



1.3.3. Percentage of programmes that have components of field projects/ research projects/ internships during the last five years.



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College Code: R9

Guidelines for Summer Internship

(Applicable for the batches admitted from 2020-2021 and 2021-22 of TKREC R20 Regulations)

Introduction

Internship is an integral part of the academic curriculum. It is a learning activity that enhances and deepens the theoretical knowledge and skills attained in the classroom through practical application. This facilitates:

- ❖ Acquisition of practical skills such as observation, research, and information processing.
- ❖ Familiarization with the objectives and urgent issues of the sector the student is specializing in.
- ❖ Attainment of necessary employability skills.

The internship offers students an opportunity to gain hands on industrial or organizational exposure, integrate the knowledge and skills acquired through coursework, interact with professionals and other interns, and improve their presentation, writing, and communication skills. For many students, an internship often acts as a gateway to final placement.

Objectives

Industrial Exposure: Experience the industrial environment, which cannot be simulated in the classroom, to create competent professionals for the industry.

Skill Development: Provide opportunities to learn, understand, and sharpen Realtime technical and managerial skills required on the job.

Technological Awareness: Stay abreast of current technological developments relevant to the subject area of training.

Knowledge Application: Foster a quest for knowledge and its applicability in a job setting.

Guidelines to Apply for Internship and Academic Credentials

The following framework is designed to give academic credit for internships undertaken as part of the program:

Internship Types: Internships may be fulltime during the summer break or parttime /virtual during the academic session.



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Internship Centre Role: The Internship Centre at TKREC identifies opportunities with various industries, NGOs, startups, external institutes, and government organizations

Opportunity Sharing: Available opportunities are shared with students, and the centre facilitates campus/off campus/online selection processes for companies hiring interns

Tracking and Records: The Internship Centre, along with each department's internship coordinator, maintains internship records and statistics.

Recommendation Letters: The centre issues recommendation letters to students for obtaining various external internships.

Completion Certificates: The centre issues internship completion certificates for inhouse internships.

Internship Opportunities during Semester Breaks

External Internships

- ❖ Industry Internship: With or without a stipend.
- ❖ Government / PSU Internship: NSIC, CIRD, CDAC, BARC, Railways, ISRO, etc.
- ❖ NGO / Social Internship
- ❖ Family Business Internship
- ❖ External Academic Internship: With outside institutes or professors.
- ❖ Startup Internship: With startups or monitored incubation centres.
- ❖ Industrial Training Programs: Organized by external entities.
- ❖ Other Approved Internships: Any other internship approved by the concerned authorities.

These guidelines are designed to ensure that students gain valuable experience and skills that will aid in their professional development and career readiness. For further information, contact the internship coordinator of their respective Departments.



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Guidelines for Field Projects

(Applicable for batches admitted from 2022-23 onwards of TKREC R22 Regulations)

Introduction

The field project allows students to take on professional roles in order to learn skills, render services and participate in the provision and development of social work service. The hands-on experience reinforces the student's identification with the purposes, values and ethics of the profession; fosters the integration of empirical and practice-based knowledge, and promotes the development of professional competence. Field project is a field education program designed to integrate classroom study with practice in a social work setting. Students spend time in an agency while being supervised by a field instructor. Through practicum, students translate knowledge from all areas of the curriculum into practical skills and competencies.

Objectives

Through the field project, students will gain direct experience in some of the following areas:

- ❖ Understanding the interconnectedness of diverse sectors such as education, agriculture, environment, health, nutrition, energy, infrastructure, water, gender, and community development. Applying interdisciplinary approaches to address these cross-cutting issues;
- ❖ Integrating knowledge on cross-sectoral issues, local insights and community participation into field training projects and activities;
- ❖ Participation in a particular activity in the project cycle: from program conceptualization, design, implementation to monitoring and evaluation;
- ❖ Collaborating and building relationships with practitioners including government officials, NGOs, communities, donors and project personnel. Working in teams, oftentimes cross-cultural and interdisciplinary in composition;
- ❖ Communicating effectively and facilitating meetings with stakeholders utilizing methods such as Action Research, Participatory Rural Appraisal, collaborative planning meetings, visualization and feedback workshops. Students will come to understand the importance and means of cultivating respectful communication with communities and support agencies;
- ❖ Identifying promising strategies for policy interventions to advance sustainable development (at the local, national and/ or regional level);



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- ❖ Applying techniques of self-reflection and inter-personal skills and dynamics to be cognizant of personal attitudes, perceptions and biases.

Outcomes

| After successful completion of the course, students will be able to: | Knowledge Level (Bloom's Taxonomy) |
|--|---------------------------------------|
| CO1 Develop practice competence as an entry level professional in generalist social work practice within the organization, the community, social work skills of assessment, planning and evaluation, and the profession. | Apply |
| CO2 Analyze the structure and function of resource and delivery systems within the agency and community | Analyze |
| CO3 Develop the ability to utilize professional social work supervision as a mechanism to improve one's own practice. | Apply |
| CO4 Apply knowledge, values, and skills with diverse populations including people of colour, women, children, aged, physically and mentally challenged, socially and culturally diverse groups, the oppressed and populations at risk. | Apply |



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College Code: R9

Guidelines for Mini & Major Project

(Applicable for the batches admitted from 2020-2021 and 2021-22 of TKREC R20 Regulations)

1. Prepare the project report using Latex as per the Template circulated earlier by the Project Co-Ordinator.
2. Prepare Power point presentation for the review indicating the contribution of each team member of the project with maximum of 15 slides with the following contents:
 - Title of the Project, with team member details and guide name
 - Abstract (400 to 500 words), Keywords (5 to 8)
 - Problem Statement, Objectives and Scope
 - Literature Survey (all the 4 papers in two slides)
 - Proposed System (Flowchart)
 - Methodology
 - Results & Discussion
 - References (in IEEE format)
 - Paper publication (Communicated)
3. After the completion of the PPT and the Project report, submit the softcopy of the report to the concerned allotted Project guide for Verification and Suggestions.
4. Project guide has to submit the finalized soft copy of PPT, Project documentation and Paper publication to Project Co-Ordinator and HOD.
5. Project Viva-Voce will be conducted offline in the college to assess students' understanding, presentation skills, and ability to defend their research or project work orally in front of a panel of examiners.
6. Absenteeism to the viva voce will be considered as ABSENT and marks awarded will be Zero.



KV Rao
6/7/23
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**GUIDELINES FOR
RESEARCH PROJECT
REPORT PREPARATION**



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GUIDELINES TO PREPARE B.TECH MINI/MAJOR PROJECT DOCUMENTATION

1. Size and copies:

The Project Report should be submitted in A4 size Bond paper and (No. Of Students + 3) copies of the thesis are required to be submitted to the Department.

2. Paper, Typing & Format:

Bond paper should be used for the preparation of the Project report for both Mini & Major Projects. Typing should be done with the following format.

| | | | |
|--------------|-----------------------|---|---|
| Font: | 1. Chapter Names | - | 16 TNR (bold) all caps (Times New Roman) |
| | 2. Headings | - | 14 TNR (bold) all caps |
| | 3. Subheadings | - | 14 TNR (bold) Title case |
| | 4. Sub – sub headings | - | 12 TNR (bold) Title case |
| | 5. Body of Project | - | 12 TNR |
| | 6. Text in Diagrams | - | 12 TNR (all lower case with capitalize each word) |

| | | |
|--|---|----------------------|
| 7. Diagrams / Table headings / Fig. Headings | - | 12' TNR Title case |
| 8. If any text | | 12' TNR (Title case) |

Spacing :

- 1.5 Line spacing between heading and body text.
- 1.5 line spacing in body text.
- New paragraphs start with single tab.

Margins :

| | |
|-----------|-------------|
| Left 2.0' | Right 1.0' |
| Top 1.0' | Bottom 1.0' |

Page numbers: Position: Bottom, Middle

1. Front Pages Small Roman Numbers (i, ii, iii)
(Excluding title page, Certificate page, Acknowledgement)

page)

2. Body pages 1,2,3
3. Annexure I,II,III

(Separate for each Annexure)

3. Binding:

The Project report shall be properly bound with spiral for Mini Project and for major project should be covered with soft cover of **black color**. The bound front cover should indicate in **Golden Embossed** letters with the following



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4. Arrangement of the report

Front Pages: Title Page
Certificate
Acknowledgement
Contents
List of tables
List of diagrams
Abstract



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CONTENTS

S.No. Topic name

Pg.No.

1. Introduction

1.1 Motivation

1.2 Problem definition

1.3 Objective of Project

2. LITERATURE SURVEY(In case of IEEE paper based project, discussion of referred papers is required)

2.1 Existing System

2.2 Disadvantages of Existing system

2.3 Proposed System

3. ANALYSIS

3.1 REQUIREMENTS

3.1.1 Functional Requirements

3.1.2 Non-Functional Requirements

3.2 Sample data

3.3 Algorithm

4. DESIGN

4.1 Pseudo code

4.2 DFDs & UML diagrams

5. IMPLEMENTATION & TESTING

5.1 Method of Implementation

5.2 Testing

5.3 Output Screens

5.3.1 Result Analysis

6. CONCLUSION

First Paragraph

-Project Conclusion

Second Paragraph

-Future enhancement

REFERENCES :

1. Author Name, Title of Paper/ Book, Publisher's Name, Year of publication

2. Full URL Address



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A Project report on

<<Title of the project>>

Project submitted to the Jawaharlal Nehru Technological University Hyderabad in Partial fulfillment of the requirements for the award of the degree of

Bachelor of Technology
in
Information Technology

Submitted By

<< Name/s of the Students >>

<< Hall Ticket No >>

Under the Guidance of

<< Guide Name >>

<< Designation >>



Department of Information Technology

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Meerpet, Saroor Nagar, Hyderabad

2018-19

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TEEGALA KRISHNA REDDY ENGINEERING COLLEGE DEPARTMENT OF INFORMATION TECHNOLOGY



CERTIFICATE

This is to certify that the project report entitled << Project Title >> submitted by << Students Name >>, bearing H.T. No.: <<H.T.No>>, in IV B.Tech II semester Information Technology is a record bonafide work carried out by them.

<< Internal Guide >>

<< Head of the Department >>



M. K. Reddy

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GUIDELINES FOR
REAL-TIME or FIELD BASED RESEARCH
PROJECT / INTERNSHIP
REPORT PREPARATION

Sample Page 1

**THE TITLE OF THE REPORT ON THE COVER PAGE
SHALL LOOK LIKE THIS LINE**

(The title is in Times New Roman Font with 16-point size, bold, one and a half line spacing)

T. Venkatesh

HTNo

(Candidate's name in Times New Roman Font, 14-point size in Bold Italics)



arew
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**THE TITLE OF THE REPORT ON THE SECOND PAGE
SHOULD LOOK LIKE THIS**

(Times New Roman, 16-point size, Bold and Centered)

**A REAL-TIME or FIELD BASED RESEARCH PROJECT (For II Semester students) /
INTERNSHIP REPORT (IV Semester students)**

(4 lines gap) (Times New Roman, 12-point size, Bold, Italics and Centered)

(1 line gap)

**Bachelor of Technology
in
Computer Science and Engineering**

(no gap) (Times New Roman, 14-point size, Bold, (Centered)

by

(1 line gap) (Times New Roman, 12-point size, Italic, (Centered)

**T. Venkatesh
(H T Number)**

(1 line gap) (Times New Roman, 14-point size, Bold, (Centered)



TKREC

(1 line gap) (Image size: 3.11 cm x 2.89 cm, colour, Centered)

Department of Computer Science and Engineering

(1 line gap) (Times New Roman, 14-point size, Bold, Centered)

Teegala Krishna Reddy Engineering College

(no gap) (Ariel, 18-point size, Bold, Centered)

(UGC Autonomous)

(no gap) (Times New Roman, 14-point size, Bold, Centered)

Medbowli, Meerpet, Balapur(M), Hyderabad, Telangana- 500097 (1 line gap)

(Times New Roman, 14-point size, Bold, Centered)

July, 2024

(1 line gap) (Times New Roman, 14-point size, Bold, Centered)



venkatesh

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DECLARATION

(Times New Roman, 14-point size, Bold, Centered)

I certify that

- a. The work contained in this report is original and has been done by me under the guidance of my supervisor (s).
- b. The work has not been submitted to any other Institute for any degree or diploma.
- c. I have followed the guidelines provided by the Institute for preparing the report.
- d. I have conformed to the norms and guidelines given in the Code of Conduct of the Institute.
- e. Whenever I have used materials (data, theoretical analysis, figures, and text) from other sources, I have given due credit to them by citing them in the text of the report and giving their details in the references. Further, I have taken permission from the copyright owners of the sources, whenever necessary.

Place:

Date:

Signature of the Student

HT No.



Handwritten signature in green ink

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Sample Page 4

CERTIFICATE

(Times New Roman, 14 Bold, Regular)

ECIL / Relevant Certificate

Note:

Attach color certificate copy



Wrew

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Sample Page 5

APPROVAL SHEET

(Times New Roman, 14 Bold, Regular)

This REAL-TIME or FIELD BASED RESEARCH PROJECT (For II Semester students) /
INTERNSHIP REPORT (IV Semester students) entitled (Title) by (Name of the student) is
approved for the award of the Degree Bachelor of Technology in Branch (12 Regular).

Supervisor

Head of the Department

Date:

Place:



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Sample Page 6

ABSTRACT

Keywords:

ONE PAGE ABSTRACT



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CONTENTS

| | |
|---|-----|
| Title Page | I |
| Certificate by the Supervisor | II |
| Declaration | III |
| Acknowledgement | IV |
| Abstract | V |
| Contents | VII |
| | |
| Chapter 1 Introduction | I |
| 1.1 Section | I |
| 1.2 Section | ... |
| 1.3 Section | ... |
| Chapter 2 Relevant data of Field Project / Internship | ... |
| Appendix-I Photos / Screen Shots Attachment | ... |



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Sample Page 8

Next 8 to 10 Pages Field Project / Internship Report Brief Write up

uraw

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Sample Page 9

One or two Photos or Screenshots of Training.



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MINUTES OF THE ISOAKU OF STUDIES MEETING
FOR B.TECH. CIVIL ENGINEERING HELD ON 05.11.2022
AT 2.30PM. IN DEPARTMENT OF CIVIL ENGINEERING

Mode of Meeting : Online.
Platform : Google Meet.
Meeting ID : <https://meet.google.com/lyc-izck-fyc>

Members Present :-

- 1) Dr. D. Venkat Ram Reddy, Chairman
HOD, Department of Civil Engineering.
Teegala Krishna Reddy Engineering College.
- 2) Prof. Dr. C. Sarala, JNTUH Nominee
Professor, Centre for Water Resources, Institute of
Science and Technology, Jawahar Lal Nehru, Technologies
University, Hyderabad.
- 3) Prof. V. Bhikshma, Subject Expert
Professor of Civil Engineering, Osmania University,
Hyderabad.
- 4) Dr. K. Madhusudan Reddy, Subject Expert
Associate Professor, Department of Civil Engg
Annamayya University Hyderabad
- 5) Dr. Er. S.P. Anchuri, Industry Expert
Anchuri & Anchuri Consultants, Hyderabad
- 6) Mr. Mohammed Muneebuddin Khan.
Member Secretary, Asst. Professor, Dept. of Civil Engg
TKREC. Hyderabad.

Special Invites:

- 1) Dr. K. Venkata Muli Mohan, Principal TKREC
- 2) Dr. K.M.V. Madan Kumar, Dean Academics TKREC

The meeting started with full quorum. The member Secretary, BOS welcomed the members and the BOS Chairman about the purpose of meeting.

The following items were discussed:

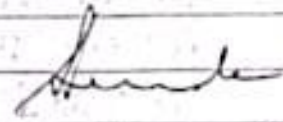
- 1) The Syllabi of IV year R20 Regulation, was presented by the member secretary. It was discussed and approved without any corrections.
- 2) The Syllabi of B.Tech open electives were discussed and approved without any corrections.
- 3) The Course Structure of B.Tech Civil Engg. R22 Regulation was presented by member Secretary and discussed in detail. A few suggestions were made. The course structure was unanimously approved after incorporating the corrections, as suggested.
- 4) The Syllabi of I year R22 Regulation were discussed and approved without any corrections.
- 5) The Syllabi of II year R22 Regulations were discussed and approved without any corrections.
- 6) The recommended suggestions / corrections / revisions were duly incorporated in the syllabi. After incorporation of suggestions, corrections & revisions, it was unanimously resolved to approve the

Course Structure and the Syllabi as mentioned above. Further no Substitute Subjects are recommended for the readmitted to same regu. of any year.

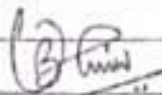
7) The meeting ended with thanks from the Chairperson and member secretary.



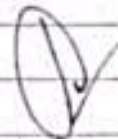
D. P. Venkat Ram Reddy



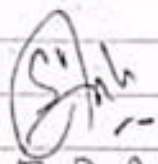
Prof. Dr. C. Sarda



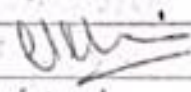
Prof. Dr. V. Bhikshma



Dr. K. Machifudaw Reddy



Dr. G. S. P. Anbum



Mr. Mohd. Mumtazuddin Khan



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MINUTES OF THE BOARD OF STUDIES MEETING
FOR BTECH. CIVIL ENGINEERING, HELD ON 24-01-2023
AT 10:30AM IN DEPARTMENT OF CIVIL ENGINEERING

Mode of Meeting : Online.

Platform : Google meet

Meeting ID : <https://meet.google.com/ork-phjo->

Members Present:-

- 1) Dr. P. Venkat Ram Reddy, Chairman
Associate Professor, Department of Civil Engineering,
Teegala Krishna Reddy Engineering College, Hyderabad
- 2) Professor Dr. C. Sarala, JNTUH Nominee.
Professor JNTUH.
- 3) Professor Dr. V. Bhikshma, Subject Expert.
Professor of Civil Engineering, O.Smania University, Hyderabad
- 4) Dr. K. Madhusudan Reddy, Subject Expert.
Associate Professor, Department of Civil Engineering,
Annam University, Hyderabad.
- 5) Dr. E. S.P. Anchari, Industry Expert.
Anchari & Anchari Consultants, Hyderabad.
- 6) Mr. Mohammed Muneeruddin Khan, Member Secretary
Assistant Professor, Department of Civil Engineering,
Teegala Krishna Reddy Engineering College, Hyderabad

Special Invitees:-

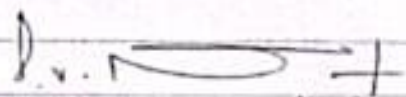
- 1) Dr. K. Venkata Murali Mohan, Principal.
Teegala Krishna Reddy Engineering College, Hyderabad.
- 2) Dr. B. Srinivasa Rao, Dean Academics.
Teegala Krishna Reddy Engineering College, Hyderabad

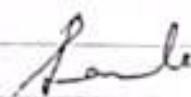
The meeting started with full quorum. The member Secretary, BOS, welcomed the members and the BOS Chairman about the purpose of the meeting.

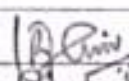
The following items were discussed:

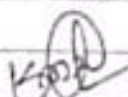
- 1) The syllabi of III & IV Year R22 Regulation, was presented by the member Secretary and discussed in detail. Suggestions were made. The course structure was approved after incorporating the corrections as suggested.
- 2) The syllabi of R22 Regulation, Open electives were discussed and approved.
- 3) The recommended suggestions/corrections/revision were duly incorporated in the syllabi. After incorporation suggestions, corrections and revisions it was unanimously resolved to approve the course structure and the syllabi as mentioned above.

The meeting ended with thanks from the Chairperson and Member Secretary.

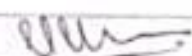

Dr. P. Venkat Ram Reddy.


Prof. Dr. C. Sarala.


Prof. Dr. V. Shikshma.


Dr. K. Madhusudan Reddy.


Dr. Er. S. Anand.


Mr. Mohammed Muneeruddin Khan.



PRINCIPAL
Teegala Krishna Reddy Engineering College
(UG - AUTONOMOUS)
Medowli, Meergal, Hyderabad-57



TEGGALA KRISHNA REDDY ENGINEERING COLLEGE (UGC-Autonomous)

Approved by AICTE, Affiliated by JNTUH, Accredited by NAAC- 'A' Grade
Medhwal, Meerpet, Balapur, Hyderabad, Telangana- 500097
Mob: 8498085218. principal@tkrec.ac.in, acc@tkrec.ac.in



MINUTES OF THE BOARD OF STUDIES MEETING FOR B.TECH. CIVIL ENGINEERING HELD ON 24.01.2024 AT 10:30 A.M IN DEPARTMENT OF CIVIL ENGINEERING

Mode of Meeting : Online
Platform : Google Meet
Meeting ID : <https://meet.google.com/ork-pbfo-cgj>

Members present:

1. Dr. P. Venkat Ram Reddy, Chairman
Associate Professor, Department of Civil Engineering,
Teegala Krishna Reddy Engineering College, Hyderabad
2. Prof. Dr. C. Sarala, JNTUH Nominee
Professor, Centre for Water Resources, Institutes of Science and Technology
Jawaharlal Nehru Technological University, Hyderabad
3. Prof. V. Bhikshma, Subject Expert
Professor of Civil Engineering, Osmania University, Hyderabad
4. Dr. K. Madhusudan Reddy, Subject Expert
Associate Professor, Department of Civil Engineering,
Anurag University, Hyderabad.
5. Dr. Er. S.P. Anchuri, Industry Expert
Anchuri & Anchuri consultants, Hyderabad
6. Mr. Mohammed Muneeruddin Khan, Member Secretary
Assistant Professor, Department of Civil Engineering
Teegala Krishna Reddy Engineering College, Hyderabad

Special Invitees:

1. Dr. K. Venkata Murali Mohan, Principal
Teegala Krishna Reddy Engineering College, Hyderabad
2. Dr. B. Erinivasa Rao, Dean Academics
Teegala Krishna Reddy Engineering College, Hyderabad



TEEGALA KRISHNA REDDY ENGINEERING COLLEGE

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Mob: 8498085218. principal@tkrec.ac.in. acc@tkrec.ac.in



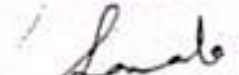
The meeting started with full quorum. The Member Secretary, BOS welcomed the members and the BOS Chairman about the purpose of meeting.

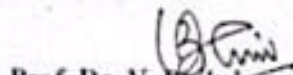
The following items were discussed:

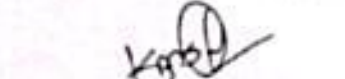
1. The syllabi of III & IV Year R22 regulation, was presented by the Member Secretary and discussed in detail. Suggestions were made. The course structure was approved after incorporating the corrections, as suggested.
2. The syllabi of R22 Regulation, open Electives were discussed and approved.
3. The recommended suggestions/corrections/revisions were duly incorporated in the syllabi. After incorporation suggestions, corrections and revisions, it was unanimously resolved to approve the course structure and the syllabi as mentioned above.

The meeting ended with thanks from the Chairperson and Member Secretary.


Dr. P. Venkat Ram Reddy


Prof. Dr. C. Sarala


Prof. Dr. V. Balkrishna


Dr. K. Madhusudan Reddy


Dr. Er. S. P. Anchuri


Mr. Mohammed Munceruddin Khan




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MINUTES OF THE BOARD OF STUDIES MEETING
FOR B.Tech CIVIL ENGINEERING, HELD ON 18/06/2021
AT 1:00PM IN DEPARTMENT OF CIVIL ENGINEERING.

Mode of Meeting : Online

Platform : GOOGLE MEET

Meeting ID : <https://meet.google.com/wbj-hpad-nkk>

MEMBERS Present.

1) Mr. P. VENKAT RAM REDDY.

HOD, Department of Civil Engineering,
Teagala Krishna Reddy Engineering College, Hyd.

2. Prof. Dr. C. Sarala, JNTU Nominee
Professor, Center for Water Resource,
Institute of Science and Technology,
JNTU, HYDERABAD.

3. Prof. Dr. Y. BHIKSHMA, Subject Expert,
Professor of Civil Engineering Department,
OSMANIA UNIVERSITY, HYDERABAD.

4. Dr. K. Madhusudan Reddy, Subject Expert,
Associate Professor, Department of Civil Engg.
ANURAG UNIVERSITY, HYDERABAD.

5. Dr. E. S. P. ANCHURI, Industry Expert.
ANCHURI & ANCHURI CONSULTANTS, HYDERABAD

6. Dr. R. Seetharamil Selvi, Internal Member.
Associate Professor, Dept of Civil Engg.
Teagala Krishna Reddy Engg. College,
HYDERABAD.

Contd —

7. Dr. R. Hemani Anika, Member Secretary
Professor, Department of Civil Engineering
Teegala Krishna Reddy Engg. College, Hyd

Special Invites:

1. Dr. K. Venkata Murali Mohan, Principal
Teegala Krishna Reddy Engg. College,
HYDERABAD

2. Dr. K.M.V. Madan Kumar, Dean Academic
Teegala Krishna Reddy Engineering College,
HYDERABAD

The Meeting started with full quorum. The Member Secretary, BOS welcomed the members and the BOS chairman briefed about the purpose of Meeting.

The following items were discussed.

1. The course structure of B.Tech Civil Engineering was presented by the member secretary and discussed in detail. A few suggestions were made. The course structure was unanimously approved after incorporating the corrections as suggested.
 2. The syllabi of I year B.Tech course were discussed and approved without any corrections.
 3. The syllabi of II year B.Tech course were discussed and approved without any corrections.
 4. The syllabi of III year B.Tech were discussed and reviewed by the members. A few suggestions, corrections, revisions were recommended.
 5. The syllabi of M.Tech Open Electives were discussed and approved without any corrections.
 6. The recommended suggestions/corrections/revisions were duly incorporated in the syllabi. After incorporating suggestions, corrections and revisions it was unanimously resolved to approve the course structure and the syllabi of B.Tech course (Civil Engineering) (Annexure-1) and M.Tech Open Electives.
- The Meeting ended with Thanks from the chairperson and Member Secretary.

P.V.N. +
P. VENKAT RAM REDDY

C. Sarala
* Prof. Dr. C. Sarala

Prof. Dr. V. Bhikshama

Dr. K. Madhusudhanaiah

contd -

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Dr. E. S. P. ANCHURI

Dr. R. Senthil Selva

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Dr. R. Hema Anitha



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II Year B.Tech. CE - II Sem

| S. No | Subject Code | Category | Subject Name | Hours per | | | Credits |
|--------------|--------------|----------|--|-----------|---|---|-----------|
| | | | | L | T | P | |
| 01 | 20ME4ES07 | ES | Basic Mechanical Engineering for Civil | 2 | 0 | 0 | 2 |
| 02 | 20CE4PC01 | PC | Strength of Materials – II | 3 | 0 | 0 | 3 |
| 03 | 20CE4PC02 | PC | Hydraulics and Hydraulic Machinery | 3 | 0 | 0 | 3 |
| 04 | 20CE4PC03 | PC | Building Materials, Construction and Planning | 3 | 0 | 0 | 3 |
| 05 | 20CE4PC04 | PC | Structural Analysis – I | 3 | 0 | 0 | 3 |
| 06 | 20EE4ES08 | ES | Basic Electrical and Electronics Engineering | 3 | 0 | 0 | 3 |
| 07 | 20CE4PC05 | PC | Hydraulics and Hydraulic Machinery Lab | 0 | 0 | 3 | 1.5 |
| 08 | 20CE4PC06 | PC | Computer Aided Civil Engineering Drawing | 0 | 0 | 3 | 1.5 |
| 09 | 20EE4ES09 | ES | Basic Electrical and Electronics Engineering Lab | 0 | 0 | 2 | 1 |
| 10 | 20MC4HS03 | MC | Gender Sensitization Lab | 2 | 0 | 0 | 0 |
| 11 | 20MC4BS03 | MC | Quantitative Logical & Reasoning | 2 | 0 | 0 | 0 |
| Total | | | | | | | 21 |

III Year B.Tech. CE - I Sem

| S. No | Subject Code | Category | Subject Name | Hours per | | | Credits |
|--------------|--------------|----------|--|-----------|---|---|-----------|
| | | | | L | T | P | |
| 01 | 20CE5PC01 | PC | Environmental Engineering | 3 | 0 | 0 | 3 |
| 02 | 20CE5PC02 | PC | Design of Reinforced Concrete Structures | 3 | 1 | 0 | 4 |
| 03 | 20CE5PC03 | PC | Geotechnical Engineering | 3 | 0 | 0 | 3 |
| 04 | 20CE5PC04 | PC | Structural Analysis – II | 3 | 0 | 0 | 3 |
| 05 | | PE | Professional Elective-I | 3 | 0 | 0 | 3 |
| 06 | 20SM5HS05 | HS | Engineering Economics and Accountancy | 2 | 0 | 0 | 2 |
| 07 | 20CE5PC06 | PC | Geotechnical Engineering Lab | 0 | 0 | 3 | 1.5 |
| 08 | 20CE5PC07 | PC | Environmental Engineering Lab | 0 | 0 | 3 | 1.5 |
| 09 | 20CE5PC08 | PW | Summer Internship | 0 | 0 | 0 | 1 |
| 10 | 20CE5MC09 | MC | Intellectual Property Rights | 2 | 0 | 0 | 0 |
| 11 | 20CE5MC10 | MC | Personality Development and Soft Skills | 2 | 0 | 0 | 0 |
| Total | | | | | | | 22 |



* Open Elective – Students should take Open Electives from the List of Open Electives Offered by Other Departments/Branches Only.

Ex: - A Student of Mechanical Engineering can take Open Electives from all other departments/branches except Open Electives offered by Mechanical Engineering Dept.

IV Year B.Tech. CE - I Sem

| S. No | Subject Code | Category | Subject Name | Hours per | | | Credits |
|--------------|--------------|----------|--|-----------|---|---|-----------|
| | | | | L | T | P | |
| 01 | 20CE7PC01 | PC | Estimation, Costing and Project Management | 3 | 1 | 0 | 4 |
| 02 | | | Professional Elective – III | 3 | 0 | 0 | 3 |
| 03 | | OE | Open Elective – II | 3 | 0 | 0 | 3 |
| 04 | 20CE7HS01 | HS | Professional Practice Law & Ethics | 2 | 0 | 0 | 2 |
| 05 | 20CE7PC03 | PC | Computer Aided Structural Design Lab – II | 0 | 0 | 2 | 1 |
| 06 | 20CE7PW04 | PC | Industrial Oriented Mini Project/Summer Internship | 0 | 0 | 0 | 2 |
| 07 | 20CE7PW05 | PC | Project – Stage I | | | 6 | 3 |
| 08 | 20CE7PW06 | PC | Seminar | 0 | 0 | 2 | 1 |
| 09 | 20CE7PC07 | PC | Comprehensive Exam | 0 | 0 | 2 | 1 |
| 10 | 20CE7MC08 | MC | Advanced Technical Training | 0 | 0 | 2 | 0 |
| Total | | | | | | | 20 |

Professional Elective – III

| S. No | Subject Code | Subject Name |
|-------|--------------|--|
| 1 | 20CE7PE01 | Waste Management |
| 2 | 20CE7PE02 | Construction Technology and Management |
| 3 | 20CE7PE03 | Air Pollution and Control |
| 4 | 20CE7PE04 | Elements of Earthquake Engineering |

Open Elective – II

| S. No | Subject Code | Subject Name |
|-------|--------------|------------------------|
| 01 | | REMOTE SENSING AND GIS |
| 02 | | AIR POLLUTION |

Open Elective subjects' syllabus is provided at the end of the document.

* Open Elective – Students should take Open Electives from the List of Open Electives Offered by Other Departments/Branches Only.

Ex: - A Student of Mechanical Engineering can take Open Electives from all other departments/branches except Open Electives offered by Mechanical Engineering Dept.

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IV Year B.Tech. CE - II Sem

| S. No | Subject Code | Category | Subject Name | Hours per | | | Credits |
|--------------|--------------|----------|----------------------------|-----------|---|----|-----------|
| | | | | L | T | P | |
| 01 | | PE | Professional Elective – IV | 3 | 0 | 0 | 3 |
| 02 | | PE | Professional Elective -V | 3 | 0 | 0 | 3 |
| 03 | | OE | Open Elective - III | 3 | 0 | 0 | 3 |
| 04 | 20CE8PW01 | PC | Major Project | 0 | 0 | 14 | 7 |
| Total | | | | | | | 16 |

Professional Elective – IV

| S. No | Subject Code | Subject Name |
|-------|--------------|--|
| 1 | 20CE8PE01 | Transportation Engineering – II |
| 2 | 20CE8PE02 | Foundation Engineering |
| 3 | 20CE8PE03 | Ground Water Hydrology |
| 4 | 20CE8PE04 | Design and Drawing of Irrigation Structure |

Professional Elective – V

| S. No | Subject Code | Subject Name |
|-------|--------------|--------------------------------------|
| 1 | 20CE8PE05 | Disaster Management |
| 2 | 20CE8PE06 | Green Building Technology |
| 3 | 20CE8PE07 | Advanced Structural Design |
| 4 | 20CE8PE08 | Safety in Civil Engineering Practice |

Open Elective–III

| S. No | Subject Code | Subject Name |
|-------|--------------|---------------------------|
| 01 | | GREEN BUILDING TECHNOLOGY |

* Open Elective subjects' syllabus is provided at the end of the document.

* Open Elective – Students should take Open Electives from the List of Open Electives Offered by Other Departments/Branches Only.

Ex: - A Student of Mechanical Engineering can take Open Electives from all other departments/branches except Open Electives offered by Mechanical Engineering Dept.



Principal
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3rd Board of studies meeting
(online mode)

Date: 29/01/2024

Time: 11:00 Am

A meeting of Board of studies for EEE department was held on 29th January 2024, at 11:00 Am through online mode and the following points are suggested by Board members towards the approval of course structure and syllabus of 5th, 6th, 7th & 8th semesters R-22 regulation for the students admitted from 2022-23 Academic year onwards

The members present:

1. Dr. B. Vidyasagar Professor EEE, BOS chairman TKREC (R9)
R9
29/01/2024

2. Dr. K. Bhaskar Professor EEE, JNTUH, Nominee

Kanchara K
Professor & Head
Dept. of Electrical & Electronics Engg
JNTUH College of Engineering
Kukatpally, Hyderabad-500 085.
29/1/24

3. Dr. E. Vidyasagar Professor EEE, OU, Member BOS

E PROFESSOR
Department of Electrical Engineering
University College of Engineering (A)
Osmania University,
Hyderabad-500 007

4. Dr. B. Mangur Professor EEE, OU, Member BOS

B PROFESSOR
Department of Electrical Engineering
University College of Engineering (A)
Osmania University,
Hyderabad - 500 007

5. Dr. M. Sheshagiri D.E, TSTRANSCO, Industry Expert

M
Director General
TSTRANSCO, Vengal Rao Circle,
HYDERABAD - 500 052.

6. Mr. Mailha Babu.T Associate professor EEE, Member BOS TKREC

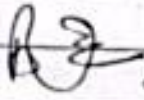


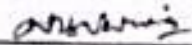
PRINCIPAL
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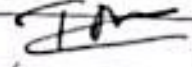
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Minutes of the meeting

- Chairman BOS EEE has been introduced R-22 3rd & 4th year B.Tech regular to BOS members
- ⇒ Detailed course structure with credit weightage has been explained to committee members
- All committee members discussed about the new syllabus
- ⇒ Few changes also accepted by the BOS members
- ⇒ III-2 control system lab is shifted to III-1 semester & III-1 semester AECS lab is shifted to III-2 semester.
- ⇒ Four mandatory courses have been included in the course structure.
- ⇒ BOS members are accepted to change professional elective subject in PCO to professional core subject.
- ⇒ Power Electronic Applications to Renewable Energy sources (PE) subject is changed to professional elective (PE)
- ⇒ In open elective (OE-II) & open elective III (OE-III) two subjects are allowed to interchange each other.
- ⇒ Chairman BOS has concluded the meeting with thanks to all BOS members present in the meeting.


29/01/2024
Chairman BOS
(Dr. S. Vidyaashwari)


(Secretary, BOS)
Dr. R. Rajasekhara Varma


(Member, BOS)
T. Madhu Babu



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II YEAR I SEMESTER

| S. No. | Course Code | Course Title | L | T | P | Credits |
|--------|-------------|---|-----------|----------|----------|-----------|
| 1 | | Numerical Methods and Complex Variables | 3 | 1 | 0 | 4 |
| 2 | | Analog Circuits | 3 | 0 | 0 | 3 |
| 3 | | Network analysis and Synthesis | 3 | 0 | 0 | 3 |
| 4 | | Digital Logic Design | 3 | 0 | 0 | 3 |
| 5 | | Signals and Systems | 3 | 1 | 0 | 4 |
| 6 | | Analog Circuits Laboratory | 0 | 0 | 2 | 1 |
| 7 | | Digital logic Design Laboratory | 0 | 0 | 2 | 1 |
| 8 | | Basic Simulation Laboratory | 0 | 0 | 2 | 1 |
| 9 | *MC | Constitution of India | 3 | 0 | 0 | 0 |
| | | Total Credits | 18 | 2 | 6 | 20 |

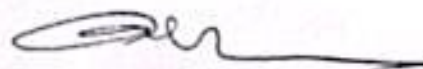
II YEAR II SEMESTER

| S. No. | Course Code | Course Title | L | T | P | Credits |
|--------|-------------|---|-----------|----------|-----------|-----------|
| 1 | | Probability Theory and Stochastic Processes | 3 | 0 | 0 | 3 |
| 2 | | Electromagnetic Fields and Transmission Lines | 3 | 0 | 0 | 3 |
| 3 | | Analog and Digital Communications | 3 | 0 | 0 | 3 |
| 4 | | Linear and Digital IC Applications | 3 | 0 | 0 | 3 |
| 5 | | Electronic Circuit Analysis | 3 | 0 | 0 | 3 |
| 6 | | Analog and Digital Communications Laboratory | 0 | 0 | 2 | 1 |
| 7 | | Linear and Digital IC Applications Laboratory | 0 | 0 | 2 | 1 |
| 8 | | Electronic Circuit Analysis Laboratory | 0 | 0 | 2 | 1 |
| 9 | | Real Time Project/ Field Based Project | 0 | 0 | 4 | 2 |
| 10 | *MC | Gender Sensitization Lab | 0 | 0 | 2 | 0 |
| | | Total Credits | 15 | 0 | 12 | 20 |

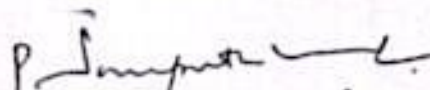


Dr. B. RAJENDRA NAIK
Professor

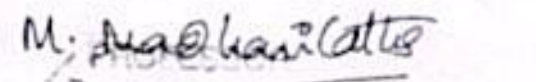
Dept. of Electronics & Communication Engg.
University College of Engineering
Osmania University, Hyderabad - 500 075



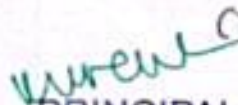
(Dr. D. Krishna Reddy)



(P. SAMPATH KUMAR)
SCB



M. Madhavi Latha
Department of ECE
JNTU College of Engineering
03/11/22
(Dr. M. MADHAVI LATHA)

PRINCIPAL

Teegala Krishna Reddy Engineering College
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Medbowli, Meerpet, Hyderabad - 97.

First Board of Studies meeting
(online mode)

Date : 03/07/2021,
Time : 11:00 AM

A Meeting of Board of Studies for EEE Department was held on 3rd July 2021, at 11:00 AM through online mode and the following points are suggested by the Board members towards the approval of course structure, syllabus upto 6th semester (R20) for the students admitted in 2020-21 Academic Year

The members present

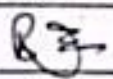
1. Dr. B. Vidya Sagar Assoc. professor & Head of EEE Dept. (Chairman BOS, TKREC(R9))
2. Dr. K. Bhaskar Assoc. professor EEE (INTUH Nominee)
3. Dr. E. Vidya Sagar Assoc. professor EEE (Associate Professor Electrical & Electronics Engineering, JNTU College of Engineering, Kukatpally, Hyderabad-72.)
4. Prof. B. Manoj Kumar (Autonomous) (Member BOS, OU)
5. Dr. MYD. Sureshbabu (Divisional Engineer, Systems, TSTRANSCO, Vidyut Soudha, Hyderabad-500082.)
6. Mr. Mpdhu Babu . T (Assoc. professor EEE, Member BOS, TKREC(R9))
7. Dr. N. Rajasekhar Varma (Professor EEE, Member Secretary, TKREC(R9))

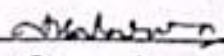


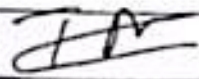
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Minutes of meeting

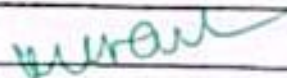
- Chairman BOS has introduced the new course structure of EEE Dept (R9) to BOS members
- All the BOS members have discussed and accepted total credits distribution in the curriculum.
- ⇒ As per the guidelines of JNTUH, the course structure upto 2/2 semester has been accepted by the BOS members
- Very few changes in syllabus also approved by the BOS members
- ⇒ One BOS member has raised the question, how to keep theory & practical of the same subject in one semester.
- ⇒ Will it be possible to conduct theory in one semester and practical in another semester.
- ⇒ Only electrical subjects have to keep in professional Electives
- One BOS member raised the question of why Electrical circuit-1 subject lab is named different title.
- One BOS member asked whether you are following syllabus as per JNTUH regular or net.
- ⇒ One BOS member raised why Real time Research project title given for project work.
- Principal of the college has given the expansion for change of title is 'Elements of Electrical and Electronics Engineering Laboratory' kept in 1-semester in the course structure.
- ⇒ One BOS member asked to review the 4/2 semester or VIII Sem of 2020 Regular course structure subjects.


(Chairman, BOS)
Dr. S. Vidyasagar


(Secretary, BOS)
Dr. N. Rajasekhara Varma


(Member, BOS)
T. Madhu Babu




PRINCIPAL
Jyoti Krishna Reddy Engineering College
(UGC-AUTONOMOUS)
Medbowli, Meerpet, Hyderabad - 97.

Second Board of studies meeting

(online mode)

Date: 05-11-2022

Time: 11:30 AM

A meeting of Board of studies for EEE department was held on 5th November 2022, @ 11:30 AM through online mode and the following points are suggested by the Board members towards the approval of course structure, syllabus of 7th & 8th semester (R20) regular for the students admitted from 2020-21 Academic year and also have given the approval of course structure, syllabus up to 6th semester R22 regular for the students admitted in 2022-23 Academic year.

The members present


1. Dr. B. Vidya Sagar Associate professor EEE, BOS chairman TKREC (R9)
2. Dr. K. Bhaskar Associate professor JNTUH nominee
3. Dr. E. Vidya Sagar Associate professor Department of Electrical Engineering University College of Engineering (A) Osmania University, Hyderabad - 500 007
4. Dr. B. Mangur Professor EEE Department of Electrical Engineering University College of Engineering (A) Osmania University, Hyderabad - 500 007
5. Dr. M. Sheshgiri D.E. TSTRANSCO, Industry expert
6. Mr. Madhubabu Associate professor EEE, Member BOS TKREC
7. Dr. N. Rajashanker Varma Professor EEE, Member Secretary TKREC (R9)

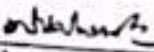


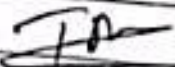
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- ⇒ The member who suggested to include one new Power electronic Subject in Power Semiconductor Drives in 6th semester.
- ⇒ All the BOS members are discussed and suggested to change the name of industry oriented mini-project to Summer Internship. For this no need to give lecture hours to Summer Internship. Also suggested to provide faculty advisor for Summer Internship.
- ⇒ All the members in the BOS committee suggested while framing the syllabus for theory & practical Subject, must include prerequisites, Course objectives, Course outcomes, if possible Co-mapping.
- ⇒ All the BOS members have been resolved to do the major projects in the campus under the guidance of faculty.
- ⇒ Member industry expert suggested and invited the students to TSTRANSCO for doing project work.
- ⇒ One of the member BOS has given the suggestion that for industry related subjects at least first unit must be dealt by the industry expert in association with regular faculty.
- ⇒ Also suggested two subjects must include in course structure from books and NPTEL with equivalent credits.

| | | |
|----------|---|------------|
| 4 weeks | - | 1 credit |
| 8 weeks | - | 2 credits |
| 12 weeks | - | 3 credits. |


(BOS-Chairman)
Dr. B. Sridhar


(BOS, secretary)
Dr. N. Rajashekhar Varma


(Member, BOS)



II Year B.Tech. EEE - II Sem

| S. No | Subject Code | Category | Subject Name | Hours per | | | Credits |
|--------------|--------------|----------|---------------------------------------|-----------|----------|----------|-----------|
| | | | | L | T | P | |
| 01 | 20EE4PC01 | PC | Power Electronics | 3 | 1 | 0 | 4 |
| 02 | 20EE4PC02 | PC | Digital electronics | 3 | 0 | 0 | 3 |
| 03 | 20EE4PC03 | PC | Electrical machines -II | 3 | 1 | 0 | 4 |
| 04 | 20EE4BS07 | BS | Numerical Methods & Complex Variables | 3 | 1 | 0 | 4 |
| 05 | 20EE4PC05 | PC | Power system-I | 3 | 0 | 0 | 3 |
| 06 | 20EE4PC06 | PC | Power Electronics lab | 0 | 0 | 2 | 1 |
| 07 | 20EE4PC07 | PC | Digital electronics lab | 0 | 0 | 2 | 1 |
| 08 | 20EE4PC08 | PC | Electrical machines lab -II | 0 | 0 | 2 | 1 |
| 09 | 20MC4HS03 | MC | Gender Sensitization Lab | 0 | 0 | 2 | 0 |
| 10 | 20MC4HS10 | MC | Quantitative Logical and Reasoning | 2 | 0 | 0 | 0 |
| Total | | | | 17 | 3 | 8 | 21 |

III Year B.Tech. EEE - I Sem

| S. No | Subject Code | Category | Subject Name | Hours per | | | Credits |
|--------------|--------------|----------|---|-----------|----------|----------|-----------|
| | | | | L | T | P | |
| 01 | 20EE5PC01 | PC | Control Systems | 3 | 1 | 0 | 4 |
| 02 | 20EE5PC02 | PC | Power system II | 3 | 0 | 0 | 3 |
| 03 | 20EE5PC03 | PC | Measurements and Instrumentation | 3 | 0 | 0 | 3 |
| 04 | 20MS5HS03 | MS | Business Economics and financial analysis | 3 | 0 | 0 | 3 |
| 05 | | PE | Professional Elective -I | 3 | 0 | 0 | 3 |
| 06 | 20EN5HS04 | HS | Advanced communication skills lab | 0 | 0 | 2 | 1 |
| 07 | 20EE5PC06 | PC | Measurements and Instruments lab | 0 | 0 | 2 | 1 |
| 08 | 20EE5PC07 | PC | Control Systems lab | 0 | 0 | 2 | 1 |
| 09 | 20EE5PC08 | PC | Power system simulation lab | 0 | 0 | 2 | 1 |
| 10 | 20MC5HS05 | MC | Intellectual property Rights | 3 | 0 | 0 | 0 |
| 11 | 20MC5HS06 | MC | Personality Development Soft skills | 2 | 0 | 0 | 0 |
| 12 | 20EE5PW01 | PC | Summer Internship | 0 | 0 | 0 | 1 |
| Total | | | | 20 | 3 | 8 | 21 |

Professional Elective - I

| S. No | Subject Code | Subject Name |
|-------|--------------|---------------------------|
| 1 | 20EE5PE11 | Modern Power Electronics |
| 2 | 20EE5PE12 | High Voltage Engineering |
| 3 | 20EE5PE13 | Electrical Machine Design |
| 4 | 20EE5PE14 | Internet of Things |

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|--------------|-------------|----|----------------------------------|-----------|----------|-----------|-----------|
| 5 | 20EE7PC02 | PC | Power Quality and Facts | 3 | 0 | 0 | 3 |
| 6 | 20EE7PC03 | PC | Electrical System Simulation Lab | 0 | 0 | 3 | 1 |
| 7 | 20EE7PC04 | PC | Industrial Oriented Mini Project | 0 | 0 | 4 | 2 |
| 8 | 20EE7PC05 | PC | Seminar | 0 | 0 | 2 | 1 |
| 9 | 20EE7PC06 | PC | Comprehensive test | 0 | 0 | 0 | 1 |
| 10 | 20EE7PC07 | PC | Project Stage - I | 0 | 0 | 6 | 3 |
| 11 | 20EE7 HS 08 | HS | Advance Technical Training (ATT) | 3 | 0 | 0 | 0 |
| Total | | | | 18 | 0 | 15 | 23 |

Professional Elective – III

| S. No | Subject Code | Subject Name |
|-------|--------------|---------------------------------|
| 1 | 20EE7PE11 | Switched mode power conversion |
| 2 | 20EE7PE12 | Utilization of Electrical Power |
| 3 | 20EE7PE13 | Digital Control Systems |
| 4 | 20EE7PE14 | Embedded Systems |

Professional Elective – IV

| S. No | Subject Code | Subject Name |
|-------|--------------|--------------------------------|
| 01 | 20EE7PE21 | Electrical and Hybrid Vehicles |
| 02 | 20EE7PE22 | Optimization Techniques |
| 03 | 20EE7PE23 | Industrial Electrical systems |
| 04 | 20EE7PE24 | VLSI Design |

Open Elective-II

| S. No | Subject Code | Subject Name |
|-------|--------------|------------------------------|
| 01 | 20EE7OE21 | Design of Electrical Systems |
| 02 | 20EE7OE22 | Energy Storage Systems |

*Open Elective subjects' syllabus is provided at the end of the document.

*Open Elective – Students should take Open Electives from the List of Open Electives Offered by Other Departments/Branches Only.

Ex: - A Student of Mechanical Engineering can take Open Electives from all other departments/branches except Open Electives offered by Mechanical Engineering Dept.
IV Year B.Tech.EEE - II Sem

| S. No | Subject Code | Category | Subject Name | Hours per | | | Credits |
|-------|--------------|----------|---------------------------|-----------|---|----|---------|
| | | | | L | T | P | |
| 1 | | OE | Open Elective-III | 3 | 0 | 0 | 3 |
| 2 | | PE | Professional Elective -V | 3 | 0 | 0 | 3 |
| 3 | | PE | Professional Elective -VI | 3 | 0 | 0 | 3 |
| 4 | 20EE8PC01 | PC | Project Stage - II | 0 | 0 | 14 | 7 |

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| | | | | | | |
|--|---------|----------------------|-----------|----------|-----------|-----------|
| | EE704PC | Project Stage - I | 0 | 0 | 6 | 3 |
| | | Total Credits | 13 | 0 | 16 | 21 |

IV YEAR II SEMESTER

| S. No. | Course Code | Course Title | L | T | P | Credits |
|--------|-------------|--------------------------|----------|----------|-----------|-----------|
| 1 | | Open Elective-III | 3 | 0 | 0 | 3 |
| 2 | | Professional Elective-V | 3 | 0 | 0 | 3 |
| 3 | | Professional Elective-VI | 3 | 0 | 0 | 3 |
| 4 | EE801PC | Project Stage - II | 0 | 0 | 14 | 7 |
| | | Total Credits | 9 | 0 | 14 | 16 |

*MC - Environmental Science – Should be Registered by Lateral Entry Students Only.

*MC – Satisfactory/Unsatisfactory

NOTE: Industrial Oriented Mini Project/ Summer Internship is to be carried out during the summer vacation between 6th and 7th semesters. Students should submit report of Industrial Oriented Mini Project/ Summer Internship for evaluation.

Professional Elective - I

| | |
|---------|---------------------------|
| EE511PE | Computer Architecture |
| EE512PE | High Voltage Engineering |
| EE513PE | Electrical Machine Design |

Professional Elective - II

| | |
|---------|-------------------------------|
| EE611PE | Optimization Techniques |
| EE612PE | Power Semiconductor Drives |
| EE613PE | Wind and Solar Energy systems |

Professional Elective - III

| | |
|---------|--------------------------------|
| EE711PE | Digital Control systems |
| EE712PE | Digital Signal Processing |
| EE713PE | Electrical and Hybrid Vehicles |

Professional Elective - IV

| | |
|---------|-------------------------------|
| EE721PE | HVDC Transmission |
| EE722PE | Power System Reliability |
| EE723PE | Industrial Electrical Systems |

Professional Elective - V

| | |
|---------|---|
| EE811PE | Power Quality & FACTS |
| EE812PE | Control Systems Design |
| EE813PE | AI Techniques in Electrical Engineering |

Professional Elective - VI

| | |
|---------|-------------------------------------|
| EE821PE | Smart Grid Technologies |
| EE822PE | Electrical Distribution Systems |
| EE823PE | Advanced Control of Electric Drives |

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3rd BOARD OF STUDIES MEETING (ONLINE)

A meeting of Board of studies for Electronics and Communication Engineering Department was held on 3rd November '2022 at 4:00 pm through online mode to approve the Course structure and Syllabus upto IVth semester for the students admitted in 2022-23 Academic year onwards.

Members Present

1. Dr. S. K. Umar Parva Prof. A Head
Chairman BOS
TKREC *[Signature]*
5/11/22
2. Dr. M. Madhavi Latha Professor
Director Academic
Planning
TKREC *[Signature]*
Prof. M. Madhavi Latha
3. Dr. B. Rajendra Naik Professor
University of Engineering
and Technology
Osmania University
Hyderabad-500 *[Signature]*
Dr. B. Rajendra Naik
4. Dr. D. Krishna Reddy Prof. & Head
CBT, member
expert *[Signature]*
Dr. D. Krishna Reddy
5. P. Sampath Kumar Scientist (E)
P. Sampath Kumar
ECE
6. Dr. Padmaja Professor
TKREC
BOS - Secretary *[Signature]*
Dr. Padmaja
7. Dr. C. Annapalagan Professor
TKREC
member *[Signature]*
Dr. C. Annapalagan
8. Dr. K. V. Murali Mohan Professor
Principal
Dept of ECE
TKREC, member expert *[Signature]*
Dr. K. V. Murali Mohan



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1. Dr. H. Madhavi Latha madam Suggested

1. To incorporate Artificial Intelligence and machine learning Subjects as Professional Electives.
2. To include the Computer based/related Subjects in open Electives
3. To introduce the Computer Organization and operating Systems

2. Dr. B. Rajendra Raik sir Suggested

1. To include more Communication related Subjects
2. To include Radar systems as Professional Elective - IV

3. Dr. D. Krishna Reddy sir Suggested to

1. To increase the Professional Electives in each Sem from three to four to give more options to the students.
2. To include the Antenna Based simulation Laboratory.

Recommendations for Re-admission students:-

No substitute Subjects are recommended if any candidate is re-admitted in 1st year B.Tech program or in the same regulations of any year.



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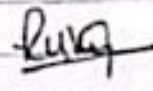
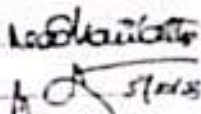
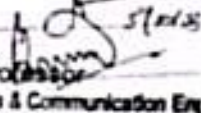

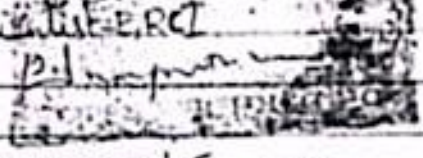
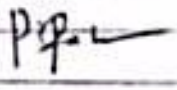
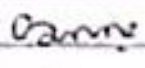
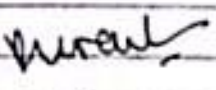
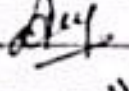
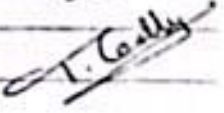
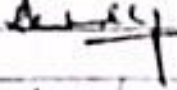
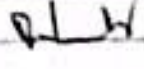

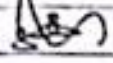
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4th BOARD OF STUDIES MEETING

The Board of Studies Meeting - for Electronics and Communication Engineering Department is conducted on 05-10-2023 at 3.00pm through online

The following BOS members attended the meeting:

1. Dr. SK. UMAR FARUK | Chairman-BOS | 
2. Dr. M. MADHAVI LATHA | Sr. Professor of ECE | M. Kodavalli
JNTU H. Alumina | 
3. Dr. B. RAJENDRA NAIK | Professor of ECE | Professor
Osmania Dept. of Electronics & Communication Engg
Utk. College of Engineering
Osmania University, Hyderabad-500 007 | 
4. Dr. D. KRISHNA REDDY | Scientist-E, RCI | 
5. Mr. P. SAMPAATH KUMAR | 
6. Dr. P. PADMAJA | Member Secy
Prof. TKREC | 
7. Dr. C. ANNADALAGAN | Prof of ECE
TKREC | 
8. Dr. K.V. MURALI MOHAN | Member
Prof of ECE
TKREC | 
9. Dr. D. VEMANA CHARY | Assoc. Prof
TKREC | 
10. Dr. E. RADHAMA | Member
TKREC | 
11. Dr. S. NAGI REDDY | Member
TKREC | 
12. Dr. R. SHANKAR | " | 
13. Dr. G.C.K. REDDY | " | 
14. Dr. G. SIREESHA | " | 



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At the outset Dr. Sr. Umar Faruk, Head, Department of Electronics & Communication Engineering and chairman of the board of studies welcomed the members of BOS and appraised the purpose of the meeting. He also briefed about the previous BOS meeting, existing TKREC-R20 and TKREC-R22 regulations and credit gap between the R20 and R22 regulations.

Board of Studies members reviewed the proposed agenda and the following items have been resolved unanimously by all the members of BOS -

Resolution - approved by the BOS members.

1. Approved to offer the following subjects in 3rd semester (II yr - I sem) for the students readmitted in TKREC-R22 regulations from TKREC-R20 regulations to balance the credit gap (3-credits) between both the regulations.

| S.No | Subject Code | Subject Name | L | T | P | Credits |
|------|--------------|--|---|---|---|---------|
| 1. | 22EC20SES | Electronic Devices and Circuits | 2 | 0 | 0 | 2 |
| 2. | 22EC20RES | Electronic Devices and Circuits Laboratory | 0 | 0 | 2 | 2 |

2. No substitute subjects are offered in third semester (II yr I sem) for students transferred from TKREC-R20 to TKREC-R22 regulations as there is no repetition of subjects in



R22 Regulation
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3. No substitute subjects are offered for the students transitioned from JNTUHR Regulation to JKRRC-R20 Regulation as both the regulations are same

4. Recommended to conduct more artificial course instead of value added courses.

5. Recommended to conduct more technical work shops and seminars.

H. Venkateswaraiah
5/10/23

Ravi
5/10/23

[Signature]
Professor
Dept. of Electronics & Communication Engg.
Univ. College of Engineering
Osmania University, Hyderabad-500 007.

[Signature]
5/10/23

[Signature]
Professor & HOD/C&IT

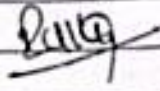
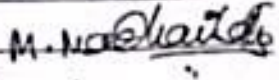


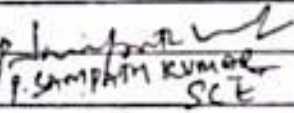
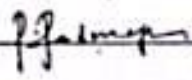
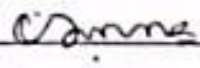
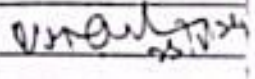
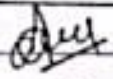
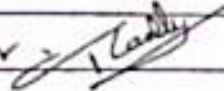


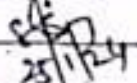


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5th BOARD OF STUDIES MEETING

The Board of Studies meeting (BOS) for Electronics and Communication Engineering Department is conducted on 25/01/2024 at 10:30 AM through online mode to approve the course structure and syllabus for 2nd and 4th year for the students admitted in 2022 onwards.

The following BOS members attended the meeting.

- | | | |
|-------------------------|-------------------------------------|---|
| 1. Dr. S.K. Umar Faruk | Chairman - BOS |  |
| 2. Dr. M. Madhavi Latha | Sr Professor of ECE JNTUH-Nonnna |  |
| 3. Dr. B. Rajendra Naik | Professor of ECE Astronia Univ |  |
| 4. Dr. D. Krishna Reddy | Professor of ECE CBIT |  |
| 5. Mr. P. Sampath Kumar | Scientist - E RI - HYD |  |
| 6. Dr. P. Padmaja | Member Secretary Avt of ECE |  |
| 7. Dr. C. Annapalagan | Prof of ECE TKREC |  |
| 8. Dr. K.V. Muralimohan | Professor & principal TKREC |  |
| 9. Dr. D. Venkata Chary | Assoc. Professor TKREC |  |
| 10. Dr. E. Radhamma | Assoc. Professor TKREC |  |
| 11. Dr. R. Shankar | Professor TKREC | |
| 12. Dr. S. Nagireddy | Assoc. Professor TKREC |  |
| 13. Dr. G.C.K. Reddy | Assoc. Professor TKREC |  |
| 14. Dr. G. Sireesha | Assoc. Prof TKREC |  |




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Meeting minutes

At the outset Dr. S. Umra Faruk, Head, Department of Electronics and Communication Engineering and chairman of Board of studies welcomed all the members of BOS appraised the purpose of meeting. He also briefed the about the previous BOS meeting existing R20^{and} R22^{Regulations} and also presented the proposed draft copy of the R22 regulation Course Structure and Syllabus for 3rd and 4th year for approval.

- Board of Studies members reviewed the thoroughly (R22 - course structure & syllabus) unanimously recommended the following.

1. members recommended to incorporate object oriented programming as a open Elective under the Rule of 4.9 of R22 regulations.
2. Members recommended to discard the Quantitative aptitude and reasoning proposed by the chairman.
3. Committee members recommended to introduce Coding Techniques as a Professional Elective.
4. Committee members suggested to define 5 COs for each Theoretical Subject.
5. members recommended to incorporate Discrete Image Processing in Fourth Year instead of Third Year as a Professional Elective.



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6. Committee member is recommended to incorporate Artificial Intelligence as a Professional Elective
7. Members suggested to incorporate additional labs in Scripting Languages Lab in final year next semester.

Ravi
HOD/ECE
Teegala Krishna Reddy Engineering College
Medbowli, Meerpel, Hyderabad-57

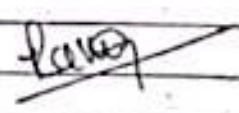
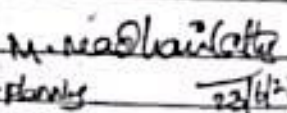

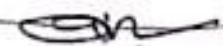
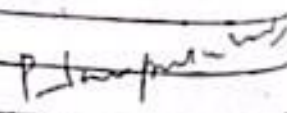
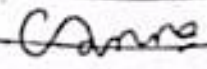

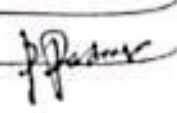


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1st BOARD OF STUDIES MEETING (ONLINE)

A Meeting of Board of studies for Electronics and Communication Engineering Department was held on 23rd June 2021 at 10:30 AM through online mode and the following points were suggested by the Board members towards the approval of B.Tech (UG) Course Structure and the Syllabus upto 4th Semester for the students admitted in 2020-21 Academic year.

Members Present

1. Dr. SK. UMAR PABU Prof. & Head
Chairman-BOS
TKREC (R9) 
2. Dr. M. MADHAVI LATHA Professor
Director Academic Planning
JADUH - Nominee 
3. Dr. B. RAJENDRA NAIK Prof. & Head
University College, OSM
Member-Expert 
4. Dr. D. KRISHNAREDDY Professor
CBIT, Hyd
Member-Expert 
5. P. Sampath Kumar Scientist (E)
R&D, Hyd
Industry Representation 
6. Dr. C. Annapalagan Professor
TKREC (R9) 
7. Dr. D. Vemanachary Professor, TKREC 
8. Dr. P. Padmasri Professor, TKREC
Member Secretary 



9. Dr. K. Venkata Murali Mohan

Prof. & HOD
TKREC.

1. Dr. M. Madhavi Latha Madam Suggested

- 1. To Incorporate Bio-Medical Electronics in Professional Elective-IV
- 2. To Rename Electronic Circuit Analysis as Analog Pulse Circuits with certain modifications in Syllabus
- 3. To Introduce Antenna and Simulation Lab to Enhance the Scope in related Domain
- 4. To Design Microwave Engineering as a Separate Course
- 5. To Rename Digital Logic Design as Switching Theory and Logic Design
- 6. To incorporate ^{more} Communication related subjects to fulfill the flavor of Communication Branch
- 7.

2. Dr. B. Rajendra Prasad Suggested

- 1. To include Global Positioning System in V/VII Semster
- 2. To incorporate Speech processing in Course in professional Elective
- 3. To Rename Chemistry as Engg Chemistry



3. Dr. D. Krishna Reddy sir Suggested

1. To introduce mandatory course so as to promote industry requirements.
2. To include ~~two~~ courses such as - Analytical and logical thinking.
3. Courses on Design Thinking, Quantum Computing, Drone and its applications, pattern recognition, etc. ~~of~~ ~~the~~ ~~radio~~, industry expo also be planned to include as elective.

4. Mr. P. Sampath Kumar sir Suggested

1. To incorporate more simulation based laboratories.
2. To introduce industry oriented internship in the end of Fourth Semester.

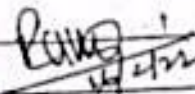


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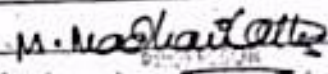
2nd BOARD OF STUDIES MEETING (ONLINE)

Board of studies meeting of the Department of Electronics and Communication Engineering was conducted on 16/02/22 at 3:00 PM through online mode and suggested by the members - few points towards the approval of B.Tech course structure and Syllabus (upto 8th sem) - for the students admitted in 2020-21 Academic Year.

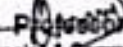
1. Dr. SK. UMAR FARUK
Prof & Head
Chairman - BES



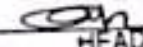
2. Dr. M. Madhavi Lalitha
Professor
Director & Academic Planner
JNTUH - Adilabad



3. Dr. B. Rajendra Naik
Professor
University of Hyderabad
Dept. of Electronics & Communication Engg.
Member - eophsud University, Hyderabad-500 007.



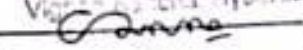
4. Dr. D. Krishna Reddy
Professor & Head
CBIT, Hyd
member expert
HEAD
DEPARTMENT OF ECE
Chaitanya Bharathi Institute of Tech,
Hyderabad-500 075



5. Mr. P. Sampath Kumar
Scientist (E)
RCI, Hyd
Industry Representative



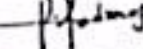
6. Dr. C. Anna Palagan
Professor
TKREC(R)



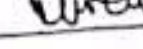
7. Dr. D. Venana Chary
Professor
TKREC(R)



8. Dr. P. Padmaja
Professor
member Secretary



9. Dr. K. Venkata muali Holan
Professor





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Dr. M. madhavi Lalla madam Suggested

1. To Incorporate Computer Networks and its associated Lab in 5th sem
2. To incorporate Advanced Programming Languages Like Python Programming as Lab/practical
3. To include the Electronic measurements and Instrumentation as professional Elective
4. To incorporate Data Analytics as professional Elective

Dr. D. Krishna Reddy sir Suggested To

1. To Incorporate industry oriented subjects like IoT and its applications, Radio Frequency Circuits,
2. To incorporate Artificial Intelligence as professional Elective

Dr. P. Sampath Kumar Suggested

1. To introduce Comprehensive Test to assess the students at the end of the programme

Dr. B. Rajendra Naik sir

1. suggested to introduce Radar system of PE

Recommendation for Re-admission Students :-

- No substitute subjects are recommended if any candidate takes re-admission into R20 (Autonomous) from R10 (JNTU) in B.Tech II-2 from B.Tech I-I, II-II, III-I, III-II, IV-I & IV-II.



V SEMESTER

| S. No. | Course Code | Course Title | L | T | P | Credits |
|--------|-------------|---|-----------|----------|----------|-------------|
| 1 | 20SM5MS01 | Business Economics & Financial Analysis | 3 | 0 | 0 | 3 |
| 2 | 20EC5PC14 | Antenna and Wave Propagation | 3 | 1 | 0 | 4 |
| 3 | 20EC5PC15 | Computer Networks | 3 | 0 | 0 | 3 |
| 4 | 20EC5PC16 | Microprocessors & Microcontrollers | 3 | 1 | 0 | 4 |
| 5 | | Professional Elective - I | 3 | 0 | 0 | 3 |
| 6 | 20EC5PC17 | Computer Networks Lab | 0 | 0 | 2 | 1 |
| 7 | 20EC5PC18 | Microprocessors & Microcontrollers Lab | 0 | 0 | 3 | 1.5 |
| 8 | 20EN5HS05 | Advanced Communication Skills Lab | 0 | 0 | 2 | 1 |
| 9 | 20MC5HS06 | Intellectual Property Rights | 3 | 0 | 0 | 0 |
| 10 | 20MC5HS07 | Personality Development and Soft Skills | 2 | 0 | 0 | 0 |
| 11 | 20EC5PW01 | Summer Internship | 0 | 0 | 0 | 1 |
| | | Total Credits | 20 | 2 | 8 | 21.5 |

VI SEMESTER

| S. No. | CourseCode | Course Title | L | T | P | Credit s |
|--------|------------|-------------------------------|-----------|----------|----------|-------------|
| 1 | 20EC6PC19 | Control Systems | 3 | 1 | 0 | 4 |
| 2 | 20EC6PC20 | Digital Signal Processing | 3 | 1 | 0 | 4 |
| 3 | 20EC6PC21 | VLSI Design | 3 | 1 | 0 | 4 |
| 4 | | Professional Elective - II | 3 | 0 | 0 | 3 |
| 5 | | Open Elective - I | 3 | 0 | 0 | 3 |
| 6 | 20EC6PC22 | Digital Signal Processing Lab | 0 | 0 | 3 | 1.5 |
| 7 | 20EC6PC23 | e - CAD Lab | 0 | 0 | 3 | 1.5 |
| 8 | 20 EC6PC24 | Python programming Lab | 0 | 0 | 3 | 1.5 |
| 9 | 20MC6HS08 | Basic Technical Training | 3 | 0 | 0 | 0 |
| | | Total Credits | 18 | 3 | 8 | 22.5 |

P Sampath Kumar
P SAMPATH KUMAR
 Scientist - E
 RCI, GPO, No. 17, D. Balakrishna
 Nagar, K. P. 2nd, Hyderabad

Dr. D. Krishna Reddy
Dr. D. Krishna Reddy
 Prof & Head
 CBIT, HYD

M. Neelakantaiah

PROFESSOR
 Dept of Electronics & Communication Engg.
 JNTU College of Engineering, Hyderabad

Dr. Arjun

Professor
 Dept. of Electronics & Communication Engg.
 Univ. College of Engineering
 Osmania University, Hyderabad-500 007.



Principals
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VII SEMESTER

| S. No. | Course Code | Course Title | L | T | P | Credits |
|--------|-------------|---|-----------|----------|-----------|-----------|
| 1 | 20EC7PC25 | Microwave Engineering | 3 | 0 | 0 | 3 |
| 2 | | Professional Elective - III | 3 | 0 | 0 | 3 |
| 3 | | Professional Elective - IV | 3 | 0 | 0 | 3 |
| 4 | | Open Elective - II | 3 | 0 | 0 | 3 |
| 5 | 20SM7MS02 | Fundamentals Of Management For Engineers | 2 | 0 | 0 | 2 |
| 6 | 20EC7PC26 | Microwave Engineering Lab | 0 | 0 | 2 | 1 |
| 7 | 20EC7PW02 | Industrial Oriented Mini Project/ Summer Internship | 0 | 0 | 0 | 2 |
| 8 | 20EC7PC27 | Comprehensive Exam | 0 | 0 | 0 | 1 |
| 9 | 20EC7PC28 | Seminar | 0 | 0 | 2 | 1 |
| 10 | 20EC8PW03 | Project Stage - I | 0 | 0 | 6 | 3 |
| | | Total Credits | 14 | 0 | 10 | 22 |

VIII SEMESTER

| S. No. | Course Code | Course Title | L | T | P | Credits |
|--------|-------------|----------------------------|----------|----------|-----------|-----------|
| 1 | | Professional Elective - V | 3 | 0 | 0 | 3 |
| 2 | | Professional Elective - VI | 3 | 0 | 0 | 3 |
| 3 | | Open Elective - III | 3 | 0 | 0 | 3 |
| 4 | 20EC8PW04 | Project Stage - II | 0 | 0 | 14 | 7 |
| | | Total Credits | 9 | 0 | 14 | 16 |

P. Jayaprakash
P. Jayaprakash
 School of Electronics & Communication Engineering
 Vignana Knowledge Hyderabad

Dr. D. Krishna Reddy
Dr. D. Krishna Reddy
 Prof & Head
 CBIT, HED

M. Madhavi Lakshmi

PROFESSOR
 Dept of Electronics & Communication Engg.
 JNTU College of Engineering - Hyderabad

Dr. S. Srinivas
Professor

Dept. of Electronics & Communication Engg.
 Univ. College of Engineering
 Osmania University, Hyderabad-500007.



V. Prasad
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10
3rd Board of Studies Meeting

→ A meeting of Board of Studies for CSE department was held on 03 November 2022 through online mode by the following members for the approval of course structure and syllabus of P22 Regulation.

→ As per the Regulation (P22) given by JNTUH, Teegala Krishna Reddy Engineering College (TKR) of CSE department is following the same course structure.

→ As per the Regulation (P22) given by JNTUH, we are following the same syllabus upto 2nd Year II semester of all courses.

→ As per the Regulation (P22) given by JNTUH, we are following the same syllabus for 1st Year ECE, EEE & CIVIL. i.e.

→ ECE (1-1) - C Programming for Engineering.
(1-2) - Applied Python Programming Laboratory.

→ EEE (1-1) - C Programming and Data Structures
(1-2) - Applied Python Programming

→ CIVIL (1-1) - C Programming and Data Structures
(1-2) - Python Programming Laboratory.

→ Due to deficiency of one credit in Ist semester AI lab has been introduced by JNTUH.

(Industry expert)

P. Madhukumar
(Industry expert)

Dr. D. Vasumathi
Professor - CSE
JNTUH Nellore

Dr. E. Suresh Babu
Department of Computer Science & Engineering
National Institute

Dr. ...
...
...
...
...

1. Dr. Ch. V. Phani Krishna

Prof & Head
CSC department
Pres. Chairman
TKREC (R9)

2. Dr. K. Bhargavi

Prof - CSC dept
Bos. Member
TKREC (R9)

3. PV Rama Gopal Rao

Asst Prof, CSC
Bos Member
TKREC (R9)

4. G. Susha

Asst Professor CSC
Bos Member
TKREC (R9)

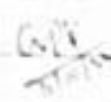
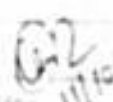
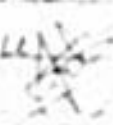

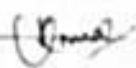




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14 Minutes of the Board of Studies
Meeting - II dated on 11-12-2015

The Board of Studies for CSE department of
Teejaga Krishna Reddy Engineering College
conferred a meeting on 11-12-2015

Present Members

1. Dr. Ch. V. Phani Krishna  Professor & Head of CSE Dept.
Chairman - BOS, TRCCET
2. Dr. D. Vasumathi  Professor, HOD - CSE
Director of University Foreign Dept.
JNTUHI - Nominee
Karnataka, Hyderabad, Telangana
3. Dr. E. Swish Babu  Asst Prof. NIT - Warangal
Member
4. Dr. B. Sujatha  Asst Prof. CU - COE
Member
5. P. Madhu Kumar Reddy  Associate Director - Nerrak
Industry expert
6. Dr. B. Srinivas Rao  Professor & Dean - Academic
Member
7. Dr. K. Bhargavi  Asst. Professor, R9-Bos
Member secretary

The agenda points and resolutions are
as follows :-

Agenda:

IV.1. Additional or substitute subjects for readmitted students in I B Tech, I Semester under TKREC R22 Regulations.

IV.2. Additional or substitute subjects for readmitted students in I B Tech II Semester from TKREC R20 Regulations to TKREC R22 Regulations

IV.3. Additional subjects for II B Tech I Semester Students from TKREC R20 Regulations to TKREC R22 Regulations

IV.4. Additional or substitute subjects for II B Tech II Semester Students from TKREC R20 Regulations to TKREC R22 Regulations

IV.5 Additional or substitute subjects for IV B Tech I Semester students from JNTU R18 regulations to TKREC R20 Regulations

IV.6. Readmission for Students admitted to the same regulations from the same regulations.

Resolutions

IV.1. Resolution: Students admitted under TKREC R22 regulations, previously detained due to attendance shortage from either TKREC R20 or TKREC R22 Regulations, seeking readmission in I B Tech, I Semester, must adhere to R22 Regulations. No additional or substitute subjects are required for their studies.

IV.2. Resolution: Students admitted under TKREC R20 regulations, who were detained due to attendance shortage in I B Tech, II Semester and seek readmission for A.Y 2023-24 must comply with R22 Regulations. They are required to take the following mandatory substitution subjects due to subject repetition and to balance the one credit shortage in TKREC R20 Regulations. The syllabus for the substitution subjects will be as per the BOS approved syllabus of TKREC R22 Regulations.

| S. No | Subject studied in R20 and repeated subject in R22 | No of Credits | Substitution Subjects in R22 | No of Credits |
|---------------|--|---------------|--|---------------|
| 1 | Engineering Workshop | 2.5 | Computer Aided Engineering Graphics | 2.5 |
| 2 | English | 2 | Programming for Problem-Solving | 3 |
| 3 | English Language and Communication Skills Lab | 1 | Programming for Problem-Solving Laboratory | 1 |
| Total Credits | | 5.5 | Total Credits | 6.5 |

IV.3. Resolution: Students admitted under TKREC R20 regulations, who were detained due to credit shortage or attendance shortage and seek readmission in II B Tech, I Semester must comply with R22 Regulations and must study the following additional subjects to balance the shortage of 3 credits to get the B Tech degree with Minimum of 160 credits. The syllabus for the additional subjects will be as per the BOS approved syllabus of TKREC R22 Regulations

| S. No | Name of Substitution Subjects in R22 Regulations | No of Credits |
|-------|--|---------------|
| 1 | Python Programming | 2 |
| 2 | Elements of Computer Science | 1 |

IV.4. Resolution: Students admitted under TKREC R20 regulations, who were detained due to attendance shortage and seek readmission in II B Tech, II Semester must comply with R22 Regulations, and no additional or substitute subjects are required to study.

IV.5 Resolution: Students admitted under JNTU R18 regulations, who were detained due to credit shortage and seek readmission in IV B Tech, I Semester must comply with TKREC R20 Regulations, and no additional or substitute subjects are required since the College is following JNTU R18 curriculum only.

IV.6. Resolution: Students readmitted under the same regulations need not study any additional or substitute subjects.

Bhargavi
(Dr. K. Bhargavi)
(Member Secretary)

B. Srinivas
(Dr. B. SRINIVASA IAS)

ChV

Dr. CH.V. PHANI KRISHNA
Ph.D
Head Of The Department
Computer Science and Engineering
Teegala Krishna Reddy Engineering College
Medbowli, Meerpet, Sarani Nagar, Hyd-79



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Minutes of the V Board of Studies Meeting

The Board of Studies for the Computer Science and Engineering (CSE) Department of Teegala Krishna Reddy Engineering College was convened on 24.01.2024 at 2.30 P.M. The meeting took place in a blended mode at the Board Room.

Agenda:

- 1) Review and finalize the R22 III and IV year B Tech CSE detailed syllabus.
- 2) Review and finalize the R22 Professional Electives, Open Electives and their Syllabus.

Members Present

| S.No | Name of the Expert | Designation | Position |
|------|---|---------------------------------|------------------|
| 1 | Dr Ch V Phani Krishna | Professor & HOD CSE, TKRE (107) | Chairman BOS |
| 2 | Dr Vasumathi | Professor - CSE - JNTUH | JNTUH Nominee |
| 3 | Dr E Suresh Babu | Asst Professor, NIT Warangal | Member |
| 4 | Dr B Sujatha | Asst Professor, OU COE | Member |
| 5 | Mr P Madhu Kumar Reddy | Associate Director, Novartis | Industry Expert |
| 6 | Dr . B. Srinivas Rao | Professor & Dean Academics | Member |
| 7 | Dr. Madhu Babu BNV | Professor | Member |
| 8 | Dr Suresh Babu M | Professor | Member |
| 9 | Dr A Pranayanath Reddy | Associate Professor, | Member Secretary |
| 10 | All the faculty Members of CSE Department | | |

Agenda items and Resolution

Agenda 5.1: Review and finalize the R22 III and IV-year B Tech CSE detailed syllabus

Resolution: The committee has reviewed and finalized the R22 III and IV-year B Tech CSE detailed syllabus. The finalized syllabus incorporates relevant and up-to-date topics. The committee approved syllabus for implementation in the upcoming academic sessions.

Agenda 5.2: Review and finalize the R22 Professional Electives, Open Electives and their Syllabus

Resolution : The committee diligently examined the R22 Professional Electives, Open Electives, and their respective syllabus. Taking into account the evolving needs of the industry, the committee approve the proposed list of Professional Electives and Open Electives and the committee has finalized the syllabi for these electives ensuring they align with the overall program objectives and industry requirements. The committee also approve the adoption of these electives and their corresponding syllabi, providing students with courses that enhance their academic and professional development.

Handwritten signature:
P.M. Madhu Kumar

Handwritten signature:
Director of University For
JNT University Hyderabad
Kukatpally, Hyderabad



Handwritten signature:
PRINCIPAL
Teegala Krishna Reddy Engineering College
(UGC-AUTONOMOUS)
Medbowli, Medowli, Hyderabad

Assist
Dept of Com
University C
Omaria Univer

B Tech II Year I Semester (R22)

| S. No | Subject Code | Category | Subject Name | Hours per | | | Credits |
|--------------|--------------|----------|--|-----------|----------|-----------|-----------|
| | | | | L | T | P | |
| 01 | 22EC308PC | PC | Digital Electronics | 3 | 0 | 0 | 3 |
| 02 | 22CS301PC | PC | Data Structures | 3 | 0 | 0 | 3 |
| 03 | 22MA302BS | BS | Computer Oriented Statistical Methods | 3 | 1 | 0 | 4 |
| 04 | 22IT301PC | PC | Computer Organization and Microprocessor | 3 | 0 | 0 | 3 |
| 05 | 22IT302PC | PC | Introduction to IoT | 2 | 0 | 0 | 2 |
| 06 | 22EC309PC | PC | Digital Electronics Lab | 0 | 0 | 2 | 1 |
| 07 | 22CS304PC | PC | Data Structures Lab | 0 | 0 | 3 | 1.5 |
| 08 | 22IT303PC | PC | Internet of Things Lab | 0 | 0 | 3 | 1.5 |
| 09 | 22MC309 | | Gender Sensitization Lab | 0 | 0 | 2 | 0 |
| 10 | 22CS306PC | PC | Skill Development Course (Data visualization- R Programming/ Power BI) | 0 | 0 | 2 | 1 |
| Total | | | | 14 | 1 | 12 | 20 |

B Tech II Year II Semester (R22)

| S. No | Subject Code | Category | Subject Name | Hours per | | | Credits |
|--------------|--------------|----------|---|-----------|----------|-----------|-----------|
| | | | | L | T | P | |
| 01 | 22MA401BS | BS | Discrete Mathematics | 3 | 0 | 0 | 3 |
| 02 | 22SM401MS | MS | Business Economics & Financial Analysis | 3 | 0 | 0 | 3 |
| 03 | 22CS401PC | PC | Operating Systems | 3 | 0 | 0 | 3 |
| 04 | 22CS402PC | PC | Database Management Systems | 3 | 0 | 0 | 3 |
| 05 | 22IT401PC | PC | Java Programming | 2 | 0 | 0 | 2 |
| 06 | 22CS404PC | PC | Operating Systems Lab | 0 | 0 | 2 | 1 |
| 07 | 22CS405PC | PC | Database Management Systems Lab | 0 | 0 | 2 | 1 |
| 08 | 22IT402PC | PC | Java Programming Lab | 0 | 0 | 2 | 1 |
| 09 | 22IT401PW | PW | Real-time Research Project/ Societal Related Project | 0 | 0 | 4 | 2 |
| 10 | 22MC410 | | Constitution of India | 0 | 0 | 2 | 0 |
| 11 | 22CS406PC | PC | Skill Development Course(Node JS/ React JS/Django) | 3 | 0 | 0 | 1 |
| Total | | | | 17 | 0 | 12 | 20 |

U...
P. Madhukumar

Director
Directorate of University Foreign Relations
JNT University Hyderabad
Nalgonda, Hyderabad, Telangana

Dr. B. Sujatha

Dr. B. Sujatha
Assistant Professor
Dept. of Computer
University Co
Osmania Univ


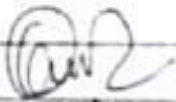


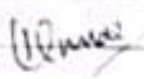
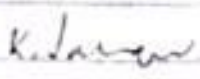
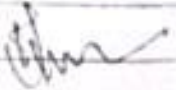
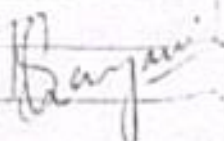
Dr. E. Suresh Babu
Department of Computer Science & Eng
T.S. Jada
National Institute of Technology, W

22/6/2021²
11:00 AM

1st Board of Studies Meeting (Online Mode)

A meeting of Board of Studies for CSE department was held on 22 June 2021, at 11:00 AM through online mode and the following points were suggested by the following members towards the approval of course structure, syllabus upto 4th semester (R20) for the students admitted in 2020-21 Academic Year.

The Members Present

1. Dr. Ch. V. Phani Krishna Professor & Head of CSE Dept, Chairman-BOS, TKRECC(R9) 
2. Dr. D. Vasumathi Professor, HoD-CSE INTUH Nominee 
3. Dr. E. Suresh Babu Asst. Prof. NIF-Warangal Member 
4. Dr. B. Sujatha Asst. Prof. OU-COE Member 
5. P. Madhu Kumar Reddy Asso. Director Navastis (Industry Expert) 
6. Dr. K. Sarangam Asst. Prof. R9-BOS Member 
7. Dr. N. Vadivelan Asst. Prof. R9-BOS Member 
8. Dr. K. Bhargavi Asst. Prof. R9-BOS Member Secretary 

1. Dr. D. Vasumathi Madam suggested

- a) Configure the topics in Programming for Problem Solving from next regulations onwards.
- b) R-programming with Data science to be updated in Data structures.

2. Dr. K. Suresh Babu Sir suggested

- a) To arrange the programs/experiments in any Lab courses in the order with respect to the theory.
- b) In object oriented Programming Lab course incorporate experiments from Polymorphism, Inheritance & Exception Handling.
- c) In Design & Analysis of Algorithms - Theory, Greedy Method should come before Dynamic Programming.

3. Dr. B. Sujatha Ma'am suggested

- a) Introduce Shortest path & other related concept in Design & Analysis Algorithms practical course.
- b) As searching & sorting topics are already covered in Data structures, hence not to incorporate in Design & Analysis of Algorithms.
- c) Adding of some concepts like Pattern Matching Algorithm, Trie, Red Black tree & splay tree from Data structures to Advance Data structures.

4. Mr. P. Mathu Kumar Dobby suggested
- to introduce mandatory courses, so as to promote industry requirements.
 - courses with analytical & logical thinking can be introduced as a part of curriculum.

5. Dr. D. Vasumathi Modam suggested to
- incorporate Analog & Digital Electronics in II year I sem in place of Digital Logic Design.

- Operating systems and Retail Business Economics & Financial Analysis to be substituted in II year II sem in place of IIIrd year.

- Automata Theory & DAA (Design & Analysis of Algorithms) to be moved to III year I sem & III year II sem respectively.

- Mandatory course constitution of India incorporated in IIIrd year.

- Incorporate Data Science concepts in R-programming course - IIIrd year I sem.

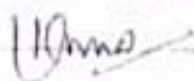
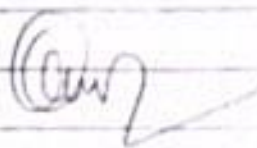
f) Rearrange Elective courses as with respect to Professional core.

- Professional Elective I - introduce Artificial Intelligence as one of Elective course
- Professional Elective-II - incorporate MLIX
- Professional Elective-IV - incorporate Deep Learning as one of the course.
- Professional Elective-V - incorporate Blockchain Technology
- Professional Elective-VI - incorporation of Augmented Reality as one of the course.

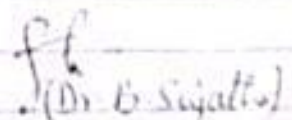
g) Mam asked to prepare the syllabus for 2nd year & 4th year - Professional core (PC) & Professional Electives (PE's) as per the suggestions given in BOS Meeting.

6th 2nd Board of Studies meeting

- A meeting was held for Board of Studies of CSE Department through online mode on 11.02.22 at 12:30 PM to finalize the 1st and 4th year syllabus of P20. The following members were present and taken the following decisions
- The 3rd and 4th year detailed syllabus for P20 regulations of Teegala Krishna Reddy Engineering College (Autonomous) was completely approved
- Dr. D. Vasumathi, Professor + HOD - CSE, JNTUH suggested to change UNIX Programming in Professional elective II with DevOps.
- Madam suggested Augmented Reality with augmented and virtual Reality.
- And also she suggested incorporate Digital Image Processing in Professional elective III.
- In Professional elective six madam suggested - in place of HCI change with Randomized algorithms.



Pradeep Kumar



Asst Professor

Dept of CSE
Ossunil University, Hyd

1. D. CH. V. Phani Krishna

Professor head

CSE Department.

BOS Chairman, *(MPS)*

TRFEC (Pg)

2. Dr. A. Bhargavi

Professor, CSE Department

BOS Member

TRFEC (Pg)

3. P. V. Ramagopal Rao

Asst. Professor, CSE DEPT.

BOS member

TRFEC (Pg)

4. G. Susha

Asst. Professor, CSE Dept

BOS member

TRFEC (Pg)



K. R. S.
PRINCIPAL

Teegala Krishna Reddy Engineering College
(UGC-AUTONOMOUS)
Medbowli, Meerpet, Hyderabad - 97.

II Year B.Tech. CSE - II Sem

| S. No | Subject Code | Category | Subject Name | Hours per | | | Credits |
|--------------|--------------|----------|---|-----------|----------|----------|-----------|
| | | | | L | T | P | |
| 01 | 20MA4PC07 | PC | Discrete Mathematics | 3 | 0 | 0 | 3 |
| 02 | 20MS4HS03 | MS | Business Economics and Financial Analysis | 3 | 0 | 0 | 3 |
| 03 | 20CS4PC08 | PC | Java Programming | 3 | 1 | 0 | 4 |
| 04 | 20CS4PC09 | PC | Operating Systems | 3 | 0 | 0 | 3 |
| 05 | 20CS4PC10 | PC | Database Management Systems | 3 | 1 | 0 | 4 |
| 06 | 20CS4PC11 | PC | Operating Systems Lab | 0 | 0 | 3 | 1.5 |
| 07 | 20CS4PC12 | PC | Java Programming Lab | 0 | 0 | 3 | 1 |
| 08 | 20CS4PC13 | PC | Database Management Systems Lab | 0 | 0 | 3 | 1.5 |
| 09 | 20MC4HS03 | MC | Gender Sensitization Lab | 3 | 0 | 0 | 0 |
| 10 | 20MC4BS03 | MC | Quantitative Logical and Reasoning | 3 | 0 | 0 | 0 |
| Total | | | | 21 | 2 | 9 | 21 |

III Year B.Tech. CSE - I Sem

| S. No | Subject Code | Category | Subject Name | Hours per | | | Credits |
|--------------|--------------|-----------|---|-----------|----------|----------|-----------|
| | | | | L | T | P | |
| 01 | 20CS5PC14 | PC | Formal Languages and Automata Theory | 3 | 0 | 0 | 3 |
| 02 | 20CS5PC15 | PC | Software Engineering | 3 | 0 | 0 | 3 |
| 03 | | PE- I | Professional Elective- I | 3 | 0 | 0 | 3 |
| 04 | 20CS5PC16 | PC | Design and Analysis of Algorithms | 3 | 1 | 0 | 4 |
| 05 | | PE-II | Professional Elective- II | 3 | 0 | 0 | 3 |
| 06 | | PE-II Lab | Professional Elective- II Lab | 0 | 0 | 3 | 1.5 |
| 07 | 20CS5PC17 | PC Lab | Design and Analysis of Algorithmslab | 0 | 0 | 3 | 1.5 |
| 08 | 20EN5HS04 | HS Lab | Advanced Communication Skills Lab | 0 | 0 | 3 | 1 |
| 09 | 20CS5PW01 | PW | Summer Internship | 0 | 0 | 0 | 1 |
| 10 | 20MC5HS05 | MC | Intellectual Property Rights | 3 | 0 | 0 | 0 |
| 11 | 20MC5HS06 | MC | Personality and Soft Skills Development | 3 | 0 | 0 | 0 |
| Total | | | | 21 | 1 | 9 | 21 |

Professional Elective – I

| S. No | Subject Code | Subject Name |
|-------|--------------|-------------------------------------|
| 1 | 20CS5PE11 | Artificial Intelligence |
| 2 | 20CS5PE12 | Advanced Computer Architecture |
| 3 | 20CS5PE13 | Data Mining |
| 4 | 20CS5PE14 | Principles of Programming Languages |
| 5 | 20CS5PE15 | Information Retrieval System |

Professional Elective – IV

| S. No | Subject Code | Subject Name |
|-------|--------------|-----------------------------|
| 1 | 20CS7PE41 | Graph theory |
| 2 | 20CS7PE42 | Natural Language Processing |
| 3 | 20CS7PE43 | Neural Networks |
| 4 | 20CS7PE44 | Cloud Computing |
| 5 | 20CS7PE45 | Ad-hoc & Sensor Networks |

Professional Elective – III Lab

| S. No | Subject Code | Subject Name |
|-------|--------------|------------------------------------|
| 1 | 20CS6PE35 | Digital Image Processing Lab |
| 2 | 20CS6PE36 | Network Programming Lab |
| 3 | 20CS6PE37 | Scripting Languages Lab |
| 4 | 20CS6PE38 | Mobile Application Development Lab |
| 5 | 20CS6PE39 | Software Testing Methodologies Lab |

Open Elective-I

| S. No | Subject Code | Subject Name |
|-------|--------------|--------------------------------------|
| 01 | 20CS6OE11 | Java |
| 02 | 20CS6OE12 | Computer Organization & Architecture |

* Open Elective subjects' syllabus is provided at the end of the document.

* Open Elective – Students should take Open Electives from the List of Open Electives Offered by Other Departments/Branches Only.

Ex: - A Student of Mechanical Engineering can take Open Electives from all other departments/branches except Open Electives offered by Mechanical Engineering Dept.

IV Year B.Tech. CSE - I Sem

| S. No | Subject Code | Category | Subject Name | Hours per | | | Credits |
|--------------|--------------|----------|----------------------------------|-----------|----------|-----------|-----------|
| | | | | L | T | P | |
| 1 | 20CS7PC24 | PC | Block Chain Technology | 2 | 1 | 0 | 3 |
| 2 | 20CS7PC25 | PC | Data Science and R-Programming | 3 | 0 | 0 | 3 |
| 3 | | PE-IV | Professional Elective- IV | 3 | 0 | 0 | 3 |
| 4 | | PE-V | Professional Elective- V | 3 | 0 | 0 | 3 |
| 5 | | OE-II | Open Elective- II | 3 | 0 | 0 | 3 |
| 6 | 20CS7PC26 | PC LAB | R-Programming Lab | 0 | 0 | 3 | 1 |
| 7 | 20CS7PW02 | PW | Seminar | 0 | 0 | 0 | 1 |
| 8 | 20CS7PW03 | PW | Comprehensive Test | 0 | 0 | 0 | 1 |
| 9 | 20CS7PW04 | PW | Industrial Oriented Mini Project | 0 | 0 | 3 | 2 |
| 10 | 20CS7PW05 | PW | Project Stage- I | 0 | 0 | 6 | 3 |
| 11 | 20MC7CS02 | MC | Advanced Technical Training | 3 | 0 | 0 | 0 |
| Total | | | | 17 | 1 | 12 | 23 |

Professional Elective – IV

| S. No | Subject Code | Subject Name |
|-------|--------------|-----------------------------|
| 1 | 20CS7PE41 | Graph theory |
| 2 | 20CS7PE42 | Natural Language Processing |
| 3 | 20CS7PE43 | Neural Networks |
| 4 | 20CS7PE44 | Cloud Computing |
| 5 | 20CS7PE45 | Ad-hoc & Sensor Networks |

Professional Elective – V

| S. No | Subject Code | Subject Name |
|-------|--------------|---------------------------------------|
| 1 | 20CS7PE51 | High Performance Computing |
| 2 | 20CS7PE52 | Real Time Systems |
| 3 | 20CS7PE53 | Deep Learning |
| 4 | 20CS7PE54 | Design Patterns |
| 5 | 20CS7PE55 | Software Process & Project Management |

Open Elective-II

| S. No | Subject Code | Subject Name |
|-------|--------------|-------------------------|
| 01 | 20CS7OE21 | Operating System |
| 02 | 20CS7OE22 | Artificial Intelligence |

* Open Elective subjects' syllabus is provided at the end of the document.

* Open Elective – Students should take Open Electives from the List of Open Electives Offered by Other Departments/Branches Only.

Ex: - A Student of Mechanical Engineering can take Open Electives from all other departments/branches except Open Electives offered by Mechanical Engineering Dept.
IV Year B.Tech. CSE - II Sem

| S. No | Subject Code | Category | Subject Name | Hours per | | | Credits |
|--------------|--------------|----------|---------------------------|-----------|----------|-----------|-----------|
| | | | | L | T | P | |
| 1 | 20SM8MS02 | PC | Organizational Behavior | 3 | 0 | 0 | 3 |
| 2 | | PE-VI | Professional Elective- VI | 3 | 0 | 0 | 3 |
| 3 | | OE-III | Open Elective- III | 3 | 0 | 0 | 3 |
| 4 | 20CS8PW06 | PW | Project Stage-II | 0 | 0 | 15 | 7 |
| Total | | | | 9 | 0 | 15 | 16 |

Professional Elective – VI

| S. No | Subject Code | Subject Name |
|-------|--------------|-----------------------------|
| 1 | 20CS8PE61 | Augmented & Virtual Reality |
| 2 | 20CS8PE62 | Modern Software Engineering |
| 3 | 20CS8PE63 | Randomized Algorithms |
| 4 | 20CS8PE64 | Cognitive Computing |
| 5 | 20CS8PE65 | Cyber Forensics |

Open Elective-III

| S. No | Subject Code | Subject Name |
|-------|--------------|---------------------|
| 01 | 20CS8OE31 | Cyber Security |
| 02 | 20CS8OE32 | Scripting Languages |

Dr. CH.V. PHANI KRISHNA

Head of the Department

Computer Science and Engineering

Regala Krishna Reddy Engineering College

Medbowli, Meerpet, Sarnor Nagar, Hyderabad - 97.

PRINCIPAL

Regala Krishna Reddy Engineering College

(UGC-AUTONOMOUS)

Medbowli, Meerpet, Hyderabad - 97.

| | | | | | | |
|---|---------|---|-----------|----------|-----------|-----------|
| 3 | | Professional Elective -IV | 3 | 0 | 0 | 3 |
| 4 | | Professional Elective -V | 3 | 0 | 0 | 3 |
| 5 | | Open Elective - II | 3 | 0 | 0 | 3 |
| 6 | CS703PC | Cryptography & Network Security Lab | 0 | 0 | 2 | 1 |
| 7 | CS704PC | Industrial Oriented Mini Project/ Summer Internship | 0 | 0 | 0 | 2* |
| 8 | CS705PC | Seminar | 0 | 0 | 2 | 1 |
| 9 | CS706PC | Project Stage - I | 0 | 0 | 6 | 3 |
| | | Total Credits | 14 | 0 | 10 | 21 |

IV YEAR II SEMESTER

| S. No. | Course Code | Course Title | L | T | P | Credits |
|--------|-------------|----------------------------|----------|----------|-----------|-----------|
| 1 | SM801MS | Organizational Behaviour | 3 | 0 | 0 | 3 |
| 2 | | Professional Elective - VI | 3 | 0 | 0 | 3 |
| 3 | | Open Elective - III | 3 | 0 | 0 | 3 |
| 4 | CS802PC | Project Stage - II | 0 | 0 | 14 | 7 |
| | | Total Credits | 9 | 0 | 14 | 16 |

*MC - Environmental Science – Should be Registered by Lateral Entry Students Only.

*MC – Satisfactory/Unsatisfactory

Note: Industrial Oriented Mini Project/ Summer Internship is to be carried out during the summer vacation between 6th and 7th semesters. Students should submit report of Industrial Oriented Mini Project/ Summer Internship for evaluation.

Professional Elective - I

| | |
|---------|-------------------------------------|
| CS511PE | Information Theory & Coding |
| CS512PE | Advanced Computer Architecture |
| CS513PE | Data Analytics |
| CS514PE | Image Processing |
| CS515PE | Principles of Programming Languages |

Professional Elective - II

| | |
|---------|---------------------------------|
| CS521PE | Computer Graphics |
| CS522PE | Advanced Operating Systems |
| CS523PE | Informational Retrieval Systems |
| CS524PE | Distributed Databases |
| CS525PE | Natural Language Processing |

Professional Elective - III

| | |
|---------|--------------------------------|
| CS611PE | Concurrent Programming |
| CS612PE | Network Programming |
| CS613PE | Scripting Languages |
| CS614PE | Mobile Application Development |
| CS615PE | Software Testing Methodologies |

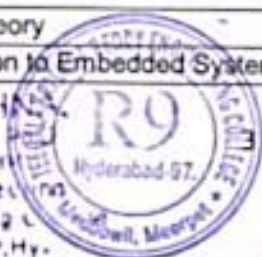
* Courses in PE - III and PE - III Lab must be in 1-1 correspondence.

Professional Elective - IV

| | |
|---------|----------------------------------|
| CS711PE | Graph Theory |
| CS712PE | Introduction to Embedded Systems |

Dr. CH.V. PHANI KRISHNA

Head Of The Department
Computer Science and Engineering
Teegala Krishna Reddy Engineering College
Medbowl, Meerpet, Saroor Nagar, Hy.



PRINCIPAL
Teegala Krishna Reddy Engineering College
(UGC-AUTONOMOUS)
Medbowl, Meerpet, Hyderabad - 97.

03/10/22

3rd Board of Studies Meeting

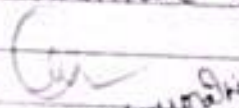
→ A meeting of Board of studies for IT Dept was held on 03 Nov'22 through online mode by the following members for the **approval to course structure and syllabus of R22 Regulation**


→ AS per the Regulation (R22) given by JNTUH, Teegala Krishna Reddy Engineering College (TKREC) IT Dept. is following the same course structure.

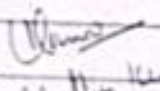
→ AS per the Regulation (R22), we are following the same syllabus of JNTUH upto final year 1st semester of all courses.

→ Electives has to be changed as per Dr. Vasunathi madam suggestion.

→ No substitute subjects for readmitted 1st sem B.Tech students.


 (Dr. D. Vasunathi)
 Asst. Prof. (CC)
 JNTUH
 Dr. E. Suresh Babu
 Department of Computer Science & Engineering
 National Institute of Technology
 Telangana
 (Asst. prof. NITW)


 Dr. B. Sujatha
 Assoc. Prof.
 Dept. of Comp. Science & Engg.
 JNTUH
 (Asst. prof. OU)


 (Industry Expert)
 Anandhi

Dr. J. Praveen Kumar

Assoc. Prof., HOD of IT Dept
Chairman BOS, TKREC(R9)

J.P.K

Dr. M. Ramya

Asst. Prof., Dept. of IT
Member, TKREC(R9)

M.Ramya

Ms. S. Pavani

Asst. Prof., Member, TKREC(R9)

S.Pavani

Mrs. E. Anura

Asst. Prof., Member Secretary II

E.Anura

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11th Minutes of the Board of Studies Meeting - 10

The Board of Studies for IT Department of Teegala Krishna Reddy Engineering College, convened a meeting on Wednesday at 10:30 AM in the Management Office.

Present:

1. Dr. V. Sidda Reddy Professor, HOD of IT, Chairman BOS, IKRECC(RD), Teegala Krishna Reddy Engineering College, Member, Hyderabad.
Head of the Department Information Technology
2. Dr. D. Vasumathi Professor, HOD-CSE, JNTUH Nominee
Prof. D. Vasumathi, JNTUH University Hyderabad
3. Dr. E. Suresh Babu Asst. Prof., NIT Warangal, Member.
Prof. E. Suresh Babu, NIT Warangal
4. Dr. B. Sujatha Asst. Prof., CU-COIMBATUR, Member.
Dr. B. Sujatha, CU-COIMBATUR
5. Mr. P. Madhukumar Reddy Assoc. Director, Novartis-Industry, Expert.
Mr. P. Madhukumar Reddy, Novartis-Industry
6. Dr. Rama Meedu Assoc. Professor, Member, IKRECC(RD).
Dr. Rama Meedu, IKRECC(RD)
7. Mrs. S. Pavani Asst. Professor, Member, IKRECC(RD).
Mrs. S. Pavani, IKRECC(RD)
8. Mrs. E. Aruna Asst. Professor, Member Secretary.
Mrs. E. Aruna, Member Secretary

Umesh

Agenda

4.1. Re-admission of II B.Tech, I Semester students under TKREC R20 Regulation admitted in the Academic year 2022-23 to TKREC R22 Regulation.

4.2. Credit Requirements for Re-admitted students under TKREC R20 Regulation admitted in the Academic year 2022-23 to TKREC R22 Regulation.

4.3. Re-admission of III B.Tech, I Semester students under TKREC R20 Regulation admitted in the Academic year 2021-22 to TKREC R22 Regulation.

4.4. Re-admission of IV B.Tech, I Semester students under TKREC R20 Regulation admitted in the Academic year 2020-21 to TKREC R20 Regulation.

Resolution:

4.1. Re-admitted students from R20 Regulations to R22 Regulations are required to follow the R22 Regulations and enroll in subjects starting from the II B.Tech, I sem onwards. Substitution subjects are not applicable as there is no subject repetition between the R20 regulations for the 2nd to 4th year.

4.2. Students who have been readmitted into II B.Tech, I sem, transitioning from R20 regulations to R22 Regulations must complete the following additional courses from the R22 Regulation.

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4.3. Students who have been readmitted into III year B.Tech, I Sem, transitioning from R20 Regulations to the same R20 Regulations will continue to adhere to the R20 regulations without any changes.

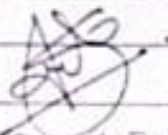
4.4. Students who have been readmitted into IV year B.Tech, I Sem, will adhere to follow R20 regulation of TREC.

St

Uname

Asst. Professor
Dept. of C.E.C. of EnGG.
Osmania University, Hyd.

P. Malhar Kumar



Dr. E. Suresh Babu
Assistant Professor
Department of Computer Science & Engineering
National Institute of Technology
Warangal - 506 004, T.S. INDIA

Uname

Minutes of the V Board of Studies Meeting

The Board of Studies for The Information Technology (IT) Department of Tatyasaheb Kore Institute of Engineering College was convened on 24/01/2024 at 2:30 P.M. The meeting took place in a blended mode at the Board Room.

Agenda:

- 1) Review and finalize the R22 III and IV-year B Tech IT detailed syllabus.
- 2) Review and finalize the R22 Professional Electives, Open Electives and their Syllabus.

Members Present

| S.No | Name of the Expert | Designation | Position |
|------|--|-------------------------------|------------------|
| 1 | Dr.J.Praveen Kumar | Professor & HOD IT, TKREC(R9) | Chairman-BOS |
| 2 | Dr.D. Vasumathi | Professor- CSE- JNTUH | JNTUH Nominee |
| 3 | Dr.L. Suresh Babu | Asst Professor, NIT Warangal | Member |
| 4 | Dr.B. Sujatha | Asst Professor, OU-COE | Member |
| 5 | Mr.P. Madhu Kumar Reddy | Associate Director, Novartis | Industry Expert |
| 6 | Dr . B. Srinivas Rao | Professor & Dean Academics | Member |
| 7 | Dr.Ramu Moodu | Associate Professor | Member |
| 8 | Mrs.S.Pavani | Assistant Professor | Member |
| 9 | Mrs.E.Aruna | Assistant Professor | Member Secretary |
| 10 | All the faculty Members of IT Department | | |

Agenda items and Resolution

Agenda 5.1: Review and finalize the R22 III and IV-year B Tech IT detailed syllabus.

Resolution: The committee has reviewed and finalized the R22 III and IV-year B Tech IT detailed syllabus. The finalized syllabus incorporates relevant and up-to-date topics. The committee approved syllabus for implementation in the upcoming academic sessions.

Agenda 5.2: Review and finalize the R22 Professional Electives, Open Electives and their Syllabus

Resolution: The committee diligently examined the R22 Professional Electives, Open Electives, and their respective syllabus. Taking into account the evolving needs of the industry, the committee approves the proposed list of Professional Electives and Open Electives and the committee has finalized the syllabi for these electives, ensuring they align with the overall program objectives and industry requirements. The resolutions affirm the adoption of these electives and their corresponding syllabi, providing students with choices that enhance their academic and professional development.

P. Madhu Kumar

Dr. J. Praveen Kumar
 Director of Information Technology
 JNT University Hyderabad
 Hyderabad, Telangana

Dr. L. Suresh Babu
 Asst. Prof.
 Dept. of CSE
 NIT Warangal

Dr. B. Sujatha
 Department of Computer Science & Engg.
 National Institute of Technology, Warangal
 Warangal, Telangana - INDIA - 506 004

in review

B Tech II Year I Semester (R22)

| S. No | Subject Code | Category | Subject Name | Hours per | | | Credits |
|-------|--------------|----------|--|-----------|---|----|---------|
| | | | | L | T | P | |
| 01 | 22EC308PC | PC | Digital Electronics | 3 | 0 | 0 | 3 |
| 02 | 22CS301PC | PC | Data Structures | 3 | 0 | 0 | 3 |
| 03 | 22MA302BS | BS | Computer Oriented Statistical Methods | 3 | 1 | 0 | 4 |
| 04 | 22IT301PC | PC | Computer Organization and Microprocessor | 3 | 0 | 0 | 3 |
| 05 | 22IT302PC | PC | Introduction to IoT | 2 | 0 | 0 | 2 |
| 06 | 22EC309PC | PC | Digital Electronics Lab | 0 | 0 | 2 | 1 |
| 07 | 22CS304PC | PC | Data Structures Lab | 0 | 0 | 3 | 1.5 |
| 08 | 22IT303PC | PC | Internet of Things Lab | 0 | 0 | 3 | 1.5 |
| 09 | 22MC309 | | Gender Sensitization Lab | 0 | 0 | 2 | 0 |
| 10 | 22CS306PC | PC | Skill Development Course (Data visualization- R Programming/ Power BI) | 0 | 0 | 2 | 1 |
| Total | | | | 14 | 1 | 12 | 20 |

B Tech II Year II Semester (R22)

| S. No | Subject Code | Category | Subject Name | Hours per | | | Credits |
|-------|--------------|----------|--|-----------|---|----|---------|
| | | | | L | T | P | |
| 01 | 22MA401BS | BS | Discrete Mathematics | 3 | 0 | 0 | 3 |
| 02 | 22SM401MS | MS | Business Economics & Financial Analysis | 3 | 0 | 0 | 3 |
| 03 | 22CS401PC | PC | Operating Systems | 3 | 0 | 0 | 3 |
| 04 | 22CS402PC | PC | Database Management Systems | 3 | 0 | 0 | 3 |
| 05 | 22IT401PC | PC | Java Programming | 2 | 0 | 0 | 2 |
| 06 | 22CS404PC | PC | Operating Systems Lab | 0 | 0 | 2 | 1 |
| 07 | 22CS405PC | PC | Database Management Systems Lab | 0 | 0 | 2 | 1 |
| 08 | 22IT402PC | PC | Java Programming Lab | 0 | 0 | 2 | 1 |
| 09 | 22IT401PW | PW | Real-time Research Project/ Societal-Related Project | 0 | 0 | 4 | 2 |
| 10 | 22MC410 | | Constitution of India | 0 | 0 | 2 | 0 |
| 11 | 22CS406PC | PC | Skill Development Course(Node JS/ React JS/Django) | 3 | 0 | 0 | 1 |
| Total | | | | 17 | 0 | 12 | 20 |



Directorate of University Foreign Relations
JNT University Hyderabad
K.J.Somayaji, Hyderabad, Telangana, India

U...
N Madhukumar

Dr. B. Sujatha
Assistant Professor
Dept. of Computer Science
University of Hyderabad



Dr. E. Suresh Babu
Assistant Professor
Dept. of Computer Science & Engineering
JNTU Hyderabad

22/06/2021
2:00pm

2nd 1st Board of Studies Meeting (Online mode)

A meeting of Board of studies for IT Department was held on 22nd June, 2021 at 11:00 AM through online mode and the following points were suggested by the following members to wards the **approval of Course structure, Syllabus upto 4th semester (R20)** for the students admitted in 2020-21 Academic year.

The following members attended

1. Dr. J. Praveen kumar Asso. Prof, HOD of IT, Chairman-BOS, TKREC(R9). JPK
2. Dr. D. Vasumathi Professor, HOD-CSE INTUH Nominee. [Signature] 22/6/21
3. Dr. E. Suresh Babu Asst. prof, NIT Warangal, Member. [Signature]
4. Dr. B. Sujatha Asst. prof, OU-COE Member. [Signature] 5/7/21
5. Mr. P. Madhu kumar Reddy Assoc. Director, Novartis-Industry expert. [Signature]
6. Dr. Ramu Moodu Assoc. Prof, Member, TKREC(R9). [Signature]
7. Mrs. S. Pavani Asst. prof, Member, TKREC(R9) [Signature]
8. Mrs. E. Aruna Asst. prof, Member Secretary. [Signature]

over

1) Dr. D. Vasumathi Madam Suggested

- a) Confine the topics in programming for problem solving from regulation onwards.
- b) R programming with data science to be updated in the course structure.

2) Dr. E. Suresh Babu Sir Suggested

- a) To arrange the programs/experiments in any practical courses in the order with respect to the theory.
- b) In Object oriented programming practical course incorporate experiments from polymorphism, inheritance and exception handling.
- c) In Design and Analysis of Algorithms - theory Greedy method should come before dynamic programming

3) Dr. B. Sujatha Madam Suggested

- a) Introduce shortest path and other related concepts in Design and Analysis of Algorithm practical course
- b) As searching and sorting topics are already covered in data structures, hence not to incorporate in Design and Analysis of Algorithms.
- c) Adding of some concepts like pattern matching algorithm tries, Red-black trees and splay trees from data structures to Advance data structures.

Suresh

- 4) Ms. P. Madhu kumar Reddy Suggested
- To introduce mandatory course, so as to parallel industry requirements.
 - Courses with Analytical and logical thinking can be introduced as a part of curriculum.

- 5) Dr. D. Vasumathi Madam Suggested
- Incorporate Analog & Digital electronics in II year I Semester in place of Digital logic Design.
 - Operating System and B&FA (Business Economics & Financial Analysis) to be substituted in II year II Semester in place of III year.

c) Automata theory & DAA (Design & Analysis of algorithms) to be moved to III year I Semester & III year II Semester respectively.

d) Mandatory course constitution of India incorporated in III year & II Semester.

e) Incorporate Data Science Concepts in R-programming course - IV year I Semester.

f) Rearrange elective courses as with respect to professional core.

- Professional elective - I - Introduce Artificial Intelligence as one of elective course.
- Professional elective - II - incorporate Machine Learning
- Professional elective - IV - incorporate Deep Learning as one of the course.

wherever

- Professional Elective - IV - Incorporate Blockchain Technology course.
- Professional Elective - V incorporate Data Science using python programming & Software Process & Project Mng.
- Professional Elective - VI incorporate Augmented Reality mobile computing & Modern software Engineering as courses.

WSPN

11/02/2022

12:30pm

6th And Board of Studies Meeting

→ A meeting was held for BOS of IT department through online mode on 11.02.22 at 12:30PM to finalize the IIIrd and IVth year syllabus of P20. The following members were present and take the following decisions:

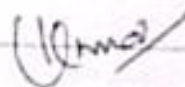
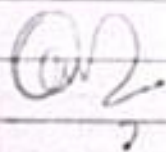
→ The IIIrd and IVth year syllabus for P20 regulations of TKRFC (Autonomous) was completely approved.

→ Dr. D. Vasumathi, Professor suggested to incorporate DevOps as professional elective and the DevOps lab

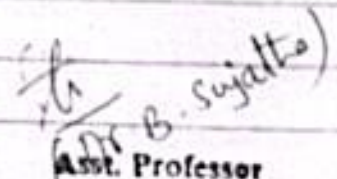
→ In Professional elective six madam suggested in place of augmented reality Augmented and virtual reality.

→ In Professional elective six madam suggested in place of HCI change Cognitive computing.

→ In place of Image Processing change with Digital Image Processing.



P Madhu Kumar



Asst. Professor
Dept. of CSE College of Engg
Osmania University, Hyd

www



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Mob: 9393959597. Email: info@tkrec.ac.in, deanacademics@tkrec.ac.in



B Tech IV Year I Semester (R20)

| S. No | Subject Code | Category | Subject Name | Hours per | | | Credits |
|--------------|--------------|----------|----------------------------------|-----------|----------|-----------|-----------|
| | | | | L | T | P | |
| 01 | 20CS7PC22 | PC | Information Security | 3 | 0 | 0 | 3 |
| 02 | 20CS7PC23 | PC | Data Mining | 3 | 0 | 0 | 3 |
| 03 | 20IT7PE40 | PE-IV | Professional Elective- IV | 3 | 0 | 0 | 3 |
| 04 | 20IT7PE50 | PE-V | Professional Elective- V | 3 | 0 | 0 | 3 |
| 05 | 20IT7OE20 | OE-II | Open Elective- II | 3 | 0 | 0 | 3 |
| 06 | 20CS7PC24 | PC LAB | Data Mining Lab | 0 | 0 | 3 | 1 |
| 07 | 20IT7PW02 | PW | Industrial Oriented Mini Project | 0 | 0 | 0 | 2 |
| 08 | 20IT7PW03 | PW | Seminar | 0 | 0 | 2 | 1 |
| 09 | 20IT7PW04 | PW | Comprehensive Test | 0 | 0 | 0 | 1 |
| 10 | 20IT7PW05 | PW | Project Stage- I | 0 | 0 | 6 | 3 |
| 11 | | MC | Advanced Technical Training | 3 | 0 | 0 | 0 |
| Total | | | | 15 | 0 | 11 | 23 |

B Tech IV Year II Semester (R20)

| S. No | Subject Code | Category | Subject Name | Hours per | | | Credits |
|--------------|--------------|----------|---------------------------|-----------|----------|-----------|-----------|
| | | | | L | T | P | |
| 01 | 20SM8MS02 | PC | Organizational Behavior | 3 | 0 | 0 | 3 |
| 02 | 20IT8OE30 | OE-III | Open Elective- III | 3 | 0 | 0 | 3 |
| 03 | 20IT8PE60 | PE-VI | Professional Elective- VI | 3 | 0 | 0 | 3 |
| 04 | 20IT8PC06 | PW | Project Stage-II | 0 | 0 | 15 | 7 |
| Total | | | | 9 | 0 | 15 | 16 |

St

28/6/2021

HEAD OF THE DEPARTMENT
Dept. Of Computer Science & Engineering
JNTUH College Of Engineering Hyderabad
Kukatpally, Hyderabad, Telangana-500 085.

Ullas

Ullas

| | | | | | | |
|---|---------|----------------------|-----------|----------|-----------|-----------|
| 9 | IT706PC | Project Stage - I | 0 | 0 | 6 | 3 |
| | | Total Credits | 14 | 0 | 10 | 21 |

IV YEAR II SEMESTER

| S. No. | Course Code | Course Title | L | T | P | Credits |
|--------|-------------|---------------------------|----------|----------|-----------|-----------|
| 1 | SM801MS | Organizational Behaviour | 3 | 0 | 0 | 3 |
| 2 | | Professional Elective -VI | 3 | 0 | 0 | 3 |
| 3 | | Open Elective-III | 3 | 0 | 0 | 3 |
| 4 | IT802PC | Project Stage - II | 0 | 0 | 14 | 7 |
| | | Total Credits | 9 | 0 | 14 | 16 |

*MC - Environmental Science – Should be Registered by Lateral Entry Students Only.

*MC – Satisfactory/Unsatisfactory

NOTE: Industrial Oriented Mini Project/ Summer Internship is to be carried out during the summer vacation between 6th and 7th semesters. Students should submit report of Industrial Oriented Mini Project/ Summer Internship for evaluation.

Professional Elective - I

| | |
|---------|-------------------------------------|
| IT511PE | Biometrics |
| CS512PE | Advanced Computer Architecture |
| CS513PE | Data Analytics |
| CS514PE | Image Processing |
| CS515PE | Principles of Programming Languages |

Professional Elective - II

| | |
|---------|----------------------------|
| CS521PE | Computer Graphics |
| IT521PE | Database Security |
| CS522PE | Advanced Operating Systems |
| IT523PE | Machine Learning |
| IT524PE | Pattern Recognition |

Professional Elective - III

| | |
|---------|--------------------------------|
| IT611PE | Ethical Hacking |
| CS612PE | Network Programming |
| CS613PE | Scripting Languages |
| CS614PE | Mobile Application Development |
| CS615PE | Software Testing Methodologies |

* Courses in PE - III and PE - III Lab must be in 1:1 correspondence.

Professional Elective -IV

| | |
|---------|----------------------------|
| IT711PE | Web Security |
| IT712PE | High Performance Computing |
| CS713PE | Artificial Intelligence |
| CS714PE | Cloud Computing |
| CS715PE | Ad-hoc & Sensor Networks |

Professional Elective -V

| | |
|---------|---------------------------------------|
| IT721PE | Intrusion Detection Systems |
| CS722PE | Real Time Systems |
| CS723PE | Soft Computing |
| IT724PE | Distributed Databases |
| CS725PE | Software Process & Project Management |

1/11/2022 Board of Studies Meeting AI&ML

- As per the Regulation (R22) given by JNTUH, Teegala Krishna Reddy Engineering College (R9) of AI&ML Department is following the same course structure as University.

- BOS Members towards the approval of four years course structure and syllabus upto 4th semester for AI&ML Program (R22) for the students admitted in 2022-23 academic year onwards.

- If any suggestion received from BOS members in the due course for the III and IV year course syllabus can be updated based on the emerging Technology / Industrial Needs. No substitute subjects for readmitted 2 sem B.Tech students.

1. Dr. Vadivelan Natarajan Prof. & Head, AIML
Chairman (BOS)

TKREC (R9)

2. Dr. G. Vijaya Kumari Prof. & Head
JHUB, JNTUH
JNTUH Nominee

3. Dr. E. Suresh Babu Asst. Prof. NIT
Warangal, Member

Dr. E. Suresh Babu

Department of Computer Science & Engineering
National Institute of Technology
Warangal
Telangana - 506004

4. Dr. B. Sujatha

Asst. Prof. OU-COE
Member

Dr. B. Sujatha

Assistant Professor

5. P. Madhukumar Reddy

Asst. Director
Mavartis (Industry)

Dept. of Computer Science & Engineering
University College of Engineering (A)

Osmania University, Hyderabad
500 007, T.S. India

6. Sangeeta Jawar

Asst. Prof. R9-BOS
Member Secretary

PRINCIPAL

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Madhwal, Meerpet, Hyderabad - 97.



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DEPARTMENT OF AI & ML

R22 REGULATION

COURSE STRUCTURE

B.TECH [AI/ML] - I to VIII SEM

**FOR
B. TECH [AI/ML] COURSE
(Applicable for the batches admitted)
(2022-2023)**



TEEGALA KRISHNA REDDY ENGINEERING COLLEGE (UGC-Autonomous)

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Mob: 8498085218. Email: info@tkrec.ac.in ace@tkrec.ac.in



| S. No | Category | SEMESTER | | | | | | | | As per AICTE |
|---------------|----------|----------|-----|----|----|----|----|----|----|--------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| 01 | HS | 3 | | | | 3 | 5 | | | 11 |
| 02 | BS | 8.5 | 8.5 | 3 | 3 | | | | | 23 |
| 03 | ES | 8.5 | 9.5 | 4 | | | | | | 22 |
| 04 | PC | | | 14 | 18 | 16 | 5 | 6 | | 59 |
| 05 | PE | | | | | 3 | 6 | 6 | 3 | 18 |
| 06 | OE | | | | | | 3 | 3 | 6 | 12 |
| 07 | PW | | | | | | 1 | 3 | 11 | 15 |
| Total Credits | | 20 | 18 | 21 | 21 | 22 | 20 | 18 | 20 | 160 |

| S. No | Category | SEMESTER | | | | | | | | As per JNTUH |
|---------------|----------|----------|-----|----|----|----|----|----|----|--------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| 01 | HSMC | 3 | | | 3 | 1 | | | 3 | 10 |
| 02 | BS | 9.5 | 9.5 | 4 | | | | | | 23 |
| 03 | ES | 6.5 | 8.5 | 4 | | | | | | 19 |
| 04 | PC | | | 13 | 18 | 15 | 15 | 12 | 7 | 80 |
| 05 | PE | | | | | 6 | 4 | 6 | 3 | 19 |
| 06 | OE | | | | | | 3 | 3 | 3 | 9 |
| 07 | PW | | | | | | | | | |
| Total Credits | | 19 | 18 | 21 | 21 | 22 | 22 | 21 | 16 | 160 |

| Sno | Category | SEMESTERS | | | | | | | | R9-CSE Total |
|-------|----------|-----------|-----|----|----|------|------|----|----|--------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| 1 | HSMC | 3 | | | 3 | | 1 | | 3 | 10 |
| 2 | BS | 9.5 | 9.5 | 3 | 3 | | | | | 25 |
| 3 | ES | 6.5 | 8.5 | 3 | | | | | | 18 |
| 4 | PC | | | 15 | 14 | 17.5 | 13.5 | 3 | | 63.0 |
| 5 | PE | | | | | 3 | 4 | 10 | 3 | 20.0 |
| 6 | OE | | | | | | 3 | 3 | 3 | 9 |
| 7 | PW | | | | | 1 | | 7 | 7 | 15 |
| TOTAL | | 19 | 18 | 21 | 20 | 21.5 | 21.5 | 23 | 16 | 160 |

AS
Dr. E. Suresh Babu
Department of Computer Science & Engineering
National Institute of Technology, Warangal
Telangana - INDIA - 506 004.

ft
Dr. B. Sujatha
Assistant Professor
Dept. of Computer Science & Engineering
University College of Engineering (A),
Osmania University, Hyderabad-500 007, T.S. India

Umes
P. Madhukumar

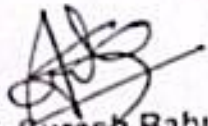
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
I YEAR I SEMESTER

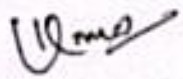
| S. No. | Course Code | Course | L | T | P | Credits |
|--------------|-------------|--|-----------|----------|-----------|-----------|
| 1. | 22MA101BS | Matrices and Calculus | 3 | 1 | 0 | 4 |
| 2. | 22PH102BS | Applied Physics | 3 | 1 | 0 | 4 |
| 3. | 22CS103ES | Programming for Problem Solving | 3 | 0 | 0 | 3 |
| 4. | 22ME104ES | Engineering Workshop | 0 | 1 | 3 | 2.5 |
| 5. | 22EN105HS | English for Skill Enhancement | 2 | 0 | 0 | 2 |
| 6. | 22CS106ES | Elements of Computer Science & Engineering | 0 | 0 | 2 | 1 |
| 7. | 22PH107BS | Applied Physics Laboratory | 0 | 0 | 3 | 1.5 |
| 8. | 22CS108ES | Programming for Problem Solving Laboratory | 0 | 0 | 2 | 1 |
| 9. | 22EN109HS | English Language and Communication Skills Laboratory | 0 | 0 | 2 | 1 |
| 10. | 22MC110 | Environmental Science | 3 | 0 | 0 | 0 |
| 11. | | Induction Program | | | | |
| Total | | | 11 | 3 | 12 | 20 |

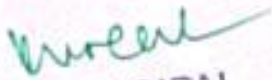
I YEAR II SEMESTER

| S. No. | Course Code | Course | L | T | P | Credits |
|--------------|-------------|---|-----------|----------|-----------|-----------|
| 1. | 22MA201BS | Ordinary Differential Equations and Vector Calculus | 3 | 1 | 0 | 4 |
| 2. | 22CH202BS | Engineering Chemistry | 3 | 1 | 0 | 4 |
| 3. | 22ME203ES | Computer Aided Engineering Graphics | 1 | 0 | 4 | 3 |
| 4. | 22EE204ES | Basic Electrical Engineering | 2 | 0 | 0 | 2 |
| 5. | 22EC205ES | Electronic Devices and Circuits | 2 | 0 | 0 | 2 |
| 6. | 22CH207BS | Engineering Chemistry Laboratory | 0 | 0 | 2 | 1 |
| 7. | 22EE208ES | Basic Electrical Engineering Laboratory | 0 | 0 | 2 | 1 |
| 8. | 22CS206ES | Python Programming Laboratory | 0 | 1 | 2 | 2 |
| 9. | 22CS209ES | IT Workshop | 0 | 0 | 2 | 1 |
| Total | | | 11 | 3 | 12 | 20 |


Dr. E. Suresh Babu
 Department of Computer Science & Engineering
 National Institute of Technology, Warangal
 Telangana - INDIA - 506 004.


Dr. B. Srijatha
 Assistant Professor
 Dept. of Computer Science & Engineering
 University College of Engineering (A),
 Osmania University, Hyderabad-500 007, T.S., India


P. Madhu Kumar

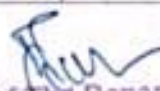

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II YEAR I SEMESTER

| S. No. | Course Code | Course Title | L | T | P | Credits |
|--------------|-------------|--|-----------|----------|-----------|-----------|
| 1 | 22MA303BS | Mathematical and Statistical Foundations | 3 | 0 | 0 | 3 |
| 2 | 22CS301PC | Data Structures | 3 | 0 | 0 | 3 |
| 3 | 22CS302PC | Computer Organization and Architecture | 3 | 0 | 0 | 3 |
| 4 | 22AI301PC | Software Engineering | 3 | 0 | 0 | 3 |
| 5 | 22AI302PC | Operating Systems | 3 | 0 | 0 | 3 |
| 6 | 22CS304PC | Data Structures Lab | 0 | 0 | 3 | 1.5 |
| 7 | 22AI303PC | Operating Systems Lab | 0 | 0 | 3 | 1.5 |
| 8 | 22AI304PC | Software Engineering Lab | 0 | 0 | 2 | 1 |
| 9 | 22MC310 | Constitution of India | 3 | 0 | 0 | 0 |
| 10. | 22AI305PC | Skill Development Course (Node JS/ React JS/ Django) | 0 | 0 | 2 | 1 |
| Total | | | 18 | 0 | 10 | 20 |

II YEAR II SEMESTER

| S. No. | Course Code | Course Title | L | T | P | Credits |
|--------------|-------------|---|-----------|----------|-----------|-----------|
| 1 | 22MA401BS | Discrete Mathematics | 3 | 0 | 0 | 3 |
| 2 | 22AI401PC | Automata Theory and Compiler Design | 3 | 0 | 0 | 3 |
| 3 | 22CS402PC | Database Management Systems | 3 | 0 | 0 | 3 |
| 4 | 22AI402PC | Introduction to Artificial Intelligence | 3 | 0 | 0 | 3 |
| 5 | 22AI403PC | Object Oriented Programming through Java | 3 | 0 | 0 | 3 |
| 6 | 22CS405PC | Database Management Systems Lab | 0 | 0 | 2 | 1 |
| 7 | 22AI404PC | Java Programming Lab | 0 | 0 | 2 | 1 |
| 8 | 22AI401PW | Real-time Research Project/Field Based Research Project | 0 | 0 | 4 | 2 |
| 9 | 22MC409 | Gender Sensitization Lab | 0 | 0 | 2 | 0 |
| 10 | 22AI405PC | Skill Development Course (Prolog/ Lisp/ Pyswip) | 0 | 0 | 2 | 1 |
| Total | | | 15 | 0 | 12 | 20 |


 Head of the Department
 AI & ML (R9)
 Teegala Krishna Reddy Engineering College
 (UGC - AUTONOMOUS)
 Medbowli, Meerpet, Hyderabad - 97.

PRINCIPAL

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 (UGC - AUTONOMOUS)
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12/10/2021


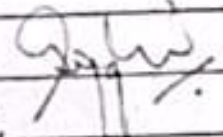


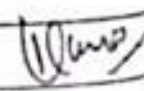
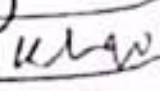
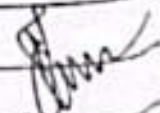

Board of Studies Meeting

11:30 AM

(Online Mode) AI & ML

A meeting of Board of Studies for CSE department was held on 12/10/21, at 11:30 AM through online mode and the following points were suggested by Bos Members towards the approval of course structure, syllabus upto 4th semester for AI and ML program (R20) for the students admitted in 2021-22 academic year.

The Members present were

1. Dr. Ch. V. Phani Keishna Prof. & Head
CSE dept. Chairman (Bos)
TKREC (R9) 
2. Dr. G. Vijaya Kumasi Prof. & Head
JHUB, JNTUH. JNTUH Nominee 
3. Dr. E. Suresh Babu Asst. Prof. MIT
Warangal, Member 
4. Dr. B. Sujatha Asst. Prof., OU-COE
Member 
5. P. Madheekumar Reddy Asso. Director
Novartis (Industry) 
6. Dr. K. Sarangam Asst. Prof. R9-Bos
Member 
7. Dr. N. Vadivelan Asst. Prof. R9-Bos
Member 
8. Dr. K. Bhargavi Asst. Prof. R9-Bos
Member Secretary 

1. Dr Vijayakumari Madam suggested

- a) inclusion of AIML related courses as professional core & substituting CSE professional core courses.
- b) not to move humanities & Management science courses to professional Electives
- c) introducing statistical basics as a course. (Introduction to ML) in IIIrd Semester.
- d) introduce AI & ML labs from Vth Semester onwards.
- e) All professional Electives should be with respect to professional core or in-continuation of that.

2. Dr E. Suresh Babu Sir suggested

- a) to arrange the experiments in lab courses in the order with respect to the theory.
- b) include Tensor flow or Keras as one of the lab for AI.
- c) In Design & Analysis of Algorithms (DAA) theory - Greedy Method should come before Dynamic Programming.

3. Dr. B. Sujatha Ma'am suggested

- a) As for AI & ML Neural Networks is core & basic. So include Neural Networks as one of the professional core.
- b) Also To include application areas as one of the course in AI and ML.

4. Mr. P. Madhu Kumar Reddy sir -
Suggested

a. to include courses on par with
industry requirements.

b. AI theory course must be incorporate
with Tensor flow or keras Lab.

c. Projects to be done individually
by students using AI & ML tools.

d. Practical sessions for ML algorithms

e. If possible incorporate R-programming
with Data science.

V. S. R. Reddy
PRINCIPAL

Teegala Krishna Reddy Engineering College
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Madbowli, Meerpet, Hyderabad - 97.

Teegla Krishna Reddy Engineering College

Department of Artificial Intelligence and Machine Learning (AIML)
3rd Board of Studies (BOS) Meeting
Minutes of Board of Studies Meeting
Programme: B Tech - AIM

Meeting Date: 01-03-2023

Meeting Time: 11.00 A.M

Venue: ZOOM Online Meeting

Attendees

1. Prof. Dr. Vijaya Kumari Madam, Director J-Hub, Professor in CSE, JNTUH Nominee
2. Dr. E Suresh Babu, Associate professor, NIT Warangal
3. Dr. B Sujatha, Associate professor, Dept. of CSE, Osmania University
4. Mr. Madhu Kumar, Associate director, NOVARTIS
5. Dr B Srinivasa Rao, Dean Academics, TKREC
6. Dr. Vadivelan Natarajan, BOS Chairman AIML
7. Ms. Sangeeta Jawar, Member Secretary AIML
8. Ms. J Rachana, Senior Faculty Memeber

Agenda: Approval of III Year and IV Year Syllabus of R20 Regulations

Discussion Points


1. Dr. G. Vijayakumari Madam proposed the inclusion of Design Pattern in PE-I instead of Text Recognition since it is already covered in Professional Elective-V. She also suggested the introduction of AI & ML Labs from V Semester onwards. The proposal was agreed upon by all members.
2. Dr. E. Suresh Babu Sir recommended the establishment of MOUs with recognized companies for students' summer internships. He also proposed the incorporation of Tensor Flow Lab in the curriculum, which was previously suggested. The proposal was accepted by all members.
3. Dr. B Sujatha Madam suggested the conduction of Comprehensive Tests for core subjects and the inclusion of Neural Networks as a core subject in VI Semester, in line with an earlier recommendation. The proposal was agreed upon by all members.
4. Mr. P. Madhukumar Reddy Sir proposed that Mini projects be undertaken individually by students. He also suggested the inclusion of R Programming subject with lab in Professional Elective-II, which was recommended earlier. The proposal was accepted by all members.



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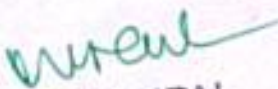
Action Items

1. Dr. G. Vijayakumari Madam to update the curriculum to include Design Pattern in Professional Elective-I and AI & ML Labs from V Semester onwards.
2. Dr. E. Suresh Babu Sir to establish MOUs with recognized companies for students' summer internships and incorporate Tensor Flow Lab in the curriculum.
3. Dr. B Sujatha Madam to conduct Comprehensive Tests for core subjects and include Neural Networks as a core subject in VI Semester.
4. Mr. P. Madhukumar Reddy Sir to ensure that Mini projects are undertaken individually by students and include R Programming subject with lab in Professional Elective-II.
5. Approved all the individual syllabus of V,VI ,VII and VIII semester of R20 regulation

Meeting Adjourned.


Asst Professor
Dept of CSE College of Engg
Osmania University, Hyd


Dr. E. Suresh Babu
Department of Computer Science & Engineering
National Institute of Technology, Warangal
Telangana - INDIA - 506 004.


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Mob: 9393959597. Email: info@tkrec.ac.in, deanacademics@tkrec.ac.in



Department of Artificial Intelligence and Machine Learning (AIML)

Board of Studies (BOS) Meeting

Minutes of Board of Studies Meeting

Programme: B Tech - AIM

Agenda:

- 1) Approval of the TKREC R-22 course structure for the first and second semesters of III and IV B Tech in AIML.
- 2) Approval of the TKREC R-22 detailed syllabus for the first and second semesters of III and IV B Tech in AIML.

| SNo | Name of the Expert | Designation | Position | Signature |
|-----|--|---|----------------------------|-----------|
| 1 | Prof. Dr. Vijaya Kumari | Professor in CSE, JNTUH | JNTUH Nominee | |
| 2 | Dr. E Suresh Babu | Associate Professor, NIT Warangal | Member | |
| 3 | Dr. B Sujatha | Associate Professor, Dept. of CSE, Osmania University | Member | |
| 4 | Mr. Madhu Kumar | Associate Director, NOVARTIS | Industry Representative | |
| 5 | Dr. B Srinivasa Rao | Professor, Dept. of CSE | Dean Academics | |
| 5 | Dr. Vadivelan Natarajan | HOD AIML | Chairman | |
| 6 | Ms. Sangeeta Jawar | Asst. Prof, AIML | Member Secretary | |
| 7 | Ms. J Rachna | Asst. Prof, AIML | Senior faculty member | |
| 8 | All faculty members of the department | | Members | |

PRINCIPAL

Teegala Krishna Reddy Engineering College
(UGC-AUTONOMOUS)
Medbowli, Meerpet, Hyderabad - 97.

Minutes:


- 1) Approval of the TKREC R-22 course structure for the first and second semesters of III and IV B Tech in AIML.


Action Item: The approved course structure will be implemented in the Department from the AY 2022-23 onwards.

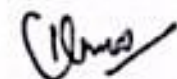
- 2) Approval of the TKREC R-22 detailed syllabus for the first and second semesters of III and IV B Tech in AIML.

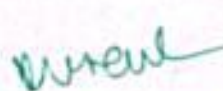
Action Item: The endorsed detailed syllabus will be communicated to the concerned departments for implementation.

- 3) Ratification of the single-point agenda circulated to the BOS members regarding Readmission Student from TKREC R20 to R22 Regulations --dated on 06/12/23.


Dr. E. Suresh Babu
Department of Computer Science & Engineering
National Institute of Technology, Warangal
Telangana - INDIA - 506 004.


Dr. B. Sujatha
Assistant Professor
Dept. of Computer Science & Engineering
University College of Engineering (A),
Osmania University, Hyderabad-500 007, T.S. India


P. Madhu Kumar


PRINCIPAL
Teegala Krishna Reddy Engineering College
(UGC-AUTONOMOUS)
Medbowli, Maarpet, Hyderabad - 97.



TEEGALAKRISHNAREDDYENGINEERINGCOLLEGE (UGC-Autonomous)

Approved by AICTE, Affiliated by JNTUH, Accredited by NAAC 'A' Grade
Medbowli, Meerpet, Balapur, Hyderabad, Telangana-500097
Mob: 8498085218, Email: info@tkrec.ac.in, ace@tkrec.ac.in



B.Tech V Semester

| SNO | SUBJECT CODE | Category | NAME OF THE SUBJECT | NO OF HOURS | | | CREDITS |
|-----|--------------|----------|---------------------------------------|-------------|----------|----------|-------------|
| | | | | L | T | P | |
| 1 | 20CS6PC19 | PC | Computer Networks | 3 | 1 | 0 | 4 |
| 2 | 21AI5PC05 | PC | OOP's Thru Java | 3 | 0 | 0 | 3 |
| 3 | 20CS5PC13 | PC | Formal Language Automata Theory/CD | 3 | 0 | 0 | 3 |
| 4 | 21AI5PC05 | PC | Introduction to Machine Learning | 3 | 0 | 0 | 3 |
| 5 | | PE-1 | Professional Elective 1 | 3 | 0 | 0 | 3 |
| 6 | 21AI5PC06 | PC | Computer Network LAB | 0 | 0 | 3 | 1.5 |
| 7 | 21AI5PC07 | PC | OOP's thru Java Lab | 0 | 0 | 3 | 1.5 |
| 8 | 21AI5PC08 | PC | Machine Learning LAB | 0 | 0 | 3 | 1.5 |
| 9 | 20MC5PW01 | PW | Summer Internship | 0 | 0 | 0 | 1 |
| 10 | 20MC5HS03 | MC | Intellectual Property Rights | 3 | 0 | 0 | 0 |
| 11 | | MC | Personality Development & Soft Skills | 3 | 0 | 0 | 0 |
| | | | Total Credits | 21 | 1 | 9 | 21.5 |

B.Tech VI Semester

| SNO | SUBJECT CODE | Category | NAME OF THE SUBJECT | NO OF HOURS | | | CREDITS |
|-----|--------------|----------|---|-------------|----------|-----------|-------------|
| | | | | L | T | P | |
| 1 | 20CS6PC18 | PC | Introduction to Artificial Intelligence | 3 | 0 | 0 | 3 |
| 2 | 21AI6PC09 | PC | Robotics | 3 | 0 | 0 | 3 |
| 3 | 21AI6PC10 | PC | Data Science | 3 | 0 | 0 | 3 |
| 4 | 21AI6PC11 | PC | Neural Networks | 3 | 0 | 0 | 3 |
| 5 | | PE-II | Professional Elective II | 3 | 0 | 0 | 3 |
| 6 | | OE-1 | Open Elective 1 | 0 | 0 | 3 | 1 |
| 7 | 20EN5HS01 | HSMC | AECS Lab | 0 | 0 | 3 | 1.5 |
| 8 | 21AI6PC12 | PC | Tensor Flow Lab | 0 | 0 | 3 | 1 |
| 9 | | PE-II | PE-II Lab | 3 | 0 | 0 | 0 |
| 10 | 20MC6HS04 | MC | Constitution of India | 3 | 0 | 0 | 0 |
| 11 | | MC | Basic Technical Training | 3 | 0 | 0 | 0 |
| | | | Total Credits | 21 | 0 | 12 | 21.5 |

Dr. E. Srinivas Babu
Principal
Teegala Krishna Reddy Engineering College
Medbowli, Meerpet, Hyderabad - 500097

WARRANTIAL
Teegala Krishna Reddy Engineering College
(UGC-AUTONOMOUS)
Medbowli, Meerpet, Hyderabad - 97.

01/11/22 8 Board of studies meeting CSD

- As per the Regulation (R22) given by JNTUH
Tejapala V. Srinima Reddy Engineering College (VREC) of
CSD Department in following the same course structure
- No final list given for controlled items for each student

- BOS members towards approval of four years course
structure and syllabus upto 4th semester for
the branch of (CSD) computer science and design
program R22 for the students admitted in the
Academic year 2022-23 onwards

- If any suggestions required for the BOS members
in the said due course for the U & IV year
syllabus can be updated based on the emerging tech
Industrial needs.

1. Dr. K. Salangam The members present were
prof & Head CSD, Chairman VREC
BOS, TKREC (R9)

2. Dr. G. Vijayakumari
Prof. & Head
JNTUH Nominee

3. Dr. E. Suresh Babu
Asst. prof NIT
Walangal

Dr. E. Suresh Babu
Department of Com.
National Institute of Technology
Telangana - INDIA 508004

4. Dr. B. Sujatha
Professor, OU - COE
Member Dr. B. Sujatha

5. P. Madhu Kumar Reddy
ASSO. Prof. Dr. P. Madhu Kumar Reddy
NOVA University, T.S. India
Expert

6. S. Sanjeeva Rao
Asst. prof R9-BOS
Member Secretary

M. V. V. V.



Department of Computer Science and Design (CSD)
Board of Studies (BOS) Meeting
Minutes of Board of Studies Meeting
Programme: B Tech - CSG

Agenda:

- 1) Approval of the IKRIC R-22 course structure for the first and second semesters of III and IV B Tech in CSD
- 2) Approval of the IKRIC R-22 detailed syllabus for the first and second semesters of III and IV B Tech in CSD

| SNo | Name of the Expert | Designation | Position | Signature |
|-----|--|---|----------------------------|-----------|
| 1 | Prof. Dr. Vijaya Kumari | Professor in CSE, JNTUH | JNTUH Nominee | |
| 2 | Dr. E Suresh Babu | Associate Professor, NIT Warangal | Member | |
| 3 | Dr. B Sujatha | Associate Professor, Dept. of CSE, Osmania University | Member | |
| 4 | Mr. Madhu Kumar | Associate Director, NOVARTIS | Industry Representative | |
| 5 | Dr. B Srinivasa Rao | Professor, Dept. of CSE | Dean Academics | |
| 5 | Dr. J Praveen Kumar | HOD CSD | Chairman | |
| 6 | Mr. Sanjeeva Rao | Asst. Prof, CSD | Member Secretary | |
| 7 | Mr. B Kundan | Asst. Prof, CSD | Senior faculty member | |
| 8 | All faculty members of the department | | Members | |

Notes:

1) Approval of the TKREC R-22 course structure for the first and second semesters of III and IV B Tech in CSD.

Action Item: The approved course structure will be implemented in the Department from the AY 2022-23 onwards.

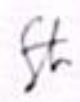
2) Approval of the TKREC R-22 detailed syllabus for the first and second semesters of III and IV B Tech in CSD.

Action Item: The endorsed detailed syllabus will be communicated to the concerned departments for implementation.

3) Ratification of the single-point agenda circulated to the BOS members regarding Readmission Student from TKREC R20 to R22 Regulations -dated on 06/12/23.



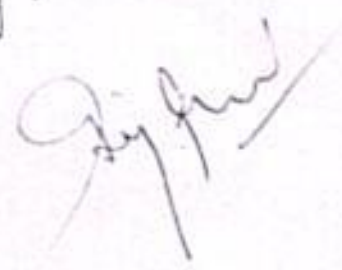
Dr. E. Suresh Babu
Department of Computer Science & Engineering
National Institute of Technology, Warangal
Telangana - INDIA - 506 004.



Dr. B. Sujatha
Assistant Professor
Dept. of Computer Science & Engineering
University College of Engineering
Osmania University, Hyderabad-500 007, India

Uleens
P. Madhu Kumar

As per the Regulation (Reg) given by JNTUH TKREC R22 of CSD Department following the same course structure and syllabus (III year & IV year) of the University.



Uleens

II YEAR II SEMESTER

| S. No. | Course Code | Course Title | L | T | P | Credits |
|--------|-------------|--|-----------|----------|-----------|-----------|
| 1 | | Discrete Mathematics | 3 | 0 | 0 | 3 |
| 2 | | Business Economics & Financial Analysis | 3 | 0 | 0 | 3 |
| 3 | | Operating Systems | 3 | 0 | 0 | 3 |
| 4 | | Database Management Systems | 3 | 0 | 0 | 3 |
| 5 | | Software Engineering | 3 | 0 | 0 | 3 |
| 6 | | Operating Systems Lab | 0 | 0 | 2 | 1 |
| 7 | | Database Management Systems Lab | 0 | 0 | 2 | 1 |
| 8 | | Real-time Research Project/ Field Based Research Project | 0 | 0 | 4 | 2 |
| 9 | | Node JS/ React JS/ Django | 0 | 0 | 2 | 1 |
| 10 | *MC | Constitution of India | 3 | 0 | 0 | 0 |
| | | Total Credits | 18 | 0 | 10 | 20 |

III YEAR I SEMESTER

| S. No. | Course Code | Course Title | L | T | P | Credits |
|--------|-------------|-----------------------------------|-----------|-----------|-----------|-----------|
| 1 | | Design Thinking | 3 | 1 | 0 | 4 |
| 2 | | Computer Networks | 3 | 0 | 0 | 3 |
| 3 | | Computer Graphics | 3 | 0 | 0 | 3 |
| 4 | | Professional Elective-I | 3 | 0 | 0 | 3 |
| 5 | | Professional Elective -II | 3 | 0 | 0 | 3 |
| 6 | | Computer Networks Lab | 0 | 0 | 2 | 1 |
| 7 | | Computer Graphics Lab | 0 | 0 | 2 | 1 |
| 8 | | Advanced Communication Skills Lab | 0 | 0 | 2 | 1 |
| 9 | | UI design - Flutter | 0 | 0 | 2 | 1 |
| 10 | *MC | Intellectual Property Rights | 3 | 0 | 0 | 0 |
| | | Total Credits | 18 | 01 | 08 | 20 |

III YEAR II SEMESTER

| S. No. | Course Code | Course Title | L | T | P | Credits |
|--------|-------------|---|-----------|----------|-----------|-----------|
| 1 | | Algorithm Design and Analysis | 3 | 0 | 0 | 3 |
| 2 | | Formal Languages and Automata Theory | 3 | 0 | 0 | 3 |
| 3 | | Introduction to Engineering Design | 3 | 0 | 0 | 3 |
| 4 | | Professional Elective - III | 3 | 0 | 0 | 3 |
| 5 | | Open Elective-I | 3 | 0 | 0 | 3 |
| 6 | | Engineering Design Lab | 0 | 0 | 4 | 2 |
| 7 | | Professional Elective-III Lab | 0 | 0 | 2 | 1 |
| 8 | | Industrial Oriented Mini Project/ Internship/ Skill Development Course (Google Animation/ Hadoop Flash/ Open Toonz) | 0 | 0 | 4 | 2 |
| 9 | *MC | Environmental Science | 3 | 0 | 0 | 0 |
| | | Total Credits | 18 | 0 | 10 | 20 |

Environmental Science in III Year II Semester Should be Registered by Lateral Entry Students Only.

Dr. E. Suroch Babu
Department of Computer Science & Engineering
National Institute of Technology, Warangal

Dr. B. Sriatha
Assistant Professor
Dept. of Computer Science & Engineering
University of

P. Madhu Kumar


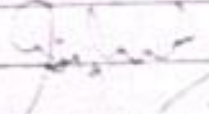
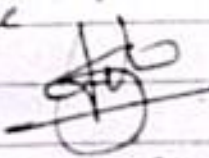

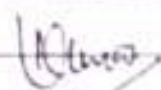
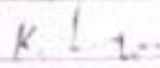
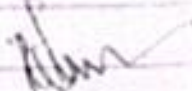
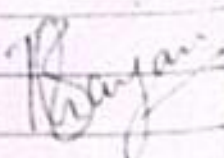
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12/10/21
11:30 AM

Board of Studies Meeting (Online Mode) Date

A meeting of Board of Studies for CSE department was held on 12/10/21 at 11:30 AM through online mode & the following BOS Members were present, and suggested the following points for the approval of course structure (CSD) (R20) & syllabus upto 4th semester for the students admitted in 2021-22 academic year.

The Members present were:

- 1) Dr. Ch. V. Phani Krishna Prof. & Head 
CSE, chairman
BOS, TKREC (R9)
- 2) Dr. G. Vijayakumari Prof. & Head 
JHUB, JNTUH
JNTUH Nominee
- 3) Dr. E. Suresh Babu Asst. Prof. NITW 
Warangal
- 4) Dr. B. Sujatha Professor, OU-COE 
Member
- 5) P. Madhu Kumar Reddy Asso. Director 
Novartis (Industry Expert)
- 6) Dr. K. Sarangam Asst. Prof. R9-Bos 
Member
- 7) Dr. N. Vadivelan Asst. Prof. R9-Bos 
Member
- 8) Dr. K. Bhargavi Asst. Prof. R9-Bos 
Member Secretary

Members

1. Dr. G. Vijaya Kumari Madam suggested
- to incorporate courses related to software engineering, software design & software testing.
 - courses related to software engineering should be included as professional electives as well.
 - Inclusion of Agile programming with Lab in 6th semester.
 - Devops with Lab in 7th semester.
 - Extreme programming to be incorporated in 7th semester.

2. Dr. E. Suresh Babu sir suggested
- to incorporate courses like software testing with Lab.
 - to include real time projects design & testing as a part of case studies in software Project Management.

3. Dr. B. Sujatha Madam suggested
- to incorporate algorithms based courses as a part of professional core
 - software testing labs to be incorporated as Professional core.
 - software Architect & Design should be incorporated as professional core.

Movement

4. Mr. P. Madhu Kumar sir suggested -

- a) to include & change architect of software design as per industry requirements.
- b) including the case study of real time projects as block course.
- c) incorporate courses related to industry requirements & necessity.
- d) training on some modules through industry experts.
- e) Updating the lab experiments with industry need & necessity.

Review

Teegla Krishna Reddy Engineering College

Department of Computer Science and Design (CSG)
3rd Board of Studies (BOS) Meeting
Minutes of Board of Studies Meeting
Programme: B Tech - CSG

Meeting Date: 01-03-2023

Meeting Time: 11.00 A.M

Venue: Zoom Online Meeting

Attendees

1. Prof. Dr. Vijaya Kumari Madam, Director J-Hub, Professor in CSE, JNTUH
2. Dr. E Suresh Babu, Associate professor, NIT Warangal
3. Dr. B Sujatha, Associate professor, Dept. of CSE, Osmania University
4. Mr. Madhu Kumar, Associate director, NOVARTIS
5. Dr B Srinivasa Rao, Dean Academics, TKREC
6. Dr. J Praveen Kumar, HOD CSD
7. Mr. Snajeeva Rao, Member Secretary, CSD
8. Mr. B Kundan, Senior faculty member, CSD

Agenda: **Approval of III Year and IV Year Syllabus of R20 Regulations**

Discussion Points:

1. Prof. Dr. Vijaya Kumari Madam suggested several improvements to the curriculum, including introducing Computer Networks and Computer Networks lab in III B.Tech, VI Semester in place of Agile Programming. She also advised incorporating Computer Networks in Professional Elective -IV in VII Semester and replacing Android Operating System with Android Application Development in Professional Elective -III in VI Semester. Additionally, she suggested including Python programming instead of R Programming since the R programming course has already been covered in Introduction to Statistical software using R in VII Semester. All members agreed with the proposals.
2. Dr. E Suresh Babu recommended using Google Firebase database instead of SQL Lite in Android Application Development Lab. He also suggested incorporating real-time project design and testing as part of course studies in software project management. The proposal was agreed upon by all members.

M. V. S. R.

3. Dr. B Sujatha proposed implementing DAA LAB experiments in JAVA instead of C programming and encouraging students to do internships in IT/ITES related companies during the Summer Internship program. All members agreed with the proposal.
4. Mr. Madhu Kumar advised conducting training programs on software project management with industry experts and updating the labs/lab experiments based on industry needs. The proposal was accepted by all members.


Action Items:

1. Prof. Dr. Vijaya Kumari Madam to update the curriculum to include the suggested improvements, such as Computer Networks and Computer Networks lab in III B.Tech, VI Semester, and incorporating Python programming in VII Semester.
2. Dr. E Suresh Babu Sir to update the Android Application Development Lab to use Google Firebase database and incorporate real-time project design and testing in software project management.
3. Dr. B Sujatha Madma to implement DAA LAB experiments in JAVA instead of C programming and encourage students to do internships in IT/ITES related companies during the Summer Internship program.
4. Mr.P Madhu Kumar Sir to conduct training programs on software project management with industry experts and update the labs/lab experiments based on industry needs.
5. Approved all the individual syllabus of V,VI ,VII and VIII semester of R20 regulation

Meeting Adjourned.



Dr. E. Suresh Babu
Department of Computer Science & Engineering
National Institute of Technology, Warangal
Telangana - INDIA - 506 004.



Asst. Professor
Dept of CSE College of Engg
Osmania University, Hvd

Review



TEEGALAKRISHNAREDDYENGINEERINGCOLLEGE (UGC-Autonomous)

Approved by AICTE, Affiliated by JNTUH, Accredited by NAAC - A Grade
Medbowli, Meerpeta, Balapur, Hyderabad, Telangana - 500097
Mob: 8498085218. Email: info@tkrec.ac.in, ace@tkrec.ac.in



B.Tech V Semester (R20)

| SNo. | Subject Code | Category | Subject Name | Hours per week | | | Credits |
|--------------|--------------|-----------|---------------------------------------|----------------|----------|----------|-----------|
| | | | | L | T | P | |
| 1 | 20CS5PC14 | PC | Formal Languages & Automata Theory | 3 | 0 | 0 | 3 |
| 2 | 20CD5PC04 | PC | Software Design & Architecture | 3 | 0 | 0 | 3 |
| 3 | 20CS5PC16 | PC | Design and Analysis of Algorithms | 3 | 1 | 0 | 4 |
| 4 | 20CD5PE10 | PE-I | Professional Elective- I | 3 | 0 | 0 | 3 |
| 5 | 20CD5PE20 | PE-II | Professional Elective- II | 3 | 0 | 0 | 3 |
| 6 | 20CD5PE20 | PE-II-LAB | Professional Elective -II Lab | 0 | 0 | 3 | 1.5 |
| 7 | 20CS5PC17 | PC-LAB | Design and Analysis of Algorithms Lab | 0 | 0 | 3 | 1.5 |
| 8 | 20EN5HS04 | HSMC | Advanced Communication Skills Lab | 0 | 0 | 3 | 1 |
| 9 | 20CD5PW01 | PW | Summer Internship | 0 | 0 | 0 | 1 |
| 10 | 20MC5HS05 | MC | Intellectual Property Rights | 3 | 0 | 0 | 0 |
| 11 | 20MC5HS06 | MC | Personality Development & Soft Skills | 3 | 0 | 0 | 0 |
| TOTAL | | | | 21 | 1 | 9 | 21 |

B.Tech VI Semester (R20)

| Sno | Subject Code | Category | Subject Name | Hours per week | | | Credits |
|--------------|--------------|------------|--------------------------------|----------------|----------|----------|-----------|
| | | | | L | T | P | |
| 1 | 20CD6PC05 | PC | Design pattern | 3 | 0 | 0 | 3 |
| 2 | 20CD6PC06 | PC | Software Project Management | 3 | 0 | 0 | 3 |
| 3 | 20CS6PC18 | PC | Computer Networks | 3 | 1 | 0 | 4 |
| 4 | 20CD6PC07 | PC | Software Testing | 2 | 0 | 0 | 2 |
| 5 | 20CD6PE30 | PE -III | Professional Elective- III | 3 | 0 | 0 | 3 |
| 6 | 20CD6OE10 | OE- I | Open Elective- I | 3 | 0 | 0 | 3 |
| 7 | 20CD6PE30 | PE-III Lab | Professional Elective- III Lab | 0 | 0 | 2 | 1 |
| 8 | 20CD6PC08 | PC-LAB | Computer Networks Lab | 0 | 0 | 3 | 1.5 |
| 9 | 20CD6PC09 | PC-LAB | Software Testing Lab | 0 | 0 | 3 | 1.5 |
| | 20MC6HS07 | MC | Constitution of India | 3 | 0 | 0 | 0 |
| 10 | 20MC6CS01 | MC | Basic Technical Training | 3 | 0 | 0 | 0 |
| TOTAL | | | | 23 | 1 | 8 | 22 |

sh
Asst Professor
Dept of CSE College of Engg
Osmania University, Hvd

Umas
P. Madhu Kumar

[Signature]
Dr. E. Suresh Babu
Department of Computer Science & Engineering
National Institute of Technology, Warangal
Telangana - INDIA - 506 004.

[Signature]



**TEEGALAKRISHNAREDDYENGINEERINGCOLLEGE
(UGC-Autonomous)**

Approved by AICTE, Affiliated by JNTUHH, Accredited by NAAC - 'A' Grade
Medhewli, Meerpeta, Balapur, Hyderabad, Telangana - 500097
Mob: 8498085218. Email: info@tkrec.ac.in, ace@tkrec.ac.in



B.Tech VII Semester (R20)

| Sno. | Subject Code | Category | Subject Name | Hours per week | | | Credits |
|--------------|--------------|----------|--------------------------------|----------------|----------|-----------|-----------|
| | | | | L | T | P | |
| 1 | 20CD7PC10 | PC | Extreme Programming | 2 | 1 | 0 | 3 |
| 2 | 20CD7PC11 | PC | Devops | 3 | 0 | 0 | 3 |
| 3 | 20CD8PE40 | PE-IV | Professional Elective- IV | 3 | 0 | 0 | 3 |
| 4 | 20CD8PE50 | PE-V | Professional Elective- V | 3 | 0 | 0 | 3 |
| 5 | 20CD8OE20 | OE-II | Open Elective- II | 3 | 0 | 0 | 3 |
| 6 | 20CD7PC12 | PC LAB | Devops - Lab | 0 | 0 | 3 | 1 |
| 7 | 20CD5PW02 | PW | Seminar | 0 | 0 | 2 | 1 |
| 8 | 20CD5PW03 | PW | Comprehensive Exam | 0 | 0 | 0 | 1 |
| 9 | 20CD5PW04 | PW | Industry oriented Mini Project | 0 | 0 | 0 | 2 |
| 10 | 20CD5PW05 | PW | Project Stage - I | 0 | 0 | 6 | 3 |
| 11 | 20MC7CS02 | MC | Advance Technical Training | 3 | 0 | 0 | 0 |
| TOTAL | | | | 17 | 1 | 11 | 23 |

B.Tech VIII Semester (R20)

| Sno. | Subject Code | Category | Subject Name | Hours per week | | | Credits |
|--------------|--------------|----------|--------------------------|----------------|----------|-----------|-----------|
| | | | | L | T | P | |
| 1 | 20HS8MS02 | HSMC | Organization Behavior | 3 | 0 | 0 | 3 |
| 2 | 20CD8PE60 | PE-VI | Professional Elective-VI | 3 | 0 | 0 | 3 |
| 3 | 20CD8OE30 | OE-III | Open Elective- III | 3 | 0 | 0 | 3 |
| 4 | 20CD8PW06 | PW | Project stage - II | 0 | 0 | 15 | 7 |
| TOTAL | | | | 9 | 0 | 15 | 16 |

[Signature]
Asst. Professor
Dept of CSE College of Engg
Osmania University, Hvd

[Signature]
P. Madhu Kumar

[Signature]
Dr. E. Suresh Babu
Department of Computer Science & Engineering
National Institute of Technology, Warangal
Telangana - INDIA - 506 004.

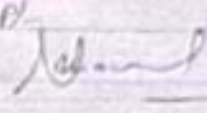
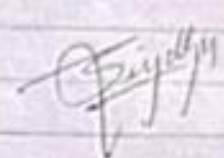

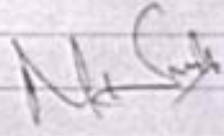


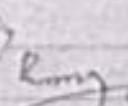
[Handwritten Signature]

Third Board of Studies (On Line mode)

Teejola Krishna Reddy Engineering College (R9)
MBA Department Board of Studies meeting
was held on 17/11/22 at 2:30 through online
mode and discussed about the course structure
syllabus and other department- related concerns
~~to meet the demand of course by the~~
~~students enrolled in 2022-23 Academic year~~

The following members were present-

members present-

- | | | |
|---------------------------|--|---|
| 1) V. Susha Nalayana | Assoc Prof MBA Dept Chairman of BOS TRREC (R9) |  |
| 2) Dr. Senthil | Professor |  |
| 3) Dr. L. Srinivas Reddy | Aristotle PG College Principal |  |
| 4) Dr. Nagumuri Srinivas | Prof. St. Joseph PG College |  |
| 5) P. Ganeshwar Rao | Production manager Tata White Clippa. Rao | |
| 6) D. Srisailam | Asst. Prof (R9) TRREC Member |  |
| 7) K. Venkatarou | Asst. Prof (R9) TRREC Member |  |
| 8) Dr. Ramesh Chandrababu | Member Secretary (R9) TRREC |  |

TRREC

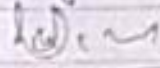
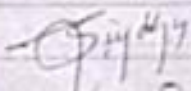
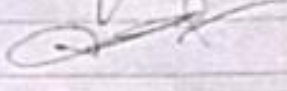
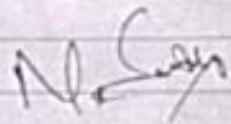
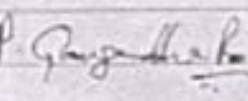

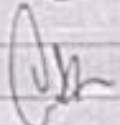
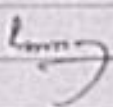
Meeting Points

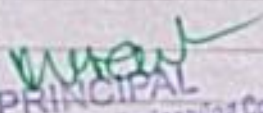
- ① Mr. P. Gangadhar Rao from Industry supported the selection of JNTUH syllabus is practically useful for the students and maintain Industry institute partnership, invite practical industrial visits, may boost the interest to learn more and more.
- ② Dr. Srintha madam expressed that the selection and adopting JNTUH syllabus is boon for the students and more realistic approach to reach and become more professional.
- ③ Dr. Ramesh Chandrabath has explained about structure of course and syllabus to the members present.
- ④ Dr. Nagrus. Srinivas supported for keeping the same syllabus and following the procedure of JNTUH.
- ⑤ Dr. L. Srinivas^{udu} expressed that selection of JNTUH syllabus is quite useful for the students and attain professional approach.

View
PRINCIPAL
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It is resolved by all the members present in the meeting of BOS and supported in choosing the JNTU syllabus without changing any content and expressed their positive opinion

Members:-

| S.No. | Name | Designation | Sig. |
|-------|------------------------|--|---|
| 1. | V. Suryanarayana | Associate Prof. |  |
| 2. | Dr. Sindhu | Prof & BOS/C JNTU |  |
| 3. | Dr. L. Sreenivas Reddy | Prof. Principal. |  |
| 4. | Dr. N. Srinivas | Prof. |  |
| 5. | P. Gangadhar Rao | Production Manager Tata White clip. |  |
| 6. | D. Srisailem | Asst. Prof., TKREC |  |
| 7. | K. Venkataraju | Asst. Prof., TKREC |  |
| 8. | Dr. Ramesh chandrath | Asst. Prof. TKREC. |  |


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| | | | | | |
|---|--|-----------|----------|----------|-----------|
| 22MB3PEM1 | Digital Marketing | 4 | 0 | 0 | 4 |
| 22MB3PEM2 | Sales and Promotion Management | 4 | 0 | 0 | 4 |
| 22MB3PEM3 | Consumer Behavior | 4 | 0 | 0 | 4 |
| Professional Elective-III (Finance) | | | | | |
| 22MB3PEF1 | Security Analysis and Portfolio Management | 4 | 0 | 0 | 4 |
| 22MB3PEF2 | Risk Management and Financial Derivatives | 4 | 0 | 0 | 4 |
| 22MB3PEF3 | Strategic Cost and Management Accounting | 4 | 0 | 0 | 4 |
| Professional Elective-III (Human Resources) | | | | | |
| 22MB3PEH1 | Talent and Performance Management Systems | 4 | 0 | 0 | 4 |
| 22MB3PEH2 | Learning and Development | 4 | 0 | 0 | 4 |
| 22MB3PEH3 | Employee Relations | 4 | 0 | 0 | 4 |
| Professional Elective-III (Entrepreneurship) | | | | | |
| 22MB3PEE1 | Startup and MSME Management | 4 | 0 | 0 | 4 |
| 22MB3PEE2 | Technology Business Incubation | 4 | 0 | 0 | 4 |
| 22MB3PEE3 | Innovation and Entrepreneurship | 4 | 0 | 0 | 4 |
| TOTAL | | 24 | 0 | 2 | 26 |

II Year II Semester

| Course Code | Course Title | L | T | P | Credits |
|--|---|-----------|----------|-----------|------------|
| 22MB4PC18 | Strategic Management | 4 | 0 | 0 | 4 |
| 22MB4PC19 | Pre-submission project Seminar | 0 | 0 | 2 | 2 |
| 22MB4PC20 | Main Project Viva-Voce | 0 | 0 | 4 | 4 |
| Professional Elective-IV (Marketing) | | | | | |
| 22MB4PEM4 | International Marketing | 4 | 0 | 0 | 4 |
| 22MB4PEM5 | Services Marketing | 4 | 0 | 0 | 4 |
| 22MB4PEM6 | Marketing Analytics | 4 | 0 | 0 | 4 |
| Professional Elective-IV (Finance) | | | | | |
| 22MB4PEF4 | International Financial Management | 4 | 0 | 0 | 4 |
| 22MB4PEF5 | Strategic Financial Management | 4 | 0 | 0 | 4 |
| 22MB4PEF6 | Financial Analytics | 4 | 0 | 0 | 4 |
| Professional Elective-IV (Human Resources) | | | | | |
| 22MB4PEH4 | International Human Resource Management | 4 | 0 | 0 | 4 |
| 22MB4PEH5 | Leadership and Change Management | 4 | 0 | 0 | 4 |
| 22MB4PEH6 | HR Analytics | 4 | 0 | 0 | 4 |
| Professional Elective-IV (Entrepreneurship) | | | | | |
| 22MB4PEE4 | Entrepreneurial Finance | 4 | 0 | 0 | 4 |
| 22MB4PEE5 | Entrepreneurial Marketing | 4 | 0 | 0 | 4 |
| 22MB4PEE6 | Family Business Management | 4 | 0 | 0 | 4 |
| TOTAL | | 16 | 0 | 6 | 22 |
| All total credits | | 90 | 0 | 12 | 102 |



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MASTER OF BUSINESS ADMINISTRATION MBA (Regular) R-22
Effective from Academic Year 2022- 23 Admitted Batch

I Year I Semester COURSE STRUCTURE AND SYLLABUS

| Course Code | Course Title | L | T | P | Credits |
|------------------------|---|-----------|----------|----------|-----------|
| 22MB1PC01 | Management and Organizational Behavior | 4 | 0 | 0 | 4 |
| 22MB1PC02 | Business Economics | 4 | 0 | 0 | 4 |
| 22MB1PC03 | Financial Reporting & Analysis | 4 | 0 | 0 | 4 |
| 22MB1PC04 | Research Methodology and Statistical Analysis | 4 | 0 | 0 | 4 |
| 22MB1PC05 | Legal and Business Environment | 4 | 0 | 0 | 4 |
| Open Elective-I | | | | | |
| 22MB1OE11 | Business Ethics and Corporate Governance | 3 | 0 | 0 | 3 |
| 22MB1OE12 | Project Management | | | | |
| 22MB1OE13 | Sustainability Management | | | | |
| 22MB1OE14 | Cross Cultural Management | | | | |
| 22MB1PC06 | Business Communication Lab. | 0 | 0 | 2 | 2 |
| 22MB1PC07 | Statistical Data Analysis Lab | 0 | 0 | 2 | 2 |
| TOTAL | | 23 | 0 | 4 | 27 |

I Year II Semester

| Course Code | Course Title | L | T | P | Credits |
|-------------------------|--|-----------|----------|----------|-----------|
| 22MB2PC08 | Human Resource Management | 4 | 0 | 0 | 4 |
| 22MB2PC09 | Marketing Management | 4 | 0 | 0 | 4 |
| 22MB2PC10 | Financial Management | 4 | 0 | 0 | 4 |
| 22MB2PC11 | Quantitative Analysis for Business Decisions | 4 | 0 | 0 | 4 |
| 22MB2PC12 | Entrepreneurship and Design Thinking | 4 | 0 | 0 | 4 |
| 22MB2PC13 | Logistics & Supply Chain Management | 4 | 0 | 0 | 4 |
| Open Elective-II | | | | | |
| 22MB2OE21 | Total Quality Management | 3 | 0 | 0 | 3 |
| 22MB2OE22 | Marketing Research | | | | |
| 22MB2OE23 | International Business | | | | |
| 22MB2OE24 | Rural Marketing | | | | |
| TOTAL | | 27 | 0 | 0 | 27 |

Internship during summer vacation (after Semester-II)

II Year I Semester

| Course Code | Course Title | L | T | P | Credits |
|--|------------------------------------|---|---|---|---------|
| 22MB3PC14 | Production & Operations Management | 4 | 0 | 0 | 4 |
| 22MB3PC15 | Management Information Systems | 4 | 0 | 0 | 4 |
| 22MB3PC16 | Business Analytics | 4 | 0 | 0 | 4 |
| 22MB3PC17 | Summer Internship | 0 | 0 | 2 | 2 |
| Professional Elective-III (Marketing) | | | | | |

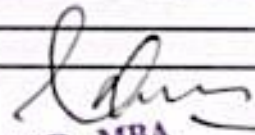
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 Nagar, Hyderabad - 500079. A.P.


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 Meerpet, Hyderabad - 97.

| | | | | | |
|---|--|-----------|----------|----------|-----------|
| 22MB3PEM1 | Digital Marketing | 4 | 0 | 0 | 4 |
| 22MB3PEM2 | Sales and Promotion Management | 4 | 0 | 0 | 4 |
| 22MB3PEM3 | Consumer Behavior | 4 | 0 | 0 | 4 |
| Professional Elective-III (Finance) | | | | | |
| 22MB3PEF1 | Security Analysis and Portfolio Management | 4 | 0 | 0 | 4 |
| 22MB3PEF2 | Risk Management and Financial Derivatives | 4 | 0 | 0 | 4 |
| 22MB3PEF3 | Strategic Cost and Management Accounting | 4 | 0 | 0 | 4 |
| Professional Elective-III (Human Resources) | | | | | |
| 22MB3PEH1 | Talent and Performance Management Systems | 4 | 0 | 0 | 4 |
| 22MB3PEH2 | Learning and Development | 4 | 0 | 0 | 4 |
| 22MB3PEH3 | Employee Relations | 4 | 0 | 0 | 4 |
| Professional Elective-III (Entrepreneurship) | | | | | |
| 22MB3PEE1 | Startup and MSME Management | 4 | 0 | 0 | 4 |
| 22MB3PEE2 | Technology Business Incubation | 4 | 0 | 0 | 4 |
| 22MB3PEE3 | Innovation and Entrepreneurship | 4 | 0 | 0 | 4 |
| TOTAL | | 24 | 0 | 2 | 26 |

II Year II Semester

| Course Code | Course Title | L | T | P | Credits |
|--|---|-----------|----------|-----------|------------|
| 22MB4PC18 | Strategic Management | 4 | 0 | 0 | 4 |
| 22MB4PC19 | Pre-submission project Seminar | 0 | 0 | 2 | 2 |
| 22MB4PC20 | Main Project Viva-Voce | 0 | 0 | 4 | 4 |
| Professional Elective-IV (Marketing) | | | | | |
| 22MB4PEM4 | International Marketing | 4 | 0 | 0 | 4 |
| 22MB4PEM5 | Services Marketing | 4 | 0 | 0 | 4 |
| 22MB4PEM6 | Marketing Analytics | 4 | 0 | 0 | 4 |
| Professional Elective-IV (Finance) | | | | | |
| 22MB4PEF4 | International Financial Management | 4 | 0 | 0 | 4 |
| 22MB4PEF5 | Strategic Financial Management | 4 | 0 | 0 | 4 |
| 22MB4PEF6 | Financial Analytics | 4 | 0 | 0 | 4 |
| Professional Elective-IV (Human Resources) | | | | | |
| 22MB4PEH4 | International Human Resource Management | 4 | 0 | 0 | 4 |
| 22MB4PEH5 | Leadership and Change Management | 4 | 0 | 0 | 4 |
| 22MB4PEH6 | HR Analytics | 4 | 0 | 0 | 4 |
| Professional Elective-IV (Entrepreneurship) | | | | | |
| 22MB4PEE4 | Entrepreneurial Finance | 4 | 0 | 0 | 4 |
| 22MB4PEE5 | Entrepreneurial Marketing | 4 | 0 | 0 | 4 |
| 22MB4PEE6 | Family Business Management | 4 | 0 | 0 | 4 |
| TOTAL | | 16 | 0 | 6 | 22 |
| All total credits | | 90 | 0 | 12 | 102 |


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 Medibowli, Meerpet, Hyderabad - 97.

1st Board of Studies meeting (Online mode)

MBA Department Board of Studies meeting was held on 23rd June, 2021 at 12:00 pm through on-line mode and discussed about the course structure, syllabus and other department subjects concerned to MBA for the approval of (R20) for the students admitted in 20-21 Academic year. The following members were present-

members present-

1. V. Sujya Nalayama ASSOC PROF, HOD of
MBA Dept- chairman
BOS, TCRCE (R9)
2. Dr Sindhu PROFESSOR & BOS chairperson
JNTU11
3. Dr. L. Srinivas Reddy Aristotle PG. College
Principal
4. Dr Nagunuri Srinivas Prof, St Joseph
PG College
5. P. Chandrahara Rao Production manager
(Industry) Tata architect P.
6. D. Srisailam ASSOC PROF,
member (R9 college)
7. K. Venkata Ravi ASSOC PROF
member (R9 college)

① Dr Ramesh Chandavath Asst Prof
Member Secretary RGS

Meeting Points

① Mr P. Gangadhar Rao interacted with all members and suggested that HR is the main resource to develop any Organisation or institution.

Industry Interaction through Workshop, Seminars to develop the Students to develop practically

② Dr Sindhu madam has expressed Regs Projects and its importance, Electives in different areas HR, marketing, Finance and allocation of faculty etc. and also expressed different subjects in different Semesters. how JNTU has formed syllabus to make the Students Very professional

③ Dr Ramesh Chandavath has explained about Course Structure and syllabus to the members and cleared the doubts to the members

(4) Dr. Nagendra Shrivastava expressed that 5th unit in marketing subject to change as contemporary to reach the students. He also expressed skill development is important in some areas.

(5) Dr. L. Shivadas has expressed his opinion to have some correction in syllabus headings regarding marketing bold to look brighter and expressed his happiness towards framing of INTUIT syllabus to reach the students. But should and must students prove practically and put their efforts.

It is resolved by all the members and approved the MBA syllabus R 20 and also approved other depart concerned subjects (secured from MBA) for the students admitted in 20-21 Academic Year.

urwen

Members

- (1) V. Sulya Sanya Nayana Assoc Prof sd.
Admission
23/6
- (2) Dr Sindhu Prof & BOS Z/c
JKREC Sindhu
23/6
- (3) Dr L. Sreenivas Reddy Prof
Principal Sreenivas
23/6
- (4) Dr N. Srinivas Prof N. Srinivas
23/6
- (5) P. Gangadhar Rao Production
manager
Tate White clg P. Gangadhar Rao
23/6
- (6) D. Srinilam Asst-Prof
JKREC D. Srinilam
23/6
- (7) K. Venkata Ravi Asst-Prof
JKREC K. Venkata Ravi
23/6
- (8) Dr R. Ramesh Chandrab Asst-Prof
JKREC Ramesh Chandrab
23/6

Board of Studies meeting (online mode)

Teegala Krishna Reddy Engineering College (R&MBA Department) Board Studies meeting was held on 27/01/2024 at 12:30 pm through online mode and discussed about the structure of the concerned subjects to be served for other UG (Subjects) courses from men department, for
approval

Members Present

- 1) V. Susya Nalayana: Assoc prof men dep
chairman of BOS
TIERRE (R&M)
- 2) Dr. Sindhu: Principal & Professor
JNTUHT
- 3) Dr. L. Srinivas Reddy: Mari Stella Ph College
Principal
- 4) Dr. N. Srinivas: Park St Joseph
Ph College
- 5) P. Ganfadhara Rao: Production manager
- 6) Dr. Ramesh Chandevu: member Secretary
MBA Dept.
TIERRE
- 7) D. Sreedharan: member
(TIERRE)
- 8) M. Annapurna: member

[Signature]
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meeting points

- ① Dr. Sindhu madam expressed that authors of the syllabus framed are old and to be changed accordingly
- ② Mr. P. Gangadhar Rao expressed about the organization behaviour subjects to be updated with the present trends to meet the current challenges
- ③ Dr. N. Srinivas supported the structure of the syllabus
- ④ Dr. L. Srinivas also supported that the selection topics are upto the mark
- ⑤ Dr. Ramesh Chandavath explained the syllabus and structure for the approval.

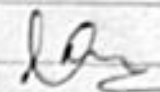
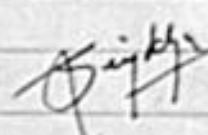
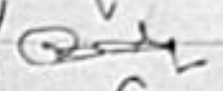
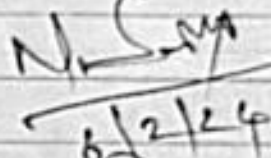



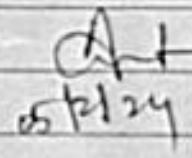
Meeting ended without any technical problem

PRINCIPAL

Dr. Krishna Reddy Engineering College
(UGC-AUTONOMOUS)
Maddur, Meerpet, Hyderabad - 50.

91. is resolved by all the members present in the meeting of BOS and supported the structure and syllabus and expressed positively

Members

- 1) V. Suleya Nalayani Chair Person 
- 2) Dr Pinelky Principal & Prof
JNTU 
- 3) Dr L. Sreenivas Reddy Prof & Principal
Aristotle Ph 
- 4) Dr N. Prinivas Prof & HOD N. Srinivas
6/2/24 
- 5) Dr P. Gangadhar Reddy Production
manager 
- 6) Dr Ramesh Chandakath ASSI Prof
TIEREC 
- 7) ~~Dr~~ Sreedasilan ASSI-Prof
TIEREC 
- 8) M. Annapoorna ASSI-Prof
TIEREC 

Dr Ramesh Chandakath
PRINCIPAL
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TEEGALA KRISHNA REDDY ENGINEERING COLLEGE
(UGC-Autonomous)

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Medbowli, Meerpet, Balapur, Hyderabad, Telangana- 500097
Mob: 9393959597. Email: info@tkrec.ac.in, deanacademics@tkrec.ac.in



MASTER OF BUSINESS ADMINISTRATION MBA (Regular) R-20
Effective from Academic Year 2020- 21 Admitted Batch

I Year I Semester COURSE STRUCTURE AND SYLLABUS

| Course Code | Course Title | L | T | P | Credits |
|------------------------|---|-----------|----------|----------|-----------|
| 20MB1PC01 | Management and Organizational Behavior | 3 | 1 | 0 | 4 |
| 20MB1PC02 | Business Economics | 3 | 1 | 0 | 4 |
| 20MB1PC03 | Financial Accounting & Analysis | 3 | 1 | 0 | 4 |
| 20MB1PC04 | Research Methodology and Statistical Analysis | 3 | 1 | 0 | 4 |
| 20MB1PC05 | Legal and Business Environment | 3 | 1 | 0 | 4 |
| Open Elective-I | | | | | |
| 20MB1OE11 | Business Ethics and Corporate Governance | 3 | 0 | 0 | 3 |
| 20MB1OE12 | Project Management | | | | |
| 20MB1OE13 | Technology Management | | | | |
| 20MB1OE14 | Cross Cultural Management | | | | |
| 20MB1PC06 | Business Communication Lab. | 0 | 0 | 2 | 2 |
| 20MB1PC07 | Statistical Data Analysis Lab | 0 | 0 | 2 | 2 |
| TOTAL | | 18 | 5 | 4 | 27 |

I Year II Semester

| Course Code | Course Title | L | T | P | Credits |
|-------------------------|--|-----------|----------|----------|-----------|
| 20MB2PC08 | Human Resource Management | 3 | 1 | 0 | 4 |
| 20MB2PC09 | Marketing Management | 3 | 1 | 0 | 4 |
| 20MB2PC10 | Financial Management | 3 | 1 | 0 | 4 |
| 20MB2PC11 | Quantitative Analysis for Business Decisions | 3 | 1 | 0 | 4 |
| 20MB2PC12 | Entrepreneurship | 3 | 1 | 0 | 4 |
| 20MB2PC13 | Logistics & Supply Chain Management | 3 | 1 | 0 | 4 |
| Open Elective-II | | | | | |
| 20MB2OE21 | Total Quality Management | 3 | 0 | 0 | 3 |
| 20MB2OE22 | Marketing Research | | | | |
| 20MB2OE23 | International Business | | | | |
| 20MB2OE24 | Rural Marketing | | | | |
| TOTAL | | 21 | 6 | 0 | 27 |

[Signature]
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Teegala Krishna Reddy Engg. College
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Medbowli, Meerpet, Balapur, Hyderabad, Telangana- 500097

Mob: 9393959597. Email: info@tkrec.ac.in, deanacademics@tkrec.ac.in



Internship during summer vacation (after Semester-II)

II Year I Semester

| Course Code | Course Title | L | T | P | Credits |
|---|--|-----------|----------|----------|-----------|
| 20MB3PC14 | Production & Operations Management | 3 | 1 | 0 | 4 |
| 20B3PC15 | Management Information Systems | 3 | 1 | 0 | 4 |
| 20MB3PC16 | Data Analytics | 3 | 1 | 0 | 4 |
| 20MB3PC17 | Summer Internship | 0 | 0 | 0 | 2 |
| Professional Elective-III (Marketing) | | | | | |
| 20MB3PEM1 | Digital Marketing | 3 | 1 | 0 | 4 |
| 20MB3PEM2 | Advertising and Sales Management | 3 | 1 | 0 | 4 |
| 20MB3PEM3 | Consumer Behavior | 3 | 1 | 0 | 4 |
| Professional Elective-III (Finance) | | | | | |
| 20MB3PEF1 | Security Analysis and Portfolio Management | 3 | 1 | 0 | 4 |
| 20MB3PEF2 | Financial Institutions, Markets & Services | 3 | 1 | 0 | 4 |
| 20MB3PEF3 | Strategic Management Accounting | 3 | 1 | 0 | 4 |
| Professional Elective-III (Human Resources) | | | | | |
| 20MB3PEH1 | Performance Management Systems | 3 | 1 | 0 | 4 |
| 20MB3PEH2 | Learning and Development | 3 | 1 | 0 | 4 |
| 20MB3PEH3 | Management of Industrial Relations | 3 | 1 | 0 | 4 |
| Professional Elective-III (Entrepreneurship) | | | | | |
| 20MB3PEE1 | Startup Management | 3 | 1 | 0 | 4 |
| 20MB3PEE2 | MSME Management | 3 | 1 | 0 | 4 |
| 20MB3PEE3 | Family Business Management | 3 | 1 | 0 | 4 |
| TOTAL | | 18 | 6 | 0 | 26 |

[Signature]
D - MBA

Teegala Krishna Reddy Engg. College
Medbowli, Meerpet,
Saroornagar, Hyderabad - 500079, A.P.

[Signature]
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II Year II Semester

| Course Code | Course Title | L | T | P | Credits |
|--|--|-----------|-----------|-----------|------------|
| 20MB4PC18 | Strategic Management | 3 | 1 | 0 | 4 |
| 20MB4PC19 | Pre-submission project Seminar | 0 | 0 | 2 | 2 |
| 20MB4PC20 | Main Project Viva-Voce | 0 | 2 | 4 | 4 |
| Professional Elective-IV (Marketing) | | | | | |
| 20MB4PEM4 | Customer Relationship Management | 3 | 1 | 0 | 4 |
| 20MB4PEM5 | International Marketing | 3 | 1 | 0 | 4 |
| 20MB4PEM6 | Services Marketing | 3 | 1 | 0 | 4 |
| Professional Elective-IV (Finance) | | | | | |
| 20MB4PEF4 | International Financial Management | 3 | 1 | 0 | 4 |
| 20MB4PEF5 | Strategic Investment and Financing Decisions | 3 | 1 | 0 | 4 |
| 20MB4PEF6 | Risk Management and Financial Derivatives | 3 | 1 | 0 | 4 |
| Professional Elective-IV (Human Resources) | | | | | |
| 20MB4PEH4 | International Human Resource Management | 3 | 1 | 0 | 4 |
| 20MB4PEH5 | Leadership and Change Management | 3 | 1 | 0 | 4 |
| 20MB4PEH6 | Talent and Knowledge Management | 3 | 1 | 0 | 4 |
| Professional Elective-IV (Entrepreneurship) | | | | | |
| 20MB4PEE4 | Entrepreneurial Finance | 3 | 1 | 0 | 4 |
| 20MB4PEE5 | Entrepreneurial Marketing | 3 | 1 | 0 | 4 |
| 20MB4PEE6 | Creativity Innovation and Entrepreneurship | 3 | 1 | 0 | 4 |
| TOTAL | | 12 | 6 | 6 | 22 |
| All total credits | | 69 | 23 | 10 | 102 |

[Signature]
HOOD - MBA
 Tteegala Krishna Reddy Engg. College
 S 3, Medbowli, Meerpet,
 Saroornagar, Hyderabad - 500079, A.P.

[Signature]
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MASTER OF BUSINESS ADMINISTRATION MBA (Regular) R-19
Effective from Academic Year 2019 - 20 Admitted Batch

COURSE STRUCTURE AND SYLLABUS

I Year I Semester

| Course Code | Course Title | L | T | P | Credits |
|----------------------------|--|-----------|----------|----------|-----------|
| 19MBA01 | Management and Organizational Behaviour | 3 | 1 | 0 | 4 |
| 19MBA02 | Business Economics | 3 | 1 | 0 | 4 |
| 19MBA03 | Financial Accounting & Analysis | 3 | 1 | 0 | 4 |
| 19MBA04 | Research Methodology and Statistical Analysis | 3 | 1 | 0 | 4 |
| 19MBA05 | Legal and Business Environment | 3 | 1 | 0 | 4 |
| Open Elective-I 19MBA06 | 6A Business Ethics and Corporate Governance 6B Project Management 6C Technology Management 6D Cross Cultural Management | 3 | 0 | 0 | 3 |
| 19MBA07 | Business Communication Lab. | 0 | 0 | 2 | 2 |
| 19MBA08 | Statistical Data Analysis Lab | 0 | 0 | 2 | 2 |
| | TOTAL | 18 | 5 | 4 | 27 |

I Year II Semester

| Course Code | Course Title | L | T | P | Credits |
|-----------------------------|---|-----------|----------|----------|-----------|
| 19MBA09 | Human Resource Management | 3 | 1 | 0 | 4 |
| 19MBA10 | Marketing Management | 3 | 1 | 0 | 4 |
| 19MBA11 | Financial Management | 3 | 1 | 0 | 4 |
| 19MBA12 | Quantitative Analysis for Business Decisions | 3 | 1 | 0 | 4 |
| 19MBA13 | Entrepreneurship | 3 | 1 | 0 | 4 |
| 19MBA14 | Logistics & Supply Chain Management | 3 | 1 | 0 | 4 |
| Open Elective-II 19MBA15 | 15A Total Quality Management 15B Marketing Research 15C International Business 15D Rural Marketing | 3 | 0 | 0 | 3 |
| | TOTAL | 21 | 6 | 0 | 27 |

Internship during Summer vacation (after Semester -II)

II Year I Semester

| Course Code | Course Title | L | T | P | Credits |
|------------------------|------------------------------------|---|---|---|---------|
| 19MBA16 | Production & Operations Management | 3 | 1 | 0 | 4 |
| 19MBA17 | Management Information Systems | 3 | 1 | 0 | 4 |
| 19MBA18 | Data Analytics | 3 | 1 | 0 | 4 |
| 19MBA19 M1/H1/F/E1 | (MRKG/HRM/FIN/ENTP) | 3 | 1 | 0 | 4 |
| 19MBA20 M2/H2/F2/E2 | (MRKG/HRM/FIN/ENTP) | 3 | 1 | 0 | 4 |
| 19MBA21 M3/H3/F3/E3 | (MRKG/HRM/FIN/ENTP) | 3 | 1 | 0 | 4 |

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Saroornagar, Hyderabad - 500079, A.P.

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| | | | | | |
|---------|-------------------|-----------|----------|----------|-----------|
| 19MBA22 | Summer Internship | 0 | 0 | 0 | 2 |
| | TOTAL | 18 | 6 | 3 | 26 |

II Year II Semester

| Course Code | Course Title | L | T | P | Credits |
|-------------------------|--------------------------------|-----------|----------|----------|-----------|
| 19MBA 23 | Strategic Management | 3 | 1 | 0 | 4 |
| 19MBA 24 M4/H4/F4/E4 | (MRKG/HRM/FIN/ENTP) | 3 | 1 | 0 | 4 |
| 19MBA25 M5/H5/F5/E5 | (MRKG/HRM/FIN/ENTP) | 3 | 1 | 0 | 4 |
| 19MBA26 M6/H6/F6/E6 | (MRKG/HRM/FIN/ENTP) | 3 | 1 | 0 | 4 |
| 19MBA27 | Pre-submission project Seminar | 0 | 0 | 2 | 2 |
| 19MBA28 | Main Project Viva-Voce | 0 | 2 | 4 | 4 |
| | TOTAL | 12 | 6 | 6 | 22 |

LIST OF ELECTIVE SUBJECTS

Students have to select any One Specialization (Marketing, Finance, Human Resources, and Entrepreneurship) and he/she needs to select the Core Elective subjects listed under the chosen specialization only.

| Course Code | Specialization | Credits |
|-------------|--|---------|
| | MARKETING | |
| 19MBA19M1 | Digital Marketing | 4 |
| 19MBA20 M2 | Advertising and Sales Management | 4 |
| 19MBA21 M3 | Consumer Behaviour | 4 |
| 19MBA24 M4 | Customer Relationship Management | 4 |
| 19MBA25 M5 | International Marketing | 4 |
| 19MBA26 M6 | Services Marketing | 4 |
| | FINANCE | |
| 19MBA19F1 | Security Analysis and Portfolio Management | 4 |
| 19MBA20 F2 | Financial Institutions, Markets & Services | 4 |
| 19MBA21 F3 | Strategic Management Accounting | 4 |
| 19MBA24 F4 | International Financial Management | 4 |
| 19MBA25 F5 | Strategic Investment and Financing Decisions | 4 |
| 19MBA26F6 | Risk Management and Financial Derivatives | 4 |
| | HUMAN RESOURCES | |
| 19MBA19H1 | Performance Management Systems | 4 |
| 19MBA20 H2 | Learning and Development | 4 |
| 19MBA21 H3 | Management of Industrial Relations | 4 |
| 19MBA24 H4 | International Human Resource Management | 4 |
| 19MBA25H5 | Leadership and Change Management | 4 |
| 19MBA26 H6 | Talent and Knowledge Management | 4 |
| | ENTREPRENEURSHIP | |
| 19MBA19E1 | Startup Management | 4 |
| 19MBA20 E2 | MSME Management | 4 |
| 19MBA21 E3 | Family Business Management | 4 |
| 19MBA24E4 | Entrepreneurial Finance | 4 |
| 19MBA25 E5 | Entrepreneurial Marketing | 4 |
| 19MBA26 E6 | Creativity Innovation and Entrepreneurship | 4 |

Board of Studies meeting

- > A meeting of board of studies for CSE department was held on 3/11/22 through online mode by the following members for the approval of course structure and syllabus of P22 Regulation.
- > AS Per the Regulation (P22) given by JNTUH, Teegala Krishna Reddy Engineering College (P22) of CSE department is following the same course structure.
- > AS Per the Regulation (P22), we are following the same syllabus of JNTUH upto IInd year for all courses.

[Signature]
 Dr. E. Suresh Babu
 Head, CSE Dept.

[Signature]

[Signature]

[Signature]



Dr. E. Suresh Babu
 Department of Computer Science & Engineering
 National Institute of Technology, Warangal
 Teegana, U.P.A. - 501304
 Hyderabad-97

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1. Dr. CH.V. Phani Krishna

Professor, CSE Dept. with
 Chairman BOS, TKREC(P22)

2. Dr. K. Bhargavi

Professor, CSE Dept.
 member, TKREC(P22)

3. P.V. Ramgopal Rao

Asst. Professor, CSE Dept
 member, TKREC(P22)

4. M. Chinnababu


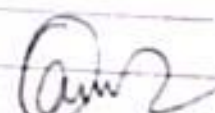
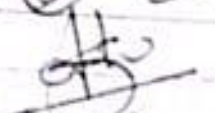
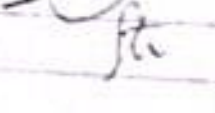
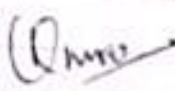
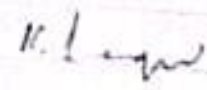
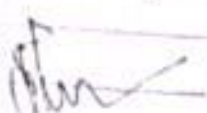
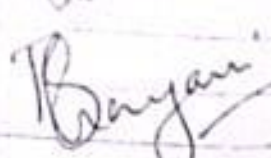
Asst. Professor, CSE Dept
 Member, TKREC(P22) (M)

22/6/21
11:00 AM

1st Board of Studies Meeting (Online Mode)

A meeting of Board of Studies for M.Tech - CSE department was held on 22nd June 2021, at 11:00 AM through online mode & the following points were suggested by Members, towards the approval of course structure syllabuses upto 4th semester (R20) for the students admitted in 2020-21 academic year.

The Members Present

- | | | |
|-------------------------------|--|---|
| 1. Dr. Ch.V. Phani Krishna | Professor, HOD-CSE Chairman - BOS TKREC (R9) |  |
| 2. Dr. D. Vasumathi | Professor, HOD-CSE JNTUH Nominee |  |
| 3. Dr. E. Suresh Babu | Asst. Prof. NIT- Warangal, Member |  |
| 4. Dr. B. Sujatha | Asst. Prof. OU-COE Member |  |
| 5. P. Madhu Kumar Reddy | Asso. Director, Navatis (Industry Expert) |  |
| 6. Dr. K. Sarangam | Asst. Prof. R9-BOS Member |  |
| 7. Dr. N. Vadivelan | Asst. Prof. R9-BOS Member |  |
| 8. Dr. K. Bhargavi | Asst. Prof. R9-BOS Member Secretary |  |

1. Dr. D. Vasumathi Madam suggested for changing subjects in next regulation.
2. Dr. E. Suresh Babu sir suggested for replacing "High Performance computing" with Cloud & fog computing.
3. Dr. B. Sujatha Madam suggested for incorporating new electives in M.Tech Iydas II sem.
4. Mr. Madhu Kumar Reddy sir suggested for internships and real time projects in different domains.
5. Dr. D. Vasumathi Madam suggested for the incorporation of High Performance Computing in place of Deep learning.

6.



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TEEGALA KRISHNA REDDY ENGINEERING COLLEGE (UGC-Autonomous)

Approved by AICTE, Affiliated to JNTUH, Accredited by NAAC- 'A' Grade
Medbowli, Meerpet, Balapur, Hyderabad, Telangana-500097
Mob: 9393959597. Email: info@tkrec.ac.in, deanacademics@tkrec.ac.in



II Semester

| Sno. | Course Code | Core/ Elective | Course Title | L | T | P | Credits |
|--------------|-------------|-------------------|---------------------------------|-----------|----------|-----------|-----------|
| 1 | 22MT201PC | PC | Advanced Algorithms | 3 | 0 | 0 | 3 |
| 2 | 22MT202PC | PC | Advanced Computer Architecture | 3 | 0 | 0 | 3 |
| 3 | 22MT231PE | PE-III | 1. Enterprise Cloud Concepts | 3 | 0 | 0 | 3 |
| | 22MT232PE | | 2. Advanced Computer Networks | | | | |
| | 22MT233PE | | 3. Edge Analytics | | | | |
| 4 | 22MT241PE | PE-IV | 1. Bioinformatics | 3 | 0 | 0 | 3 |
| | 22MT242PE | | 2. Nature Inspired Computing | | | | |
| | 22MT243PE | | 3. Robotic Process Automation | | | | |
| 5 | 22MT203PC | PC | Advanced Algorithms Lab | 0 | 0 | 4 | 2 |
| 6 | | PE-III LAB | Professional Elective - III Lab | 0 | 0 | 4 | 2 |
| 7 | 22MT201PW | PW | Mini Project with Seminar | 0 | 0 | 4 | 2 |
| 8 | | | Audit Course- II | 2 | 0 | 0 | 0 |
| Total | | | | 14 | 0 | 12 | 18 |

III Semester

| Sno. | Course Code | CORE/ELECTIVE | Course Title | L | T | P | Credits |
|--------------|-------------|---------------|-------------------------------|----------|----------|-----------|-----------|
| 1 | 22MT351PE | PE-V | 1. Digital Forensics | 3 | 0 | 0 | 3 |
| | 22MT352PE | | 2. High Performance Computing | | | | |
| | 22MT353PE | | 3. Quantum Computing | | | | |
| 2 | | OE | Open Elective | 3 | 0 | 0 | 3 |
| 3 | 22MT301PW | PW | Dissertation Work Review - II | 0 | 0 | 12 | 6 |
| Total | | | | 6 | 0 | 12 | 12 |

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Mob: 9393959597. Email: info@tkrec.ac.in deanacademics@tkrec.ac.in



IV Semester

| Sno. | Course Code | CORE/ELECTIVE | Course Title | L | T | P | Credits |
|--------------|-------------|---------------|--------------------------------|----------|----------|-----------|-----------|
| 1 | 22MT401PW | PW | Dissertation Work Review - III | 0 | 0 | 12 | 6 |
| 2 | 22MT402PW | PW | Dissertation Viva-Voce | 0 | 0 | 28 | 14 |
| Total | | | | 0 | 0 | 40 | 20 |

Professional Elective -I

| | | |
|-----------|-----------|------------------------------------|
| 22MT111PE | PE-I | 1.Database Programming with PL/SQL |
| 22MT112PE | | 2.Deep Learning |
| 22MT113PE | | 3.Natural Language Processing |
| 22MT114PE | PE-I LABS | 1.Database Programming with PL/SQL |
| 22MT115PE | | 2.Deep Learning |
| 22MT116PE | | 3.Natural Language Processing |

Professional Elective -II

| | | |
|-----------|-------|---------------------------------|
| 22MT121PE | PE-II | 1. Applied Cryptography |
| 22MT122PE | | 2. Software Quality Engineering |
| 22MT123PE | | 3. Mining Massive Datasets |

W. V. R. E. U.
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Mob: 9393959597. Email: info@tkrec.ac.in, deanacademics@tkrec.ac.in



M. Tech I Year II Semester (R20)

| S. No | Subject Code | Category | Subject Name | Hours per | | | Credits |
|--------------|--------------|-----------------------------|---------------------------------------|-----------|----------|-----------|-----------|
| | | | | L | T | P | |
| 01 | 20MT2PC06 | Professional Core - III | Advanced Algorithms | 3 | 0 | 0 | 3 |
| 02 | 20MT2PC07 | Professional Core - IV | Advanced Computer Architecture | 3 | 0 | 0 | 3 |
| 03 | 20MT2PE31 | Professional Elective - III | 1. Web and Database Security | 3 | 0 | 0 | 3 |
| 04 | 20MT2PE32 | | 2. Internet of Things | | | | |
| 05 | 20MT2PE33 | | 3. Data Science | | | | |
| 06 | 20MT2PE41 | Professional Elective - IV | 1. Cyber Security | 3 | 0 | 0 | 3 |
| 07 | 20MT2PE42 | | 2. Advanced Computer Networks | | | | |
| 08 | 20MT2PE43 | | 3. Big Data Analytics | | | | |
| 09 | 20MT2PC08 | Lab - III | Advanced Algorithms Lab | 0 | 0 | 4 | 2 |
| 10 | 20MT2PC09 | Lab - IV | Data Science Lab | 0 | 0 | 4 | 2 |
| 11 | 20MT2MP01 | Mini Project with Seminar | Mini Project with Seminar | 0 | 0 | 4 | 2 |
| 12 | 20MT2MC21 | Audit Course - II | 1. English for Research Paper Writing | 2 | 0 | 0 | 0 |
| 13 | 20MT2MC22 | | 2. Disaster Management | | | | |
| 14 | 20MT2MC23 | | 3. Sanskrit for Technical Knowledge | | | | |
| 15 | 20MT2MC24 | | 4. Value Education | | | | |
| Total | | | | 14 | 0 | 12 | 18 |


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Mob: 9393959597. Email: info@tkrec.ac.in, deanacademics@tkrec.ac.in



M. Tech II Year I Semester (R20)

| S. No | Subject Code | Category | Subject Name | Hours per | | | Credits |
|--------------|--------------|---------------------------|-------------------------------|-----------|----------|-----------|-----------|
| | | | | L | T | P | |
| 01 | 20MT3PE51 | Professional Elective - V | 1. Digital Forensics | 3 | 0 | 0 | 3 |
| 02 | 20MT3PE52 | | 2. Cloud and Fog Computing | | | | |
| 03 | 20MT3PE53 | | 3. High Performance Computing | | | | |
| 04 | | Open Elective | | 3 | 0 | 0 | 3 |
| 05 | 20MT3PW01 | Dissertation | Dissertation Work Review - II | 0 | 0 | 12 | 6 |
| Total | | | | 6 | 0 | 12 | 12 |

Open Elective

| | | | | | | | |
|----|-----------|---------------|--|---|---|---|---|
| 01 | 20MT3OE11 | Open Elective | 1. Composite Materials | 3 | 0 | 0 | 3 |
| 02 | 20MT3OE12 | | 2. Energy from Waste | | | | |
| 03 | 20MT3OE13 | | 3. Cost Management of Engineering Projects | | | | |
| 04 | 20MT3OE14 | | 4. Business Analytics | | | | |
| 04 | 20MT3OE15 | | 5. Industrial Safety | | | | |

M. Tech II Year II Semester (R20)

| S. No | Subject Code | Category | Subject Name | Hours per | | | Credits |
|--------------|--------------|--------------|--------------------------------|-----------|----------|-----------|-----------|
| | | | | L | T | P | |
| 01 | 20MT4PW02 | Dissertation | Dissertation Work Review - III | 0 | 0 | 12 | 6 |
| 02 | 20MT4PW03 | Dissertation | Project Viva-Voce | 0 | 0 | 28 | 14 |
| Total | | | | 0 | 0 | 40 | 20 |

W. Prasad
PRINCIPAL

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M. Tech. COMPUTER SCIENCE AND ENGINEERING/COMPUTER SCIENCE
EFFECTIVE FROM ACADEMIC YEAR 2019 - 20 ADMITTED BATCH
R19 COURSE STRUCTURE AND SYLLABUS

I YEAR I – SEMESTER

| Course Code | Course Title | L | T | P | Credits |
|----------------------------|---|-----------|----------|----------|-----------|
| Professional Core - I | Mathematical Foundations of Computer Science | 3 | 0 | 0 | 3 |
| Professional Core - II | Advanced Data Structures | 3 | 0 | 0 | 3 |
| Professional Elective - I | 1. Information Security 2. Mobile Application Development 3. Machine Learning | 3 | 0 | 0 | 3 |
| Professional Elective - II | 1. Network Security 2. Cloud Computing 3. Data Mining | 3 | 0 | 0 | 3 |
| Lab - I | Advanced Data Structures Lab | 0 | 0 | 4 | 2 |
| Lab - II | Machine Learning Lab | 0 | 0 | 4 | 2 |
| | Research Methodology & IPR | 2 | 0 | 0 | 2 |
| Audit - I | Audit Course - I | 2 | 0 | 0 | 0 |
| | Total | 16 | 0 | 8 | 18 |

I YEAR II – SEMESTER

| Course Code | Course Title | L | T | P | Credits |
|-----------------------------|--|-----------|----------|-----------|-----------|
| Professional Core - III | Advanced Algorithms | 3 | 0 | 0 | 3 |
| Professional Core - IV | Advanced Computer Architecture | 3 | 0 | 0 | 3 |
| Professional Elective - III | 1. Web and Database Security 2. Internet of Things 3. Data Science | 3 | 0 | 0 | 3 |
| Professional Elective - IV | 1. Cyber Security 2. Advanced Computer Networks 3. Big Data Analytics | 3 | 0 | 0 | 3 |
| Lab - III | Advanced Algorithms Lab | 0 | 0 | 4 | 2 |
| Lab - IV | Data Science Lab | 0 | 0 | 4 | 2 |
| | Mini Project with Seminar | 0 | 0 | 4 | 2 |
| Audit - II | Audit Course - II | 2 | 0 | 0 | 0 |
| | Total | 14 | 0 | 12 | 18 |


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II YEAR III – SEMESTER

| Course Code | Course Title | L | T | P | Credits |
|---------------------------|---|----------|----------|-----------|-----------|
| Professional Elective - V | 1. Digital Forensics 2. High Performance Computing 3. Deep Learning | 3 | 0 | 0 | 3 |
| Open Elective | Open Elective | 3 | 0 | 0 | 3 |
| Dissertation | Dissertation Work Review - II | 0 | 0 | 12 | 6 |
| | Total | 6 | 0 | 12 | 12 |

II YEAR II - SEMESTER

| Course Code | Course Title | L | T | P | Credits |
|--------------|--------------------------------|----------|----------|-----------|-----------|
| Dissertation | Dissertation Work Review - III | 0 | 0 | 12 | 6 |
| Dissertation | Dissertation Viva-Voce | 0 | 0 | 28 | 14 |
| | Total | 0 | 0 | 40 | 20 |

*For Dissertation Work Review - I, Please refer 7.8 in R19 Academic Regulations.

Audit Course I & II:

1. English for Research Paper Writing
2. Disaster Management
3. Sanskrit for Technical Knowledge
4. Value Education
5. Constitution of India
6. Pedagogy Studies
7. Stress Management by yoga
8. Personality Development Through Life Enlightenment Skills