

BOARD OF STUDIES (UG)**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

| S. No | Name | Designation & Affiliation | Role |
|-------|-----------------------------|--|---|
| 1. | Dr. Moorthy Veerasamy | Professor & HOD Dept. of EEE, KITS, Guntur, AP. | Chairman |
| 2. | Dr. Ch Sai Babu | Professor of EEE Dept., UCE Director Academic Audit, JNTUK, Kakinada, AP.-533003 | Subject Expert JNTUK University Nominee |
| 3. | Dr. G. V.Siva Krishna Rao | Professor Dept. of EEE, College of Engineering (A) Andhra University Visakhapatnam, AP-530003. | Subject Expert-I Nominated by the Academic Council |
| 4 | Dr. Sankar Peddapati | Assist. Professor Dept. of Electrical Engineering, National Institute of Technology Andhra Pradesh, AP. | Subject Expert-II Nominated by the Academic Council |
| 5 | Mr. Madala Venkateswara Rao | Managing Director, SVR Electrical Pvt. Ltd., Auto Nagar Guntur, AP | Industrial Expert Nominated by the Academic Council |
| 6 | Er.A. Kumar Babu | Assistant Loco Pilot, Nandyal Depot, Guntur Division, South Central Railways | Alumni Member Nominated by the Academic Council |
| 7 | Mr. Y. Rajesh Babu | Assist. Professor Dept. of EEE, KITS, Guntur, AP. | Internal Member |
| 8 | Mrs.R.Punyavathi | Assist. Professor Dept. of EEE, KITS, Guntur, AP. | Internal Member |
| 9 | Mr.J.Anand | Assist. Professor Dept. of EEE, KITS, Guntur, AP. | Internal Member |
| 10 | Mr.S.Venkatesh | Assist. Professor Dept. of EEE, KITS, Guntur, AP. | Internal Member |
| 11 | Mrs.K.Vasanthi | Assist. Professor Dept. of EEE, KITS, Guntur, AP. | Internal Member |
| 12 | Mr.M.Raja Nayak | Assist. Professor Dept. of EEE, KITS, Guntur, AP. | Internal Member |

**PRINCIPAL****PRINCIPAL****KKR & KSR Institute of Technology & Science
Vinjanampadu, GUNTUR-17**

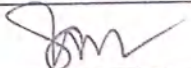

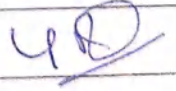
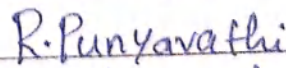
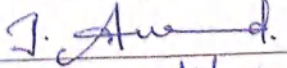
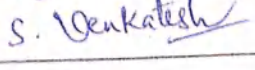
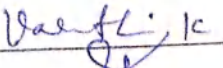
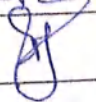
BOARD OF STUDIES MEETING

Department : Electrical and Electronics Engineering
Academic Year : 2022-23 Meeting No. : 02
Date : 19-07-2022 Time : 11.00AM
Venue : ONLINE (ZOOM)

AGENDA:

1. Introduction of Board of Studies
2. Review on 1st BOS Meeting Minutes
3. Review on Course Structure from 1st Semester to 8th Semester
4. Finalization of syllabus for 3rd and 4th year courses
5. Finalization of syllabus for open elective courses offered by EEE
6. Selection of advanced skill orient courses and soft skill course
7. Selection of mandatory course
8. Summer internships regarding
9. Industry, Institute Interaction-Suggestions for excellence
10. Any other matter with the permission of the chairperson

MEMBERS ATTENDED:

| S. No | Name | Role | Signature |
|-------|-----------------------------|---------------------------|---|
| 1. | Dr. Moorthy Veerasamy | Chairman |  |
| 2. | Dr. Ch Sai Babu | Subject Expert from JNTUK |  |
| 3. | Dr. G. V.Siva Krishna Rao | Subject Expert-I | |
| 4. | Dr. Sankar Peddapati | Subject Expert-II | |
| 5. | Mr. Madala Venkateswara Rao | Industrial Expert | |
| 6. | Er.A. Kumar Babu | Alumni Member | |
| 7. | Mr. Y. Rajesh Babu | Internal Member |  |
| 8. | Mrs.R. Punyavathi | Internal Member |  |
| 9. | Mr.J.Anand | Internal Member |  |
| 10. | Mr.S. Venkatesh | Internal Member |  |
| 11. | Mrs.K.Vasanthi | Internal Member |  |
| 12. | Mr.M.Raja Nayak | Internal Member |  |

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Minutes of 2nd Board of Studies Meeting

The Chairman of BOS, Department of Electrical and Electronics Engineering (EEE), has welcomed all members and briefed the meeting agenda that has been deliberately considered for discussion.

- Agenda-1** : Introduction of Board of Studies
- Discussion** : The Chairman has introduced new members (internal).
- Agenda-2** : Review on 1st BOS Meeting Minutes
- Discussion** : The Chairman has highlighted the resolution implementation that arrived in the 1st BOS meeting.
- Agenda-3** : Review on course structure from 1st semester to 8th semester
- Discussion** : The Chairman has reviewed the course structure from the 1st semester to the 8th semester and ensured the sequence of the required prerequisite courses for the professions to tackle the most demanding challenges and advance global society's well-being. Also, professional elective streams that cover depth and breadth to broaden the student's knowledge have been verified.
- Agenda-4** : Finalization of the syllabus for 3rd and 4th-year courses
- Resolution** : The BOS has deeply analyzed the drafted curriculum and syllabus for R20 regulation. The course content of all subjects from semester V to semester VIII has been appropriately reviewed. The semester-wise details are:
- V Semester (III/I):**

Power Generation and Transmission Systems: It consists of five units, combinedly derived from Power System-I & II of the R19 JNTUK curriculum.

Unit-I: Conventional Power Generation. It covers qualitatively Thermal power stations, Hydroelectric plants, Gas Power Plants, and Nuclear Power Plants.

Unit-II: Economic Aspects of Power Generation and Tarif. It deals with various terminology and factors governing economic aspects and different methods of tariff calculation.

Unit-III: Transmission Line Parameters. It includes transmission line conductors, their parameter calculation, and associated values.

Unit-IV: Performance Analysis of Transmission Lines and Various Factors

governing. It customizes the computation of short and medium transmission lines performance indices and qualitative treatment of long transmission lines. At last, various factors and effects that govern the transmission lines are included.

Unit-V: Mechanical Design of Transmission line and Underground Cables. It is customized such that the detailed calculation of physical parameters of the mechanical design of transmission system and qualitative treatment of underground cables.

Electrical and Electronics Measurements: It comprises five units in which four units describe electrical measurement, and the last unit deals with electronics measurement. The syllabus contents were reviewed and approved.

Control System and Simulation Laboratory: The experiments are grouped as per the units' order. It is reviewed hardware and simulation experiments (using any software tool) and approved.

Elect. and Electro. Measurements Laboratory: The experiments are grouped as per the units' order. The experiments are reviewed and approved.

Professional Elective Course-I: The following track system were introduced in this regulation.

Track 1: Electrical Power System:

Track 2: Power Electronics & Drives

Track 3: Control and Instrumentation

Track 4: Electronics and Communication Engineering

Track 5: Computer Science and Engineering

The approved courses for tracks 1 - 3 are Industrial Electrical Systems and Energy Utilization, Special Electrical Machines, and Advanced Control System. The syllabus contents are reviewed and approved.

Open Elective Course-I: The BOS facilitates students to select the course offered by the other departments from time to time.

Additional Laboratory: The BOS decided to include an add-on laboratory, "IoT Applications of Electrical Engineering." It is a non-credit course, but the mark memo indicates a satisfactory indicator. The list of experiments was reviewed and approved.

VI Semester (III/II):

Power System Analysis and Protection: It consists of five units combined from Power System analysis and Switchgear Protection of the R19 JNTUK curriculum.

Unit-I: Per Unit System and Power Flow studies:

Unit- II: Symmetrical and Unsymmetrical Fault Analysis

Unit-III: Power System Stability Analysis

Unit-IV: Circuit Breakers and Concepts of Electromagnetic Relays

Unit V: Various Schemes of Protection

The syllabus contents were reviewed and approved.

Power Electronics: The syllabus contents were reviewed and approved

Power Systems and Programming Laboratory: The list of experiments are grouped as per the unit's order. The list of experiments is reviewed and approved. Additionally, an experiment from state estimation is decided to introduce, required theoretical background will be covered during laboratory sessions.

Power Electronics Laboratory: The list of experiments is grouped in correlation with the unit's order, and contents are reviewed and approved.

Professional Elective Course-II: The approved courses for tracks 1 - 3 are Electrical Distribution System, Line Commutated and Active Rectifiers, and Instrumentation Engineering. The syllabus contents are reviewed and approved.

Open Elective Course-II: The BOS facilitates students to select the course offered by the other departments from time to time.

Engineering Project in Community Services (EPICS): The BOS decided to include a community service project according to the APSCHE guidelines. It is a non-credit course, but the mark memo indicates a satisfactory indicator. Registration and evaluation procedures will be referred to academic regulation.

VII Semester (IV/I):

Professional Elective Course-III: The approved courses for tracks 1 - 3 are Power System Operation and Control, DC Drives, and Bio-Medical Engineering, respectively. The syllabus contents are reviewed and approved.

Professional Elective Course-IV: The approved courses for tracks 1 - 3 are Solar and Wind Energy Systems, AC Drives, and Digital Control System. The syllabus contents are reviewed and approved.

Professional Elective Course-V: The approved courses for tracks 1 - 3 are FACTS: Flexible Alternating Current Transmission Systems, Electrical and Hybrid Vehicles, and Industrial Automation, respectively. The syllabus contents are reviewed and approved.

Open Elective Course-III and IV: The BOS allows students to select the course offered by the other departments.

Humanities and Social Science Elective: The BOS facilitates students to select the course offered by the S & H departments from time to time.

VIII Semester (IV/II):

Project Work/ Internship in Industry: The BOS allows students to do in-house or industry projects through the internship. Registration and evaluation procedures will be referred to academic regulation.

Agenda-5 : Finalization of the syllabus for open elective courses offered by EEE
Resolution The BOS decided to offer the following open elective courses in any semester to other department students.

- Electrical Safety Management
- Non-conventional Energy sources
- Electrical Vehicle
- Electrical Energy Conservation and Auditing

The syllabus contents are reviewed and approved.

Agenda-6 : Selection of advanced skill orient courses and soft skill courses
Resolution The BOS decided on the following advanced skill-oriented courses as practical components. Registration, conduction, and evaluation procedures will be referred to academic regulation.

- JAVA Programming
- Python and its applications

The BOS facilitates a soft skill course for students per the College academic committee guidelines.

Agenda-7 : Selection of mandatory course
Resolution The BOS selected the following mandatory courses

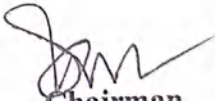
- Intellectual Property Rights and Patents at III-I semester level
- Professional Ethics and Human Values at III-II semester level

- Agenda-8** : Summer internships regarding
Resolution Due to the Covid-19 pandemic situation, the semester was delayed, and the BOS decided to offer virtual internships.
- Agenda-9** : Industry, Institute Interaction-Suggestions for excellence
Resolution The BOS decided to increase a more significant number of Industry –institute interactions through active MOUs
- Agenda-10** : Any other matter with the permission of the chairperson
Resolution
- The BOS found that courses for the Honors/Minor Programme are not facilitated in the drafted curriculum structure. Therefore, the Honors/Minor Programme is included in the approved course structure according to the APSICHE's guidelines. At the same time, a general minor track system is preferred rather than the specialized minor track. The pooled courses for the Honors/minor Programme are reviewed and approved.
 - The BOS decided to increase the intra-department projects
 - The BOS suggested the students do mini/ major projects using Drones and e-vehicle technologies.

The meeting ended with a vote of thanks.

Place: Vinjanampadu

Date:


Chairman
CHAIRMAN
Board of Studies
Department of EEE
KKR & KSR Institute of Technology & Sciences
Vinjanampadu, Guntur-522 017.