

V.R.SIDDHARTHA ENGINEERING COLLEGE::VIJAYAWADA

AUTONOMOUS

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

VRSEC/DAB/NBA F.No : 38/2022

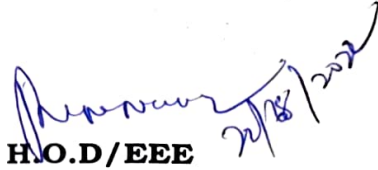
22-08-2022

CIRCULAR

All the members of the Department Advisory Board are requested to attend the 8th Department Advisory Board meeting being schedule on 23-08-2022 at 10.00 A.M through Google Meet.

Agenda for the meeting:

1. Action taken report on DAB meeting held on 18-07-2021
2. Ratification of PAC minutes
3. V and VI-Semester syllabus of VR20
4. Attainments of POs for the Batch 2017-21 & 2018-22
5. Details of academic achievements
 - i. Result Analysis
 - ii. Placement details
 - iii. Student achievements
 - iv. Extra Curricular & Co-Curricular activities
 - v. Faculty achievements
6. Any other point with the permission of the chair


H.O.D/EEE

Dr.P.V.R.L.NARASIMHAM

Professor & Head

Dept.of Electrical & Electronics Engineering
V.R.Siddhartha Engineering College
VIJAYAWADA-520 007.

Minutes of the Eighth Department Advisory Board (DAB) meeting of Electrical and Electronics Engineering Department, Velagapudi Ramakrishna Siddhartha Engineering College (Autonomous), Vijayawada – 520007 held at 10.00A.M on 23-08-2022 through online.

The following members have attended the meeting through Googlemeet.

- ❖ **Dr. P. V. R. L. Narasimham**, HOD-EEE department and Chairman-DAB, chaired the meeting and extended a warm welcome to all the members of DAB and faculty of EEE department.
- ❖ **Dr. P. Roshan Kumar** Subject expert in Power Train Microfuzzy, Germany, representative from Industry attended as member of Department Advisory Board.
- ❖ **Er. M. R. V. Rajesh** Senior Manager (ELECTRICAL) RAIN CII Carbon Company, Visakhapatnam, representative from Industry attended as member of Department Advisory Board.
- ❖ **Er. G. Raja Babu** Chief Engineer APTRANSCO representative from Electricity Board attended as member of Department Advisory Board.
- ❖ **Er. K. Balakrishna**, Executive Manager (R&D) M/S Efftronics Pvt Ltd., Vijayawada, representative from Industry attended as member of Department Advisory Board.
- ❖ **Dr. A. Rama Devi**, Professor in EEE department and UG programme coordinator attended the meeting.
- ❖ **Dr. B. Srinivasa Rao**, Professor in EEE department and PG programme coordinator attended the meeting
- ❖ **Er. R. Sreeram**, CEO, Eruvaka Technologies Pvt. Ltd, Vijayawada, representative from Industry attended as member of Department Advisory Board was absent for the meeting.

The chairman of Department Advisory Board informed to all the DAB members the sudden demise of Dr.G.V.Maruteeswar due to covid

Item 1: Action taken on suggestions given by DAB members in previous meeting held on 18/07/2021.

- **Suggestion:** To include Power amplifiers and Instrument amplifiers in place of 741 op-amp.

Action Taken: Suggestion is taken care.

- **Suggestion:** To offer Core courses in M.Tech as Honors courses.

Action Taken: Implemented the suggestion.

- **Suggestion:** Following are various suggestions with reference to various courses

- **1. Electronics Circuits(20EE3302)**

a) To focus more on MOSFET construction, principle of operation, derivation of d_c , I_d/V_{gs} Characteristics rather than JFET.

b) Recommended to consider high voltage mod devices like LDMOS and DeMOS for high voltage applications rather than JFET.

C) To consider common gate configuration of MOSFET topology for its wide application as current buffer and cascade for boosting low frequencies.

Digital Electronics (20EE3305): To introduce FPGA and its architecture
Network Analysis Lab-I (20ES3151): To use free tool LTSPICE for simulation exercises.

Operational Amplifiers and Linear Integrated Circuits (20EE4304): To introduce Trans impedance amplifier in application section of Unit-1.

20EE4353 –Linear Integrated Circuits Lab

Recommended to add inverting and non inverting gain experiments to interface with transducers in Experiment-2.

For Realization of instrumentation amplifier using op-amplifier suggested to introduce both three op-amp instrumentation amplifier and two op-amp topologies.

20EE4352-Control Systems & Measurements Lab: Recommended to migrate to Octave instead of MATLAB for simulation exercises.

20EE3351& 20EE3352- Electrical Machines-I & II Laboratory .

- ❖ To include magnetic core balance test for 3 phase transformers.
- ❖ To include winding polarity test for 3 phase Induction motor.
- ❖ To include the fundamental principles and mathematical relations of sensors and data acquisition which are basic building blocks of IOT applications.
- ❖ To delete the devices like 555 timers etc. from the course as all timing applications have become digital.
- ❖ To include opto electronic devices like opto couplers, opto TRIACs etc which are widely used in numerous applications.
- ❖ To include low drop regulators-LDOs.
- ❖ To include Op Amp applications like measuring, charging and discharging currents using unipolar op Amp with inverting and non inverting amplifier etc.
- ❖ To incorporate EV technology in the curriculum

➤ **Suggestions with respect to Minors and Honors are as follows**

- ❖ To introduce version control system like GIT, GITHUB and GITLAB Control systems simulation in Python.
- ❖ In track-3 rename course title embedded system design as embedded control design.
- ❖ In track-4 rename course title Hybrid Electric Vehicles as xEV architecture.
- ❖ In track-4 replace the course Neural Networks, Fuzzy and Genetic Algorithm with introduction to chargers.

Action Taken: The above suggestions suggested by DAB members have been presented in the course coordinators meeting by the Head of the Department and will be forwarded to BOS meeting in the next phase.

Item 2: Ratification of PAC Minutes of phase-I and II by DAB Members

The PAC meeting minutes **of phase-I and II** are presented to the members. The minutes have been resolved and ratified by the DAB members.

Item 3: Fifth and Sixth Semester Syllabus of VR20 Regulation.

The chairman presented the fifth and Sixth semester syllabus of VR20 regulation to the DAB members.

Er. G. Raja Babu suggested that to include the topics on battery storage system and wind generation system in the course titled Solar Photovoltaics (20EE5404B)

Dr. P. Roshan Kumar has recommended to introduce the following content in Solar photovoltaics. The syllabus should be widely covered on emerging technologies such as Fuel cells and Power Converter Techniques, MPPT in fuel cells, ballast converters and cloud technologies like AWS, AZURE or google cloud in IOT Lab.

Er. M.R.V.Rajesh suggested

- To verify the possibility of including load factors, centrifugal pumps and leakage audit in Electrical Energy conversion audit (20EE5205B).
- To introduce Winding Polarity test for 3 phase Induction motor in Electrical Machines-II Lab (20EE4351).

Er. K. Bala Krishna gave the following suggestions

- To introduce Business logic in IOT lab

Item 4: Attainments of PO's of the Batch 2017-2021 & 2018-2022

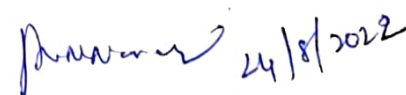
The Chairman has presented all the PO attainments of the batch: 2017-2021 & 2018-2022. It is also mentioned that the PO target level is increase to 3% for Batch 2018-2022.

Item 5: Details of Academic Achievements

- The Chairman has presented all the odd and even semester results of the students for the A.Y: 2021-22.
- It was informed that there is a considerable improvement in placements for the A.Y 2021-22 compared to previous A.Y:2020-21.
- The chairman also presented the details of students and faculty achievements for the A.Y: 2021-22 to the DAB members.

Dr. P. V. R. L. Narasimham, Professor & Head of the department and chairman of Department Advisory Board thanked all the members and faculty for their active participation in the meeting.

Date:24-08-2022


Dr. P. V. R. L. Narasimham

Chairman, DAB-EEE

Dr.P.V.R.L.NARASIMHAM

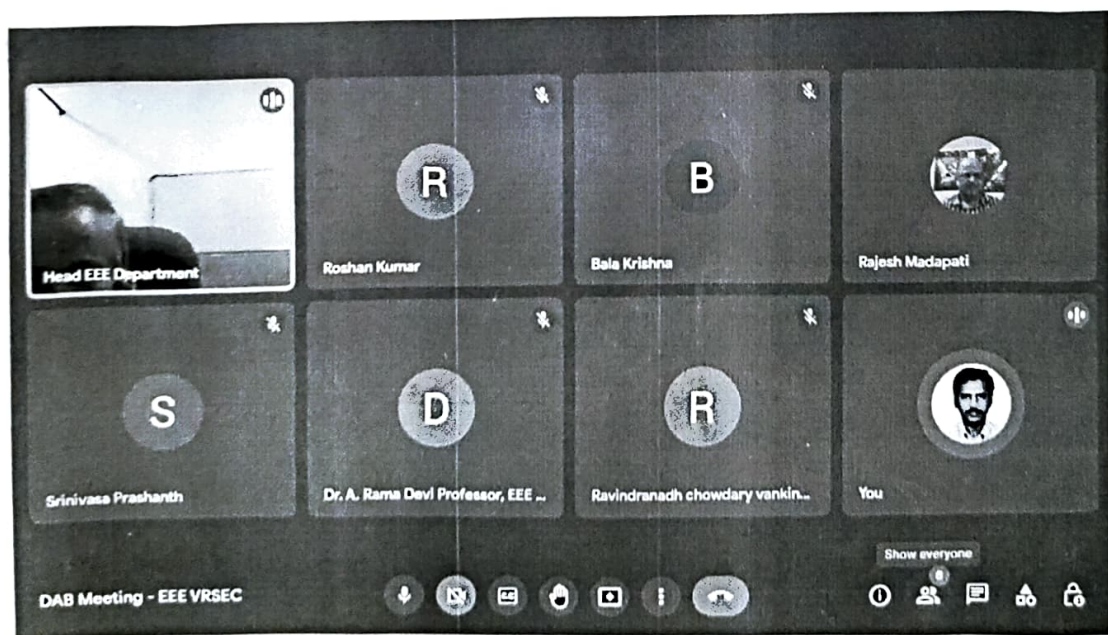
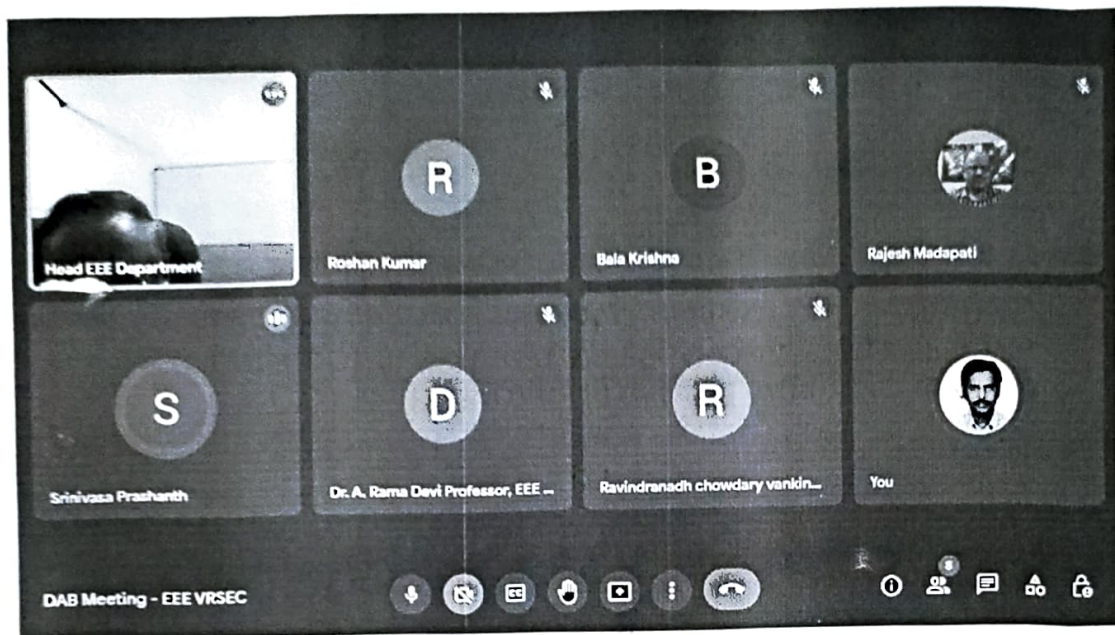
Professor & Head

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VIJAYAWADA-520007.

V.R.SIDDHARTHA ENGINEERING COLLEGE::VIJAYAWADA
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
DEPARTMENT ADVISORY BOARD MEETING



Prashanth
19/7/2022