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)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

MINUTES OF BOS MEETING

TKRCET/ECE/BOS/MM-1/2022-23   Dt: 15-10-2022

The Executive members of the Board of Studies, Department of ECE have met on 15-10-2022 at 10:00 A.M.

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. K.Sukanya	Internal Subject Expert
7	Dr. M.Mahesh	Internal Subject Expert
8	Mrs. K. Shalini	Member

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

Dr.CVenkata Narasimhulu
External Subject Expert
Signature:

Dr.B.Swapna Rani
BoS Chairman
Signature:

Dr.K.Sukanya
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. K. Shalini
Asst, Prof., BoS Member
Signature:

AGENDA

1) Approval of Course Structure / Reason for change in Course structure
2) Approval of I, II of R22 Syllabus
3) Approval of Mandatory courses
4) Syllabus changes from R20 to R22.
5) Approval of Continuous Internal Evaluation and External Evaluation
6) Ratification of VISON, MISSION, PEOs, PSOs
7) Substituted subjects for Readmitted students
8) Identification of Value Added Courses
9) Action Taken Report and Approval of DAB and PAC Minutes
10) Identification of Workshops and guest lectures
11) Approval of teaching methods
12) Approval of tools used in teaching and learning process to assess course outcomes
13) Other points if any

Agenda 1: Revision of Course Structure / Reason for change in Course structure:
Resolution:

The BOS Chairman highlighted the necessity for revising the course structure, explaining that the updates are aimed at aligning the curriculum with current industry trends, emerging technologies, and academic advancements. The revision also seeks to enhance student employability, ensure relevance of course content, and incorporate feedback from stakeholders to improve overall learning outcomes.

Agenda 2: Approval of R22 course structure
Resolution:
The Board reviewed the **proposed R22 course structure** for all B.Tech programs, considering the updated curriculum, academic requirements, and industry relevance. After detailed discussion and examination, the Board unanimously **approved the proposed R22 course structure** for implementation from the upcoming academic year.

Agenda 3: Approval of Mandatory Course
Resolution:
The Board reviewed the proposal to include "Constitution of India" as a mandatory course under the R22 regulations. After discussion on its relevance for fostering civic awareness, ethical understanding, and holistic development, the Board unanimously approved the inclusion and implementation of "Constitution of India" as a mandatory course for 4th sem B.Tech students, effective from the forthcoming academic year.

Agenda 4: Syllabus changes from R20 to R22:
Resolution:
The Board reviewed the proposed syllabus changes from R20 to R22 regulations

Key Changes from R20 to R22 Regulations

- Introduced Engineering Workshop in I Semester.
- Introduced Computer Aided Engineering Graphics in II Semester.
- Introduced Applied Python Programming Lab in II Semester.
- Combined Analog Communications & Digital Communications to Analog & Digital Communications in IV Semester.
- Introduced Real-Time based Projects in IV Semester.
- Introduced Advanced Communications Lab in VI Semester.
- Introduced Mini Projects as Professional Core in VI Semester.
- Introduced Technical Seminars in VIII Semester.

Agenda 5: Internal and external Evaluation - Distribution and Weightage of Marks

Resolution:

The Board unanimously **approved the evaluation scheme under R22:**

Agenda 6: Ratification of VISON, MISSION, PEOs, PSOs

Resolution:

The Board unanimously **ratified the Vision, Mission, PEOs, and PSOs** of the department. The Board recommended that the statements guide student learning, departmental growth, and continuous improvement of the program. These will be formally adopted and implemented in departmental activities, curriculum planning, and student evaluation.

Agenda 7 : Substituted subjects for Readmitted students

Resolution:

The Board reviewed the academic records of students readmitted from R18 and R20 regulations into R22. No readmitted students.

Agenda 8: Identification of Value Added Courses

The BOS deliberated on the identification of **Value-Added Courses (VACs)** to enhance students' **technical skills, practical knowledge, and industry-readiness**. The courses aim to bridge the gap between academic learning and real-world applications, improve employability, and provide hands-on experience in emerging technologies.

The following **Value Added Courses** were identified:

1. Python for Data Science
2. IoT using Arduino
3. Raspberry PI and its Peripherals
4. Fundamentals of MIMO Wireless

Agenda 9: Action Taken Report and Approval of DAB and PAC Minutes

Resolution:

The Board reviewed the Action Taken Report (ATR) on the decisions of previous meetings and noted satisfactory progress on all points. The Board also examined the minutes of the Department Advisory Board (DAB) and Program Assessment Committee (PAC) meetings. After thorough discussion, the Board unanimously approved the Action Taken Report and ratified the minutes of the DAB and PAC meetings, acknowledging the efforts made towards continuous improvement in academic processes, curriculum implementation, and quality assurance

Agenda 10: 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 11: 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 12: 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.
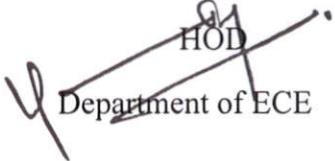
Agenda 13: Other Points (if any)

Resolution:
The Board invited suggestions from members under "Other Points." After discussion, it was resolved that the suggestions and recommendations made during the meeting shall be noted for consideration and suitable action by the Department/Colleges

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

The following members attended the meeting

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
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6	Dr K.Sukanya	Internal Subject Expert
7	Dr. M.Mahesh	Internal Subject Expert
8	Mrs. K. Shalini	Member

HOD
Department of ECE

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

R-20 I

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NAAC

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

MINUTES OF BOS MEETING

TKRCET/ECE/BOS/MM-2/2021-22   Dt: 02-02-2022

The Executive members of the Board of Studies, Department of ECE have met on

02-02-2022.

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
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Industry Expert
Signature:

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Internal Subject Expert-I
Signature:

Mrs. K. Shalini
Asst, Prof., BoS Member
Signature:

AGENDA

1. Revision of Course Structure / Reason for change in Course structure
2. Approval of Detailed Syllabus for III & IV year
3. Identification of Value Added Courses
4. Substitute subjects for Readmitted students
5. Action taken report and Approval of DAC minutes
6. Identification of Workshops and guest lecture
7. Approval of tools used in teaching and learning process to assess course outcomes
8. Other Points if any

Agenda 1: Revision of Course Structure / Reason for change in Course structure

Resolution:

The Board reviewed and discussed the proposed course structure for III and IV years of the B.Tech programs under the R20 regulations. After thorough examination and consideration of academic and industry requirements, the Board unanimously approved the Course Structure for III and IV years of R20 regulations, effective from the respective academic years of implementation.

Agenda 2 : Approval of Detailed Syllabus for III & IV year –R20

Resolution:

The Board examined the detailed syllabus for III and IV year B.Tech programs under R20 regulations. After comprehensive review and discussion, the Board unanimously approved the detailed syllabus for all courses in III and IV years, to be implemented from the respective academic years under R20 regulations.

1. BOS chairman discussed the syllabi of all the academic subjects for V, VI, VII, VIII semesters.
2. The committee suggested to reduce 8086 topics to one (on two units and increase the topics for ARM). The committee suggested preparing the course outcomes according to blooms taxonomy.
3. Transmission lines is made as pre-requisites for optical fibre communications by the committee.

4. ARM 9 (or) ARM 11 processor have to be included in advanced microcontroller subjects as suggested by committee.
5. Discussed about the Substitute subjects that examination need to be written by transfer candidates.
6. Committee discussed to introduce Video Processing in Image Processing Subject. The committee suggested to include pre-requisites for DSP lab.

Agenda 3: Identification of Value Added Courses

Resolution: The BOS discussed the importance of introducing Value-Added Courses (VACs) to enhance students' technical expertise, keep them updated with emerging technologies, and improve their employability skills. These courses are designed to provide hands-on learning experiences and exposure to industry tools beyond the prescribed curriculum.

The following **Value Added Courses** were identified for implementation:

5G Emerging Technology
ML based Python

Agenda 4: Substitute subjects for Readmitted students

Resolution :

The Board reviewed the academic records of students readmitted from R17 and R18 regulations into the R20 curriculum. After detailed mapping of completed subjects with the R20 structure, the Board approved the list of substitute subjects for these students to ensure curriculum equivalence and smooth academic progression. It was resolved that students without curriculum changes will continue without substitutes, while those with curriculum variations will follow the approved substitute subject list.

Discussion:

The BOS reviewed the case of the following student who has been readmitted from **Regulation R18 to R20**.

S.No.	HT No.	Year	Academic Year	Regulation (From–To)	Batch	Substitute Subject
1	20K95A0402	IV year	2021–22	R18 → R20	2020 Batch	DLD, ECD LAB,ECS LAB,BEFA,Python Programming, Fundamentals of Management,TSSN

Agenda 5: Action taken report and Approval of DAB and PAC minutes

Resolution:

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

Agenda 6: Identification of Workshops and guest lectures

Resolution: The BOS members discussed the need to organize **workshops and guest lectures** to enhance students' practical knowledge, industry exposure, and professional skills. Emphasis was placed on inviting **industry experts, academicians, and researchers** to provide insights into current trends, emerging technologies, and real-world applications.

Suggestions included sessions on:

- Emerging Technologies
- Skill Development
- Research and Innovation

Agenda 7: 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.

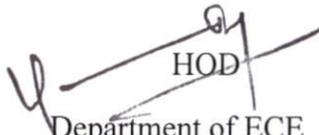**Agenda 8: Other Points if any**

Resolution:

The Board invited members to raise any additional points for discussion. No further points were brought forward, and the agenda was concluded with appreciation for the active participation and contributions of all members.

Annexure: Course Structure, Course Components, TKR Academic Regulations

The following members attended the meeting

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