




R K COLLEGE OF ENGINEERING

(Accredited by NAAC with 'A' Grade)


1.1.1 The institution ensures effective curriculum delivery through a well-planned and documented process

S.No	Name Of The Document
1	JNTUK Academic Calendar
2	Institution Academic Calendar
3	Academic regulations R19, R20 & R23
4	Department Vision And Mission
5	Institution Vision And Mission
6	Class Time Tables
7	Work load
8	Action Plan
9	Course File Contents




PRINCIPAL
R K COLLEGE OF ENGINEERING
Kethanakonda (V), Ibrahimpatnam (M),
Vijayawada, AMARAVATI-521 456.


Coordinator-IQAC
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PRINCIPAL
R K COLLEGE OF ENGINEERING
Kethanakonda (V), Ibrahimpatnam (M),
Vijayawada, AMARAVATI-521 456

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Phone: 0884-2300991

Directorate of Academic Planning
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
KAKINADA-533003, Andhra Pradesh, INDIA
(Established by AP Government Act No. 30 of 2008)

Lr. No. DAP/AC/I Year /B. Tech 2023


Date 19.08.2023

Dr. KVSG Murali Krishna,
M.E., Ph.D.,
Director, Academics & Planning
JNTUK, Kakinada

To
All the Principals of Affiliated Colleges,
JNTUK, Kakinada.


Academic Calendar for I Year - B. Tech for the AY 2023-24

I SEMESTER			
Description	From	To	Weeks
Commencement of Class Work	31.08.2023		
Induction Programme (Zero Semester)	31.08.2023	16.09.2023	3W
I Unit of Instruction	19.09.2023	11.11.2023	8W
I Mid Examinations	06.11.2023	11.11.2023	
II Unit of Instructions	13.11.2023	06.01.2024	8W
II Mid Examinations	01.01.2024	06.01.2024	
Preparation & Practicals	08.01.2024	20.01.2024	2W
End Examinations	22.01.2024	03.02.2024	2W
Commencement of II Semester Class Work	05.02.2024		
II SEMESTER			
I Unit of Instructions	05.02.2024	30.03.2024	8W
I Mid Examinations	25.03.2024	30.03.2024	
II Unit of Instructions	01.04.2024	25.05.2024	8W
II Mid Examinations	20.05.2024	25.05.2024	
Preparation & Practicals	27.05.2024	08.06.2024	2W
End Examinations	10.06.2024	22.06.2024	2W


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KAKINADA-533003, Andhra Pradesh, INDIA
(Established by AP Government Act No. 30 of 2008)

LT. No. DAP/AC/II Year/B. Tech/2023


Date 01.08.2023

Dr. KVSG Murali Krishna,
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Director, Academics & Planning
JNTUK, Kakinada

To
All the Principals of Affiliated Colleges,
JNTUK, Kakinada.

Academic Calendar for II Year - B. Tech for the AY 2023-24


I SEMESTER			
Description	From	To	Weeks
Commencement of Class Work	07.08.2023		
I Unit of Instruction	07.08.2023	30.09.2023	8W
I Mid Examinations	25.09.2023	30.09.2023	
II Unit of Instructions	02.10.2023	25.11.2023	8W
II Mid Examinations	20.11.2023	25.11.2023	
Preparation & Practicals	27.11.2023	09.12.2023	2W
End Examinations	11.12.2023	23.12.2023	2W
Commencement of II Semester Class Work	27.12.2023		
II SEMESTER			
I Unit of Instructions	27.12.2023	17.02.2024	8W
I Mid Examinations	12.02.2024	17.02.2024	
II Unit of Instructions	19.02.2024	13.04.2024	8W
II Mid Examinations	08.04.2024	13.04.2024	
Preparation & Practicals	15.04.2024	27.04.2024	2W
End Examinations	29.04.2024	11.05.2024	2W
Summer Internship	13.05.2024	06.07.2024	8W
Commencement of III- I Class Work	08.07.2024		


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Lr. No. DAP/RAC/III Year/B. Tech/2023

Date 19.08.2023

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JNTUK, Kakinada.

Revised Academic Calendar for III Year - B. Tech. for the AY 2023-24

I SEMESTER			
Description	From	To	Weeks
Commencement of Class Work	17.07.2023		
I Unit of Instruction	17.07.2023	16.09.2023	9W
I Mid Examinations	18.09.2023	23.09.2023	1W
II Unit of Instructions	25.09.2023	25.11.2023	9W
II Mid Examinations	27.11.2023	02.12.2023	1W
Preparation & Practicals	04.12.2023	16.12.2023	2W
End Examinations	18.12.2023	30.12.2023	2W
Commencement of II Semester Class Work	01.01.2024		
II SEMESTER			
I Unit of Instructions	01.01.2024	24.02.2024	8W
I Mid Examinations	26.02.2024	02.03.2024	1W
II Unit of Instructions	04.03.2024	27.04.2024	8W
II Mid Examinations	29.04.2024	04.05.2024	1W
Preparation & Practicals	06.05.2024	18.05.2024	2W
End Examinations	20.05.2024	01.06.2024	2W
Summer Internship	03.06.2024	27.07.2024	8W
Commencement of IV- I Class Work	29.07.2024		

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KAKINADA-533003, Andhra Pradesh, INDIA
(Established by AP Government Act No. 30 of 2008)

Lr. No. DAP/RAC/IV Year /B. Tech/2023

Date 19.08.2023

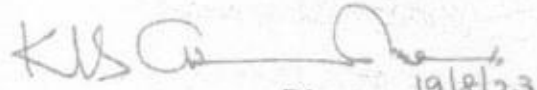
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JNTUK, Kakinada

To
All the Principals of Affiliated Colleges,
JNTUK, Kakinada.


Revised Academic Calendar for IV Year - B.Tech. for the AY 2023-24


I SEMESTER			
Description	From	To	Weeks
Commencement of Class Work	17.07.2023		
I Unit of Instruction	17.07.2023	16.09.2023	9W
I Mid Examinations	18.09.2023	23.09.2023	1W
II Unit of Instructions	25.09.2023	25.11.2023	9W
II Mid Examinations	27.11.2023	02.12.2023	1W
Preparation & Practicals	04.12.2023	16.12.2023	2W
End Examinations	18.12.2023	30.12.2023	2W
Commencement of II Semester Class Work	01.01.2024		
II SEMESTER			
Commencement of Project Work	01.01.2024	20.04.2024	16W
Thesis submission & Seminar	22.04.2024	27.04.2024	1W
End Viva- Voce Examinations	29.04.2024	04.05.2024	1W

For slippage of 90 instruction days in 16 weeks due to any unavoidable reasons compensation can be made by conducting class work on second Saturdays, Sundays and other holidays except on National Holidays and important festivals.


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Kakinada-533003, Andhra Pradesh, INDIA
(Established by AP Government Act No. 30 of 2008)

Lr. No. JNTUK/DAP/AC/I Year/M. Tech/M.Pharmacy/2023-24

Date: 25-09-2023

Dr. K. VENKATA REDDY,
M.Tech. Ph.D.,
Director i/c, Academic Planning

To
All the Principals of Affiliated Colleges,
JNTUK, Kakinada.

Academic Calendar of
I Year M.Tech/M.Pharmacy for the Academic Year 2023-24

I SEMESTER			
Description	From	To	Weeks
Commencement of Class Work	04.10.2023		
I Unit of Instruction	04.10.2023	02.12.2023	9W
I Mid Examinations	27.11.2023	02.12.2023	
II Unit of Instructions	04.12.2023	27.01.2024	8W
II Mid Examinations	22.01.2024	27.01.2024	
Preparation & Practicals	29.01.2024	03.02.2024	1W
End Examinations	05.02.2024	17.02.2024	2W
Commencement of II Semester Class Work	19.02.2024		
II SEMESTER			
I Unit of Instructions	19.02.2024	20.04.2024	9W
I Mid Examinations	15.04.2024	20.04.2024	
II Unit of Instructions	22.04.2024	04.05.2024	2W
Summer Holidays	06.05.2024	01.06.2024	4W
II Unit of Instructions	03.06.2024	13.07.2024	6W
II Mid Examinations	08.07.2024	13.07.2024	
Preparation & Practicals	15.07.2024	20.07.2024	1W
End Examinations	22.07.2024	03.08.2024	2W

Dr. K. Venkata Reddy
Director i/c

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Directorate of Academic Planning
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
Kakinada-533003, Andhra Pradesh, INDIA
(Established by AP Government Act No. 30 of 2008)

Lr. No. JNTUK/DAP/AC/II Year/M. Tech/2023-24

Date: 04-09-2023

Dr. K. VENKATA REDDY,
M.Tech, Ph.D.,
Director i/c, Academic Planning

To
All the Principals of Affiliated Colleges,
JNTUK, Kakinada.

Academic Calendar of
II Year M. Tech for Academic year 2023-24

I SEMESTER			
Description	From	To	Weeks
Commencement of Class Work	04.09.2023		
I Unit of Instruction	04.09.2023	28.10.2023	8W
I Mid Examinations	23.10.2023	28.10.2023	
II Unit of Instructions	30.10.2023	23.12.2023	8W
II Mid Examinations	18.12.2023	23.12.2023	
Preparation & Practicals	26.12.2023	30.12.2023	1W
End Examinations	01.01.2024	13.01.2024	2W
Commencement of II Semester Class Work	17.01.2024		
II SEMESTER			
Commencement of Project Work Phase - II	17.01.2024	04.05.2024	16W
Thesis submission duration	06.05.2024	01.06.2024	4W

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
KAKINADA-533003, Andhra Pradesh, INDIA
(Established by AP Government Act No. 30 of 2008)

Lr. No. JNTUK/DAP/AC/II Year/MBAMCA/IMBA/2023-24

Date: 19-08-2023

Dr. KVSG Murali Krishna,
M.E., Ph.D.,
Director, Academics & Planning
JNTUK, Kakinada

To
All the Principals of Affiliated Colleges,
JNTUK, Kakinada.

Academic Calendar of II Year MBA/MCA/IMBA for Academic year 2023-24

I SEMESTER			
Description	From	To	Weeks
Commencement of Class Work	21.08.2023		
I Unit of Instruction	21.08.2023	14.10.2023	8W
I Mid Examinations	09.10.2023	14.10.2023	
II Unit of Instructions	16.10.2023	09.12.2023	8W
II Mid Examinations	04.12.2023	09.12.2023	
Preparation & Practicals	11.12.2023	23.12.2023	2W
End Examinations	26.12.2023	06.01.2024	2W
Commencement of II Semester Class Work	08.01.2024		
II SEMESTER			
I Unit of Instructions	08.01.2024	02.03.2024	8W
I Mid Examinations	26.02.2024	02.03.2024	
II Unit of Instructions	04.03.2024	27.04.2024	8W
II Mid Examinations	22.04.2024	27.04.2024	
Preparation & Practicals	29.04.2024	11.05.2024	2W
End Examinations	13.05.2024	25.05.2024	2W

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Kakinada-533003, Andhra Pradesh, INDIA
(Established by AP Government Act No. 30 of 2008)

Lr. No. JNTUK/DAP/AC/I Year/MBA/MCA/2023-24

Date: 25-09-2023

Dr. K. VENKATA REDDY,
M.Tech, Ph.D.,
Director i/c, Academic Planning

To
All the Principals of Affiliated Colleges,
JNTUK, Kakinada.

Academic Calendar of
I Year MBA/MCA for the Academic year 2023-24

I SEMESTER			
Description	From	To	Weeks
Commencement of Class Work	04.10.2023		
I Unit of Instruction	04.10.2023	02.12.2023	9W
I Mid Examinations	27.11.2023	02.12.2023	
II Unit of Instructions	04.12.2023	27.01.2024	8W
II Mid Examinations	22.01.2024	27.01.2024	
Preparation & Practicals	29.01.2024	03.02.2024	1W
End Examinations	05.02.2024	17.02.2024	2W
Commencement of II Semester Class Work	19.02.2024		
II SEMESTER			
I Unit of Instructions	19.02.2024	20.04.2024	9W
I Mid Examinations	15.04.2024	20.04.2024	
II Unit of Instructions	22.04.2024	04.05.2024	2W
Summer Holidays	06.05.2024	01.06.2024	4W
II Unit of Instructions	03.06.2024	13.07.2024	6W
II Mid Examinations	08.07.2024	13.07.2024	
Preparation & Practicals	15.07.2024	20.07.2024	1W
End Examinations	22.07.2024	03.08.2024	2W

Dr. K. Venkata Reddy

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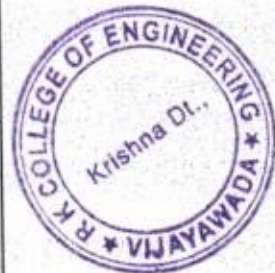
SEMESTER - I

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING INSTITUTION ACADEMIC CALANDER 2023-24 SEMESTER-I

S.NO.	ACTIVITY	DATES
1	COMMENCEMENT OF CLASS WORK	17-07-2023
2	I UNIT OF INSTRUCTIONS	17-07-2023 to 16-09-2023
3	I MID EXAMINATIONS	18-09-2023 to 23-09-2023
4	SUBMISSION OF I MID MARKS TO UNIVERSITY ON OF BEFORE	28-09-2023
5	II UNIT OF INSTRUCTIONS	25-09-2023 to 25-11-2023
6	II MID EXAMINATION	27-11-2023 to 02-12-2023
7	PREPARATION AND PRACTICALS	04-12-2023 to 16-12-2023
8	SUBMISSION OF I MID MARKS TO UNIVERSITY ON OF BEFORE	21-12-2023
9	END SEMESTER EXAMINATIONS	01-01-2024


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SEMESTER - II

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

INSTITUTION ACADEMIC CALANDER 2023-24 SEMESTER-II

S.NO.	ACTIVITY	DATES
1	COMMENCEMENT OF CLASS WORK	01-01-2024
2	I UNIT OF INSTRUCTIONS	01-01-2024 to 24-02-2024
3	I MID EXAMINATIONS	26-02-2024 to 02-03-2024
4	SUBMISSION OF I MID MARKS TO UNIVERSITY ON OF BEFORE	07-03-2024
5	II UNIT OF INSTRUCTIONS	04-03-2024 to 27-04-2024
6	II MID EXAMINATIONS	29-04-2024 to 04-05-2024
7	PREPARATION AND PRACTICALS	06-05-2024 to 18-05-2024
8	SUBMISSION OF II MID MARKS TO UNIVERSITY ON OF BEFORE	09-05-2024
9	END SEMESTER EXAMINATIONS	20-05-2024 to 01-06-2024


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ACADEMIC REGULATIONS (R20)
COURSE STRUCTURE & DETAILED SYLLABUS


For
B. Tech FOUR YEAR DEGREE COURSE
(Applicable for the batches admitted from 2020-21)




JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
KAKINADA – 533003, ANDHRA PRADESH, INDIA




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ACADEMIC REGULATIONS (R20) FOR B. TECH. (REGULAR)

Applicable for students of B. Tech. (Regular) from Academic Year 2020-21 onwards

Jawaharlal Nehru Technological University Kakinada (JNTUK) 2020 Regulations (R20 Regulations) applicable to all affiliated colleges are given hereunder. These regulations govern the B. Tech programmes offered by all affiliated colleges with effect from the students admitted to the programmes in academic year 2020-21.

1. Courses of study:

The following courses of study are offered at present as specializations for the B. Tech. Courses in the jurisdiction of all affiliated colleges of JNTUK.

S. No	Branch	Short Name	Code
1	Civil Engineering	CE	01
2	Electrical & Electronics Engineering	EEE	02
3	Mechanical Engineering	ME	03
4	Electronics and Communication Engineering	ECE	04
5	Computer Science Engineering	CSE	05
6	Computer Science & Technology	CST	06
7	Electronics and Instrumentation Engineering	EIE	10
8	Information Technology	IT	12
9	Automobile Engineering	AME	24
10	Mining Engineering	MM	26
11	Petroleum Engineering	PE	27
12	Agriculture Engineering	AGE	35
13	Artificial Intelligence and Machine Learning	AIML	42
14	Artificial Intelligence	AI	43
15	Data Science	DS	44
16	Artificial Intelligence and Data Science	AIDS	45
17	Cyber Security	CS	46
18	Internet of things and Cyber security including Block chain Technology	IOTCSBT	47
19	Computer Science and Business System	CSBS	48
20	Internet of Things	IOT	49
21	Electronics & Communication Technology	ECT	50
22	Food Engineering	FE	51

2. **Medium of Instruction:** The medium of instruction of the entire B. Tech undergraduate programme in Engineering & Technology (including examinations and project reports) will be in **English** only.

3. **Admissions:** Admission to the B. Tech Programme shall be made subject to the eligibility, qualifications and specialization prescribed by the A.P. State Government/University from time to time. Admissions shall be made either on the basis of the merit rank obtained by the student in the common entrance examination conducted by the A.P. Government/University or on the basis of any other order of merit approved by the A.P. Government/University, subject to reservations as prescribed by the Government/University from time to time.



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4. Programme Pattern:

- Total duration of the of B. Tech (Regular) Programme is four academic years
- Each Academic year of study is divided in to **two semesters**.
- Minimum number of instruction days in each semester is 90.
- Grade points, based on percentage of marks awarded for each course will form the basis for calculation of SGPA (Semester Grade Point Average) and CGPA (Cumulative Grade Point Average).
- The total credits for the Programme are 160.
- A three-week induction program is mandatory for all first year UG students and shall be conducted as per AICTE/UGC/APSCHE guidelines.
- Student is introduced to "Choice Based Credit System (CBCS)".
- A pool of interdisciplinary and job-oriented mandatory skill courses which are relevant to the industry are integrated into the curriculum of concerned branch of engineering (total five skill courses: two basic level skill courses, one on soft skills and other two on advanced level skill courses)
- A student has to register for all courses in a semester.
- All the registered credits will be considered for the calculation of final CGPA.
- Each semester has - 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)'. Choice Based Credit System (CBCS) and Credit Based Semester System (CBSS) as indicated by UGC and course structure as suggested by AICTE are followed.
- A 10 months industry/field mandatory internship, both industry and social, during the summer vacation and also in the final semester to acquire the skills required for job and make engineering graduates to connect with the needs of the industry and society at large.
- All students shall be mandatorily registered for NCC/NSS activities.
- Each college shall assign a faculty advisor/mentor after admission to each student or group of students from same department to provide guidance in courses registration/career growth/placements/opportunities for higher studies/GATE/other competitive exams etc.

5. Subject/Course Classification: All subjects/courses offered for the undergraduate programme in E & T (B. Tech degree programmes) are broadly classified as follows.

S.No	Category	Code	APSCHE breakup of Credits	AICTE Credits of breakup
1	Humanities and social science including Management courses	HSMC	10.5	12
2	Basic Science courses	BSC	21	25
3	Engineering courses science	ESC	24	24
4	Professional core Courses	PCC	51	48
5	Open Elective Courses	OEC	12	18
6	Professional Courses Elective	PEC	15	18
7	Internship, seminar, project work	PROJ	16.5	15
	Skill Oriented Courses	SC	10	-
9	Laboratory Courses	LC	-	-
10	Mandatory courses	MC	Non-credit	Non-credit
	Total Credits		160	160



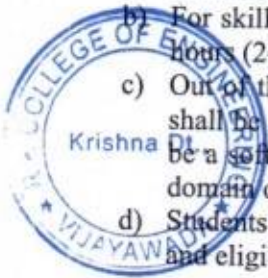
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6. Registration for Courses:

- i) The college shall invite registration forms from the students at the beginning of the semester for the registration for courses each semester. The registration process shall be closed within one week. If any student wishes to withdraw the registration, he/she shall submit a letter to the principal through the class teacher/instructor and HOD. The principal shall communicate the registration and withdraw details courses of each student in a consolidated form to the college examination section and University without fail.
- ii) There are four open electives in each branch. All Open Electives are offered to students of all branches in general. A student shall choose an open elective, by consulting the HOD/advisor, from the list in such a manner that he/she has not studied the same course in any form during the Programme.
- iii) A student shall be permitted to pursue up to a maximum of two elective courses under MOOCs during the programme. Students are advised to register for only for minimum 12 weeks in duration MOOCs courses. Student has to pursue and acquire a certificate for a MOOC course only from the SWAYAM/NPTEL through online with the approval of Head of the Department in order to earn the 3 credits. The Head of the department shall notify the list of such courses at the beginning of the semester. The details of the MOOCs courses registered by the students shall be submitted to the University examination center as well as college examination center. The Head of the Department shall appoint a mentor for each of the MOOC subjects registered by the students to monitor the student's assignment submissions given by SWAYAM/NPTEL. The student needs to submit all the assignments given and needs to take final exam at the proctor center. The student needs to earn a certificate by passing the exam. The student will be awarded the credits given in curriculum only by submission of the certificate. In case if student does not pass subjects registered through SWAYAM/NPTEL, the same or alternative equivalent subject may be registered again through SWAYAM/NPTEL in the next semester with the recommendation of HOD and shall be passed.
- iv) Two summer internships each with a minimum of six weeks duration shall be mandatorily done/completed respectively at the end of second and third years (during summer vacations). The internship can be done by the students at local industries, Govt. Organizations, construction agencies, Industries, Hydel and thermal power projects and also in software MNCs. After completing the summer internship, the students shall register in the immediate respective odd semester and it will be evaluated at the end of the semester as per norms of the university. The student has to produce the summer internship satisfactory report and certificate taken from the organization to be considered for evaluation. The College shall facilitate and monitor the student internship programs. Completion of internships is mandatory, if any student fails to complete internship, he/she will not be eligible for the award of degree. In such cases, the student shall repeat and complete the internship.
- v) In the final semester, the student should mandatorily register and undergo internship and in parallel he/she should work on a project with well-defined objectives. At the end of the semester the candidate shall submit an internship completion certificate and a project report. A student shall also be permitted to submit project report on the work carried out during the internship. The project report shall be evaluated with an external examiner.
- vi) Curricular Framework for Skill oriented courses
 - a) There are five (05) skill-oriented courses shall be offered during III to VII semesters and students must register and pass the courses successfully.
 - b) For skill oriented/skill advanced course, one theory and 2 practical hours (1-0-2) or two theory hours (2-0-0) may be allotted as per the decision of concerned BOS.
 - c) Out of the five skill courses; (i) two shall be skill-oriented courses from the same domain and shall be completed in second year (ii) Of the remaining 3 skill courses, one shall be necessarily be a soft skill course and the remaining 2 shall be skill-advanced courses either from the same domain or job-oriented skill courses, which can be of inter disciplinary nature.
 - d) Students may register the interdisciplinary job-oriented skill courses based on the prerequisites and eligibility in consultation with HOD of the college.



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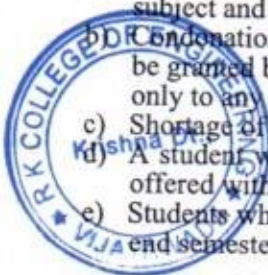
- e) The student shall be given an option to choose either the skill courses being offered by the college or to choose a certificate course being offered by industries/Professional bodies/APSSDC or any other accredited bodies. However, the department has to assign mentors in the college to monitor the performance of the students.
- f) If a student chooses to take a Certificate Course offered by industries/Professional bodies/APSSDC or any other accredited bodies, in lieu of the skill advanced course offered by the Department, then the department shall mark overall attendance of the student for the remaining courses in that semester excluding the skill course in all the calculations of mandatory attendance requirements upon producing a valid certificate. However, the student is deemed to have fulfilled the attendance requirement of the course, if the external agency issues a certificate with satisfactory condition. If the certificate issued by external agency is marked with unsatisfactory condition, then the student shall repeat the course either in the college or at external agency. The credits will be awarded to the student upon producing the successful Course Completion Certificate from the agency/professional bodies and after passing in the viva-voce examination conducted at college as per university norms at the end of the semester.
7. (a) **Award of B. Tech. Degree:** A student will be declared eligible for the award of B. Tech. Degree if he fulfills the following academic regulations:
- A student shall be declared eligible for award of the B. Tech Degree, if he pursues a course of study in not less than four and not more than eight academic years.
 - After eight academic years from the year of their admission, he/she shall **forfeit** their seat in B. Tech course and their admission stands cancelled.
 - The student shall register for 160 credits and must secure all the 160 credits.
 - All students shall register for NCC/NSS activities and will be required to participate in an activity specified by NSS officer during second and third semesters. Grade shall be awarded as Satisfactory or Unsatisfactory in the mark sheet on the basis of participation, attendance, performance and behavior. If a student gets an unsatisfactory Grade, he/she shall repeat the above activity in the subsequent years, in order to complete the degree requirements.
 - Courses like Environmental Sciences, Universal Human Values, Ethics, Indian Constitution, Essence of Indian Traditional Knowledge etc., shall be included in the curriculum as non-credit mandatory courses. Environmental Sciences is to be offered compulsorily as mandatory course for all branches. A student has to secure 40% of the marks allotted in the internal evaluation for passing the course. No marks or letter grade shall be allotted for all mandatory non-credit courses.
 - Credit Definition:


1 Hour Lecture (L) per week	1 Credit
1 Hour Tutorial (T) per week	1 Credit
1 Hour Practical (P) per week	0.5 Credit
2 Hours Practical (Lab) per week	1 Credit

- (b) **Award of B. Tech. (Honor)/B. Tech. (Minor):** B. Tech. with Honors or a B. Tech. with a Minor will be awarded if the student earns 20 additional credits are acquired as per the regulations/guidelines. The regulations/guidelines are separately provided. Registering for Honors/Minor is optional.


8. Attendance Requirements

- a) A student is eligible to write the University examinations if he acquires a minimum of 40% in each subject and 75% of attendance in aggregate of all the subjects.
- b) Condonation of shortage of attendance in aggregate up to 10% (65% and above and below 75%) may be granted by the College Academic Committee. However, this condonation concession is applicable only to any two semesters during the entire programme.
- c) Shortage of Attendance below 65% in aggregate shall not be condoned.
- d) A student who is short of attendance in a semester may seek re-admission into that semester when offered within 4 weeks from the date of commencement of class work.
- e) Students whose shortage of attendance is not condoned in any semester are not eligible to write their end semester examination of that class.




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- f) A stipulated fee of Rs. 500/- in the concerned semester shall be payable towards condonation of shortage of attendance. Students availing condonation on medical ground shall produce a medical certificate issued by the competitive authority.
- g) A student will be promoted to the next semester if he satisfies the (i) attendance requirement of the present semester and (ii) minimum required credits.
- h) If any candidate fulfills the attendance requirement in the present semester, he shall not be eligible for readmission into the same class.
- i) For induction programme attendance shall be maintained as per AICTE norms.
- j) For non-credit mandatory courses the students shall maintain the attendance similar to credit courses

9. Evaluation-Distribution and Weightage of marks

- (i) Paper setting and evaluation of the answer scripts shall be done as per the procedures laid down by the University Examination section from time to time.
- (ii) For non-credit mandatory courses, like Environmental Sciences, Universal Human Values, Ethics, Indian Constitution, Essence of Indian Traditional Knowledge, the student has to secure 40% of the marks allotted in the internal evaluation for passing the course. No marks or letter grade shall be allotted for all mandatory non-credit courses.
- (iii) A student is deemed to have satisfied the minimum academic requirements if he has earned the credits allotted to each theory/practical design/drawing subject/ project etc by securing not less than 35% of marks in the end semester exam and minimum 40% of marks in the sum total of the internal marks and end semester examination marks together.

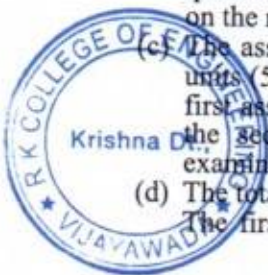
(iv) Distribution and Weightage of marks:

The assessment of the student's performance in each course will be based on Continuous Internal Evaluation (CIE) and Semester-End Examination (SEE). The performance of a student in each semester shall be evaluated subject-wise with a maximum of 100 marks for theory subject and 50 marks for practical subject. For theory subjects the distribution shall be 30 marks for Internal Evaluation and 70 marks for the End Examinations.

S. No	Components	Internal	External	Total
1	Theory	30	70	100
2	Engineering Graphics/Design/Drawing	30	70	100
3	Practical	15	35	50
4	Mini Project/Internship/Industrial Training/ Skill Development programmes/Research Project	-	50	50
5	Project Work	60	140	200

(v) Continuous Internal Theory Evaluation:

- (a) For theory subjects, during a semester, there shall be two mid-term examinations. Each mid-term examination consists of (i) one online objective examination (ii) one descriptive examination and (iii) one assignment. The online examination (objective) shall be 10 marks and descriptive examination shall be for 15 marks with a total duration of 1 hour 50 minutes (20 minutes for objective and 90 minutes for descriptive paper).
- (b) The first online examination (objective) is set with 20 multiple choice questions for 10 marks (20 questions x ½ marks) from first two and half units (50% of the syllabus) and it is conducted by **University Examination Section**. The descriptive examination is set with 3 full questions for 5 marks each from first two and half units (50% of the syllabus), the student has to answer all questions. In the similar lines, the second online and descriptive examinations shall be conducted on the rest of the syllabus.
- (c) The assignment is given by the concerned class teacher for five marks from first two and half units (50% of the syllabus). The second assignment shall be given from rest of the syllabus. The first assignment should be submitted before the conduct of the first mid-term examination, and the second assignment should be submitted before the conduct of the second mid-term examination.
- (d) The total marks secured by the student in each mid-term examination are evaluated for 30 marks. The first mid marks (Mid-1) consisting of marks of online objective examination, descriptive



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- examination and assignment shall be submitted to the University examination section within one week after completion of first mid examination.
- (e) The mid marks submitted to the University examination section shall be displayed in the concerned college notice boards for the benefit of the students.
 - (f) If any discrepancy found in the submitted Mid-1 marks, it shall be brought to the notice of university examination section within one week from the submission.
 - (g) Second mid marks (Mid-2) consisting of marks of online objective examination, descriptive examination and assignment shall also be submitted to University examination section within one week after completion of second mid examination and it shall be displayed in the notice boards. If any discrepancy found in the submitted mid-2 marks, it shall be brought to the notice of university examination section within one week from the submission.
 - (h) Internal marks can be calculated with 80% weightage for better of the two mids and 20% Weightage for another mid exam.

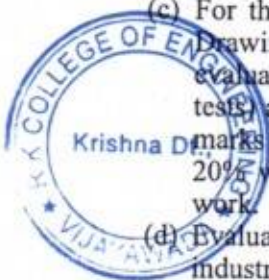
Example:

Mid-1 marks = Marks secured in (online examination-1+descriptive examination-1
+one assignment-1)

Mid-2 marks = Marks secured in (online examination-2+descriptive examination-2
+one assignment-2)

Final internal Marks = (Best of (Mid-1/Mid-2) marks x 0.8
+ Least of (Mid-1/Mid-2) marks x 0.2)

- (i) With the above criteria, university examination section will send mid marks of all subjects in consolidated form to all the concerned colleges and same shall be displayed in the concerned college notice boards. If any discrepancy found, it shall be brought to the notice of university examination section through proper channel within one week with all proofs. Discrepancies brought after the given deadline will not be entertained under any circumstances.
- (vi) **Semester End Theory Examinations Evaluation:**
- (a) The semester end examinations will be conducted university examination section for 70 marks consists of five questions carrying 14 marks each. Each of these questions is from one unit and may contain sub-questions. For each question there will be an "either" "or" choice, which means that there will be two questions from each unit and the student should answer either of the two questions.
 - (b) For practical subjects there shall be continuous evaluation during the semester for 15 internal marks and 35 end examination marks. The internal 15 marks shall be awarded as follows: day to day work - 5 marks, Record-5 marks and the remaining 5 marks to be awarded by conducting an internal laboratory test. The end examination shall be conducted by the teacher concerned and external examiner appointed by controller of examinations, JNTUK.
Note: Laboratory marks and the internal marks awarded by the College are not final. The marks are subject to scrutiny and scaling by the University wherever felt desirable. The internal and laboratory marks awarded by the College will be referred to a Committee. The Committee shall arrive at a scaling factor and the marks will be scaled as per the scaling factor. The recommendations of the Committee are final and binding. All the laboratory records and internal test papers shall be preserved in respective departments as per University norms and shall be produced to the Committees of University as and when they ask for.
 - (c) For the subject having design and / or drawing (such as Engineering Graphics, Engineering Drawing, Machine Drawing) and estimation, the distribution shall be 30 marks for internal evaluation (15 marks for continuous Assessment (day-to-day work) and 15 marks for internal tests) and 70 marks for end examination. There shall be two internal tests in a Semester for 15 marks each and final marks can be calculated with 80% weightage for better of the two tests and 20% weightage for other test and these are to be added to the marks obtained in day-to-day work.
 - (d) Evaluation of the summer internships: It shall be completed in collaboration with local industries, Govt. Organizations, construction agencies, Industries, Hydel and thermal power projects and also in software MNCs in the area of concerned specialization of the UG



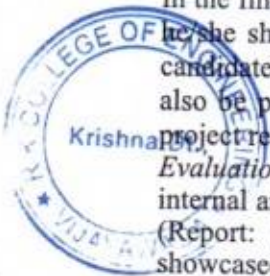
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programme. Students shall pursue this internship during summer vacation just before its offering as per course structure. The minimum duration of this course shall be at least 6 weeks. The student shall register for the internship as per course structure after commencement of academic year. A supervisor/mentor/advisor has to be allotted to guide the students for taking up the summer internship. The supervisor shall monitor the attendance of the students while taking up the internship. Attendance requirements are as per the norms of the University. After successful completion, students shall submit a summer internship technical report to the concerned department and appear for an oral presentation before the departmental committee consists of an external examiner appointed by the University; Head of the Department, supervisor of the internship and a senior faculty member of the department. A certificate from industry/skill development center shall be included in the report. The report and the oral presentation shall carry 40% and 60% weightages respectively. It shall be evaluated for 50 external marks at the end of the semester. There shall be no internal marks for Summer Internship. A student shall secure minimum 40% of marks for successful completion. In case, if a student fails, he/she shall reappear as and when semester supplementary examinations are conducted by the University.

- (e) The job-oriented skill courses may be registered at the college or at any accredited external agency. A student shall submit a record/report on the on the list skills learned. If the student completes job-oriented skill course at external agency, a certificate from the agency shall be included in the report. The course will be evaluated at the end of the semester for 50 marks (record: 15 marks and viva-voce: 35 marks) along with laboratory end examinations in the presence of external (appointed by the university) and internal examiner (course instructor or mentor). There are no internal marks for the job-oriented skill courses.
- (f) Mandatory Course (M.C): Environmental Sciences, Universal Human Values, Ethics, Indian Constitution, Essence of Indian Traditional Knowledge etc non-credit (zero credits) mandatory courses. Environmental Sciences shall be offered compulsorily as mandatory course for all branches. A minimum of 75% attendance is mandatory in these subjects. There shall be an external examination for 70 marks and it shall be conducted by the college internally. Two internal examinations shall be conducted for 30 marks and a student has to secure at least 40% of the marks for passing the course. There is no online internal exam for mandatory courses. No marks or letter grade shall be printed in the transcripts for all mandatory non-credit courses, but only Completed (Y)/Not-completed (N) will be specified.
- (g) **Procedure for Conduct and Evaluation of MOOC:** There shall be a Discipline Centric Elective Course through Massive Open Online Course (MOOC) as Program Elective course. The student shall register for the course (Minimum of 12 weeks) offered by SWAYAM/NPTEL through online with the approval of Head of the Department. The Head of the Department shall appoint one mentor for each of the MOOC subjects offered. The student needs to register the course in the SWAYAM/NPTEL portal. During the course, the mentor monitors the student's assignment submissions given by SWAYAM/NPTEL. The student needs to submit all the assignments given and needs to take final exam at the proctor center. The student needs to earn a certificate by passing the exam. The student will be awarded the credits given in curriculum only by submission of the certificate. In case if student does not pass subjects registered through SWAYAM/NPTEL, the same or alternative equivalent subject may be registered again through SWAYAM/NPTEL in the next semester with the recommendation of HOD and shall be passed.
- (h) **Major Project (Project - Project work, seminar and internship in industry):**
In the final semester, the student should mandatorily register and undergo internship and in parallel he/she should work on a project with well-defined objectives. At the end of the semester the candidate shall submit an internship completion certificate and a project report. A student shall also be permitted to submit project report on the work carried out during the internship. The project report shall be evaluated with an external examiner.
Evaluation: The total marks for project work 200 marks and distribution shall be 60 marks for internal and 140 marks for external evaluation. The supervisor assesses the student for 30 marks (Report: 15 marks, Seminar: 15 marks). At the end of the semester, all projects shall be showcased at the department for the benefit of all students and staff and the same is to be





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evaluated by the departmental Project Review Committee consisting of supervisor, a senior faculty and HOD for 30 marks. The external evaluation of Project Work is a Viva-Voce Examination conducted in the presence of internal examiner and external examiner appointed by the University and is evaluated for 140 marks.

10. Recounting of Marks in the End Semester Examination: A student can request for recounting of his/her answer book on payment of a prescribed fee as per university norms.
11. Re-evaluation or Revaluation by Challenge of the End Semester Examination: A student can request for Reevaluation or Revaluation by Challenge of his/her answer book on payment of a prescribed fee as per university norms.
12. Supplementary Examinations: A student who has failed to secure the required credits can appear for a supplementary examination, as per the schedule announced by the University.
13. Malpractices in Examinations: Disciplinary action shall be taken in case of malpractices during Mid/End examinations as per the rules framed by the University.

14. Promotion Rules

The following academic requirements have to be satisfied in addition to the attendance requirements mentioned in item no.8 for promotion to higher classes

- a) A student shall be promoted from first year to second year if he fulfills the minimum attendance requirement as per University norm.
- b) A student will be promoted from II to III year if he fulfills the academic requirement of 40% of credits up to either II year I-Semester or II year II-Semester from all the examinations, whether or not the candidate takes the examinations and secures prescribed minimum attendance in II year II semester.
- a) A student shall be promoted from III year to IV year if he fulfills the academic requirements of 40% of the credits up to either III year I semester or III year II semester from all the examinations, whether or not the candidate takes the examinations and secures prescribed minimum attendance in III year II semester.

15. Course Pattern

- a) The entire course of study is for four academic years; all years are on semester pattern.
- b) A student eligible to appear for the end semester examination in a subject, but absent from it or has failed in the end semester examination, may write the exam in that subject when conducted next.
- c) When a student is detained for lack of credits/shortage of attendance, he may be re-admitted into the same semester/year in which he has been detained. However, the academic regulations under which he was first admitted shall continue to be applicable to him.

16. Earning of Credit:

A student shall be considered to have completed a course successfully and earned the credits if he/she secures an acceptable letter grade in the range A+ to E as given below. Letter grade 'F' in any course implies failure of the student in that course and no credits earned. Absent is also treated as no credits earned. For project same % percentages will be followed for grading.

Marks Range Theory (Max - 100)	Marks Range Lab (Max - 50)	Level	Letter Grade	Grade Point
≥ 90	≥ 45	Outstanding	A+	10
≥80 to <89	≥40 to <44	Excellent	A	9
≥70 to <79	≥35 to <39	Very Good	B	8
≥60 to <69	≥30 to <34	Good	C	7
≥50 to <59	≥25 to <29	Fair	D	6
≥40 to <49	≥20 to <24	Satisfactory	E	5
40	<20	Fail	F	0
-	-	Absent	AB	0



17. Computation of SGPA and CGPA

The UGC recommends the following procedure to compute the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA):

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- (i) **SGPA**(S_k) of k^{th} semester (1 to 8) is ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the total number of credits of all the courses undergone/registered by a student, i.e.,

$$SGPA(S_k) = \frac{\sum_{i=1}^n (C_i \times G_i)}{\sum_{i=1}^n C_i}$$

Where C_i is the number of credits of the i^{th} course/subject in a semester and G_i is the grade point scored by the student in the i^{th} course/subject and n is the number of courses/subjects registered in that semester.

- (ii) **CGPA**: The CGPA is calculated in the same manner taking into account all the 'm' courses/subjects registered by student over all the semesters of a Programme i.e., in all eight semesters

$$CGPA = \frac{\sum_{i=1}^m (C_i \times S_i)}{\sum_{i=1}^m C_i}$$

Where S_i is SGPA of the i^{th} semester and C_i is total number of credits in that semester.

- (iii) SGPA and CGPA shall be rounded off to 2 decimal points and reported in transcripts.
 (iv) While computing the SGPA/CGPA, the subjects in which the student is awarded Zero grade points will also be included.
 (v) **Grade Point**: It is a numerical weight allotted to each letter grade on a 10-point scale.
 (vi) **Letter Grade**: It is an index of the performance of students in a said course. Grades are denoted by letters A+, A, B, C, D, E, F and AB.
 (vii) As per AICTE regulations, conversion of CGPA into equivalent percentage as follows:

$$\text{Equivalent Percentage} = (CGPA - 0.75) \times 10$$

- (viii) Illustration of Computation of SGPA and CGPA

Illustration for SGPA: Let us assume there are 6 subjects in a semester. The grades obtained as follows:

Course	Credit	Grade Obtained	Grade point	$S_i = \text{Credit Point (Credit x Grade)}$
Subject 1	3	B	8	$3 \times 8 = 24$
Subject 2	4	C	7	$4 \times 7 = 28$
Subject 3	3	D	6	$3 \times 6 = 18$
Subject 4	3	A+	10	$3 \times 10 = 30$
Subject 5	3	E	5	$3 \times 5 = 15$
Subject 6	4	D	6	$4 \times 6 = 24$
	20			139

Thus, $SGPA = 139/20 = 6.95 = 6.9$ (approx.)

Illustration for CGPA:

Semester 1	Semester 2	Semester 3	Semester 4
Credits: 20 SGPA: 6.9	Credits: 22 SGPA: 7.8	Credits: 25 SGPA: 5.6	Credits: 26 SGPA: 6.0
Semester 5	Semester 6	Semester 7	Semester 8



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Credits: 26 SGPA: 6.3	Credits: 25 SGPA: 8.0	Credits: 21 SGPA: 6.4	Credits: 23 SGPA: 7.5
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Thus,

$$CGPA = \frac{20 \times 6.9 + 22 \times 7.8 + 25 \times 5.6 + 26 \times 6.0 + 26 \times 6.3 + 25 \times 8.0 + 21 \times 6.4 + 23 \times 7.5}{188} = \frac{1276.3}{188} = 6.78$$

18. Award of Class

After a student has satisfied the requirements prescribed for the completion of the program and is eligible for the award of B. Tech. Degree, he shall be placed in one of the following four classes:

Class Awarded	CGPA to be secured	Remarks
First Class with Distinction	≥ 7.75 (Without any supplementary appearance)	From the CGPA secured from 160 Credits
First Class	≥ 6.75	
Second Class	≥ 5.75 to < 6.75	
Pass Class	≥ 5.00 to < 5.75	

19. Minimum Instruction Days

The minimum instruction days for each semester shall be 90 working days. There shall be no branch transfers after the completion of the admission process. There shall be no transfer from one college/stream to another within the Constituent Colleges and Units of Jawaharlal Nehru Technological University Kakinada.

20. Withholding of Results

If the student is involved in indiscipline/malpractices/court cases, the result of the student will be withheld.

21. Transitory Regulations

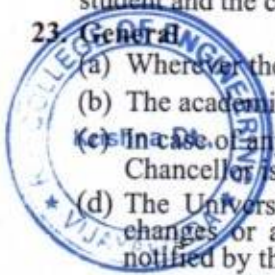
- Discontinued or detained candidates are eligible for re-admission as and when next offered.
- The re-admitted candidate will be governed by the rules & regulations under which the candidate has been admitted.
- In case of transferred students from other Universities, credits shall be transferred to JNTUK as per the academic regulations and course structure of JNTUK.
 - The students seeking transfer to colleges affiliated to JNTUK from various other Universities / Institutions have to obtain the credits of any equivalent subjects as prescribed by JNTUK. In addition, the transferred candidates have to pass the failed subjects at the earlier Institute with already obtained internal/sessional marks to be conducted by JNTUK.

22. Gap - Year

Gap Year concept of Student Entrepreneur in Residence shall be introduced and outstanding students who wish to pursue entrepreneurship are allowed to take a break of one year at any time after I/II/III year to pursue entrepreneurship full time. This period shall be counted for the maximum time for graduation. An evaluation committee at university level shall be constituted to evaluate the proposal submitted by the student and the committee shall decide on permitting the student for availing the Gap Year.

23. General

- Wherever the words "he", "him", "his", occur in the regulations, they include "she", "her", "hers".
- The academic regulation should be read as a whole for the purpose of any interpretation.
- In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice-Chancellor is final.
- The University may change or amend the academic regulations or syllabi at any time and the changes or amendments made shall be applicable to all the students with effect from the dates notified by the University.



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ACADEMIC REGULATIONS (R20) FOR B. TECH
(LATERAL ENTRY SCHEME)

Applicable for students admitted into II B. Tech. from the Academic Year 2020-21 onwards

1 Award of B. Tech. Degree

A student will be declared eligible for the award of B. Tech. Degree if he fulfills the following academic regulations:

- a) A student shall be declared eligible for the award of the B. Tech Degree, if he pursues a course of study in not less than three academic years and not more than six academic years. After six academic years from the year of their admission, he/she shall **forfeit** their seat in B. Tech course and their admission stands cancelled.
- b) The candidate shall register for 121 credits and secure all the 121 credits.

2. The attendance regulations of B. Tech. (Regular) shall be applicable to B.Tech (lateral entry).

3. Promotion Rule

A student shall be promoted from second year to third year if he fulfills the minimum attendance requirement.

A student shall be promoted from III year to IV year if he fulfills the academic requirements of 40% of the credits up to either III year I semester or III year II semester from all the examinations, whether or not the candidate takes the examinations and secures prescribed minimum attendance in III year II semester.

4. Award of Class

After a student has satisfied the requirement prescribed for the completion of the program and is eligible for the award of B. Tech. Degree, he shall be placed in one of the following four classes:

Class Awarded	CGPA to be secured	Remarks
First Class with Distinction	≥ 7.75 (Without any supplementary appearance)	From the CGPA secured from 121 Credits from II Year to IV Year
First Class	≥ 6.75	
Second Class	≥ 5.75 to < 6.75	
Pass Class	≥ 5.00 to < 5.75	

The Grades secured, Grade points and Credits obtained will be shown separately in the memorandum of marks.

5. All the other regulations as applicable to **B. Tech. 4-year degree course (Regular)** will hold good for **B. Tech. (Lateral Entry Scheme)**.



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COMMUNITY SERVICE PROJECT

Introduction

1. Community Service Project is an experiential learning strategy that integrates meaningful community service with instruction, participation, learning and community development
2. Community Service Project involves students in community development and service activities and applies the experience to personal and academic development.
3. Community Service Project is meant to link the community with the college for mutual benefit. The community will be benefited with the focused contribution of the college students for the village/ local development. The college finds an opportunity to develop social sensibility and responsibility among students and also emerge as a socially responsible institution.

Objective

Community Service Project should be an integral part of the curriculum, as an alternative to the 2 months of Summer Internships / Apprenticeships / On the Job Training, whenever there is an exigency when students cannot pursue their summer internships. The specific objectives are;

1. To sensitize the students to the living conditions of the people who are around them,
2. To help students to realize the stark realities of the society.
3. To bring about an attitudinal change in the students and help them to develop societal consciousness, sensibility, responsibility and accountability
4. To make students aware of their inner strength and help them to find new /out of box solutions to the social problems.
5. To make students socially responsible citizens who are sensitive to the needs of the disadvantaged sections.
6. To help students to initiate developmental activities in the community in coordination with public and government authorities.
7. To develop a holistic life perspective among the students by making them study culture, traditions, habits, lifestyles, resource utilization, wastages and its management, social problems, public administration system and the roles and responsibilities of different persons across different social systems.

Implementation of Community Service Project

1. Every student should put in a minimum of **180 hours** for the Community Service Project during the summer vacation.
2. Each class/section should be assigned with a mentor.
3. Specific Departments could concentrate on their major areas of concern. For example, Dept. of Computer Science can take up activities related to Computer Literacy to different sections of people like - youth, women, house-wives, etc
4. A log book has to be maintained by each of the student, where the activities undertaken/involved to be recorded.
5. The log book has to be countersigned by the concerned mentor/faculty in charge.
6. Evaluation to be done based on the active participation of the student and grade could be awarded by the mentor/faculty member.
7. The final evaluation to be reflected in the grade memo of the student.
8. The Community Service Project should be different from the regular programmes of NSS/NCC/Green Corps/Red Ribbon Club, etc.
9. Minor project report should be submitted by each student. An internal Viva shall also be conducted by a committee constituted by the principal of the college.
10. Award of marks shall be made as per the guidelines of Internship/apprentice/ on the job training

Procedure



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1. A group of students or even a single student could be assigned for a particular habitation or village or municipal ward, as far as possible, in the near vicinity of their place of stay, so as to enable them to commute from their residence and return back by evening or so.
2. The Community Service Project is a twofold one –
 - a) First, the student/s could conduct a survey of the habitation, if necessary, in terms of their own domain or subject area. Or it can even be a general survey, incorporating all the different areas. A common survey format could be designed. This should not be viewed as a duplication of work by the Village or Ward volunteers, rather, it could be another primary source of data.
 - b) Secondly, the student/s could take up a social activity, concerning their domain or subject area. The different areas, could be like –
 - Agriculture
 - Health
 - Marketing and Cooperation
 - Animal Husbandry
 - Horticulture
 - Fisheries
 - Sericulture
 - Revenue and Survey
 - Natural Disaster Management
 - Irrigation
 - Law & Order
 - Excise and Prohibition
 - Mines and Geology
 - Energy
 - Internet
 - Free Electricity
 - Drinking Water

EXPECTED OUTCOMES

BENEFITS OF COMMUNITY SERVICE PROJECT TO STUDENTS

Learning Outcomes

1. Positive impact on students' academic learning
2. Improves students' ability to apply what they have learned in "the real world"
3. Positive impact on academic outcomes such as demonstrated complexity of understanding, problem analysis, problem-solving, critical thinking, and cognitive development
4. Improved ability to understand complexity and ambiguity

Personal Outcomes

1. Greater sense of personal efficacy, personal identity, spiritual growth, and moral development
2. Greater interpersonal development, particularly the ability to work well with others, and build leadership and communication skills

Social Outcomes


1. Reduced stereotypes and greater inter-cultural understanding
2. Improved social responsibility and citizenship skills
3. Greater involvement in community service after graduation

Career Development

1. Connections with professionals and community members for learning and career opportunities



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2. Greater academic learning, leadership skills, and personal efficacy can lead to greater opportunity

Relationship with the Institution

1. Stronger relationships with faculty
2. Greater satisfaction with college
3. Improved graduation rates

BENEFITS OF COMMUNITY SERVICE PROJECT TO FACULTY MEMBERS

1. Satisfaction with the quality of student learning
2. New avenues for research and publication via new relationships between faculty and community
3. Providing networking opportunities with engaged faculty in other disciplines or institutions
4. A stronger commitment to one's research

BENEFITS OF COMMUNITY SERVICE PROJECT TO COLLEGES AND UNIVERSITIES

1. Improved institutional commitment
2. Improved student retention
3. Enhanced community relations

BENEFITS OF COMMUNITY SERVICE PROJECT TO COMMUNITY


1. Satisfaction with student participation
2. Valuable human resources needed to achieve community goals
3. New energy, enthusiasm and perspectives applied to community work
4. Enhanced community-university relations.

SUGGESTIVE LIST OF PROGRAMMES UNDER COMMUNITY SERVICE PROJECT

The following the recommended list of projects for Engineering students. The lists are not exhaustive and open for additions, deletions and modifications. Colleges are expected to focus on specific local issues for this kind of projects. The students are expected to carry out these projects with involvement, commitment, responsibility and accountability. The mentors of a group of students should take the responsibility of motivating, facilitating, and guiding the students. They have to interact with local leadership and people and appraise the objectives and benefits of this kind of projects. The project reports shall be placed in the college website for reference. Systematic, Factual, methodical and honest reporting shall be ensured.

For Engineering Students

1. Water facilities and drinking water availability
2. Health and hygiene
3. Stress levels and coping mechanisms
4. Health intervention programmes
5. Horticulture
6. Herbal plants
7. Botanical survey
8. Zoological survey
9. Marine products
10. Aqua culture
11. Inland fisheries
12. Animals and species
13. Nutrition
14. Traditional health care methods
15. Food habits
16. Air pollution
17. Water pollution
18. Plantation
19. Soil protection


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20. Renewable energy
21. Plant diseases
22. Yoga awareness and practice
23. Health care awareness programmes and their impact
24. Use of chemicals on fruits and vegetables
25. Organic farming
26. Crop rotation
27. Flourey culture
28. Access to safe drinking water
29. Geographical survey
30. Geological survey
31. Sericulture
32. Study of species
33. Food adulteration
34. Incidence of Diabetes and other chronic diseases
35. Human genetics
36. Blood groups and blood levels
37. Internet Usage in Villages
38. Android Phone usage by different people
39. Utilization of free electricity to farmers and related issues
40. Gender ration in schooling level- observation.

Complimenting the community service project, the students may be involved to take up some awareness campaigns on social issues/special groups. The suggested list of programmes are;

Programmes for School Children

1. Reading Skill Programme (Reading Competition)
2. Preparation of Study Materials for the next class.
3. Personality / Leadership Development
4. Career Guidance for X class students
5. Screening Documentary and other educational films
6. Awareness Programme on Good Touch and Bad Touch (Sexual abuse)
7. Awareness Programme on Socially relevant themes.

Programmes for Women Empowerment

1. Government Guidelines and Policy Guidelines
2. Womens' Rights
3. Domestic Violence
4. Prevention and Control of Cancer
5. Promotion of Social Entrepreneurship


General Camps

1. General Medical camps
2. Eye Camps
3. Dental Camps
4. Importance of protected drinking water
5. ODF awareness camp
6. Swatch Bharat
7. AIDS awareness camp
8. Anti Plastic Awareness
9. Programmes on Environment
10. Health and Hygiene
11. Hand wash programmes
12. Commemoration and Celebration of important days

Programmes for Youth Empowerment



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1. Leadership
2. Anti-alcoholism and Drug addiction
3. Anti-tobacco
4. Awareness on Competitive Examinations
5. Personality Development

Common Programmes

1. Awareness on RTI
2. Health intervention programmes
3. Yoga
4. Tree plantation
5. Programmes in consonance with the Govt. Departments like –
 - i. Agriculture
 - ii. Health
 - iii. Marketing and Cooperation
 - iv. Animal Husbandry
 - v. Horticulture
 - vi. Fisheries
 - vii. Sericulture
 - viii. Revenue and Survey
 - ix. Natural Disaster Management
 - x. Irrigation
 - xi. Law & Order
 - xii. Excise and Prohibition
 - xiii. Mines and Geology
 - xiv. Energy

Role of Students:

1. Students may not have the expertise to conduct all the programmes on their own. The students then can play a facilitator role.
2. For conducting special camps like Health related, they will be coordinating with the Governmental agencies.
3. As and when required the College faculty themselves act as Resource Persons.
4. Students can work in close association with Non-Governmental Organizations like Lions Club, Rotary Club, etc or with any NGO actively working in that habitation.
5. And also, with the Governmental Departments. If the programme is rolled out, the District Administration could be roped in for the successful deployment of the programme.
6. An in-house training and induction programme could be arranged for the faculty and participating students, to expose them to the methodology of Service Learning.

Timeline for the Community Service Project Activity

Duration: 8 weeks

1. Preliminary Survey (One Week)

- a) A preliminary survey including the socio-economic conditions of the allotted habitation to be conducted.
- b) A survey form based on the type of habitation to be prepared before visiting the habitation with the help of social sciences faculty. (However, a template could be designed for different habitations, rural/urban.
- c) The Governmental agencies, like revenue administration, corporation and municipal authorities and village secretariats could be aligned for the survey.

2. Community Awareness Campaigns (Two Weeks)

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Based on the survey and the specific requirements of the habitation, different awareness campaigns and programmes to be conducted, spread over two weeks of time. The list of activities suggested could be taken into consideration.

3. Community Immersion Programme (Four Weeks)

Along with the Community Awareness Programmes, the student batch can also work with any one of the below listed governmental agencies and work in tandem with them. This community involvement programme will involve the students in exposing themselves to the experiential learning about the community and its dynamics. Programmes could be in consonance with the Govt. Departments.

4. Community Exit Report (One Week)

During the last week of the Community Service Project, a detailed report of the outcome of the 8 weeks works to be drafted and a copy shall be submitted to the local administration. This report will be a basis for the next batch of students visiting that particular habitation. The same report submitted to the teacher-mentor will be evaluated by the mentor and suitable marks are awarded for onward submission to the University. Throughout the Community Service Project, a daily log-book need to be maintained by the students batch, which should be countersigned by the governmental agency representative and the teacher-mentor, who is required to periodically visit the students and guide them.



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MALPRACTICES RULES
DISCIPLINARY ACTION FOR / IMPROPER CONDUCT IN EXAMINATIONS

	Nature of Malpractices/Improper conduct	Punishment
	<i>If the candidate:</i>	
1. (a)	Possesses or keeps accessible in examination hall, any paper, note book, programmable calculators, Cell phones, pager, palm computers or any other form of material concerned with or related to the subject of the examination (theory or practical) in which he is appearing but has not made use of (material shall include any marks on the body of the candidate which can be used as an aid in the subject of the examination)	Expulsion from the examination hall and cancellation of the performance in that subject only.
(b)	Gives assistance or guidance or receives it from any other candidate orally or by any other body language methods or communicates through cell phones with any candidate or persons in or outside the exam hall in respect of any matter.	Expulsion from the examination hall and cancellation of the performance in that subject only of all the candidates involved. In case of an outsider, he will be handed over to the police and a case is registered against him.
2.	Has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material relevant to the subject of the examination (theory or practical) in which the candidate is appearing.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted to appear for the remaining examinations of the subjects of that Semester/year. The Hall Ticket of the candidate is to be cancelled and sent to the University.
3.	Impersonates any other candidate in connection with the examination.	The candidate who has impersonated shall be expelled from examination hall. The candidate is also debarred and forfeits the seat. The performance of the original candidate who has been impersonated, shall be cancelled in all the subjects of the examination (including practicals and project work) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he will be handed over to the police and a case is registered against him.
4.	Smuggles in the Answer book or additional sheet or takes out or arranges to send out the question paper during the examination or answer book or additional sheet, during or after the examination.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of the performance in that subject.
6.	Refuses to obey the orders of the Chief Superintendent/Assistant - Superintendent / any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer-in-charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the College campus or engages in any	In case of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the candidate(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The candidates also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.



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	other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	
7.	Leaves the exam hall taking away answer script or intentionally tears the script or any part thereof inside or outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
8.	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat.
9.	If student of the college, who is not a candidate for the particular examination or any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	Student of the colleges expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat. Person(s) who do not belong to the College will be handed over to police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the candidate has appeared including practical examinations and project work of that semester/year examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the University for further action and impose suitable punishment.	

Malpractices identified by squad or special invigilators


1. Punishments to the candidates as per the above guidelines.
2. Punishment for institutions: (if the squad reports that the college is also involved in encouraging malpractices)
 - (i) A show because notice shall be issued to the college.
 - (ii) Impose a suitable fine on the college.
 - (iii) Shifting the examination centre from the college to another college for a specific period of not less than one year.

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Ragging

Prohibition of ragging in educational institutions Act 26 of 1997

Salient Features

- Ragging within or outside any educational institution is prohibited.
- Ragging means doing an act which causes or is likely to cause Insult or Annoyance of Fear or Apprehension or Threat or Intimidation or outrage of modesty or Injury to a student.

	Imprisonment upto		Fine Upto
Teasing, Embarrassing and Humiliation	 6 Months	+	Rs. 1,000/-
Assaulting or Using Criminal force or Criminal intimidation	 1 Year	+	Rs. 2,000/-
Wrongfully restraining or confine or causing	 2 Years	+	Rs. 5,000/-
Causing grievous hurt, kidnapping or Abducts or rape or committing unnatural offence	 5 Years	+	Rs. 10,000/-
Causing death or abetting suicide	 10 Months	+	Rs. 50,000/-




In Case of Emergency CALL TOLL FREE NO. : 1800 - 425 - 1288

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KAKINADA - 533 003, Andhra Pradesh, India
For Constituent Colleges and Affiliated Colleges of JNTUK



Ragging

ABSOLUTELY NO TO RAGGING

1. Ragging is prohibited as per Act 26 of A.P. Legislative Assembly, 1997.
2. Ragging entails heavy fines and/or imprisonment.
3. Ragging invokes suspension and dismissal from the College.
4. Outsiders are prohibited from entering the College and Hostel without permission.
5. Girl students must be in their hostel rooms by 7.00 p.m.
6. All the students must carry their Identity Cards and show them when demanded
7. The Principal and the Wardens may visit the Hostels and inspect the rooms any time.



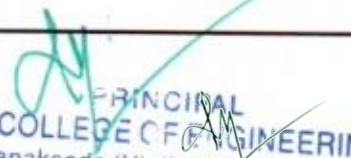
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2023

ENGINEERING CURRICULUM

B.Tech. Regular / Honors



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(Established by Govt. of A.P., Act No.30 of 2008)

Kakinada - 533003, Andhra Pradesh, India, www.jntuk.edu.in

B. Tech (Regular-Full time)

(Effective for the students admitted into I year from the Academic Year **2023-24** onwards)

&

B.Tech.(Lateral Entry Scheme)

(Effective for the students admitted into II year through Lateral Entry Scheme from the Academic Year **2024 - 25** onwards)

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Academic Regulations (R23) for B. Tech (Regular-Full time)

(Effective for the students admitted into I year from the Academic Year 2023-24 onwards)

1. Award of the Degree

- (a) Award of the B.Tech. Degree / B.Tech. Degree with a Minor if he/she fulfils the following:
- (i) Pursues a course of study for not less than four academic years and not more than eight academic years. However, for the students availing Gap year facility this period shall be extended by two years at the most and these two years would in addition to the maximum period permitted for graduation (Eight years).
 - (ii) Registers for 160 credits and secures all 160 credits.
- (b) **Award of B.Tech. degree with Honors** if he/she fulfils the following:
- (i) Student secures additional 15 credits fulfilling all the requisites of a B.Tech. program i.e., 160 credits.
 - (ii) Registering for Honors is optional.
 - (iii) Honors is to be completed simultaneously with B.Tech. programme.

2. Students, who fail to fulfil all the academic requirements for the award of the degree within eight academic years from the year of their admission, shall forfeit their seat in B.Tech. course and their admission stands cancelled. This clause shall be read along with clause 1 a) i).

3. Admissions

Admission to the B. Tech Program shall be made subject to the eligibility, qualifications and specialization prescribed by the A.P. State Government/University from time to time. Admissions shall be made either based on the merit rank obtained by the student in the common entrance examination conducted by the A.P. Government/University or any other order of merit approved by the A.P. Government/University, subject to reservations as prescribed by the Government/University from time to time.

4. Program related terms

Credit: A unit by which the course work is measured. It determines the number of hours of instruction required per week. One credit is equivalent to one hour of teaching (Lecture/Tutorial) or two hours of practical work/field work per week.

Credit Definition:

1 Hr. Lecture (L) per week	1 credit
1 Hr. Tutorial (T) per week	1 credit
1 Hr. Practical (P) per week	0.5 credit
2 Hrs. Practical (Lab) per week	1 credit

- a) **Academic Year:** Two consecutive (one odd + one even) semesters constitute one academic year.
- b) **Choice Based Credit System (CBCS):** The CBCS provides a choice for students to select from the prescribed courses.

5. Semester/Credits:

- i) A semester comprises 90 working days and an academic year is divided into two semesters.
- ii) The summer term is for eight weeks during summer vacation. Internship/ apprenticeship / work-based vocational education and training can be carried out during the summer term, especially by students who wish to exit after two semesters or four semesters of study.
- iii) Regular courses may also be completed well in advance through MOOCs satisfying prerequisites.

6. Structure of the Undergraduate Programme

All courses offered for the undergraduate program (B. Tech.) are broadly classified as follows:

S.No.	Category	Breakup of Credits (Total 160)	Percentage of total credits	AICTE Recommendation (%)
1.	Humanities and Social Science including Management (HM)	13	8 %	8 – 9%
2.	Basic Sciences (BS)	20	13 %	12 - 16%
3.	Engineering Sciences (ES)	23.5	14%	10 – 18%
4.	Professional Core (PC)	54.5	34 %	30 – 36%
5.	Electives – Professional (PE) & Open (OE); Domain Specific Skill Enhancement Courses (SEC)	33	21 %	19 - 23%
6.	Internships & Project work (PR)	16	10 %	8 – 11%
7.	Mandatory Courses (MC)	Non-credit	Non-credit	-

7. Course Classification:

All subjects/ courses offered for the undergraduate programme in Engineering & Technology (B.Tech. degree programmes) are broadly classified as follows:

S.No.	Broad Course Classification	Course Category	Description
1.	Foundation Courses	Foundation courses	Includes Mathematics, Physics and Chemistry; fundamental engineering courses; humanities, social sciences and management courses
2.	Core Courses	Professional Core Courses (PC)	Includes subjects related to the parent discipline/department/branch of Engineering
3.	Elective Courses	Professional Elective Courses (PE)	Includes elective subjects related to the parent discipline/department/ branch of Engineering
		Open Elective Courses (OE)	Elective subjects which include interdisciplinary subjects or subjects in an area outside the parent discipline/ department/ branch of Engineering
		Domain specific skill enhancement courses (SEC)	interdisciplinary/job-oriented/domain courses which are relevant to the industry
4.	Project & Internships	Project	B.Tech. Project or Major Project
		Internships	Summer Internships – Community based and Industry Internships; Industry oriented Full Semester Internship
5.	Audit Courses	Mandatory non-credit courses	Covering subjects of developing desired attitude among the learners

8. Programme Pattern

- i. Total duration of the of B. Tech (Regular) Programme is four academic years.
- ii. Each academic year of study is divided into two semesters.
- iii. Minimum number of instruction days in each semester is 90 days.
- iv. There shall be mandatory student induction program for freshers, with a three-week duration before the commencement of first semester. Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch & Innovations etc., are included as per the guidelines issued by AICTE.
- v. Health/wellness/yoga/sports and NSS /NCC /Scouts & Guides / Community service activities are made mandatory as credit courses for all the undergraduate students.
- vi. Courses like Environmental Sciences, Indian Constitution, Technical Paper Writing & IPR are offered as non-credit mandatory courses for all the undergraduate students.
- vii. Design Thinking for Innovation & Tinkering Labs are made mandatory as credit courses for all the undergraduate students.
- viii. Increased flexibility for students through an increase in the elective component of the curriculum, with 05 Professional Elective courses and 04 Open Elective courses.

- ix. Professional Elective Courses, include the elective courses relevant to the chosen specialization/branch. Proper choice of professional elective courses can lead to students specializing in emerging areas within the chosen field of study.
- x. A total of 04 Open Electives are offered in the curriculum. A student can complete the requirement for B.Tech. Degree with a Minor within the 160 credits by opting for the courses offered through various verticals/tracks under Open Electives.
- xi. While choosing the electives, students shall ensure that they do not opt for the courses with syllabus contents similar to courses already pursued.
- xii. A pool of interdisciplinary/job-oriented/domain skill courses which are relevant to the industry are integrated into the curriculum of all disciplines. There shall be 05 skill-oriented courses offered during III to VII semesters. Among the five skill courses, four courses shall focus on the basic and advanced skills related to the domain/interdisciplinary courses and the other shall be a soft skills course.
- xiii. Students shall undergo mandatory summer internships, for a minimum of eight weeks duration at the end of second and third year of the programme. The internship at the end of second year shall be community oriented and industry internship at the end of third year.
- xiv. There shall also be mandatory full internship in the final semester of the programme along with the project work.
- xv. Undergraduate degree with Honors is introduced by the University for the students having good academic record.
- xvi. Each college shall take measures to implement Virtual Labs (<https://www.vlab.co.in>) which provide remote access to labs in various disciplines of Engineering and will help student in learning basic and advanced concept through remote experimentation. Student shall be made to work on virtual lab experiments during the regular labs.
- xvii. Each college shall assign a faculty advisor/mentor after admission to a group of students from same department to provide guidance in courses registration/career growth/placements/opportunities for higher studies/GATE/other competitive exams etc.
- xviii. Preferably 25% of course work for the theory courses in every semester shall be conducted in the blended mode of learning.

9. Evaluation Process

The performance of a student in each semester shall be evaluated subject wise with a maximum of 100 marks for theory and 100 marks for practical subject. Summer Internships shall be evaluated for 50 marks, Full Internship & Project work in final semester shall be evaluated for 200 marks, mandatory courses with no credits shall be evaluated for 30 mid semester marks.

A student has to secure not less than 35% of marks in the end examination and a minimum of 40% of marks in the sum total of the mid semester and end examination marks taken together for the theory, practical, design, drawing subject or project etc. In case of a mandatory course, he/she should secure 40% of the total marks.

Theory Courses

Assessment Method	Marks
Continuous Internal Assessment	30
Semester End Examination	70
Total	100

- i) For theory subject, the distribution shall be 30 marks for Internal Evaluation and 70 marks for the End-Examination.
- ii) For practical subject, the distribution shall be 30 marks for Internal Evaluation and 70 marks for the End- Examination.
- iii) If any course contains two different branch subjects, the syllabus shall be written in two parts with 3 units each (Part-A and Part-B) and external examination question paper shall be set with two parts each for 35 marks.
- iv) If any subject is having both theory and practical components, they will be evaluated separately as theory subject and practical subject. However, they will be given same subject code with an extension of 'T' for theory subject and 'P' for practical subject.

a) Continuous Internal Evaluation

- i) For theory subjects, during the semester, there shall be two midterm examinations. Each midterm examination shall be evaluated for 30 marks of which 10 marks for objective paper (20 minutes duration), 15 marks for subjective paper (90 minutes duration) and 5 marks for assignment.
- ii) Objective paper shall contain for 05 short answer questions with 2 marks each or maximum of 20 bits for 10 marks. Subjective paper shall contain 3 either or type questions (totally six questions from 1 to 6) of which student has to answer one from each either-or type of questions. Each question carries 10 marks. The marks obtained in the subjective paper are condensed to 15 marks.

Note:

- The objective paper shall be prepared in line with the quality of competitive examinations questions.
 - The subjective paper shall contain 3 either or type questions of equal weightage of 10 marks. Any fraction shall be rounded off to the next higher mark.
 - The objective paper shall be conducted by the respective institution on the day of subjective paper test.
 - Assignments shall be in the form of problems, mini projects, design problems, slip tests, quizzes etc., depending on the course content. It should be continuous assessment throughout the semester and the average marks shall be considered.
- iii) If the student is absent for the mid semester examination, no re-exam shall be conducted and mid semester marks for that examination shall be considered as zero.
 - iv) First midterm examination shall be conducted for I, II units of syllabus with one either or type question from each unit and third either or type question from both the

units. The second midterm examination shall be conducted for III, IV and V units with one either or type question from each unit.

- v) Final mid semester marks shall be arrived at by considering the marks secured by the student in both the mid examinations with 80% weightage given to the better mid exam and 20% to the other.

For Example:

Marks obtained in first mid: 25

Marks obtained in second mid: 20

Final mid semester Marks: $(25 \times 0.8) + (20 \times 0.2) = 24$

If the student is absent for any one midterm examination, the final mid semester marks shall be arrived at by considering 80% weightage to the marks secured by the student in the appeared examination and zero to the other. For Example:

Marks obtained in first mid: Absent

Marks obtained in second mid: 25

Final mid semester Marks: $(25 \times 0.8) + (0 \times 0.2) = 20$

b) End Examination Evaluation:

End examination of theory subjects shall have the following pattern:

- i) There shall be 6 questions and all questions are compulsory.
- ii) Question I shall contain 10 compulsory short answer questions for a total of 20 marks such that each question carries 2 marks.
- iii) There shall be 2 short answer questions from each unit.
- a) In each of the questions from 2 to 6, there shall be either/or type questions of 10 marks each. Student shall answer any one of them.
- iv) The questions from 2 to 6 shall be set by covering one unit of the syllabus for each question.

End examination of theory subjects consisting of two parts of different subjects, for Example: Basic Electrical & Electronics Engineering shall have the following pattern:

- i) Question paper shall be in two parts viz., Part A and Part B with equal weightage of 35 marks each.
- ii) In each part, question 1 shall contain 5 compulsory short answer questions for a total of 5 marks such that each question carries 1 mark.
- iii) In each part, questions from 2 to 4, there shall be either/or type questions of 10 marks each. Student shall answer any one of them.
- iv) The questions from 2 to 4 shall be set by covering one unit of the syllabus for each question.

Practical Courses

Assessment Method	Marks
Continuous Internal Assessment	30
Semester End Examination	70
Total	100

- b) For practical courses, there shall be a continuous evaluation during the semester for 30 sessional marks and end examination shall be for 70 marks.
- c) Day-to-day work in the laboratory shall be evaluated for 15 marks by the concerned laboratory teacher based on the record/viva and 15 marks for the internal test.
- d) The end examination shall be evaluated for 70 marks, conducted by the concerned laboratory teacher and a senior expert in the subject from the same department.
- Procedure: 20 marks
 - Experimental work & Results: 30 marks
 - Viva voce: 20 marks.

In a practical subject consisting of two parts (Eg: Basic Electrical & Electronics Engineering Lab), the end examination shall be conducted for 70 marks as a single laboratory in 3 hours. Mid semester examination shall be evaluated as above for 30 marks in each part and final mid semester marks shall be arrived by considering the average of marks obtained in two parts.

- e) For the subject having design and/or drawing, such as Engineering Drawing, the distribution of marks shall be 30 for mid semester evaluation and 70 for end examination.

Assessment Method	Marks
Continuous Internal Assessment	30
Semester End Examination	70
Total	100


Day-to-day work shall be evaluated for 15 marks by the concerned subject teacher based on the reports/submissions prepared in the class. And there shall be two midterm examinations in a semester for duration of 2 hours each for 15 marks with weightage of 80% to better mid marks and 20% for the other. The subjective paper shall contain 3 either or type questions of equal weightage of 5 marks. There shall be no objective paper in mid semester examination. The sum of day-to-day evaluation and the mid semester marks will be the final sessional marks for the subject.

The end examination pattern for Engineering Graphics, shall consists of 5 questions, either/or type, of 14 marks each. There shall be no objective type questions in the end examination. However, the end examination pattern for other subjects related to design/drawing , multiple branches, etc is mentioned along with the syllabus.

- f) There shall be no external examination for mandatory courses with zero credits. However, attendance shall be considered while calculating aggregate attendance and student shall be declared to have passed the mandatory course only when he/she secures 40% or more in the internal examinations. In case, the student fails, a re-



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examination shall be conducted for failed candidates for 30 marks satisfying the conditions mentioned in item 1 & 2 of the regulations.


- g) The laboratory records and mid semester test papers shall be preserved for a minimum of 3 years in the respective institutions as per the University norms and shall be produced to the Committees of the University as and when the same are asked for.

10. Skill oriented Courses

- i) There shall be five skill-oriented courses offered during III to VII semesters.
- ii) Out of the five skill courses two shall be skill-oriented courses from the same domain. Of the remaining three skill courses, one shall be a soft skill course and the remaining two shall be skill-advanced courses from the same domain/Interdisciplinary/Job oriented.
- iii) The course shall carry 100 marks and shall be evaluated through continuous assessments during the semester for 30 sessional marks and end examination shall be for 70 marks. Day-to-day work in the class / laboratory shall be evaluated for 30 marks by the concerned teacher based on the regularity/assignments/viva/mid semester test. The end examination similar to practical examination pattern shall be conducted by the concerned teacher and an expert in the subject nominated by the principal.
- iv) The Head of the Department shall identify a faculty member as coordinator for the course. A committee consisting of the Head of the Department, coordinator and a senior Faculty member nominated by the Head of the Department shall monitor the evaluation process. The marks/grades shall be assigned to the students by the above committee based on their performance.
- v) The student shall be given an option to choose either the skill courses being offered by the college or to choose a certificate course being offered by industries/Professional bodies or any other accredited bodies. If a student chooses to take a Certificate Course offered by external agencies, the credits shall be awarded to the student upon producing the Course Completion Certificate from the agency. A committee shall be formed at the level of the college to evaluate the grades/marks given for a course by external agencies and convert to the equivalent marks/grades.
- vi) The recommended courses offered by external agencies, conversions and appropriate grades/marks are to be approved by the University at the beginning of the semester. The principal of the respective college shall forward such proposals to the University for approval.
- vii) If a student prefers to take a certificate course offered by external agency, the department shall mark attendance of the student for the remaining courses in that semester excluding the skill course in all the calculations of mandatory attendance requirements upon producing a valid certificate as approved by the University.



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11. Massive Open Online Courses (MOOCs):

A Student has to pursue and complete one course compulsorily through MOOCs approved by the University. A student can pursue courses other than core through MOOCs and it is mandatory to complete one course successfully through MOOCs for awarding the degree. A student is not permitted to register and pursue core courses through MOOCs.

A student shall register for the course (Minimum of either 8 weeks or 12 weeks) offered through MOOCs with the approval of Head of the Department. The Head of the Department shall appoint one mentor to monitor the student's progression. The student needs to earn a certificate by passing the exam. The student shall be awarded the credits assigned in the curriculum only by submission of the certificate. Examination fee, if any, will be borne by the student.

Students who have qualified in the proctored examinations conducted through MOOCs platform can apply for credit transfer as specified and are exempted from appearing internal as well as external examination (for the specified equivalent credit course only) conducted by the university.

Necessary amendments in rules and regulations regarding adoption of MOOC courses would be proposed from time to time.


12. Credit Transfer Policy

Adoption of MOOCs is mandatory, to enable Blended model of teaching-learning as also envisaged in the NEP 2020. As per University Grants Commission (Credit Framework for Online Learning Courses through SWAYAM) Regulation, 2016, the University shall allow up to a maximum of 20% of the total courses being offered in a particular programme i.e., maximum of 32 credits through MOOCs platform.

- i) The University shall offer credit mobility for MOOCs and give the equivalent credit weightage to the students for the credits earned through online learning courses.
- ii) Student registration for the MOOCs shall be only through the respective department of the institution, it is mandatory for the student to share necessary information with the department.
- iii) Credit transfer policy will be applicable to the Professional & Open Elective courses only.
- iv) The concerned department shall identify the courses permitted for credit transfer.
- v) The University/institution shall notify at the beginning of semester the list of the online learning courses eligible for credit transfer.
- vi) The institution shall designate a faculty member as a Mentor for each course to guide the students from registration till completion of the credit course.
- vii) The university shall ensure no overlap of MOOC exams with that of the university examination schedule. In case of delay in results, the university will re-issue the marks sheet for such students.



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- viii) Student pursuing courses under MOOCs shall acquire the required credits only after successful completion of the course and submitting a certificate issued by the competent authority along with the percentage of marks and grades.
- ix) The institution shall submit the following to the examination section of the university:
 - a) List of students who have passed MOOC courses in the current semester along with the certificate of completion.
 - b) Undertaking form filled by the students for credit transfer.
- x) The universities shall resolve any issues that may arise in the implementation of this policy from time to time and shall review its credit transfer policy in the light of periodic changes brought by UGC, SWAYAM, NPTEL and state government.

Note: Students shall be permitted to register for MOOCs offered through online platforms approved by the University from time to time.

13. Academic Bank of Credits (ABC)

The University has implemented Academic Bank of Credits (ABC) to promote flexibility in curriculum as per NEP 2020 to

- i. provide option of mobility for learners across the universities of their choice
- ii. provide option to gain the credits through MOOCs from approved digital platforms.
- iii. facilitate award of certificate/diploma/degree in line with the accumulated credits in ABC
- iv. execute Multiple Entry and Exit system with credit count, credit transfer and credit acceptance from students' account.


14. Mandatory Internships

Summer Internships : Two summer internships either onsite or virtual each with a minimum of 08 weeks duration, done at the end of second and third years, respectively are mandatory. It shall be completed in collaboration with local industries, Govt. Organizations, construction agencies, Power projects, software MNCs or any industries in the areas of concerned specialization of the Undergraduate program. One of the two summer internships at the end of second year (Community Service Project) shall be society oriented and shall be completed in collaboration with government organizations/NGOs & others. The other internship at the end of third year is Industry Internship and shall be completed in collaboration with Industries. The student shall register for the internship as per course structure after commencement of academic year. The guidelines issued by the APSCHE / University shall be followed for carrying out and evaluation of Community Service Project and Industry Internship.

Evaluation of the summer internships shall be through the departmental committee. A student will be required to submit a summer internship report to the concerned department and appear for an oral presentation before the departmental committee comprising of Head of the Department, supervisor of the internship and a senior faculty member of the department. A certificate of successful completion from industry shall



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be included in the report. The report and the oral presentation shall carry 50% weightage each. It shall be evaluated for 50 external marks. There shall be no internal marks for Summer Internship. A student shall secure minimum 40% of marks for successful completion. In case, if a student fails, he/she shall reappear as and when semester supplementary examinations are conducted by the University.

Full Semester Internship and Project work: In the final semester, the student should mandatorily register and undergo internship (onsite/virtual) and in parallel he/she should work on a project with well-defined objectives. At the end of the semester the candidate shall submit an internship completion certificate and a project report. A student shall also be permitted to submit project report on the work carried out during the internship.

The project report shall be evaluated with an external examiner. The total marks for project work 200 marks and distribution shall be 60 marks for internal and 140 marks for external evaluation. The supervisor assesses the student for 30 marks (Report: 15 marks, Seminar: 15 marks). At the end of the semester, all projects shall be showcased at the department for the benefit of all students and staff and the same is to be evaluated by the departmental Project Review Committee consisting of supervisor, a senior faculty and HOD for 30 marks. The external evaluation of Project Work is a Viva-Voce Examination conducted in the presence of internal examiner and external examiner appointed by the University and is evaluated for 140 marks.

The college shall facilitate and monitor the student internship programs. Completion of internships is mandatory, if any student fails to complete internship, he/she will not be eligible for the award of degree. In such cases, the student shall repeat and complete the internship.

15. Guidelines for offering a Minor

To promote interdisciplinary knowledge among the students, the students admitted into B.Tech. in a major stream/branch are eligible to obtain degree in Minor in another stream.

- i) The Minor program requires the completion of 12 credits in Minor stream chosen.
- i) Two courses for 06 credits related to a Minor are to be pursued compulsorily for the minor degree, but maybe waived for students who have done similar/equivalent courses. If waived for a student, then the student must take an extra elective course in its place. It is recommended that students should complete the compulsory courses (or equivalents) before registering for the electives.
- ii) Electives (minimum of 2 courses) to complete a total of 12 credits.


Note: A total of 04 Open Electives are offered in the curriculum. A student can complete the requirement for Minor by opting for the courses offered through various verticals/tracks under Open Electives.

16. Guidelines for offering Honors

The objective of introducing B.Tech. (Hons.) is to facilitate the students to choose



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additionally the specialized courses of their choice and build their competence in a specialized area in the UG level. The programme is a best choice for academically excellent students having good academic record and interest towards higher studies and research.


- i) Honors is introduced in the curriculum of all B. Tech. programs offering a major degree and is applicable to all B. Tech (Regular and Lateral Entry) students admitted in Engineering & Technology.
- ii) A student shall earn additional 15 credits for award of B.Tech.(Honors) degree from same branch/department/discipline registered for major degree. This is in addition to the credits essential for obtaining the Undergraduate degree in Major Discipline (i.e., 160 credits).
- iii) A student is permitted to register for Honors in IV semester after the results of III Semester are declared and students may be allowed to take maximum two subjects per semester pertaining to the Honors from V Semester onwards.
- iv) The concerned Principal of the college shall arrange separate class work and timetable of the courses offered under Honors program.
- v) Courses that are used to fulfil the student's primary major may not be double counted towards the Honors. Courses with content substantially equivalent to courses in the student's primary Major may not be counted towards the Honors.
- vi) Students can complete the courses offered under Honors either in the college or in online platforms like SWAYAM with a minimum duration of 12 weeks for a 3-credit course and 8 weeks duration for a 2-credit course satisfying the criteria for credit mobility. If the courses under Honors are offered in conventional mode, then the teaching and evaluation procedure shall be similar to regular B. Tech courses.
- vii) The attendance for the registered courses under Honors and regular courses offered for Major degree in a semester are to be considered separately.
- viii) A student shall maintain an attendance of 75% in all registered courses under Honors to be eligible for attending semester end examinations.
- ix) **A student registered for Honors shall pass in all subjects that constitute the requirement for the Honors degree program.** No class/division (i.e., second class, first class and distinction, etc.) shall be awarded for Honors degree programme.
- x) If a student drops or is terminated from the Honors program, the additional credits so far earned cannot be converted into open or core electives; they will remain extra. However, such students will receive a separate grade sheet mentioning the additional courses completed by them.
- xi) The Honors will be mentioned in the degree certificate as Bachelor of Technology (Honors) in XYZ. For example, B.Tech. (Honors) in Mechanical Engineering

Enrolment into Honors:

- i) Students of a Department/Discipline are eligible to opt for Honors program offered by the same Department/Discipline
- ii) The enrolment of student into Honors is based on the CGPA obtained in the major degree program. CGPA shall be taken up to III semester in case of regular entry students and only III semester in case of lateral entry students. Students having 7 CGPA without any backlog subjects will be permitted to register for



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Honors.

- iii) If a student is detained due to lack of attendance either in Major or in Honors, registration shall be cancelled.
- iv) Transfer of credits from Honors to regular B. Tech degree and vice-versa shall not be permitted.
- v) Honors is to be completed simultaneously with a Major degree program.

Registration for Honors:

- i) The eligible and interested students shall apply through the HOD of his/her parent department. The whole process should be completed within one week before the start of every semester. Selected students shall be permitted to register the courses under Honors.
- ii) The selected students shall submit their willingness to the principal through his/her parent department offering Honors. The parent department shall maintain the record of student pursuing the Honors.
- iii) The students enrolled in the Honors courses will be monitored continuously. An advisor/mentor from parent department shall be assigned to a group of students to monitor the progress.
- iv) There is no fee for registration of subjects for Honors program offered in offline at the respective institutions.

17. Attendance Requirements:

- i) A student shall be eligible to appear for the University external examinations if he/she acquires a minimum of 40% attendance in each subject and 75% of attendance in aggregate of all the subjects. Condonation of shortage of attendance in aggregate up to 10% (65% and above and below 75%) in each semester may be granted by the College Academic Committee.
- ii) Shortage of Attendance below 65% in aggregate shall in NO CASE be condoned.
- iii) A stipulated fee shall be payable towards condonation of shortage of attendance to the University.
- iv) Students whose shortage of attendance is not condoned in any semester are not eligible to take their end examination of that class and their registration shall stand cancelled.
- v) A student will not be promoted to the next semester unless he satisfies the attendance requirements of the present semester. They may seek readmission for that semester from the date of commencement of class work.
- vi) If any candidate fulfils the attendance requirement in the present semester, he shall not be eligible for readmission into the same class.
- vii) If the learning is carried out in blended mode (both offline & online), then the total attendance of the student shall be calculated considering the offline and online attendance of the student.
- viii) For induction programme attendance shall be maintained as per AICTE norms.

18. Promotion Rules:

The following academic requirements must be satisfied in addition to the attendance requirements mentioned in section 16.

- i) A student shall be promoted from first year to second year if he/she fulfils the minimum attendance requirement as per university norms.
- ii) A student will be promoted from II to III year if he/she fulfils the academic requirement of securing 40% of the credits (any *decimal* fraction should be *rounded off* to *lower* digit) up to in the subjects that have been studied up to III semester.
- iii) A student shall be promoted from III year to IV year if he/she fulfils the academic requirements of securing 40% of the credits (any *decimal* fraction should be *rounded off* to *lower* digit) in the subjects that have been studied up to V semester.

And in case a student is detained for want of credits for a particular academic year by ii) & iii) above, the student may make up the credits through supplementary examinations and only after securing the required credits he/she shall be permitted to join in the V semester or VII semester respectively as the case may be.

- iv) When a student is detained due to lack of credits/shortage of attendance he/she may be re-admitted when the semester is offered after fulfilment of academic regulations. In such case, he/she shall be in the academic regulations into which he/she is readmitted.

19. Grading:

As a measure of the student's performance, a 10-point Absolute Grading System using the following Letter Grades and corresponding percentage of marks shall be followed:

After each course is evaluated for 100 marks, the marks obtained in each course will be converted to a corresponding letter grade as given below, depending on the range in which the marks obtained by the student fall.

Structure of Grading of Academic Performance

Range in which the marks in the subject fall	Grade	Grade points
		Assigned
90 & above	S (Superior)	10
80 - 89	A (Excellent)	9
70 - 79	B (Very Good)	8
60 - 69	C (Good)	7
50 - 59	D (Average)	6
40 - 49	E (Pass)	5
< 40	F (Fail)	0
Absent	Ab (Absent)	0

- i) A student obtaining Grade 'F' or Grade 'Ab' in a subject shall be considered failed and will be required to reappear for that subject when it is offered the next supplementary examination.
- ii) For non-credit audit courses, "Satisfactory" or "Unsatisfactory" shall be indicated instead of the letter grade and this will not be counted for the computation of SGPA/CGPA/Percentage.

Computation of Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA):

The Semester Grade Point Average (SGPA) is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student, i.e.,

$$SGPA = \frac{\sum (C_i \times G_i)}{\sum C_i}$$

where, C_i is the number of credits of the i^{th} subject and G_i is the grade point scored by the student in the i^{th} course.

The Cumulative Grade Point Average (CGPA) will be computed in the same manner considering all the courses undergone by a student over all the semesters of a program, i.e.,

$$CGPA = \frac{\sum (C_i \times S_i)}{\sum C_i}$$

where " S_i " is the SGPA of the i^{th} semester and C_i is the total number of credits up to that semester.

Both SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts.

While computing the SGPA the subjects in which the student is awarded Zero grade points will also be included.

Grade Point: It is a numerical weight allotted to each letter grade on a 10-point scale.
Letter Grade: It is an index of the performance of students in a said course. Grades are denoted by the letters S, A, B, C, D and F.

Award of Class:

After a student has satisfied the requirements prescribed for the completion of the program and is eligible for the award of B. Tech. Degree, he/she shall be placed in one of the following four classes:

Class Awarded	CGPA Secured
First Class with Distinction	≥ 7.5
First Class	$\geq 6.5 < 7.5$
Second Class	$\geq 5.5 < 6.5$
Pass Class	$\geq 5.0 < 5.5$

CGPA to Percentage conversion Formula – $(CGPA - 0.5) \times 10$

20. With-holding of Results

If the candidate has any dues not paid to the university or if any case of indiscipline or malpractice is pending against him/her, the result of the candidate shall be withheld in such cases.

21. Multiple Entry / Exit Option

(a) Exit Policy:

The students can choose to exit the four-year programme at the end of first/second/third year.

- i) **UG Certificate in (Field of study/discipline)** - Programme duration: First year (first two semesters) of the undergraduate programme, 40 credits followed by an additional exit 10-credit bridge course(s) lasting two months, including at least 6-credit job-specific internship/ apprenticeship that would help the candidates acquire job-ready competencies required to enter the workforce.
- ii) **UG Diploma (in Field of study/discipline)** - Programme duration: First two years (first four semesters) of the undergraduate programme, 80 credits followed by an additional exit 10-credit bridge course(s) lasting two months, including at least 6-credit job-specific internship/ apprenticeship that would help the candidates acquire job-ready competencies required to enter the workforce.
- iii) **Bachelor of Science (in Field of study/discipline) i.e., B.Sc. Engineering in (Field of study/discipline)**- Programme duration: First three years (first six semesters) of the undergraduate programme, 120 credits.

(b) Entry Policy:

Modalities on multiple entry by the student into the B.Tech. programme will be provided in due course of time.


Note: The Universities shall resolve any issues that may arise in the implementation of Multiple Entry and Exit policies from time to time and shall review the policies in the light of periodic changes brought by UGC, AICTE and State government.

22. Gap Year Concept:

Gap year concept for Student Entrepreneur in Residence is introduced and outstanding students who wish to pursue entrepreneurship / become entrepreneur are allowed to take a break of one year at any time after II year to pursue full-time entrepreneurship programme/to establish startups. This period may be extended to two years at the most and these two years would not be counted for the time for the maximum time for graduation. The principal of the respective college shall forward such proposals submitted by the students to the University. An evaluation committee constituted by the University shall evaluate the proposal submitted by the student and the committee shall decide whether to permit the student(s) to avail the Gap Year or not



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23. Transitory Regulations

Discontinued, detained, or failed candidates are eligible for readmission as and when the semester is offered after fulfilment of academic regulations. Candidates who have been detained for want of attendance or not fulfilled academic requirements or who have failed after having undergone the course in earlier regulations or have discontinued and wish to continue the course are eligible for admission into the unfinished semester from the date of commencement of class work with the same or equivalent subjects as and when subjects are offered, subject to Section 2 and they will follow the academic regulations into which they are readmitted.

Candidates who are permitted to avail Gap Year shall be eligible for re-joining into the succeeding year of their B. Tech from the date of commencement of class work, subject to Section 2 and they will follow the academic regulations into which they are readmitted.

24. Minimum Instruction Days for a Semester:

The minimum instruction days including exams for each semester shall be 90 days.

25. Medium of Instruction:

The medium of instruction of the entire B. Tech undergraduate programme in Engineering & Technology (including examinations and project reports) will be in English only.

26. Student Transfers:

Student transfers shall be as per the guidelines issued by the Government of Andhra Pradesh and the Universities from time to time.

27. General Instructions:

- i. The academic regulations should be read as a whole for purpose of any interpretation.
- ii. Malpractices rules-nature and punishments are appended.
- iii. Where the words "he", "him", "his", occur in the regulations, they also include "she", "her", "hers", respectively.
- iv. In the case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice-Chancellor is final.
- v. The Universities may change or amend the academic regulations or syllabi at any time and the changes or amendments shall be made applicable to all the students on rolls with effect from the dates notified by the Universities.
- vi. In the case of any doubt or ambiguity in the interpretation of the guidelines given, the decision of the Vice-Chancellor / Head of the institution is final.

*** **

ACADEMIC REGULATIONS (R23)

FOR B.TECH. (LATERAL ENTRY SCHEME)

(Effective for the students admitted into II year through Lateral Entry Scheme from the Academic Year 2024-25 onwards)

1. Award of the Degree

- (a) Award of the B.Tech. Degree / B.Tech. Degree with a Minor if he/she fulfils the following:
- (i) Pursues a course of study for not less than three academic years and not more than six academic years. However, for the students availing Gap year facility this period shall be extended by two years at the most and these two years would in addition to the maximum period permitted for graduation (Six years).
 - (ii) Registers for 120 credits and secures all 120 credits.
- (b) **Award of B.Tech. degree with Honors** if he/she fulfils the following:
- (i) Student secures additional 15 credits fulfilling all the requisites of a B.Tech. program i.e., 120 credits.
 - (ii) Registering for Honors is optional.
 - (iii) Honors is to be completed simultaneously with B.Tech. programme.

2. Students, who fail to fulfil the requirement for the award of the degree within six consecutive academic years from the year of admission, shall forfeit their seat.

3. Minimum Academic Requirements


The following academic requirements have to be satisfied in addition to the requirements mentioned in item no.2

- i. A student shall be deemed to have satisfied the minimum academic requirements and earned the credits allotted to each theory, practical, design, drawing subject or project if he secures not less than 35% of marks in the end examination and a minimum of 40% of marks in the sum total of the mid semester evaluation and end examination taken together.
- ii. A student shall be promoted from III year to IV year if he/she fulfils the academic requirements of securing 40% of the credits (any decimal fraction should be rounded off to lower digit) in the subjects that have been studied up to V semester.

And in case if student is already detained for want of credits for particular academic year, the student may make up the credits through supplementary exams of the above exams before the commencement of IV year I semester class work of next year.



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4. Course Pattern

- i) The entire course of study is three academic years on semester pattern.
 - ii) A student eligible to appear for the end examination in a subject but absent at it or has failed in the end examination may appear for that subject at the next supplementary examination offered.
 - iii) When a student is detained due to lack of credits/shortage of attendance the student may be re-admitted when the semester is offered after fulfilment of academic regulations, the student shall be in the academic regulations into which he/she is readmitted.
5. All other regulations as applicable for B. Tech. Four-year degree course (Regular) will hold good for B. Tech. (Lateral Entry Scheme).

B.TECH. - COURSE STRUCTURE – R23
(Applicable from the academic year 2023-24 onwards)

INDUCTION PROGRAMME

S.No.	Course Name	Category	L-T-P-C
1	Physical Activities -- Sports, Yoga and Meditation, Plantation	MC	0-0-6-0
2	Career Counselling	MC	2-0-2-0
3	Orientation to all branches -- career options, tools, etc.	MC	3-0-0-0
4	Orientation on admitted Branch -- corresponding labs, tools and platforms	EC	2-0-3-0
5	Proficiency Modules & Productivity Tools	ES	2-1-2-0
6	Assessment on basic aptitude and mathematical skills	MC	2-0-3-0
7	Remedial Training in Foundation Courses	MC	2-1-2-0
8	Human Values & Professional Ethics	MC	3-0-0-0
9	Communication Skills -- focus on Listening, Speaking, Reading, Writing skills	BS	2-1-2-0
10	Concepts of Programming	ES	2-0-2-0

Group-A Branches:

CSE, EEE, Chemical Engineering, Food Technology, Petroleum Technology, Pharmaceutical Engineering

Group-B Branches:

Agricultural Engineering, Civil Engineering, Mechanical Engineering, Mining Engineering, Automobile Engineering, Robotics, ECE & ECE-Allied, CSE-Allied & IT

B.Tech. – I Year I Semester (for Group-A Branches)

S.No.	Category	Title	L/D	T	P	Credits
1	BS&H	Communicative English	2	0	0	2
2	BS&H	Engineering Chemistry/ Chemistry/Fundamental Chemistry	3	0	0	3
3	BS&H	Linear Algebra & Calculus	3	0	0	3
4	Engineering Science	Basic Civil & Mechanical Engineering	3	0	0	3
5	Engineering Science	Introduction to Programming	3	0	0	3
6	BS&H	Communicative English Lab	0	0	2	1
7	BS&H	Engineering Chemistry/ Chemistry/Fundamental Chemistry Lab	0	0	2	1
8	Engineering Science	Engineering Workshop	0	0	3	1.5
9	Engineering Science	Computer Programming Lab	0	0	3	1.5
10	BS&H	Health and wellness, Yoga and Sports	-	-	1	0.5
Total			14	00	11	19.5

B.Tech. – I Year I Semester (for Group-B Branches)

S.No.	Category	Title	L/D	T	P	Credits
1	BS&H	Engineering Physics	3	0	0	3
2	BS&H	Linear Algebra & Calculus	3	0	0	3
3	Engineering Science	Basic Electrical & Electronics Engineering	3	0	0	3
4	Engineering Science	Engineering Graphics	1	0	4	3
5	Engineering Science	Introduction to Programming	3	0	0	3
6	Engineering Science	IT Workshop	0	0	2	1
7	BS&H	Engineering Physics Lab	0	0	2	1
8	Engineering Science	Electrical & Electronics Engineering Workshop	0	0	3	1.5
9	Engineering Science	Computer Programming Lab	0	0	3	1.5
10	BS&H	NSS/NCC/Scouts & Guides/Community Service	-	-	1	0.5
Total			13	00	15	20.5

B.Tech. – I Year II Semester (for Group-A Branches)

S.No.	Category	Title	L/D	T	P	Credits
1	BS&H	Engineering Physics	3	0	0	3
2	BS & H	Differential Equations & Vector Calculus	3	0	0	3
3	Engineering Science	Basic Electrical and Electronics Engineering	3	0	0	3
4	Engineering Science	Engineering Graphics	1	0	4	3
5	Engineering Science	IT Workshop	0	0	2	1
6	Professional Core	Data Structures / Electrical Circuit Analysis – I (Branch specific)	3	0	0	3
7	BS&H	Engineering Physics Lab	0	0	2	1
8	Engineering Science	Electrical and Electronics Engineering Workshop	0	0	3	1.5
9	Professional Core	Data Structures Lab / Electrical Circuit Analysis – I Lab	0	0	3	1.5
10		NSS/NCC/Scouts & Guides/Community Service	-	-	1	0.5
Total			13	00	15	20.5

B.Tech. – I Year II Semester (for Group-B Branches)

S.No.	Category	Title	L	T	P	Credits
1	BS&H	Communicative English	2	0	0	2
2	BS & H	Engineering Chemistry / Chemistry / Fundamental Chemistry	3	0	0	3
3	Engineering Science	Differential Equations & Vector Calculus	3	0	0	3
4	Engineering Science	Basic Civil & Mechanical Engineering	3	0	0	3
5	Professional Core	Engineering Mechanics/Network Analysis/ Data structures (Branch specific)	3	0	0	3
6	BS&H	Communicative English Lab	0	0	2	1
7	BS&H	Engineering Chemistry / Chemistry / Fundamental Chemistry Lab	0	0	2	1
8	Engineering Science	Engineering Workshop	0	0	3	1.5
9	Professional Core	Engineering Mechanics & Building Practices Lab Engineering Mechanics Lab/Network Analysis Lab/ Data structures Lab	0	0	3	1.5
10		Health and wellness, Yoga and Sports	-	-	1	0.5
Total			14	00	11	19.5

B.Tech. – II Year I Semester

S.No.	Category	Title	L	T	P	Credits
1	BS&H	Engineering Mathematics (Branch specific)	3	0	0	3
2	BS&H	Universal Human Values – Understanding Harmony	2	1	0	3
3	Engineering Science		2	0	0	2
4	Professional Core		3	0	0	3
5	Professional Core		3	0	0	3
6	Engineering Science		0	0	2	1
7	Professional Core		0	0	3	1.5
8	Professional Core		0	0	3	1.5
9	Skill Enhancement course		0	1	2	2
10	Audit Course	Environmental Science	2	0	0	-
Total			15	2	10	20

B.Tech. – II Year II Semester

S.No.	Category	Title	L	T	P	Credits
1	Management Course - I		2	0	0	2
2	Engineering Science		3	0	0	3
3	Professional Core		3	0	0	3
4	Professional Core		3	0	0	3
5	Professional Core		3	0	0	3
6	Professional Core		0	0	2	1
7	Professional Core		0	0	3	1.5
8	Professional Core		0	0	3	1.5
9	Skill Enhancement course		0	1	2	2
10	BS&H	Design Thinking & Innovation	1	0	2	2
Total			15	1	12	22
Mandatory Community Service Project Internship of 08 weeks duration during summer vacation						

B.Tech. – III Year I Semester

S.No.	Category	Title	L	T	P	Credits
1	Professional Core		3	0	0	3
2	Professional Core		3	0	0	3
3	Professional Elective - I		2	0	0	2
4	Open Elective - I		3	0	0	3
5	Open Elective - II		3	0	0	3
6	Professional Core		0	0	3	1.5
7	Professional Core		0	0	3	1.5
8	Skill Enhancement course		0	1	2	2
9	BS&H	Tinkering Lab	0	0	2	1
10	Evaluation of Community Service Internship		-	-	-	2
Total			14	1	10	22

B.Tech. – III Year II Semester

S.No.	Category	Title	L	T	P	Credits
1	Professional Core		3	0	0	3
2	Professional Core		3	0	0	3
3	Professional Core		3	0	0	3
4	Professional Elective - II		3	0	0	3
5	Professional Elective - III		2	0	0	2
6	Open Elective - III		3	0	0	3
7	Professional Core		0	0	2	1
8	Professional Core		0	0	2	1
9	Skill Enhancement course		0	1	2	2
10	Audit Course	Technical Paper Writing & IPR	2	0	0	-
Total			19	1	06	21
Mandatory Industry Internship of 08 weeks duration during summer vacation						

B.Tech. – IV Year I Semester

S.No.	Category	Title	L	T	P	Credits
1	Professional Core		3	0	0	3
2	Professional Core		3	0	0	3
3	Management Course - II		2	0	0	2
4	Professional Elective - IV		3	0	0	3
5	Professional Elective - V		3	0	0	3
6	Open Elective - IV		3	0	0	3
7	Professional Core		0	0	2	1
8	Professional Core		0	0	2	1
9	Skill Enhancement Course		0	1	2	2
10	Audit Course	Constitution of India	2	0	0	-
11	Internship	Evaluation of Industry Internship	-	-	-	2
Total			19	1	06	23

B.Tech. – IV Year II Semester

S.No.	Category	Title	L	T	P	Credits
1	Internship & Project Work	Full semester Internship & Project Work	0	0	24	12



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

DEPARTMENT VISION:

To be recognized as leader for center of excellence to produce competent and ethical Electrical Engineers by uniting the skills of engineering, technology, research and design.

DEPARTMENT MISSION:

M1: To provide state of the art resources that contributes to achieve excellence in teaching-learning, research and development activities.

M2: To deliver knowledge among students through contemporary curriculum and modern pedagogical methods in the areas of electrical engineering and interdisciplinary areas.

M3: To create and sustain environment of learning in which students acquire knowledge and learn to apply it professionally with due consideration of ethical and economic issues.

M4: To nurture the personality traits among the students in different dimensions emphasis the ethical values and to address needs of the nation.



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INSTITUTE VISION ,MISSION AND QUALITY POLICY

VISION

"To be a world-class leader striving continuously by providing high standard technical education, research and technological service that transforms individuals into high intellectuals ."

MISSION

- To enrich the engineering skills that enhances inculcative knowledge of industrial needs.
- To create an environment to ensure culture, ethics, leadership qualities and social responsibilities among all the stake holders.
- To be a center of excellence to meet intellectual and carrier challenges.
- To create research environment with a scope to innovate, apply and disseminate.

QUALITY POLICY

- To ensure students to uphold moral and ethical values.
- To expose the students to understand the socio-economic strata of the society with an empathetic attitude.
- To nurture talent and entrepreneurship and enable all- round development in students.
- To cater to the demand-driven needs of various stake holders.
- To continually improve all the processes through endorsing cognizance, conducting periodical reviews and unifying trainings at all levels.



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Department of Civil Engineering

II BTech I Semester Class Time table for A.Y.2023-24

Day ↓	CLASS INCHARGE:							CLASS ROOM NO:			W.E.F: 2023-24	
	9.30-10.25 AM 1	10.25-11.20 AM 2	11.30-12.25 PM 3	12.25-1.20 PM 4	1.20-2.05 PM	2.05-2.55 PM 5	3.00-3.50 PM 6	3.50-4.40 PM 7				
MON	SM-I	M-III	S & G	S & G	LUNCH BREAK			FM	HE	SPORTS		
TUE	M-III	S & G	FM	SM-I	LUNCH BREAK			M-III	HE	FM		
WED	FM	SM-1	SM-1	HE	LUNCH BREAK				SOC LAB			
THU	M-III	HE	SM-I	LIB	LUNCH BREAK				HE LAB			
FRI	S & G	M-III	FM	SM-I	LUNCH BREAK							
SAT	S & G	M-III	HE	FM	LUNCH BREAK			SFW-I LAB		M-III		

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III BTech I Semester Class Time table for A.Y.2023-24

CLASS INCHARGE:		CLASS ROOM NO:					W.E.F: 2023-24		
Day ↓	9.30-10.25 AM 1	10.25-11.20 AM 2	11.30-12.25 PM 3	12.25-1.20 PM 4	1.20-2.05 PM	2.05-2.55 PM 5	3.00-3.50 PM 6	3.50-4.40 PM 7	
MON	RS&GIS	SA	SA	SET	LUNCH BREAK			GTE	SPORTS
TUE	SET	GTE	RS&GIS	DDRCS	RS&GIS	RS&GIS	SA	SA	
WED	SA	DDRCS	DDRCS	SET	LUNCH BREAK			GTE LAB	
THU	DDRCS	SET	SA	RS&GIS	LUNCH BREAK			SAC LAB	
FRI	SET	DDRCS	SA	GTE	DDRCS	DDRCS	LIB	RS&GIS	
SAT	GTE	SA	RS&GIS	DDRCS	LUNCH BREAK			SFW-II LAB	

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IV BTech I Semester Class Time table for A.Y.2023-24

CLASS INCHARGE:		CLASS ROOM NO:					W.E.F: 2023-24	
Day	9.30-10.25 AM	10.25-11.20 AM	11.30-12.25 PM	12.25-1.20 PM	1.20-2.05 PM	2.05-2.55 PM	3.00-3.50 PM	3.50-4.40 PM
↓	1	2	3	4	5	6	7	
MON	DDIS	DDIS	AMF	UTP	UTP	BMI	GTE	AMF
TUE	AMF	UTP	GIT	UHV	LUNCH BREAK			ETP
WED	UHV	AMF	UTP	GIT	BMI	GIT	GIT	DDIS
THU	AMF	UHV	DDIS	DDIS	SAC			BMI
FRI	UTP	AMF	GIT	UHV	BMI	UTP	UTP	GIT
SAT	GIT	UHV	BMI	UTP	DDIS	BMI	BMI	UHV

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II B.Tech II Semester Class Time table for A.Y.2023-24

CLASS INCHARGE: Ms K.KAVYA		CLASS ROOM NO:					W.E.F: 2023-24	
Day ↓	9.30-10.25 AM 1	10.25-11.20 AM 2	11.30-12.25 PM 3	12.25-1.20 PM 4	1.20-2.05 PM 5	2.05-2.55 PM 6	3.00-3.50 PM 7	
MON	EE	H&HM	CV&SM	MEFA	LUNCH BREAK			H&HM
TUE	SM-II	H&HM	MEFA	H&HM	LUNCH BREAK			MEFA
WED	SM-II	EE	MEFA	CV&SM	LUNCH BREAK			FM&HM LAB
THU	EE	MEFA	CV&SM	H&HM	LUNCH BREAK			SM LAB
FRI	H&HM	SM-II	CV&SM	EE	LUNCH BREAK			SOC LAB
SAT	H&HM	CV&SM	MEFA	SM-II	LUNCH BREAK			EE LAB

S.NO	NAME OF THE FACULTY	NAME OF THE SUBJECT/ LABS	MOBILE NUMBER
1	MD.UMAR	Environmental Engineering/Environmental Engineering Lab	8019786981
2	HARI NAGA VENKATA SAI	Hydraulics and Hydraulic Machinery	7331144116
3	M. HEMALATHA	Strength of Materials -II/Strength of Material Lab	6304376418
4	K.KAVYA	Fluid Mechanics & Hydraulics Machinery Lab/Skill oriented course	9652207591
5	NAGABABU (FED)	Complex Variables and Statistical Methods	9640369265
6	Dr.KIRAN (MBA)	Managerial Economics & Financial Analysis	

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III B.Tech II Semester Class Time table for A.Y.2023-24

Day ↓	CLASS INCHARGE: Ms M. HEMALATHA						CLASS ROOM NO:			W.E.F: 2023-24
	9.30-10.25 AM 1	10.25-11.20 AM 2	11.30-12.25 PM 3	12.25-1.20 PM 4	1.20-2.05 PM	2.05-2.55 PM 5	3.00-3.50 PM 6	3.50-4.40 PM 7		
MON	TE	IAE	WRE	DDIS		GTE-II	DDIS	IAE		
TUE	TE	DDIS	IAE	GTE-II	LUNCH BREAK					
WED	TE	IAE	WRE							GTE-II
THU	DDIS	TE	GTE-II	WRE					CAD LAB (SAC)	
FRI	WRE	GTE-II	TE	IAE					GTE-II	
SAT	GTE-II	WRE	IAE	DDIS					RS&GIS LAB	
									CEP LAB	
									ES&C LAB	

S.NO	NAME OF THE FACULTY	NAME OF THE SUBJECT/ LABS	MOBILE NUMBER
1	G.TULASI RAO	Design and drawing of steel structures/Remote sensing & GIS lab	9533041553
2	MD.UMAR	Geotechnical engineering-II	8019786981
3	HARI NAGA VENKATA SAI	Traffic engineering /Estimation, costing and contracts lab	7331144116
4	M. HEMALATHA	Water resource engineering/cad lab (sac)	6304376418
5	K.KAVYA	Civil engineering practice lab	9652207591
6	V.SRIRAM MURTHY (MECH)	Introduction of Auto mobile Engineering	9493133307


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR: 2023-24

TIME TABLE

YEAR/SEM : II YEAR I SEM

DAY	9:30 TO 10:25 AM	10:25 TO 11:20 AM	11:20 TO 11:30 A.M.	11:30 TO 12:25 PM	12:25 TO 1:20 PM	1:20 TO 2:00 P.M	2:00 TO 02:50 PM	2:50 TO 3:40 PM	3:40 TO 4:40 PM
MON	ECA-II	M-IV		EDC	EMF		EC LAB		
TUE	EDC	EMF		DCM&T	M-IV		EMF	EDC	PE&HV
WED	DCM&T	M-IV	BREAK	ECA-II	EMF	LUNCH	DCM&T	M-IV	ECA-II
THU	ECA-II	M-IV		DCM&T	EDC		SOC LAB		
FRI	ECA-II	DCM&T		M-IV	EDC		EDC LAB		
SAT	M-IV	EDC		ECA-II	DCM&T		DCM&T LAB		

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR: 2023-24

TIME TABLE

YEAR/SEM : III YEAR I SEM

DAY	9:30 TO 10:25 AM	10:25 TO 11:20 AM	11:20 TO 11:30AM	11:30 TO 12:25 PM	12:25 TO 1:20 PM	1:20 TO 2:00PM	2:00 TO 2:50 PM	2:50 TO 3:40 PM	3:40 TO 4:40 PM
MON	SET	CS		UEE	PE		PE LAB		
TUE	PE	PS-II		PE	UEE		SET	ES	
WED	SET	PS-II		CS	PE		CS	UEE	UEE
THU	PE	UEE		CS	PS-II	LUNCH			CS LAB
FRI	PS-II	SET		PE	CS		CS	SET	UEE
SAT	SET	PE		UEE	CS	EMPLOYBILITY SKILLS			

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR: 2023-24

TIME TABLE

YEAR/SEM : IV YEAR I SEM

DAY	9:30 TO 10:25 AM	10:25 TO 11:20 AM	11:20 TO 11:30 A.M.	11:30 TO 12:25 PM	12:25 TO 1:20 PM	1:20 TO 2:00 P.M	2:00 TO 02:50 PM	2:50 TO 3:40 PM	3:40 TO 4:40 PM
MON	FACTS	HEV		AMF	SMPC		BMI	UNIV-2	AMF
TUE	AMF	SMPC		UNIV-2	HEV		FACTS	UNIV-2	SMPC
WED	SMPC	AMF	BREAK	UNIV-2	HEV	LUNCH	BMI	HEV	UNIV-2
THU	AMF	ML LAB		ML LAB			UNIV-2	SMPC	BMI
FRI	SMPC	AMF		UNIV-2	FACTS		BMI	HEV	FACTS
SAT	HEV	FACTS		BMI	UNIV-2		FACTS	BMI	SMPC

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ACADEMIC YEAR: 2023-24	II EEE TIME TABLE				YEAR/SEM : II/II SEM				
	9:30 TO 10:25 AM	10:25 TO 11:20 AM	11:20 TO 11:30 A.M.	11:30 TO 12:25 PM	12:25 TO 1:20 PM	1:20 TO 2:00 P.M	2:00 TO 02:50 PM	2:50 TO 3:40 PM	3:40 TO 4:40 PM
DAY 7									
MON	PS-I	DE		PYTHON	MEFA			DE LAB	
TUE	PS-I	MEFA		ISM	DE		PYTHON	MEFA	PS-I
WED	PYTHON	ISM	BREAK	PS-I	DE	LUNCH			IOT SKILL COURSE
THU	PYTHON	ISM		DE	MEFA				ISM LAB
FRI	MEFA	ISM		PYTHON	PS-I				PYTHON LAB
SAT	DE	PS-I		MEFA	ISM		DE	PYTHON	ISM

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR: 2023-24		III EEE TIME TABLE				YEAR/SEM : III/II SEM			
DAY	9:30 TO 10:25 AM	10:25 TO 11:20 AM	11:20 TO 11:30 A.M.	11:30 TO 12:25 PM	12:25 TO 1:20 PM	1:20 TO 2:00 P.M	2:00 TO 02:50 PM	2:50 TO 3:40 PM	3:40 TO 4:40 PM
MON	EMI	SGP		MP&MC	IOT		SGP	MP&MC	PSA
TUE	PSA	IOT		EMI	SGP		MP&MC	RESEARCH METHODOLOGY	
WED	MP&MC	IOT		EMI	PSA		MP&MC	IOT	PSA
THU	IOT	MP&MC	BREAK	MP&MC LAB		LUNCH		PS&S LAB	
FRI	SGP	EMI		MP&MC	PSA			ML LAB	
SAT	EMI	PSA		SGP	IOT			EMI LAB	

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DEPARTMENT OF MECHANICAL ENGINEERING

II-B. TECH I-SEM TIME TABLE FOR THE A.Y.2023-2024

Class IN-charge: Dr. K KISHORE KUMAR

w.e.f: 07/8/2023

Day ↓	9.30-10.25 AM 1	10.25-11.20 AM 2	11.20-11.30 AM	11.30-12.25 PM 3	12.25-1.20 PM 4	1.20-2.05 PM	2.00-2.50 PM 5	2.50-3.40 PM 6	3.40-4.40 PM 7
MON	KOM	VCFT	B R E A K	FMHM	MOS	L U N C H	FMHM	PT	MOS
TUE	VCFT	FMHM LAB		FMHM LAB	KOM		D&M LAB		KOM
WED	KOM	FMHM		FMHM	MOS		EOITK		KOM
THU	VCFT	MOS		KOM	PT		MOS	KOM	FMHM
FRI	PT	VCFT		KOM	PT		MOS	PT LAB	
SAT	PT	VCFT		MOS	FMHM		CAEDP LAB		VCFT

SN	SUBJECT
1	Vector Calculus, Fourier Transforms (M-III)
2	Mechanics of Solids
3	Fluid Mechanics & Hydraulic Machines
4	Production Technology
5	Kinematics of Machinery
6	Computer Aided Engineering Drawing Practice
7	Fluid Mechanics & Hydraulic Machines Lab
8	Production Technology Lab
9	Drafting and Modeling Lab
10	Essence of Indian Traditional Knowledge

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DEPARTMENT OF MECHANICAL ENGINEERING

III-B. TECH I-SEM TIME TABLE FOR THE A.Y.2023-2024

Class IN-charge: Mr. CH D V NOOKARAJU

w.e.f: 17/7/2023

Day ↓	9.30-10.25 AM 1	10.25-11.20 AM 2	11.20-11.30 AM	11.30-12.25 PM 3	12.25-1.20 PM 4	1.20-2.05 PM	2.00-2.50 PM 5	2.50-3.40 PM 6	3.40-4.40 PM 7
MON	MMT	RES	B R E A K	TE-II	EM	L U N C H	Machine Tools Lab		TE-II
TUE	TE-II	EM		MMT	RES		TE-II	RES	DMM1
WED	RES	TE-II		EM	DMM1		PE&HV		TE-II
THU	MMT	EM		DMM1	RES		TE LAB		RES
FRI	TE-II	MMT		MMT	TE-II		DMM1	EM	RES
SAT	MMT	DMM1		DMM1	EM		AD C SKILLS LAB		

SN	SUBJECT
1	Thermal Engineering-II
2	Design of Machine Members-I
3	Machining, Machine Tools & Metrology
4	Environmental Management
5	Renewable Energy Sources
6	Machine Tools Lab
7	Thermal Engineering Lab
8	Advanced Communication Skills Lab
9	Professional Ethics and Human Values

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DEPARTMENT OF MECHANICAL ENGINEERING

IV-B. TECH I-SEM TIME TABLE FOR THE A.Y.2023-2024

Class IN-charge: M. ANVESH

w.e.f: 17/7/2023

Day ↓	9.30-10.25 AM 1	10.25-11.20 AM 2	11.20-11.30 AM	11.30-12.25 PM 3	12.25-1.20 PM 4	1.20-2.05 PM	2.00-2.50 PM 5	2.50-3.40 PM 6	3.40-4.40 PM 7
MON	UCMP	UHV	B R E A K	AMF	EM	L U N C H	BMI	UHV	AMF
TUE	AMF	EM		UCMP	PPC		MECHATRONICS LAB	PPC	
WED	UCMP	AMF		EM	UHV		BMI	PPC	
THU	AMF	EM		UCMP	UHV		UHV	PPC	BMI
FRI	UHV	AMF		PPC	UHV		BMI	EM	UCMP
SAT	PPC	UCMP		BMI	EM		PPC	BMI	UHV

SN	SUBJECT
1	Unconventional Machining Processes
2	Environmental Management
3	Bio Medical Instrumentation
4	Additive Manufacturing
5	Production Planning Control
6	Universal Human Values
7	Mechatronics Lab

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DEPARTMENT OF MECHANICAL ENGINEERING

III-B. TECH II-SEM TIME TABLE FOR THE A.Y.2023-2024

Class IN-charge: Mr.CH D V NOOKARAJU

w.e.f: 24/02/2024

Day ↓	9.30-10.25 AM 1	10.25-11.20 AM 2	11.20-11.30 AM	11.30-12.25 PM 3	12.25-1.20 PM 4	1.20-2.00 PM	2.00-2.50 PM 5	2.50-3.40 PM 6	3.40-4.40 PM 7	
MON	HT	AE	B R E A K	DMM-II	HT	L U N C H	WRE	AIML	AE	
TUE	AIML	HT		AE	DMM-II		M&MLAB			
WED	HT	AE		WRE			AIML	DMM-II	DMM-II	
THU	HT LAB			AIML	WRE		HT	AIML	HT	
FRI	WRE	DMM-II		IPR			CAE&CAM LAB			
SAT	AIML	WRE		AE	HT		AIML LAB			

SN	SUBJECT
1	HEAT TRANSFER(HT)
2	DESIGN OF MACHINE MEMBERS-II(DMM - II)
3	INTRODUCTION TO AI&ML(AIML)
4	AUTOMOBILE ENGINEERING(AE)
5	WATER RESOURCE ENGINEERING (WRE)
6	HEAT TRANSFER LAB
7	CAE&CAM LAB
8	MEASUREMENTS & METROLOGY LAB
9	AI AND ML LAB
10	Research Methodology and IPR

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Department of Electronics & communication engineering

TIME TABLE A.Y : 2023-2024

II-I ECE-A B.TECHTIME TABLE

TIMINGS:- 9.30AM TO 4.40PM

DAY	9:30-10:25	10:25-11:20	11:30-12:25	12:25-1:20	L	2:00-02:50	2:50-3:40	3:40-4:40
MON	RVSP	M3	SS	STLD	U	EDC LAB / STLD LAB		STLD
TUE	M3	RVSP	STLD	EDC	N	STLD	SS	EDC
WED	EDC	SS	STLD	RVSP	C	M3	STLD	SS
THU	M3	EDC	RVSP	EDC	H	STLD LAB / EDC LAB		SPORTS
FRI	STLD	M3	EDC	LIB		SS	RVSP	RVSP
SAT	STLD	M3	SS	EDC		SS	RVSP	M3

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Department of Electronics & communication engineering

TIME TABLE A.Y : 2023-2024

II-I ECE-B B.TECHTIME TABLE

TIMINGS:- 9.30AM TO 4.40PM

DAY	9:30-10:25	10:25-11:20	11:30-12:25	12:25-1:20	L	2:00-02:50	2:50-3:40	3:40-4:40
MON	SS	M3	STLD	EDC	U	EDC LAB / STLD LAB		RVSP
TUE	M3	STLD	EDC	SS	N	RVSP		SS
WED	RVSP	EDC	SS	STLD	C	M3	RVSP	EDC
THU	M3	SS	STLD	SS		STLD LAB / EDC LAB		SPORTS
FRI	SS	M3	RVSP	STLD	H	EDC	SS	STLD
SAT	RVSP	M3	EDC	LIB		STLD	EDC	M3

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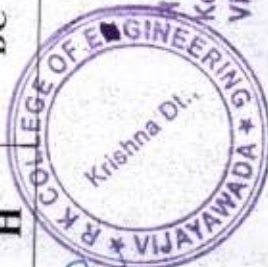
TIME TABLE A.Y : 2023-2024

TIMINGS:- 9.30AM TO 4.40PM

III-I ECEB.TECHTIME TABLE

DAY	9:30-10:25	10:25-11:20	11:30-12:25	12:25-1:20	L			2:00-02:50	2:50-3:40	3:40-4:40
MON	COA	EMTL	EMI	AICA	U			EMI	AICA	COA
TUE	AICA	EMTL	DC	LIB	N			AICA LAB / DC LAB		
WED	COA	DC	EMI	EMTL	C			DC LAB / AICA LAB		
THU	AICA	EMI	EMTL	DC	H			AICA	EMI	SPORTS
FRI	DC	AICA	EMTL	COA				DC	COA	EMTL
SAT	AICA	COA	DC	EMI				DC	EMTL	EMI

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TIME TABLE A.Y : 2023-2024

IV-I ECEB.TECHTIME TABLE

TIMINGS:- 9:30AM TO 4:40PM

DAY	9:30-10:25	10:25-11:20	11:30-12:25	12:25-1:20	L	2:00-02:50	2:50-3:40	3:40-4:40
MON	SC	RE	IOT	OC	U	DM	OC	DM
TUE	SC	IOT	OC	RE		OC	DM	IOT
WED	IOT	DM	SC	OC	N	SC	RE	RE
THU	OC	SC	RE	IOT		RE	DM	SPORTS
FRI	SC	OC	IOT	DM	C	RE	IOT	SC
SAT	DM	IOT	RE	OC		RE	IOT	OC

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TIME TABLE A.Y: 2023-2024

II-II ECE B.TECH TIME TABLE

TIMINGS:- 9.30AM TO 4.40PM

DAY	9:30-10:25	10:25-11:20	11:30-12:25	12:25-1:20	2:00-02:50	2:50-3:40	3:40-4:40
MON	ECA	LCS	MOB	DICD	AC LAB / ECA LAB		
TUE	LCS	MOB	DICD	AC	DICD LAB		
WED	AC	DICD	MOB	LCS	MOB	ECA	LCS
THU	LCS	DICD	ECA	AC	AC	ECA	SPORTS
FRI	DICD	MOB	AC	LIB	ECA	LCS	DICD
SAT	MOB	LCS	ECA	DICD	ECA LAB / AC LAB		



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TIME TABLE A.Y : 2023-2024

TIMINGS:- 9.30AM TO 4.40PM

III-II ECE B.TECH TIME TABLE

DAY	9:30-10:25	10:25-11:20	11:30-12:25	12:25-1:20	L	2:00-02:50	2:50-3:40	3:40-4:40
MON	VLSI	MP&MC LAB			L U N C H	FUE	CMC	DSP
TUE	MP&MC	DSP LAB				VLSI	FUE	MP&MC
WED	MP&MC	VLSI LAB				DSP	CMC	FUE
THU	DSP	CMC	VLSI	MP&MC		FUE	CMC	SPORTS
FRI	VLSI	DSP	FUE	MP&MC		DSP	FUE	VLSI
SAT	VLSI	FUE	MP&MC	LIB		CMC	DSP	CMC

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TIME TABLE (CSE-A)

II BTECH I SEM

A.Y:2023-24

DAY	9:30-10:25 AM	10:25-11:20 AM	11:20-11:30 AM	11:30-12:25 PM	12:25-01:20 PM	01:20-02:05 PM	02:05-03:00 PM	03:00-03:50 PM	03:50-04:40 PM
MON	OOP THROUGH C++					L U N C H B R E A K	OOP THROUGH C++ LAB		
TUE	MFCS	SE	B R E A K	OS	M-III		MFCS	OS	SE
WED	SE	OS		SEMINAR	M-III		MFCS	OS	M-III
THU	SE	SE LAB		SE LAB			MFCS	M-III	OS
FRI	MFCS	SE		M-III	LIB		SOC-I LAB (APPLICATIONS OF PYTHON - NUMPY)		
SAT	MFCS	OS LAB			M-III		SEM	OS	

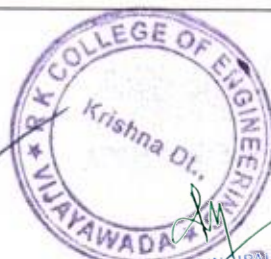
NAME OF THE SUBJECT	NAME OF THE FACULTY
OS	D.SUDHA RANI
OOP THROUGH C++	D.SARATH
SE	P.SIVA RAMA KRISHNA
M-III	Dr.K.RAMA RAO
MFCS	K.SRINADH
OS LAB	D.SUDHA RANI
OOP THROUGH C++ LAB	D.SARATH
SE LAB	P.SIVA RAMA KRISHNA
SOC-I LAB	-----

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TIME TABLE (CSE-B)

II BTECH I SEM

A.Y:2023-24

DAY	9:30-10:25 AM	10:25-11:20 AM	11:20-11:30 AM	11:30-12:25 PM	12:25-01:20 PM	01:20-02:05 PM	02:05-03:00 PM	03:00-03:50 PM	03:50-04:40 PM
MON	MFCS	M-III	B R E A K	SE	SEMINAR	L U N C H B R E A K	MFCS	OS	-
TUE	OOP THROUGH C++			OOP THROUGH C++			OOP THROUGH C++ LAB		
WED	OOP	MFCS		M-III	SE		OS	M-III	MFCS
THU	MFCS	SE LAB		SE LAB			M-III	OS	LIBRARY
FRI	OS	MFCS		SE	M-III		SE	SOC-I LAB	
SAT	M-III	OS LAB			SE		OS	M-III	

NAME OF THE SUBJECT	NAME OF THE FACULTY
OS	D. SUDHA RANI
OOP THROUGH C++	D.SARATH
SE	K.SIVA RAMA KRISHNA
M-III	Dr. J.ASWINI
MFCS	K.SRINADH
OS LAB	D. SUDHA RANI
OOP THROUGH C++ LAB	D. SARATH
SE LAB	K.SIVA RAMA KRISHNA
SOC-I LAB	-----


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TIME TABLE CSE (DS)

II BTECH I SEM

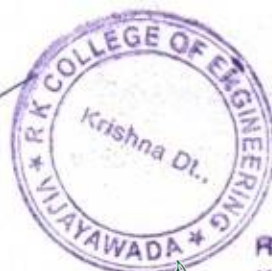
A.Y:2023-24

DAY	9:30-10:25 AM	10:25-11:20 AM	11:20-11:30 AM	11:30-12:25 PM	12:25-01:20 PM	01:20-02:05 PM	02:05-03:00 PM	03:00-03:50 PM	03:50-04:40 PM	
MON	M-III	DBMS LAB	B R E A K	DBMS LAB		L U N C H B R E A K	DBMS	MFCs	LIB	
TUE	DBMS	M-III		MFCs	FDS		DBMS	SEM	MFCs	
WED	OOP THROUGH JAVA			OOP THROUGH JAVA			OOP THROUGH JAVA LAB			
THU	M-III	MFCs		-	DBMS		-	DBMS	M-III	
FRI	M-III	DBMS		-	MFCs		MAD LAB			
SAT	FUNDMENTALS OF DS						FUNDMENTALS OF DS LAB			

NAME OF THE SUBJECT	NAME OF THE FACULTY
M-III	RAMA ANJANI DEVI
DBMS	B.DHRAMA RAJU
MFCs	K.SRINADH
FUNDAMENTALS OF DS	D.SARATH
OOP THROUGH JAVA	D.SARATH
OOP THROUGH JAVA LAB	D.SARATH
FUNDAMENTALS OF DSLAB	D.SARATH
DBMS LAB	B.DHARAMA RAJU
MAD LAB	-----

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TIME TABLE - CSE (AI&ML)

II BTECH I SEM

A.Y:2023-24

DAY	9:30-10:25 AM	10:25-11:20 AM	11:20-11:30 AM	11:30-12:25 PM	12:25-01:20 PM	01:20-02:05 PM	02:05-03:00 PM	03:00-03:50 PM	03:50-04:40 PM	
MON	M-III	DBMS LAB	B R E A K	DBMS LAB		L U N C H B R E A K	DBMS	MFCs	LIB	
TUE	DBMS	M-III		MFCs	AI		DBMS	SEM	MFCs	
WED	OOP THROUGH JAVA			OOP THROUGH JAVA			OOP THROUGH JAVA LAB			
THU	M-III	MFCs		AI	DBMS		AI	DBMS	M-III	
FRI	M-III	DBMS		AI	MFCs		MAD LAB			
SAT	AIML LAB				MFCs		AI	M-III	DBMS	

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TIME TABLE

III B. TECH I SEM

DEPT: CSE (AIML)

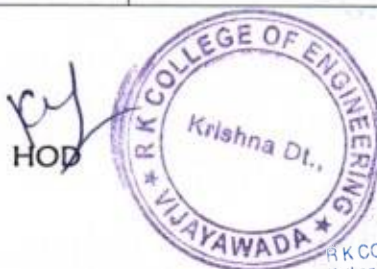
A.Y:2023-24

DAY	9:30-10:25 AM	10:25-11:20 AM	11:20-11:30 AM	11:30-12:25 PM	12:25-01:20 PM	01:20-02:05 PM	02:05-03:00 PM	03:00-03:50 PM	03:50-04:40 PM
MON	OS	CD	B R E A K	SE	PC	L U N C H B R E A K	ML-LAB		
TUE	ML	CD		SE	PC		LIB	PC	OS
WED	OS-LAB			OS-LAB	SE		OS	PC	CD
THU	OS	CD		OS	ML		CD	ML	SEMINAR
FRI	PC	ML		SE	OS		SE	PC	CD
SAT	DEVOPS-LAB				SE		ML	CD	PC


NAME OF THE SUBJECT	NAME OF THE FACULTY
ML	K, KOTESWARA RAO
OS	SK. SHABAAZ
CD	D. SUDHA RANI
SE	P. SIVA RAMA KRISHNA
PC	Y.N.M. SHARMA
ML-LAB	K. KOTESWARA RAO
OS& CD-LAB	SK. SHABAAZ& D.SUDHA RANI
DEVOPS-LAB	P. SIVA RAMA KRISHNA


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TIME TABLE

III B. TECH I SEM

DEPT: CSE -A/S

A.Y:2023-24

PDAY	9:30-10:25 AM	10:25-11:20 AM	11:20-11:30 AM	11:30-12:25 PM	12:25-01:20 PM	01:20-02:05 PM	02:05-03:00 PM	03:00-03:50 PM	03:50-04:40 PM
MON	SPM	DLD	B R E A K	CN	DAA	L U N C H B R E A K	CN	DW&DM	LIBRARY
TUE	CN-LAB			CN-LAB	DAA		SPM	DLD	DW&DM
WED	DLD	SPM		CN	DAA		DM-LAB		
THU	DW&M	SEMINAR		DLD	DAA		DW&DM	CN	SPM
FRI	SPM	DLD		DW&M	DAA		CN	SPM	DLD
SAT	CN	SPM		DLD	DAA		DEVOPS-LAB		

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TIME TABLE

III B. TECH I SEM

DEPT: CSE -B/S

A.Y:2023-24

PDAY	9:30-10:25 AM	10:25-11:20 AM	11:20-11:30 AM	11:30-12:25 PM	12:25 - 01:20 PM	01:200 2:05 PM	02:05 - 03:00 PM	03:00-03:50 PM	03:50-04:40 PM
MON	DLD	SPM	B R E A K	DAA	CN	L U N C H B R E A K	DW&DM	LIB	CN
TUE	DEVOPS LAB			DEVOPS LAB	SPM		DLD	DW&DM	SPM
WED	SPM	DLD		DAA	CN		CN LAB		
THU	DW&M	DAA		SEMINAR	DLD		SPM	DW&DM	CN
FRI	SPM	DLD		DAA	DW&DW		CN	DLD	SPM
SAT	SPM	CN		DAA	DLD		DM LAB		

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TIME TABLE

IV B.TECH I SEM

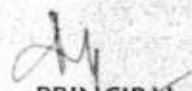
DEPT: CSE

A.Y:2023-24

DAY	9:30-10:25 AM	10:25-11:20 AM	11:20-11:30 AM	11:30-12:25 PM	12:25-01:20 PM	01:20-02:05 PM	02:05-03:00 PM	03:00-03:50 PM	03:50-04:40 PM	
MON	EH	IOT	B R E A K	UHV-2	SN&SW	L U N C H B R E A K	IOT	PC	CC	
TUE	UHV-2	PC		EH	IOT		SN&SW	CC	LIBRARY	
WED	SN&SW	IOT		CC	PC		EH	UHV	SN&SW	
THU	EH	PC		CC	SN&SW		MST MODULE-II LAB			
FRI	CC	UHV-2		PC	EH		UHV-2			
SAT	IOT	UHV-2		PC	SN&SW		IOT	CC	EH	



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TIME TABLE

IV B.TECH I SEM

DEPT: CSE

A.Y:2023-24

DAY	9:30-10:25 AM	10:25-11:20 AM	11:20-11:30 AM	11:30-12:25 PM	12:25-01:20 PM	01:20-02:05 PM	02:05-03:00 PM	03:00-03:50 PM	03:50-04:40 PM
MON	IOT	EH	B R E A K	SN&SW	UHV-2	L U N C H B R E A K	CC	IOT	PC
TUE	PC	UHV-2		IOT	EH		CC	LIB	SN&SW
WED	IOT	SN&SW		PC	CC		UHV	SN&SW	EH
THU	PC	EH		SN&SW	CC		MST MODULE-II LAB		
FRI	UHV-2	CC		EH	PC		CC	EH	UHV-2
SAT	UHV-2	IOT		SN&SW	PC		CC	EH	IOT

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DEPARTMENT OF CIVIL ENGINEERING

FACULTY WORK LOAD

BRANCH: CIVIL

SEM: I

A.Y: 2023-24

S.NO	NAME OF THE FACULTY	SUBJECT NAME	YEAR/BRANCH/SEC	T+L
1	Dr. B SRIDHAR	SURVEYING & GEOMETRICS	II YEAR	1+1
		SFW-I LAB	II YEAR	
2	Dr. DEVABALAN N	DESIGN AND DRAWING OF CONCRETE STRUCTURES	III YEAR	1+1
		SKILL ORIENTED COURSE	II YEAR	
3	Mr. G. TULASIRAO	HIGHWAY ENGINEERING	II YEAR	1+1
		HE LAB	II YEAR	
4	Mr. MOHAMMAD UMAR	GEO TECHNICAL ENGINEERING - I	III YEAR	2+1
		DESIGN & DRAWING OF IRRIGATION STRUCTURES	IV YEAR	
		GEO TECHNICAL ENGINEERING LAB	III YEAR	
5	Mr. K P R K SAI KUMAR	REMOTE SENSING & GIS	III YEAR	1+1
		CONCRETE TECHNOLOGY LAB	II YEAR	
6	Mr. HARI NAGA VENKATA SAI	FLUID MECHANICS	II YEAR	1+1
		SFW-II LAB	III YEAR	
7	Mr. G BHARATH REDDY	GROUND IMPROVEMENT TECHNIQUES	IV YEAR	2+1
		URBAN TRANSPORTATION PLANNING	IV YEAR	
		SKILL ADVANCED COURSE	III YEAR	
8	Ms. M HEMA LATHA	STRENGTH OF MATERIALS - I	II YEAR	2+1
		STRUCTURAL ANALYSIS, SAC	III YEAR IV YEAR	

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R K COLLEGE OF ENGINEERING (AUTONOMOUS)



DEPARTMENT OF CIVIL ENGINEERING

FACULTY WORK LOAD

BRANCH: CIVIL

SEM: II

A.Y: 2023-24

S.NO	NAME OF THE FACULTY	SUBJECT NAME	YEAR/BRANCH/SEC	T+L
1	Dr. B SRIDHAR	WATER RESOURCE ENGINEERING	III YEAR	1
2	Dr. DEVABALAN N	ENVIRONMENTAL ENGINEERING	II YEAR	1+1
		ENVIRONMENTAL ENGINEERING LAB	II YEAR	
3	Mr. G. TULASIRAO	DESIGN & DRAWING OF STEEL STRUCTURES	III YEAR	1+1
		REMOTE SENSING & GIS LAB	III YEAR	
4	Mr. MOHAMMAD UMAR	GEO TECHNICAL ENGINEERING - II	III YEAR	1
5	Mr. K P R K SAI KUMAR	ESTIMATION, COSTING & CONTRACTS	III YEAR	1
6	Mr. HARI NAGA VENKATA SAI	HYDRAULICS & HYDRAULIC MACHINERY	II YEAR	1+1
		FM & HM LAB	II YEAR	
7	Mr. G BHARATH REDDY	CIVIL ENGINEERING PRACTICE	III YEAR	1+1
		SKILL ADVANCED COURSE	III YEAR	
8	Ms. M HEMA LATHA	STRENGTH OF MATERIALS -II	II YEAR	1+1
		STRENGTH OF MATERIALS LAB	II YEAR	
9	Mrs. R SRAVANTHI	TRAFFIC ENGINEERING	III YEAR	1+1
		SKILL ORIENTED COURSE	II YEAR	

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

FACULTY WORK LOAD

ACADEMIC YEAR:2023-2024

SEMESTER-I

S.NO	FACULTY NAME	SUBJECT NAME	Year/ Branch /Sec	TOTAL LOAD
1	Dr I SAIRAM	EA&M	II M.TECH I SEM	9
		PE&S LAB	I M.TECH I SEM	
2	M UDAY KIRAN	HEV	IV EEE	6
3	B R NARENDRA	SMPC	IV EEE	9
		PC LAB	I M.TECH I SEM	
4	B VEERA BABU	PS-II	III EEE	12
		SGP	II M.TECH ISEM	
5	SK ARIF	CS	III EEE	9
		CS LAB	III EEE	
6	SK NURILLA	UEE	III EEE	9
		EC SKILL COURSE	II EEE	
7	N.RADHIKA	DCM&T	II EEE	9
		DCM&T LAB	II EEE	
8	D DEVI VARA PRASAD	EMF	II EEE	12
		APEC	I M.TECH I SEM	
9	M JAYESH KUMAR	HVDC &FACTS	I M.TECH I SEM	12
		FACTS	IV EEE	
10	P V PATTABHIRAM	BEEE	I AI&ML	12
		BEEE LAB	I AI&ML	
11	P RAJESH	PE	III EEE	9
		PE LAB	III EEE	
12	CH JHANSI	ECA-II	II EEE	9
		EC LAB	II EEE	
13	Y BRAHAMAM	BEEE	I ECE	12
		BEEE LAB	I ECE	
14	R ARUN SAGAR	BEEE	I ECE	12
		BEEE LAB	I ECE	

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

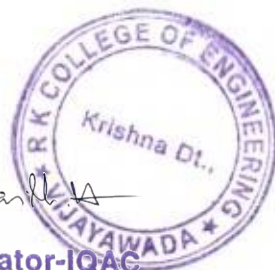
FACULTY WORK LOAD

ACADEMIC YEAR:2023-2024

SEMESTER-II

S.NO	FACULTY NAME	SUBJECT NAME	Year/ Branch /Sec	TOTAL LOAD
1	Dr I SAIRAM	SMPC	I M.TECH II SEM	9
		EDS LAB	I M.TECH II SEM	
2	M UDAY KIRAN	PS-1	II EEE	9
		BEEE LAB	ICSE	
3	B R NARENDRA	PEC&ED	I M.TECH II SEM	9
		ED LAB	I M.TECH II SEM	
4	B VEERA BABU	HEV	I M.TECH II SEM	12
		NA	I ECE	
5	SK ARIF	LCS	II ECE	9
		PROJECT	IV EEE	
6	SK NURILLA	MINI PROJECT	I M.TECH II SEM	9
		EMI	III EEE	
7	N.RADHIKA	PSA	III EEE	12
		BEEE	I CSE	
8	D DEVI VARA PRASAD	ISM	II EEE	9
		ISM LAB	II EEE	
9	M JAYESH KUMAR	ECA-I	I EEE	12
		IOT LAB	II EEE	
10	P V PATTABHIRAM	NA	I ECE	12
		BEEE	I CSE	
11	P RAJESH	BEEE	I DS	12
		BEEE LAB	I DS	
12	CH JHANSI	SGP	III EEE	12
		PS&S LAB	III EEE	
13	Y BRAHAMAM	NA	I ECE	6
14	R ARUN SAGAR	EMI LAB	III EEE	12
		NA LAB	I ECE	

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DEPARTMENT OF MECHANICAL ENGINEERING

FACULTY WORKLOAD(SEM-1) 2023-24

S.NO	FACULTY NAME	SUBJECT NAME	Year/ Branch /Sec	LOAD
1	Dr K KISHORE KUMAR	MACHINING,MACHINE TOOLS & METROLOGY	III B.TECH I SEM (R20)	1+1
		DRAFTING & MODELING LAB	II B.TECH I SEM(R20)	
2	Dr HARISH H	FLUID MECHANICS AND HYDRAULIC MACHINES	II B.TECH I SEM (R20)	1+1
		MECHATRONICS LAB	IV B.TECH I SEM(R20)	
3	Dr G NARENDRA SANTOSH KUMAR	PRODUCTION TECHNOLOGY -I	II DME III SEM (C20)	1+1
		PRODUCTION TECHNOLOGY LAB	II B.TECH I SEM(R20)	
4	Dr TATIKONDA NAMBAYA CHARYULU	THERMAL ENGINEERING -II	III B.TECH I SEM (R20)	1+1
		THERMAL ENGINEERING LAB	III B.TECH I SEM (R20)	
5	V SRI RAMA MURTHY	PRODUCTION PLANNING AND CONTROL	IV B.TECH I SEM(R20)	1+1
		FMHM LAB	II B.TECH I SEM(R20)	
6	CH D V NOOKARAJU	KINEMATICS OF MACHINERY	II B.TECH I SEM(R20)	1+1
		ENGINEERING WORKSHOP LAB (CSE-B)	I B.TECH I SEM(R23)	
7	CH PREM KUMAR	ENGINEERING GRAPHICS (ECE-B)	I B.TECH I SEM(R23)	1+1
		PRODUCTION TECHNOLOGY LAB	II B.TECH I SEM(R20)	
8	G MAHESH	MECHANICS OF SOLIDS	II B.TECH I SEM (R20)	1+1
		ENGINEERING WORKSHOP LAB (CSE-A)	I B.TECH I SEM(R23)	
9	M ANVESH	PRODUCTION TECHNOLOGY	II B.TECH I SEM(R20)	1+1
		ENGINEERING WORKSHOP LAB (CSE-C)	I B.TECH I SEM(R23)	
10	M SHIVA NAYAK	BASIC MECHANICAL ENGINEERING(CSE-B)	I B.TECH I SEM(R23)	1+1
		MECHATRONICS LAB	IV B.TECH I SEM(R20)	
11	B JOSEPH SATHYAPPAUL	ADDITIVE MANUFACTURING	IV B.TECH I SEM(R20)	1+1
		ENGINEERING WORKSHOP LAB (CSE-A)	I B.TECH I SEM(R20)	
12	M. MUNI KALI PAVAN	DESIGN OF MACHINE MEMBERS-I	III B.TECH I SEM (R20)	1+1
		MACHINE TOOLS LAB	III B.TECH I SEM (R20)	
13	LOGANATHAN T	BIO MEDICAL INSTRUMENTATION	IV B.TECH I SEM(R20)	1+1
		CAEDP LAB	II B.TECH I SEM (R20)	
14	T MUNI SANKAR	SUSTAINABLE ENERGY TECHNOLOGIES	III B.TECH I SEM(R20)	1+1
		DRAFTING & MODELING LAB	II B.TECH I SEM(R20)	
15	T ANBU	ENGINEERING GRAPHICS (DS)	I B.TECH I SEM(R20)	1+1
		MECHATRONICS LAB	IV B.TECH I SEM(R20)	
16	C DHATCHANAMOORTHY	ENGINEERING GRAPHICS (AIML)	I B.TECH I SEM(R23)	1+1
		FMHM LAB	II B.TECH I SEM(R20)	
17	E RAJESH	ENGINEERING GRAPHICS (ECE-A)	I B.TECH I SEM(R23)	1+1
		PRODUCTION TECHNOLOGY LAB	II B.TECH I SEM(R20)	
18	S GOVINDARAJI	UNCONVENTIONAL MACHNING PROCESS	IV B.TECH I SEM(R20)	1+1
		CAEDP LAB	II B.TECH I SEM (R20)	
19	SIVAKUMAR	BASIC MECHANICAL ENGINEERING(CSE-C)	I B.TECH I SEM(R23)	1+1
		ENGINEERING GRAPHICS (ECE-B)	I B.TECH I SEM(R23)	
20	T POOVENTHAN	RENEWABLE ENERGY SOURCES	III B.TECH I SEM(R20)	1+1
		ENGINEERING WORKSHOP LAB (CSE-C)	I B.TECH I SEM(R23)	
21	V VENU GOPAL	ENGINEERING GRAPHICS (ECE-B)	I B.TECH I SEM(R23)	1+1
		ENGINEERING WORKSHOP LAB (CSE-A)	I B.TECH I SEM(R20)	
22	U PICHANDI	ENGINEERING GRAPHICS (ECE-A)	I B.TECH I SEM(R23)	1+1
		ENGINEERING GRAPHICS (AIML)	I B.TECH I SEM(R23)	

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DEPARTMENT OF MECHANICAL ENGINEERING

FACULTY WORKLOAD(SEM-II) 2023-24

S.NO	FACULTY NAME	SUBJECT NAME	Year/ Branch /Sec	LOAD
1	Dr K KISHORE KUMAR	BASIC MECHANICAL ENGINEERING(ECE-B)	I B.TECH II SEM(R23)	1
2	Dr HARISH H	THERMAL ENGINEERING-I	II B.TECH II SEM(R20)	1
3	Dr G NARENDRA SANTOSH KUMAR	DESIGN OF MACHINE MEMBERS-II	III B.TECH II SEM(R20)	1
4	Dr TATIKONDA NAMBAYA CHARYULU	HEAT TRANSFER	III B.TECH II SEM(R20)	1
5	V SRI RAMA MURTHY	AUTOMOBILE ENGINEERING	III B.TECH II SEM(R20)	1
6	CH D V NOOKARAJU	DYNAMICS OF MACHINERY	III B.TECH II SEM(R20)	1+1
		MACHINE DRAWING PRACTICE	II B.TECH II SEM(R20)	
7	CH PREM KUMAR	ENGINEERING GRAPHICS (CSE-A)	I B.TECH II SEM(R23)	1+1
		MEASUREMENTS & METROLOGY LAB	III B.TECH II SEM(R20)	
8	G MAHESH	BASIC MECHANICAL ENGINEERING(DS)	I B.TECH II SEM(R23)	1+1
		THEORY OF MACHINES LAB	II B.TECH II SEM(R20)	
9	M ANVESH	MATERIAL SCIENCE & METALLURGY	II B.TECH II SEM(R20)	1+1
		ENGINEERING WORKSHOP LAB (AIML)	I B.TECH II SEM(R23)	
10	M SHIVA NAYAK	BASIC MECHANICAL ENGINEERING(AIML)	I B.TECH I SEM(R23)	1+1
		AI & ML LAB	III B.TECH II SEM(R20)	
11	B JOSEPH SATHYAPPAUL	ENGINEERING WORKSHOP LAB (ECE-B)	I B.TECH II SEM(R23)	1+1
		HEAT TRANSFER LAB	III B.TECH II SEM(R20)	
12	M. MUNI KALI PAVAN	OE-2	III B.TECH II SEM	1+1
		CAE&CAM LAB	III B.TECH II SEM(R20)	
13	LOGANATHAN T	BASIC MECHANICAL ENGINEERING(ECE-A)	I B.TECH II SEM(R23)	1+1
		MECHANICS OF SOLIDS AND METALLURGY LAB	II B.TECH II SEM(R20)	
14	T MUNI SANKAR	ENGINEERING GRAPHICS (CSE-C)	I B.TECH II SEM(R23)	1+1
		ENGINEERING WORKSHOP LAB (ECE-A)	I B.TECH II SEM(R23)	
15	T ANBU	ENGINEERING GRAPHICS (CSE-B)	I B.TECH II SEM(R23)	1+1
		BASIC MECHANICAL ENGINEERING(DS)	I B.TECH II SEM(R23)	
16	C DHATCHANAMOORTHY	ENGINEERING WORKSHOP LAB (DS)	I B.TECH II SEM(R23)	1+1
		BASIC MECHANICAL ENGINEERING(ECE-B)	I B.TECH II SEM(R23)	
17	E RAJESH	ENGINEERING GRAPHICS (CSE-A)	I B.TECH II SEM(R23)	1+1
		BASIC MECHANICAL ENGINEERING(DS)	I B.TECH II SEM(R23)	
18	S GOVINDARAJI	ENGINEERING WORKSHOP LAB (DS)	I B.TECH II SEM(R23)	1+1
		ENGINEERING GRAPHICS (CSE-B)	I B.TECH II SEM(R23)	
19	SIVAKUMAR	ENGINEERING WORKSHOP LAB (ECE-B)	I B.TECH II SEM(R23)	1+1
		ENGINEERING GRAPHICS (CSE-A)	I B.TECH II SEM(R23)	
20	T POOVENTHAN	ENGINEERING GRAPHICS (CSE-A)	I B.TECH II SEM(R23)	1+1
		ENGINEERING WORKSHOP LAB (ECE-B)	I B.TECH II SEM(R23)	
21	V VENU GOPAL	AI & ML LAB	III B.TECH II SEM(R20)	1+1
		MACHINE DRAWING PRACTICE	II B.TECH II SEM(R20)	
22	U PICHANDI	ENGINEERING GRAPHICS (CSE-A)	I B.TECH II SEM(R23)	1+1
		BASIC MECHANICAL ENGINEERING(DS)	I B.TECH II SEM(R23)	

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Faculty Work Load

Branch: ECE

Sem: II

A.Y.: 2023-24

S.No.	Name of the Faculty	Subject Name	Year/Branch/Sec	T+L
1	Dr V GAJENDRA KUMAR	Memory Architectures	I M.Tech	1+0
2	Dr MANJUNATH BE	Real Time Operating Systems	I M.Tech	1+1
		Real Time Operating Systems Lab	I M.Tech	
3	Dr SK KHASIM	Analog & Digital CMOS VLSI Design	I M.Tech	1+1
		Analog & Digital CMOS VLSI Design Lab	I M.Tech	
4	Dr P VAMSI KRISHNA	Communication Buses & Interfacing	I M.Tech	1+0
5	Dr R DIVYA	MP&MC	III ECE	1+1
		MP&MC Lab	III ECE	
6	V V G S RAJENDRA PRASAD	MP&MC	III ECE	1+1
		MP&MC Lab	III ECE	
7	B EDITH	VLSI Design	III ECE	1+1
		VLSI Design Lab	III ECE	
8	P MAHABOOB KHAN	VLSI Design	III ECE	1+1
		VLSI Design Lab	III ECE	
9	P NARASIMHA RAO	Analog Communications	II ECE	1+1
		Analog Communications Lab	II ECE	
10	SK JOHN SYDHA	Analog Communications	II ECE	1+1
		Analog Communications Lab	II ECE	
11	A RAMAMOHANA RAO	Mobile & Cellular Communication	III ECE	1+1
		Project Work	IV ECE	
12	D ARAVIND	Digital IC Design	II ECE	1+1
		Digital IC Design Lab	II ECE	

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Faculty Work Load

Branch: ECE

Sem: I

A.Y.: 2023-24

S.No.	Name of the Faculty	Subject Name	Year/Branch/Sec	T+L
1	Dr V GAJENDRA KUMAR	VLSI Signal Processing	I M.Tech	1+0
2	Dr MANJUNATH BE	RTL Simulation & Synthesis with PLDs	I M.Tech	1+1
		RTL Simulation & Synthesis with PLDs Lab	I M.Tech	
3	Dr SK KHASIM	Microcontrollers & Programmable DSP	I M.Tech	1+1
		Microcontrollers & Programmable DSP Lab	I M.Tech	
4	Dr P VAMSI KRISHNA	Programming Languages for Embedded Systems	I M.Tech	1+0
5	Dr R DIVYA	Optical Communication	IV ECE	1+1
		HFSS Tools	IV ECE	
6	V V G S RAJENDRA PRASAD	Radar Engineering	IV ECE	1+1
		HFSS Tools	IV ECE	
7	B EDITH	Satellite Communications	IV ECE	2+1
		Python Programming Lab	II ECE	
8	P MAHABOOB KHAN	Analog ICs and Applications	III ECE	2+1
		Analog ICs and Applications Lab	III ECE	
9	P NARASIMHA RAO	Switching Theory and Logic Design	II ECE	2+1
		Switching Theory and Logic Design Lab	II ECE	
10	SK JOHN SYDHA	Digital Communications	III ECE	2+1
		Digital Communications Lab	III ECE	
11	A RAMAMOHANA RAO	Random Variables and Stochastic Processes	II ECE	1+1
		Switching Theory and Logic Design Lab	II ECE	
12	D ARAVIND	Internet of Things	IV ECE	2+1
		Python Programming Lab	II ECE	

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FACULTY WORKLOAD (EVEN SEM)

A Y: 2023-24

S. No	Name of the faculty	Theory			LABORATORY			WORK LOAD
		Subject	Class	Load/week	Subject	Class	Load/week	
1	Dr.K.Rama Krishnaiah	FLAT	II CSE A&B	6	---	---	0	6
2	K.Koteswara Rao	ML	III CSE A&B	6	Machine Learning Using Python Lab	III CSE A&B	3	12
			---		MST LAB	III AIML	3	
3	Shabaz Shaik	Computer Networks	III AIML	6	CN Lab	III AIML	3	9
4	P.Sivarama Krishna	Compiler Design	III CSE A& B	6	CD Lab	III CSE A& B	3	9
5	B.Dharma Raju	DBMS	II CSE A	6	DBMS Lab	II CSE A	3	15


		OOAD	III CSE A&B	6	---		
6	D.Sudha Rani	FLAT	II AIML & DS	6	WEB APPLICATION DEVELOPMENT LAB	II AIML & II DS	3
	Sukanya	CNS	IV CSE	6	CNS LAB	IV CSE	3
		WEB TECHNOLOGIES	II AIML	6	WT LAB	II AIML	3
7	B.Santoshi	SPM	III AIML	6	---	---	9
8	Vijayasri	OOAD	III CSE	6	PANDAS LAB	II CSE A&B	3
							6

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ACTION PLAN FOR ACADEMIC YEAR 2023-24

SEMESTER - I


DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

JNTUK ACADEMIC CALANDER 2023-24


SEMESTER-I

S.NO.	ACTIVITY	DATES
1	COMMENCEMENT OF CLASS WORK	17-07-2023
2	I UNIT OF INSTRUCTIONS	17-07-2023 to 16-09-2023
3	I MID EXAMINATIONS	18-09-2023 to 23-09-2023
4	II UNIT OF INSTRUCTIONS	25-09-2023 to 25-11-2023
5	II MID EXAMINATIONS	27-11-2023 to 02-12-2023
6	PREPARATION AND PRACTICALS	04-12-2023 to 16-12-2023
7	END SEMESTER EXAMINATIONS	01-01-2024


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INSTITUTION ACADEMIC CALANDER 2023-24 SEMESTER-I

S.NO.	ACTIVITY	DATES
1	COMMENCEMENT OF CLASS WORK	17-07-2023
2	I UNIT OF INSTRUCTIONS	17-07-2023 to 16-09-2023
3	I MID EXAMINATIONS	18-09-2023 to 23-09-2023
4	SUBMISSION OF I MID MARKS TO UNIVERSITY ON OF BEFORE	28-09-2023
5	II UNIT OF INSTRUCTIONS	25-09-2023 to 25-11-2023
6	II MID EXAMINATIONS	27-11-2023 to 02-12-2023
7	PREPARATION AND PRACTICALS	04-12-2023 to 16-12-2023
8	SUBMISSION OF I MID MARKS TO UNIVERSITY ON OF BEFORE	21-12-2023
9	END SEMESTER EXAMINATIONS	01-01-2024


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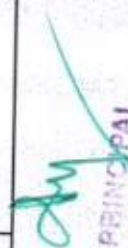

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A.C. WEEK NO.	DATE	WORK ACTIVITY PLANNED	ASSIGNED TO (IF APPLICABLE)	REMARKS
WEEK 0				
0	17-07-2023 To 22-07-2023	DEPARTMENT STAFF MEETING (REGARDING THE CLASS WORK COMMENCEMENT)	HOD	
		INFORMATION SENDING TO STUDENTS & PARENTS FOR ATTENDING CLASSES FROM STARTING	MENTORS	
		LAB MANUALS VERIFICATION	HOD& LAB INCHARGE	
		SUBJECT COURSE FILES VERIFICATION	HOD & INCHARGE	
WEEK -1				
1	24-07-2023 To 29-07-2023	CLASS WORK ANOUNCEMENT	HOD	
		ACADAMIC MEETING -01	HOD & FACULTY	
		DECIPLINE MEETING-01	HOD & IN CHARGE	
		INFORMATION PASSING TO PARENTS FOR ABSENTEES OF STUDENTS	MENTOR	


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WEEK -2		HOD
2	CR'S MEETING -01	HOD
	CHECKING OF REGULARITY OF STUDENTS FOR CLASSES	HOD & CLASS INCHARGE
	COUNSELLING OF IRREGULAR STUDENTS	CLASS MENTORS
WEEK-3		HOD
3	DEPARTMENT STAFF MEETING-2(TO SET PLANNING FOR SPECIAL ACTIVITES)	HOD
	VERBAL FEEDBACK-01	HOD
	MONTHLY REPORT -1 SUBMISSION TO PRINCIPAL	HOD
	SUBMISSION OF ASSIGNMENT OF UNIT -1	CONCERN SUBJECT FACULTY

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WEEK -4		WEEK -5		WEEK-6		WEEK-7		WEEK 8	
4	14-08-2023 To 19-08-2023	EVALUATION & SUBMISSION OF LAB RECORDS BY ALL STUDENTS	LAB INCHARGES	21-08-2023 To 26-08-2023	UNIT TEST	CONCERNED SUBJECT FACULTY	28-08-2023 To 02-09-2023	WRITTEN FEEDBACK -01	HOD
		MONTHLY REPORT -1 SUBMISSION TO PRINCIPAL	HOD		SUBMISSION OF ATTENDANCE REPORT	MENTORS & HOD		ANALYSIS OF FEED BACK AND ACTION TAKEN	HOD
		CLASS MENTORS AND CR'S MEETING -02 REGARDING DECIPLINE	FACULTY					1 ST RETEST OF UNIT TEST	MENTORS & HOD
5		SUBMISSION OF SYLLABUS COVERAGE	HOD & MENTORS	04-09-2023 To 09-09-2023	2 ND RETEST OF UNIT TEST	CONCERNED SUBJECTS FACULTY	11-09-2023 To 16-09-2023	SUBMISSION OF ASSIGNMENT FOR UNIT - II	CONCERNED SUBJECT FACULTY
								SPECIAL ACTIVITY-1	HOD & FACULTY

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WEEK 9			
9	18-09-2023 To 23-09-2023	SUBMISSION OF THE UNIT TEST MARKS WITH RETEST MARKS ALONG WITH IMPROVEMENTS DEPARTMENT STAFF MEETING -03	MENTORS HOD
WEEK 10			
10	25-09-2023 To 30-09-2023	WEAK STUDENTS IDENTIFICATION BASED ON ATTENDANCE ,UNIT TEST & 1st MID MARKS 1 MID EXAMINATIONS TARGETED RESULT OF SUBMISSION BY ALL FACULTY CONDUCTION OF REMEDIAL CLASSES FOR WEEK STUDENTS	MENTORS EXAM BRANCH MENTORS HOD & MENTORS

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WEEK 11			
11	03-10-2023 To 07-10-2023	VERBAL FEEDBACK-03 SUBMISSION OF ATTENDANCE	H.O.D MENTORS
WEEK 12			
12	09-10-2023 To 14-10-2023	DEPARTMENT STAFF MEETING & COUNSELING THE FACULTY LAB RECORDS SUBMISSION	H.O.D LAB IN-CHARGES
WEEK 13			
13	16-10-2023 To 21-10-2023	UNIT TEST-02 SUBMISSION OF ASSIGNMENTS FOR UNIT-III PLANNING OF SPECIAL ACTIVITY-2 WRITTEN FEEDBACK -02	CONCERNED FACULTY CONCERNED FACULTY HOD & FACULTY H.O.D
WEEK 14			
14	23-10-2023 To 28-10-2023	CONDUCTING PARENTS TEACHER MEETING FOR POOR ATTENDANCE & PERFORMANCE OF STUDENTS LAB INTERNAL-II	H.O.D & MENTORS LAB IN-CHARGES
WEEK 15			
15	30-10-2023 To 04-11-2023	1 ST RETEST OF UNIT TEST-02 REPORT ON REMEDIAL CLASSES	CONCERNED FACULTY H.O.D & MENTORS


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WEEK 16		WEEK 17		WEEK 18		WEEK 19		WEEK 20&21		WEEK 22&23		
16	06-11-2023 To 11-11-2023	DEPARTMENT STAFF MEETING	H.O.D	17	13-11-2023 To 18-11-2023	FINAL ATTENDANCE REPORT OF THE SEMESTER	MENTORS	18	20-11-2023 To 25-11-2023	MONTHLY REPORT SUBMISSION TO PRINCIPAL	H.O.D	
		FINAL SYLLABUS COVERAGE REPORT	MENTORS			FINAL SUBMISSION OF LAB RECORDS	LAB IN-CHARGES				PLANNING OF LAB EXTERNALS	LAB IN-CHARGES
		SUBMISSION OF ASSIGNMENTS FOR UNIT-5	CONCERNED FACULTY									
19	27-11-2023 To 02-12-2023	II MID EXAMINATIONS	EXAM BRANCH	20&21	04-12-2023 To 16-12-2023	PRACTICALS LAB EXAMS	LAB IN-CHARGES	22&23	18-12-2023 To 30-12-2023	PREPARATION FOR END EXAMS	FACULTY & MENTORS	
		PREPARATION	FACULTY & MENTORS									
END SEMESTER EXAMINATIONS												



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ACTION PLAN FOR ACADEMIC YEAR 2023-24

SEMESTER - II


DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

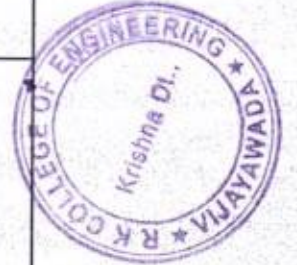
JNTUK ACADEMIC CALANDER 2023-24

SEMESTER-II

S.NO.	ACTIVITY	DATES
1	COMMENCEMENT OF CLASS WORK	01-01-2024
2	I UNIT OF INSTRUCTIONS	01-01-2024 to 24-02-2024
3	I MID EXAMINATIONS	26-02-2024 to 02-03-2024
4	II UNIT OF INSTRUCTIONS	04-03-2024 to 27-04-2024
5	II MID EXAMINATIONS	29-04-2024 to 04-05-2024
6	PREPARATION AND PRACTICALS	06-05-2024 to 18-05-2024
7	END SEMESTER EXAMINATIONS	20-05-2024 to 01-06-2024


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INSTITUTION ACADEMIC CALANDER 2023-24 SEMESTER-II

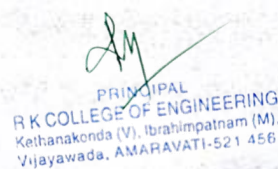
S.NO.	ACTIVITY	DATES
1	COMMENCEMENT OF CLASS WORK	01-01-2024
2	I UNIT OF INSTRUCTIONS	01-01-2024 to 24-02-2024
3	I MID EXAMINATIONS	26-02-2024 to 02-03-2024
4	SUBMISSION OF I MID MARKS TO UNIVERSITY ON OF BEFORE	07-03-2024
5	II UNIT OF INSTRUCTIONS	04-03-2024 to 27-04-2024
6	II MID EXAMINATIONS	29-04-2024 to 04-05-2024
7	PREPARATION AND PRACTICALS	06-05-2024 to 18-05-2024
8	SUBMISSION OF II MID MARKS TO UNIVERSITY ON OF BEFORE	09-05-2024
9	END SEMESTER EXAMINATIONS	20-05-2024 to 01-06-2024



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A.C. WEEK NO.	DATE	WORK ACTIVITY PLANNED	ASSIGNED TO (IF APPLICABLE)	REMARKS
WEEK 0				
0	25-12-2023 TO 30-12-2023	DEPARTMENT STAFF MEETING (REGARDING THE CLASS WORK COMMENCEMENT)	HOD	
		INFORMATION SENDING TO STUDENTS & PARENTS FOR ATTENDING CLASSES FROM STARTING	MENTORS	
		LAB MANUALS VERIFICATION	HOD & LAB INCHARGE	
		SUBJECT COURSE FILES VERIFICATION	HOD & INCHARGE	
WEEK -1				
1	01-01-2024 TO 06-01-2024	CLASS WORK ANOUNCEMENT	HOD	
		ACADAMIC MEETING -01	HOD & FACULTTY	
		DECIPLINE MEETING-01	HOD & IN CHARGE	
		INFORMATION PASSING TO PARENTS FOR ABSENTEES OF STUDENTS	MENTOR	


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WEEK -2		
	CR'S MEETING -01	HOD
	CHECKING OF REGULARITY OF STUDENTS FOR CLASSES	HOD & CLASS INCHARGE
	COUNSELLING OF IRREGULAR STUDENTS	CLASS MENTORS
WEEK-3		
	DEPARTMENT STAFF MEETING-2(TO SET PLANNING FOR SPECIAL ACTIVITES)	HOD
	VERBAL FEEDBACK-01	HOD
	MONNTHLY REPORT -1 SUBMISSION TO PRINCIPAL	HOD
	SUBMISSION OF ASSIGNMENT OF UNIT -1	CONCERN SUBJECT FACULTY




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WEEK -4		LAB INCHARGES
4	22-01-2024 TO 27-01-2024	HOD
		FACULTY
WEEK -5		
5	29-01-2024 TO 03-02-2024	CONCERNED SUBJECT FACULTY
		MENTORS&HOD
WEEK-6		
6	05-02-2024 TO 10-02-2024	HOD
		HOD
		MENTORS & HOD
WEEK-7		
7	12-02-2024 TO 17-02-2024	HOD & FACULTY
		HOD & MENTORS
		CONCERNED SUBJECTS FACULTY
WEEK 8		
8	19-02-2024 TO 24-02-2024	CONCERNED SUBJECT FACULTY
		HOD & INCHARGES



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WEEK 9		EXAM BRANCH
9	1 MID EXAMINATIONS	
	SUBMISSION OF THE UNIT TESTMARKS WITH RETEST MARKS ALONG WITH IMPROVEMENTS	MENTORS
	DEPARTMENT STAFF MEETING -03	HOD
	1 MID MARKS SUBMISSIONS	CONCERNED FACULTY
WEEK 10		
10	WEAK STUDENTS IDENTIFICATION BASED ON ATTENDANCE ,UNIT TEST & 1st MID MARKS	MENTORS
	TARGETED RESULT OF SUBMISSION BY ALL FACULTY	MENTORS
	CONDUCTION OF REMEDIAL CLASSES FOR WEEK STUDENTS	HOD & MENTORS

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WEEK 11	
11	11-03-2024 TO 16-03-2024 VERBAL FEEDBACK-03 SUBMISSION OF ATTENDANCE H.O.D MENTORS
WEEK 12	
12	18-03-2024 TO 23-03-2024 DEPARTMENT STAFF MEETING & COUNSELING THE FACULTY LAB RECORDS SUBMISSION H.O.D LAB IN-CHARGES
WEEK 13	
13	UNIT TEST-02 SUBMISSION OF ASSIGNMENTS FOR UNIT-III 25-03-2024 TO 30-03-2024 PLANNING OF SPECIAL ACTIVITY-2 WRITTEN FEEDBACK -02 CONCERNED FACULTY CONCERNED FACULTY HOD & FACULTY H.O.D
WEEK 14	
14	CONDUCTING PARENTS TEACHER MEETING FOR POOR ATTENDANCE & PERFORMANCE OF STUDENTS 01-04-2024 TO 06-04-2024 LAB INTERNAL-II H.O.D & MENTORS LAB IN-CHARGES
WEEK 15	
15	1 ST RETEST OF UNIT TEST-02 08-04-2024 TO 13-04-2024 REPORT ON REMEDIAL CLASSES CONCERNED FACULTY H.O.D & MENTORS


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WEEK 16		H.O.D	
16	DEPARTMENT STAFF MEETING	MENOTRS	
	FINAL SYLLABUS COVERAGE REPORT	CONCERNED FACULTY	
	SUBMISSION OF ASSIGNMENTS FOR UNIT-5	MENTORS	
	FINAL ATTENDANCE ROPRT OF THE SEMESTER	LAB IN-CHARGES	
	FINAL SUBMISSION OF LAB RECORDS		
WEEK 17		H.O.D	
17	MONTHLY REPORT SUBMISSION TO PRINCIPAL	LAB IN-CHARGES	
	PLANNING OF LAB EXTERNALS		
WEEK 18		EXAM BRANCH	
18	II MID EXAMINATIONS	FACULTY & MENTORS	
	PREPARATION	HOD & IN-CHARGES	
	PROJECT REVIEW - 2		
WEEK 19&20		LAB IN-CHARGES	
19&20	PRACTICALS LAB EXAMS	FACULTY & MENTORS	
	PREPARATION FOR END EXAMS		
WEEK 21&22		END SEMESTER EXAMINATIONS	
21&22	20-05-2024 TO 01-06-2024		

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Course Handout

Name of the Program: B.Tech
Year & Semester: III & II
Name of the Course: EMI
Name of the Faculty: K.LAKSHMI GANESH

Dept.: EEE
Section:---
Course Code :

Academic Year:2023-24
No of Credits:3
Regulation:R20
Designation: Assistant
Professor

PART-A

Course Syllabus Unit Wise:

UNIT - I Analog Ammeter and Voltmeters

Classification – deflecting - control and damping torques - – PMMC - moving iron type and electrostatic instruments - Construction - Torque equation - Range extension - Errors and compensations - advantages and disadvantages. Instrument transformers: Current Transformer and Potential Transformer-construction - theory - errors- Numerical Problems.

UNIT - II Analog Wattmeters and Power Factor Meters

Electrodynamometer type wattmeter (LPF and UPF) - Power factor meters: Dynamometer and M.I type (Single phase and Three phase) - Construction - theory - torque equation - advantages and disadvantages. Potentiometers: Introduction to DC and AC Potentiometers – Construction-working – Applications - Numerical Problems.

UNIT - III Measurements of Electrical parameters

DC Bridges: Method of measuring low - medium and high resistance - sensitivity of Wheat stone's bridge - Kelvin's double bridge for measuring low resistance - Loss of charge method for measurement of high resistance - Megger – measurement of earth resistance - Numerical Problems.

AC Bridges: Measurement of inductance and quality factor - - Maxwell's bridge - - Hay's bridge - - Anderson's bridge. Measurement of capacitance and loss angle - - Desauty's bridge - Schering Bridge - Wien's bridge - Wagner's earthing device - - Numerical Problems.

UNIT - IV Transducers

Definition - Classification - Resistive - Inductive and Capacitive Transducer - LVDT - Strain Gauge - Thermistors - Thermocouples - Piezo electric and Photo Diode Transducers - Hall effect sensors Numerical Problems.

UNIT - V Digital meters

Digital Voltmeters – Successive approximation DVM - Ramp type DVM and Integrating type DVM – Digital frequency meter - Digital multimeter - Digital tachometer - Digital Energy Meter - Q meter - Power Analyzer. CRO- measurement of phase difference & Frequency using Lissajous patterns - Numerical Problems.

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PART-B

COURSE OBJECTIVES

At the end of the Course/Subject, the students will:

S. No	Course Objectives
1	To understand and analyze the factors that effect the various measuring units
2	To choose the appropriate meters for measuring of voltage, current, power, power factor and energy qualities & understand the concept of standardization
3	Describe the operating principle of AC & DC bridges for measurement of resistance, inductance and capacitance.
4	To understand the concept of the transducer and their effectiveness in converting from one form to the other form for the ease of calculating and measuring purposes.
5	To understand the operating principles of basic building blocks of digital systems, record and display units.

COURSE OUTCOMES (COs): At the end of the course, students are able to


CO1	Know the construction and working of various types of analog instruments
CO2	Describe the construction and working of wattmeter and power factor meters
CO3	Know the construction and working various bridges for the measurement resistance – inductance and capacitance
CO4	Know the operational concepts of various transducers
CO5	Know the construction and operation digital meters


COURSE ARTICULATION MATRIX (Correlation between COs, Pos & PSO's):

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	2	2						2	2	2	2	
CO2	2	2	2	2	2						2	2	2	2	
CO3	2	2	2	2	2						2	2	2	2	
CO4	2	2	2	2	2						2	2	2	2	
CO5	2	2	2	2	2						2	2	2	2	

Note: Enter Correlation Levels 1or2or3.If there is no correlation, put 0.

1-Slight (Low), 2-Moderate (Medium), 3-Substantial(High).

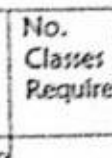

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PART-C

COURSE DELIVERY PLAN (LESSON PLAN):

UNIT-I:

S. No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching & Learning Methods	HOD/PPL Sign
1.	Introduction to UNIT-I	1	2/1/24	2/1/24	CBT	
2.	Classification - deflecting - control and damping torques	1	3/1/24	3/1/24	CBT	
3.	PMMC -Construction - Torque equation - Working	1	5/1/24	5/1/24	CBT	
4.	PMMC- Advantages and disadvantages - errors and compensations	1	6/1/24	6/1/24	CBT	
5.	MI -Types- Attraction type - Construction - Working	1	6/1/24	6/1/24	CBT	
6.	MI -Types- Repulsion type - Construction - Working	1	8/1/24	8/1/24	CBT	
7.	MI- Torque Equation	1	9/1/24	9/1/24	CBT	
8.	MI- Advantages and disadvantages - errors and compensations	1	10/1/24	10/1/24	CBT	
9.	Range extension of DC Ammeter	1	12/1/24	12/1/24	CBT	
10.	Range extension of DC Voltmeter	1	22/1/24	6/2/24	CBT	
11.	Problems of Range extension	1	23/1/24	6/2/24	CBT	
12.	Instrument transformers: Current Transformer - construction - Working	1	24/1/24	7/2/24	CBT	
13.	Instrument transformers: Potential Transformer- construction - Working	1	27/1/24	9/2/24	CBT	
14.	Theory of CT-	1	27/1/24	12/2/24	CBT	
15.	Theory of PT	1	29/1/24	12/2/24	CBT	
16.	Errors	1	30/1/24	14/2/24	CBT	
17.	Errors	1	30/1/24	14/2/24	CBT	
18.	Numerical Problems	1	2/2/24	17/2/24	CBT	
19.	Numerical Problems	1	2/2/24	17/2/24	CBT	
No. of classes required to complete UNIT-I: 16			No. of classes taken 19			

UNIT-II:

S. No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	HOD/PPL Sign
1.	Electrodynamometer type wattmeter - LPF type - Construction theory of operation	1	3/2/24	20/2/24	CBT	
2.	Electrodynamometer type	1	5/2/24			

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	wattmeter - LPF type - Construction - torque equation- advantages and disadvantages	2	6/2/24	20/2/24	C&T
3.	Electrodynamometer type wattmeter - UPF type - Construction - theory of operation	} 1	7/2/24	21/2/24	C&T
4.	Electrodynamometer type wattmeter - UPF type - Construction - torque equation- advantages and disadvantages		9/2/24	21/2/24	C&T
5.	Power factor meters: Dynamometer (Single phase and) - Construction - theory - torque equation - advantages and disadvantages.	} 1	12/2/24	22/2/24	C&T
6.	Power factor meters: Dynamometer (Three phase) - Construction - theory - torque equation - advantages and disadvantages.		13/2/24	22/2/24	C&T
7.	Power factor meters: MI Type (Single phase) - Construction - theory - torque equation - advantages and disadvantages.	} 1	14/2/24	22/2/24	C&T
8.	Power factor meters: MI Type (Three phase) - Construction - theory - torque equation - advantages and disadvantages		16/2/24	22/2/24	C&T
9.	Introduction to Potentiometers	1	17/2/24	23/2/24	C&T
10.	DC Potentiometers Construction-working	1	17/2/24	24/2/24	C&T
11.	AC Potentiometers Construction-working	1	19/2/24	24/2/24	C&T
12.	Applications of DC and AC potentiometers	1	20/2/24	26/2/24	C&T
13.	Problems on Wattmeters	} 1	21/2/24	} 27/2/24	C&T
14.	Problems on Wattmeters		23/2/24		
15.	Problems on Wattmeters		23/2/24		
16.	Problems on Potentiometers	} 1	24/2/24	} 27/2/24	C&T
17.	Problems on Potentiometers		24/2/24		
18.	Problems on Potentiometers		24/2/24		
No. of classes required to complete UNIT-II:			18		

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Total classes taken: 18

UNIT-III:

S. No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	HOD/PPL Sign
1.	Introduction to DC Bridges	1	26/2/24	6/3/24	C&T	
2.	DC Bridges: Method of measuring low - medium and high resistance	1	27/2/24	11/3/24	C&T	
3.	DC Bridges: Method of measuring low - medium and high resistance	1	28/2/24	11/3/24	C&T	
4.	sensitivity of Wheat stone's bridge	1	1/3/24	11/3/24	C&T	
5.	Kelvin's double bridge for measuring low resistance	1	2/3/24	12/3/24	C&T	
6.	Loss of charge method for measurement of high resistance	1	2/3/24	12/3/24	C&T	
7.	Megger -Construction-types	1	4/3/24	13/3/24	C&T	
8.	measurement of earth resistance	1	5/3/24	13/3/24	C&T	
9.	Numerical Problems on DC Bridges	1	6/3/24	13/3/24	C&T	
10.	Numerical Problems on DC Bridges	1	11/3/24	14/3/24	C&T	
11.	Introduction to AC Briges	2	12/3/24	14/3/24	C&T	
11.	AC Bridges: Measurement of inductance and quality factor		13/3/24	14/3/24	C&T	
12.	Maxwell's bridge	1	15/3/24	16/3/24	C&T	
	Hay's bridge	1	16/3/24	16/3/24	C&T	
13.	Anderson's bridge	1	16/3/24	18/3/24	C&T	
14.	Measurement of capacitance and loss angle - Desauty's bridge	1	18/3/24	19/3/24	C&T	
15.	Schering Bridge	1	19/3/24	20/3/24	C&T	
16.	Wien's bridge	1	20/3/24	21/3/24	C&T	
17.	Wagner's earthing device	1	22/3/24	22/3/24	C&T	
18.	Numerical Problems	1	23/3/24	23/3/24	C&T	
19.	Numerical Problems	1	23/3/24	21/4/24	C&T	
No. of classes required to complete UNIT-III:			180	No. of classes taken: 19		


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UNIT-IV:

S. No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	HOD/PPL Sign
1.	Introduction to transducers	1	26/3/24	2/4/24	C&T	
2.	Definition - Classification	1	27/3/24	2/4/24	C&T	
3.	Resistive Transducer	1	30/3/24	3/1/24	C&T	
4.	Inductive and Capacitive Transducer	1	30/3/24	3/1/24	C&T	
5.	LVDT	1	1/4/24	4/4/24	C&T	
6.	Strain Gauge	1	2/4/24	4/4/24	C&T	
7.	Thermistors	1	3/4/24	6/4/24	C&T	
8.	Thermocouples	1	6/4/24	8/4/24	C&T	
9.	Piezo electric Transducers	1	6/4/24	10/4/24	C&T	
10.	Photo Diode Transducers	1	8/4/24	15/4/24	C&T	
11.	Hall effect sensors	1	12/4/24	12/4/24	C&T	
12.	Numerical Problems.	1	15/4/24	16/4/24	C&T	
13.	Numerical Problems.	1	15/4/24	18/4/24	C&T	
14.	Numerical Problems.	1	17/4/24	18/4/24	C&T	
No. of classes required to complete UNIT-IV:			14	No. of classes taken:		14

UNIT-V:

S. No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	HOD/PPL Sign
1.	Digital Voltmeters	1	16/4/24	19/4/24	C&T	
2.	Successive approximation DVM	1	16/4/24	20/4/24	C&T	
3.	Ramp type DVM	1	19/4/24	20/4/24	C&T	
4.	Integrating type DVM	1	20/4/24	22/4/24	C&T	
5.	Digital frequency meter	1	20/4/24	23/4/24	C&T	
6.	Digital multimeter	1	22/4/24	23/4/24	C&T	
7.	Digital tachometer	1	23/4/24	23/4/24	C&T	
8.	Digital Energy Meter	1	24/4/24	23/4/24	C&T	
9.	Q meter	1	25/4/24	24/4/24	C&T	
10.	Power Analyzer	1	27/4/24	25/4/24	C&T	
11.	CRO- measurement of phase difference & Frequency using lissajious patterns	1	27/4/24	25/4/24	C&T	
12.	CRO- measurement of phase difference & Frequency using lissajious patterns	1	29/4/24	26/4/24	C&T	
13.	Numerical Problems	1	30/4/24	26/4/24	C&T	
14.	Numerical Problems	1	1/5/24	27/4/24	C&T	
No. of classes required to complete UNIT-V:			14	No. of classes taken:		14

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Delivery/Instructional Methodologies:

- Chalk & Talk
- PPT
- Student Assignment
- Web Resources

Mention Gaps Identified if any:

(Missing Content of syllabus / Industry/Profession Requirements)

S No	Description	Proposed action
1.	—	—

Topics beyond Syllabus/Advanced Topics/Design:

S No	Description	Proposed action
1.	—	—

Course Outcome Learning Assessment Methodologies

I. Direct

- Assignments
- Tests/Model exams
- MID. Examination

II. Indirect

Assessment of Course Outcomes (By Feedback, Once at end of course)
Student Feedback on Faculty

Innovative Teaching/Learning/Evaluation Processes:

1. Asking questions to students related to previous topics which are taught earlier.
2. Brief conclusion of the topics taught at the end of the class.
3. Mentioning of the topics to be taught in the next class.

Text Books:

1. Electrical Measurements and measuring Instruments by E.W. Golding and F.C.Widdis - 5 th Edition - Wheeler Publishing.
2. Modern Electronic Instrumentation and Measurement Techniques by A.D. Helfrick and W.D. Cooper - PHI - 5 th Edition - 2002.

Prescribed Reference Books:

1. Electrical & Electronic Measurement & Instruments by A.K.Sawhney Dhanpat Rai & Co. Publications - 19th revised edition - 2011.
2. Electrical and Electronic Measurements and instrumentation by R.K.Rajput - S.Chand - 3 rd edition.

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3. Electrical Measurements by Buckingham and Price - Prentice - Hall 4. Electrical Measurements by Forest K. Harris, John Wiley and Son


Web Resources / Links:

W1. <https://archive.nptel.ac.in/courses/108/105/108105153/>


W2. <https://archive.nptel.ac.in/courses/108/105/108105064/>


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ELECTRICAL MEASUREMENTS AND INSTRUMENTATION
IMP QUESTIONS

III B.TECH II SEMESTER

AY 2023-2024

EEE DEPT

UNIT-I

1. a) Explain the construction and operation of moving iron instruments.
b) The range of 1mA ammeter having an internal resistance of 100 ohms is to be extended to 100 mA ammeter. Calculate the value of the resistance of required shunt.
2. Explain the construction and operation of a PMMC meter with the help of a neat sketch & also derive the torque equation.
3. a) List the difference between Current transformer and Potential transformer.
b) Explain the use of instrument transformers and list the advantages and disadvantages.
4. a) Explain about extension of instrument ranges.
b) Find the deflection of a moving iron ammeter having the following data control spring constant $= 8 \times 10^{-6}$, current is 6 A and $L = 6 + 3\theta - 0.5\theta^2 \mu\text{H}$.
5. a) Explain the following terms related to PT and CT. i) Transformation ratio. ii) Turns ratio iii) Ratio correction factor.
b) Derive the expressions for the ratio and phase angle errors of a CT.
6. a) Explain the following control mechanisms used in indicating instruments: i) Gravity control ii) Spring control
b) Explain the construction and working of a current transformer with a neat equivalent circuit.
7. Explain the following damping systems used in indicating instruments:
i) Air friction damping ii) Fluid friction damping iii) Eddy current damping
iv) Electromagnetic damping
8. Explain the working of Electrostatic instruments and derive the force and torque equations of Electrostatic instruments.
9. What are the advantages and disadvantages of PMMC and Moving Iron instruments.
10. What are the errors in PMMC & MI instruments

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UNIT-II

1. Illustrate the constructional features of single phase Dynamometer wattmeter.
2. a) What are the applications of DC potentiometer?
b) Explain the working principle of co-ordinate type AC Potentiometer.
3. Explain the principle and operation of DC Crompton's potentiometer.
4. a) With neat figures, explain the construction and working principle of three phase wattmeter.
b) State the disadvantages of Dynamometer type wattmeter.
5. a) Explain the working principle DC potentiometer.
b) Explain the operation of polar type AC potentiometer.
6. a) Explain constructional details and working principle of three phase Electro dynamometer power factor meter.
b) Describe the constructional details and working of a single phase electro-dynamometer type of power factor meter.
7. Explain the constructional features of LPF Dynamometer type wattmeter.
8. Explain the MI type power factor type meter of any one type.
9. What are the advantages and disadvantages of electro dynamic type wattmeters.
10. What are the applications of DC potentiometers and AC potentiometers.

UNIT-III

1. a) Explain how the inductance can be measured by using Maxwell bridge with a neat diagram.
b) Explain in detail the loss of charge method for measurement of high resistance.
2. a) Derive the balancing equation of Anderson Bridge with neat phasor diagram.
b) In Hay's bridge the four arms are arranged as under: AB is a resistance of 600Ω in series with an inductor of 0.18 H , BC and DA are non-inductive resistances of 1200 ohms each and CD consists of a resistance R in series with a capacitor C . A potential difference of 3V at a frequency of 50Hz is applied between A and C. Determine the values of R and C . Derive the condition for bridge balance.
3. a) What are the applications of wheat stone bridge? Explain any one application.
b) Derive the balancing equation of Kelvin double bridge.
4. a) Explain about Schering Bridge, with neat diagram.
b) The impedances of an AC bridge are $Z_1=400\Omega \angle 50^\circ$; $Z_2=200\Omega \angle 40^\circ$; $Z_3=800\Omega \angle -50^\circ$; $Z_4=400\Omega \angle 20^\circ$ Find out whether bridge is balanced under these conditions or not.
5. a) Describe the circuit of Kelvin double bridge used for measurement of low resistance.
b) Derive the balancing equation of wheat stone bridge.
6. a) Show how the Wien's bridge can be used for the measurement of frequency in audio range.
7. a) Explain about Desauty's bridge with neat diagram.
b) Explain the loss of charge method for measurement of high resistance.


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8. Explain about Schering Bridge, with neat diagram?
9. a) Explain the loss of charge method for measurement of insulation resistance of the cables.
10. a) Explain the working of Hay's bridge for measurement of inductance and derive the necessary equation under balanced condition.
b) Explain the working of Wagner Earth device and give its significance
11. a) Derive the condition for balance for a Kelvin's double bridge for measurement of low resistance
b) List the difficulties encountered in measurement of high resistances?
12. a) Explain how an unknown capacitance can be measured by using a Schering bridge.
b) List and explain the various sources of errors in ac bridges.

UNIT-IV

1. a) Describe the principle and working of capacitive transducer.
b) Describe the construction and principle of thermocouples.
2. a) What are thermistors? Compare resistance temperature characteristics of a typical thermistor and platinum.
b) Explain in detail the Hall effect sensors
3. a) Explain the principle and working of LVDT transducer.
b) Describe the method of measurement of different pressure using an inductive transducer.
4. a) Describe the working of Piezo electric transducers
b) A transducer that measures force has a normal resistance of 300Ω , forms a four arm strain gauge bridge and is excited by 7.5V DC. When the force of 0.1N is applied, all the four strain gauge resistances are changed by 5.2Ω . Find the output voltage and determine its sensitivity.
5. a) With the help of characteristics discuss the principle of operation of LVDT and its advantages.
b) An LVDT with a secondary voltage of 5V has a range of $\pm 25\text{mm}$. i) Find the output voltage when the core is -18.75mm from centre, ii) Plot the output voltage versus core position for a core movement going from $+18.75\text{mm}$ to -10mm .
6. a) What are Thermistors? Explain the working, construction and applications of Thermistors.
b) Describe the construction and working of the following types of transducers (i) Photo Diode (ii) Piezoelectric
7. a) Explain the construction and working principle of a thermocouple.
b) Describe the advantages, disadvantages and applications of thermocouple.
8. a) Describe the method of measurement of different pressure using an inductive transducer.
b) A transducer that measures force has a normal resistance of 300Ω , forms a four arm strain gauge bridge and is excited by 7.5V DC. When the force of 0.1N is applied, all the four strain gauge resistances are changed by 5.2Ω . Find the output voltage

and determine its sensitivity.


9. a) Explain the following: i) Inductive transducers ii) Thermistors.
b) What is a Hall effect Sensors and give its advantages and disadvantages.
10. a) What is a Strain Gauge and explain the theory behind it with respect to the change in dimensions.

UNIT-V

1. a) Explain with a neat block diagram of a successive approximation digital voltmeter.
b) Explain about Ramp type DVM with neat diagram?
2. a) Describe the working of a frequency meter.
b) State the features of digital meter.
3. a) Explain the basic scheme of Digital multimeter along with its advantages.
b) Explain with neat circuit diagram the working of any one type of digital voltmeter.
4. a) Write steps to measure phase and frequency with help of CRO.
b) Compare Analog meter and Digital meters on the basis of i) Display, ii) Resolution,
iii) Functions available iv) Power consumption.
5. a) Compare ramp type and integrating type DVM.
b) Explain with the help of a functional block diagram, the principle of operation of a digital frequency meter.
6. a) Discuss the advantages of a digital voltmeter over an analog voltmeter.
b) Explain the principle of operation of Q-meter.
7. a) Explain with a neat block diagram of a successive approximation digital voltmeter.
b) With the help of a functional block diagram, describe the principle Of operation of a Digital Multimeter.
8. a) Discuss about the electrostatic focusing deflection system of a CRO with necessary diagrams.
b) With the help of a functional block diagram, describe the principle of operation of a Digital Energy Meter.
- 9 a) Explain the working of Integrating type digital Voltmeter with a neat block diagram
b) Explain the main parts of a cathode ray tube
- 10 a) Explain the working of a Digital Energy meter with a neat block diagram
b) Explain how phase and frequency can be measured by Lissajous patterns



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UNIT-I

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2. Explain the construction and operation of a PMMC meter with the help of a neat sketch & also derive the torque equation.
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7. Explain the following control mechanisms used in indicating instruments: i) Gravity control ii) Spring control
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i) Air friction damping ii) Fluid friction damping iii) Eddy current damping
iv) Electromagnetic damping
9. Explain the working of Electrostatic instruments and derive the force and torque equations of Electrostatic instruments.

UNIT-II

1. Illustrate the constructional features of single phase Dynamometer wattmeter.
- 2 Explain the principle and operation of DC Crompton's potentiometer.
3. With neat figures, explain the construction and working principle of three phase wattmeter.
4. Explain the working principle DC potentiometer and Explain the operation of polar type AC potentiometer.
5. Explain constructional details and working principle of three phase Electro
6. Explain the constructional features of LPF Dynamometer type wattmeter.
7. Explain the MI type power factor type meter of any one type.

UNIT-III

1. Explain how the inductance can be measured by using Maxwell bridge with a neat diagram.
2. Derive the balancing equation of Anderson Bridge with neat phasor diagram.
- 3 Derive the balancing equation of Kelvin double bridge.
- 4 Describe the circuit of Kelvin double bridge used for measurement of low resistance.



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5. Derive the balancing equation of wheat stone bridge.
6. Explain about Desauty's bridge with neat diagram.
7. Explain about Schering Bridge, with neat diagram?
8. a) Explain the loss of charge method for measurement of insulation resistance of the cables.
9. Explain how an unknown capacitance can be measured by using a Schering bridge.

UNIT-IV

1. What are thermistors? Compare resistance temperature characteristics of a typical thermistor and platinum.
2. Explain in detail the Hall effect sensors
3. Explain the principle and working of LVDT transducer.
4. Describe the working of Piezo electric transducers
5. Describe the construction and working of the following types of transducers (i) Photo Diode (ii) Piezoelectric
7. Explain the construction and working principle of a thermocouple. And describe the advantages, disadvantages and applications of thermocouple.
8. What is a Strain Gauge and explain the theory behind it with respect to the change in dimensions.

UNIT-V

1. Explain with a neat block diagram of a successive approximation digital voltmeter.
2. Explain about Ramp type DVM with neat diagram?
3. Explain with the help of a functional block diagram, the principle of operation of a digital frequency meter
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5. Write steps to measure phase and frequency with help of CRO.
6. Compare ramp type and integrating type DVM.
7. Explain the principle of operation of Q-meter.
8. Discuss about the electrostatic focusing deflection system of a CRO with necessary diagrams.
9. With the help of a functional block diagram, describe the principle of operation of a Digital Energy Meter.
10. Explain the working of a Digital Energy meter with a neat block diagram

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