



# PRAGATI ENGINEERING COLLEGE

(Autonomous)

(Approved by AICTE, Permanently Affiliated to JNTUK Kakinada)(Recognized by UGC Under Sections 2(f) and 12 (b) of UGC Act, 1956) ADB Road, Surampalem – 533 437, Near Peddapuram, E.G. Dist., A.P. Ph: 08852-252233, 252234, website: www.pragati.ac.in

## DEPARTMENT OF BASIC SCIENCES & HUMANITIES

19-9-2023

### MINUTES OF 4<sup>th</sup> BOARD OF STUDIES PHYSICS R23 (BOS) MEETING

#### **Proceedings:**

- The meeting began at 3:00PM in Online Mode. The Chairman of the Board Mr P Raj Shekhar Phaneendra welcomed all the members for the meeting.
- With respect to point 1 of agenda, BoS Chairman presented a brief on common BoS guidelines, Course Structure and Evaluation procedure .
- With respect to point 2 of agenda, BoS Chairman discussed the proposed course structure ( I-I & I-II) with respect to Engineering Physics Theory & Laboratory for all branches.
- With respect to point 3 of agenda, the Proposed Syllabus of Engineering Physics (theory and laboratory) was discussed with the members with following proposals

#### **Engineering Physics**

- To follow the Affiliating University Syllabus.
- In order to introduce additional topic of Band Theory in Unit V discussion of replacing topics keeping in view the no of hours for syllabus completion. Members suggested to replace Polarization topics with introducing above as its relevant to Unit V.
- Addition of web resources in syllabus.

#### **Engineering Physics Laboratory**

- To conduct any 10 experiments out of 17 proposed experiments out of which 2 experiments in virtual laboratory mode.
- With respect to point 4 of agenda, Model question Papers of internal and external (Theory and Laboratory) examination
- With respect to point 5 of agenda, discussions were about introduction of new courses.
- With respect to point 6 of agenda, Members discussed the Course Objectives, Course Outcomes & CO PO Mappings with respect to units proposed in syllabus.
- With respect to point 7 of agenda, Members discussed Text Books and Reference Books and

it was proposed to introduce Engineering Physics by P K Pallanisamy & Engineering Physics by Tirupati Naidu and Veeranjeyalu, VGS Publication as Text books in syllabus.

- With respect to point 8 of agenda, External Member proposed to swap unit II & III in syllabus and was discussion
- With respect to point 9 of agenda under any other item, effective measures to improve quality of lecture delivery were discussed.

### **Resolutions:**

The following resolutions have been made in the meeting

- With respect to point 1 of agenda, members gave consent to proceed into the details of syllabus for discussion.
- With respect to point 1 of agenda, BoS members discussed the proposed course structure ( I-I & I-II) with respect to Engineering Physics Theory & Laboratory for all branches and approved the same.
- With respect to point 2 of agenda, the proposed model papers for internal and external examination of the theory courses and evaluation procedure for laboratory courses were discussed and ratified.
- With respect to point 3 of agenda, the members of the BOS Physics finalized

#### **Engineering Physics**

- To follow the Affiliating University Syllabus.
- Addition of Topics related Band Theory of Solids in Unit V along with Semiconductors replacing Polarization in Unit 1.
- Members suggested including NPTEL weblinks as resources in syllabus.

#### **Engineering Physics Laboratory**

- To follow the Affiliating University Syllabus.
- To conduct any 10 experiments out of 17 experiments out of which 2 experiments in virtual laboratory mode. In conduction of Internal and External Exam only 8 Physical mode experiments will be considered for evaluation.
- Virtual lab experiments evaluation to be considered in Record Marks.
- Lab exam duration for both Internal as well as External is 2 hours.
- With respect to point 4 of agenda, the members of the BOS ratified Model question Papers of internal and external (Theory and Laboratory) and with suggestion to go with **20 Objective Question** pattern in MID Exams
- With respect to point 5 of agenda No New Courses were proposed for I Year due to common course structure by affiliating university. .

- With respect to point 6 of agenda, the Course Objectives, Course Outcomes & CO PO Mappings and ratified with minor suggestions.
- With respect to point 7 of agenda, the text books, reference books and web resources for all the courses were finalized.
  - **Text Books:** To include Engineering Physics by P K Pallanisamy & Engineering Physics by Tirupati Naidu and Veeranjanyalu, VGS Publication as Text books.
  - **Reference Books:** To include “Engineering Physics” by M.R.Srinivasan, New Age international publishers, “Solid State Physics” by SO Pilai., - New age International Publishers
- With respect to point 8 of agenda, members resolved to not to go with swapping of units.
- With respect to point 9 of agenda, under any other item members suggested to use latest available teaching methods, online resources, to facilitate active learning by the students.

*Committee has authorized Chairman, BoS to incorporate Changes suggested in Syllabus books.*

The meeting ended with vote of thanks.

Chairman BOS