 605(2)
3. ECS- 605(3)
4. ECS- 605(4)
5. ECS- 605(5)

Software Project Management
 Cyber Security
 Mobile Computing
 Dot net framework for application development
 Soft and Evolutionary Computing

Elective II

1. ECS 606(1)
2. ECS 606(2)
3. ECS 606(3)
4. ECS 606(4)
5. ECS 606(5)

Multimedia Technology
 Organizational Behaviour
 Managerial Economics
 Data Compression
 Software Quality Engineering

Elective III

1. ECS-701 (1)
2. ECS-701 (2)
3. ECS-701 (3)
4. ECS-701 (4)
5. ECS-701 (5)

Distributed Computing
 Web search and Mining
 TCP/IP & Web Technology
 Quantum Computing
 Software Reusability

Elective IV

1. ECS-704(1)
2. ECS-704 (2)
3. ECS-704 (3)
4. ECS-704 (4)
5. ECS-704 (5)

Introduction to Bioinformatics
 Advanced Web Applications
 Advanced JAVA and J2EE
 Introduction to Software Testing
 Mobile Application Development

Elective V

1. ECS-801 (1)
2. ECS-801 (2)
3. ECS-801 (3)
4. ECS-801 (4)
5. ECS-801 (5)

Basic of Research & Development
 Parallel Computing
 Management and entrepreneurship for it industry
 Software architecture and design patterns
 Internet of things technology

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1. ECS-802 (1)
2. ECS-802 (2)
3. ECS-802 (3)
4. ECS-802 (4)
5. ECS-802 (5)

Elective VI

Wireless & Sensor Networks
Human Computer Interaction
Cloud Computing and its Applications
Multi-core Architecture and programming
Computer Vision and Robotics

13. Examinations/Assessments

13A. Internal/ Sessional Examination

- (a) The minimum Grade required to pass in each Theory & Practical paper is 'GRADE D'.
- (b) 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 13D.
- (c) 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.

13B. End-Semester Examination

There will be two End Semester Examinations in all theory and project subjects viz. Odd (I, III, V, VII) Semester Examination and Even (II, IV, VI, VIII) Semester Examination in an academic year.

13C. 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 re-appears for the examination of the course in which he has got the back.

13D. 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 10B.

13E. Carry Over System

Maximum number of carry over papers (Theory/viva/project) permissible for promotion to next

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year will be 06.

13F. Promotion

(a) A candidate satisfying all the requirements under clause 13A 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 13A (a) in not more than permissible carry over paper as mentioned in clause 13D.

(c) If a candidate satisfies the requirement of clause 13A (a) but fails to satisfy the requirement of 13A (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.

13G. 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.

14. 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) Summer Training, Project Report, Seminar etc.

Summer Training, Project Report, Seminar, and other learning oriented activities shall have associated maximum marks and credits, as stated in the syllabus.

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<i>Evaluation Scheme</i>			
<i>Theory</i>	<i>Internal</i>	<i>External</i>	<i>Total</i>
<i>Summer Training Project Report</i>	<i>30</i>	<i>70</i>	<i>100</i>
<i>Evaluation and Viva-Voce</i>	<i>30</i>	<i>70</i>	<i>100</i>
<i>Research Project Report Evaluation and Viva-Voce</i>	<i>300</i>	<i>300</i>	<i>600</i>

Question paper pattern for End-semester Examinations

I. Multiple Choice Questions (MCQs) (Internal Choice questions)	=	20 x 1 =	20
II. Long Answers (Answer 1 out of 2)	=	5 x 10 =	50
Total Marks	=		70

Question paper pattern for Internal/ Sessional Examinations

Long Answers (Answer 2 out of 3)	=	2 x 4 =	8 (Each Mid-Sem)
Multiple Choice Questions (MCQs)	=	2 x 1 =	2
Total Marks	=		20

15. 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.

16. 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.

17. Unfair Means

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

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18. 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.

19. Improvement

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

20. 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.

21. Re-Admission

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

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

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