TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(AUTONOMOUS)
(Sponsored by TKR Educational Society , Approved by AICTE, Affiliated by JNTUH,
Accredited by NBA & NAAC with 'A' Grade)

NAAC

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

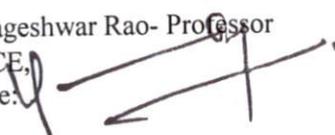## MINUTES OF BOS MEETING

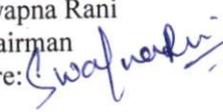TKRCET/ECE/BOS/MM-1/2019-20   Dt: 21-11-2020

The Executive members of the Board of Studies, Department of ECE have met on 21-11-2020
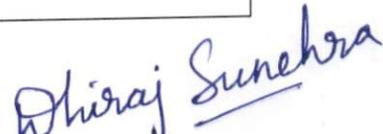
MEMBERS OF BOS:

S. No	MEMBER	POSITION IN THE BOS
1	Dr. D.Nageshwar Rao- Professor	HoD,ECE,
2	Dr.B.swapna Rani	Chairman, BOS
3	Dr. Dhiraj Sunehra - Professor	JNTUJ Nominee
4	Dr.C Venkata Narasimhulu, Professor and Principal Lords Insitute of Technology , Hyderabad	External Subject Expert
5	Dr. M. Chandrashekar senior Manager, BDL, Hydeabad	Industry Expert
6	Dr Amit Gangopadhayay	Internal Subject Expert
7	DrM.Mahesh	Internal Subject Expert
8	Mrs. Ch. Divya	Member

Dr D.Nageshwar Rao- Professor
HoD, ECE,
Signature:

Dr.CVenkata Narasimhulu
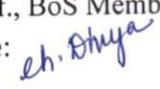External Subject Expert
Signature:

Dr.B.Swapna Rani
BoS Chairman
Signature:

Ms.Amit Gangopadhya
Internal Subject Expert-II
Signature:

Dr.Dhiraj sunehra
University Nominee
Signature:

Dr. M. Chandrasekar
Industry Expert
Signature:

Dr. M.Mahesh
Internal Subject Expert-I
Signature:

Mrs. Ch. Divya
Asst, Prof., BoS Member
Signature:

AGENDA

1. Approval of Academic Regulations R20
2. Approval of Course Structure for I,II,III,IV years of R20
3. Approval of Detailed Syllabus for I & II year
4. Approval of Continuous Internal Evaluation and External Evaluation
5. Identification of Value Added Courses
6. Substitute subjects for Readmitted students
7. Action taken report and Approval of DAC minutes
8. Identification of Workshops and guest lectures
9. Approval of teaching methods
10. Approval of tools used in teaching and learning process to assess course outcomes
11. Approval of Mandatory Courses
12. Other Points if any

Agenda 1: Approval of Academic Regulations R20

Resolution:

The Board reviewed and discussed the Academic Regulations R20 in detail. After careful examination, the Board unanimously **approved the Academic Regulations R20** for implementation in all relevant programs, effective from the academic year 2020–21.

Agenda 2: Approval of Course Structure for I,II,III,IV years of R20

Resolution:

The Board carefully reviewed the proposed course structure for I, II, III, and IV years of the R20 regulations. After thorough discussion and consideration of academic requirements and industry relevance, the Board unanimously approved the Course Structure for all four years of B.Tech programs under R20 regulations, effective from the academic year 2020–21

Revision of Course Structure / Reason for change in Course structure:

1. Alignment with AICTE Model Curriculum & NEP 2020

   ➤ R20 reduces overloaded credits and emphasizes flexibility, electives, and skill-based courses.
   ➤ Promotes holistic education with physical (Sports, Yoga), cultural, and social responsibility components.

2. Industry & Employability Focus

   ➤ Introduction of MOOCs, internships, technical events, and certification-oriented courses ensures students are industry-ready.
   ➤ Professional electives are to be choosen based on Verticals for the New electives in VLSI, Image Processing, Embedded Systems, Communication Streams that match current industry demands

3.   Stronger Foundation in Electronics and Communications Core
4.   Project-Based Learning (PBL) Encourages innovation, teamwork, entrepreneurship, and research aptitude early.
5.   Focus on Life Skills & Holistic Development

   ➢ Mandatory courses like Sports, Yoga, Cultural Activity, Social Message Videos build confidence, communication, ethics, and social awareness.

6.   Flexibility & Choice-Based Learning

   ➢ Open Electives offered from Sem V onwards in R20 (earlier only from Sem VI in R18).
   ➢ Students can explore interdisciplinary domains earlier.

7.   Global Competitiveness

   ➢ Competitive Exam preparation (GATE, GRE, TOEFL, etc.) embedded encourages the bright students..
   ➢ Encourages students to pursue higher studies, global certifications, and research careers.

Syllabus changes from R18 to R20:

Change in Titles and Revision of Syllabus :

R18 Course Title	R20 Course Title	Change/Remark
Analog Electronic Circuit Analysis	Electronic Circuit Analysis	Title updated to specify language
Analog Electronic Circuit Analysis Lab	Electronic Circuit Design and Electronic Circuit Simulation LAB	Implementing in Hardware and Software Tools
Only Five Professional Electives	Six Professional Electives	Based on Verticals
Only three Open Electives	Six open Electives	To meet Industry
--	Comprehensive Viva isincluded	Newly introduced
--	Technicalseminars	Newly introduced

Agenda 3 : Approval of Detailed Syllabus for I & II year
Resolution:
The Board examined the proposed detailed syllabus for I and II year courses under the R20 regulations. After a comprehensive review and discussion, the Board unanimously approved the Detailed Syllabus for all courses of I and II year B.Tech programs under R20 regulations, to be implemented from the academic year 2020–21.

Discussion: BOS chairman, presented the detailed syllabus of each first and second year subject and BOS members given few suggestions to update the syllabus.

1. Suggested to change the regulation name RR18 to R20.
2. Suggested to include UJT Characteristics and working function in the EDC subject for ECE, CSE, DS, IT, AI & ML.
3. Suggested to merge 2nd & 3rd Experiments as single Experiments (Zener Diode) in EDC Lab.
4. Suggested to include the text book "Morris Mano" in Basic Electronics subject for Mechanical department.
5. Suggested to include Theory Subject for Fundamental of Electronics Lab for Civil department.
6. Recommended to change the title of Analog Electronics Circuit Analysis subject as Electronics Circuits Analysis.
7. Proposed to change the title of Analog Electronics Analysis lab as Analog Electronics Simulation Lab.
8. Proposed to shuffle David Bell text book to reference and shuffle Jacob Milliman Taub reference to text book.
9. Recommended to include the text book "T.G.Thomas and S.Chandra Sekhar Tata McGraw Hill publications" for Analog Communications.
10. Suggested to follow the CO's in all the laboratory courses from minimum four to maximum six with uniformity in framing of CO's.
11. Recommended to change the name of Experiment in AC lab for Study of Spectrum Analysis and Measurement of Frequency as Spectrum of AM and FM signals.

Agenda 4 : Approval of Continuous Internal Evaluation and External Evaluation

Resolution:

The Board reviewed the proposed framework for Continuous Internal Evaluation (CIE) and End/External Evaluation (EE) under the R20 regulations. After careful consideration of assessment methods, weightages, and academic standards, the Board unanimously approved the Continuous Internal Evaluation and External Evaluation schemes for all B.Tech programs under R20 regulations, effective from the academic year 2020–21.

Agenda 5: Identification of Value-Added Courses (VACs)

Resolution:

The BOS Chairman presented and discussed the proposed titles of Value-Added Courses (VACs) to enhance students' skills beyond the prescribed curriculum. These VACs aim to bridge the gap between academic learning and industry requirements, improve employability, and provide students with hands-on exposure to emerging technologies and interdisciplinary knowledge.

After deliberations, the following **Value-Added Courses** were identified for implementation:

➢ PCB Design
➢ Critical Thinking

Agenda 6: Substitute subjects for Readmitted students

Resolution:

No Readmitted Student.

Agenda 7: Action Taken Report and Approval of DAC Minutes
Resolution:
The Board reviewed the Action Taken Report (ATR) on the decisions made in previous meetings and noted satisfactory progress on all points. The Board also examined and discussed the minutes of the Department Advisory Committee (DAC) meetings. After careful review, the Board approved the Action Taken Report and ratified the minutes of the DAC meetings, appreciating the efforts made towards continuous improvement of academic and administrative processes.

Agenda 8: Identification of Workshops and guest lectures
Resolution:
The BOS approved the organization of department-level workshops and guest lectures each semester. The department shall prepare a schedule of topics and resource persons in consultation with industry and academic experts.

Agenda 9: Approval of teaching methods
Resolution:
The BOS approved the proposed teaching methods and recommended their systematic implementation to ensure quality education, better student engagement, and improved Program Outcome (PO) attainment.

- **ICT-enabled teaching tools** (smart classrooms, virtual labs, simulation tools).
- **Active learning strategies** (flipped classrooms, group discussions, peer learning).
- **Industry-oriented teaching approaches** (case studies, mini-projects, real-time problem-solving).
- **Assessment innovations** (formative assessments, quizzes, project-based evaluations).

The committee also highlighted the importance of continuous improvement in pedagogy through faculty development programs.

Agenda 10: Approval of tools used in teaching and learning process to assess course outcomes
Resolution:
The BOS **approved the proposed tools** for assessing Course Outcomes. Faculty members are encouraged to integrate these tools into their teaching plans and submit outcome attainment reports for each course at the end of every semester.

Agenda 11: Approval of Mandatory Courses
Resolution:
The Board reviewed the list of **mandatory courses** proposed under the R20 regulations to ensure students' holistic development and compliance with regulatory requirements. After thorough discussion, the Board approved the inclusion and implementation of the identified mandatory courses, effective from the academic year 2020–21.

Agenda 12: Other Points if any
Resolution:
The Board invited members to share additional points for discussion. No further points were raised, and the agenda was concluded with appreciation for the contributions of all members. The following members attended the meeting

Annexure: Course Structure, Course Components, TKR Academc Regulations.

The following members attended the meeting.

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1	Dr. D.Nageshwar Rao- Professor	HoD,ECE,
2	Dr.B.swapna Rani	Chairman, BOS
3	Dr. Dhiraj Sunehra - Professor	JNTUJ Nominee
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6	Dr Amit Gangopadhayay	Internal Subject Expert
7	DrM.Mahesh	Internal Subject Expert
8	Mrs. Ch. Divya	Member

HOD
Department of ECE

Copy To:
1. All the members of BOS
2. Principal
3. Dean (Academics)