

**Minutes of BOS Meeting****Venue: HOD chamber, EIE Department****Date: 18-06-2022**

Dr. G.N.Swamy, Professor and Head of EIE department, chaired the meeting and extended a warm welcome to the members present.

**Members present**

1	Dr.G.N.Swamy HOD, EIE Department	Chairman
2	Dr. J.Prakash Prof of IE, MIT, Anna University	Subject expert
3	Dr. S.V.Srikanth Joint Director, C-DAC	Subject expert
4	Dr.U.V.Ratna Kumari Prof of ECE, JNTUK	University Nominee
5	Sri. K.Ratna Prasad Solution Architect, Micro Grid Technologies Pvt Ltd	Representative from Industry
6	Sri. T. Kamal Kumar Sr. Manager, BHEL	Postgraduate Alumni
7	Sri. P. Srinivas Assoc Prof of EIE	BOS Member
8	Dr. C.S.S. Anupama Assoc Prof of EIE	BOS Member
9	Sri. V.N. Prudhvi Raj Assoc Prof of EIE	BOS Member
10	Dr A.Suma Latha Asst Prof of EIE	BOS Member
11	Smt, K.Vijaya Lakshmi Asst Prof of EIE	BOS Member
12	Sri. P. Durga Prasada Rao Asst Prof of EIE	BOS Member

**Agenda:**

1. To approve VR20 curriculum - V and VI semester course syllabus to be introduced in 2022-2023 academic year.
2. To discuss and finalize the V and VI semester honors and minors program course syllabus
3. To finalize self learning courses- NPTEL/COURSERA/UDEMY or other MOOCs: VR17 and VR20 curriculum

4. To approve "20EI7301-Computer Control of Processes", course syllabus to be offered to EIE – CBCS students in V semester
5. Any other matter with the permission of the chair

The following recommendations are made

**Agenda 1:** To approve VR20 curriculum - V and VI semester course syllabus to be introduced in 2022-2023 academic year

**Resolution:**

1. VR20 curriculum - V and VI semester course syllabus to be introduced in 2022-2023 academic year is approved.
2. Suggested to update text books and reference books for all the courses.
3. Suggested to introduce "Principles of Process Control", by D. Patranabis as the main text book in Process Control Lab
4. In 20EI6301- Microcontrollers and Embedded Systems, suggested to introduce ARM processor topics in Unit III and Unit IV.
5. In 20EI6302- Digital Signal Processing, 20EI6303- Industrial Automation, subjects, suggested to reduce the syllabus

**Agenda 2:** To discuss and finalize the V and VI semester honors and minors program course syllabus

**Resolution:**

1. The syllabus of the V and VI semester honors and minors program courses listed below is approved.
  - 20EIH5802A-Optimization Techniques
  - 20EIH5802B- Micro Electro Mechanical Systems
  - 20EIH5802C - Advanced Digital Signal Processing
  - 20EIH5802D - Reconfigurable Architectures
  - 20EIH6803A - Modern Control Systems
  - 20EIH6803B- Principles and Applications of Nanotechnology
  - 20EIH6803C - Computer Vision
  - 20EIH6803D - System on Chip
  - 20EIM5702- Process Instrumentation
  - 20EIM6703- Programmable Logic Controllers

**Agenda 3:** To finalize self learning courses- NPTEL/COURSERA/UDEMY or other MOOCS: VR17 and VR20 curriculum

**Resolution**

1. "17EI2506/F - Design, Technology and Innovation", NPTEL courses with 8 week duration is approved as **Open Elective-III** course for **IV/IV B.Tech EIE supplementary, VR17 regulation** students, in 2022-2023 academic year.
2. 17EI2802/B "The Joy of Computing using Python" and 17EI2802/F "Programming in Java", NPTEL courses with 12 week duration is approved as **Open Elective-V** courses for **IV/ IV B.Tech EIE regular, VR17 Regulation** students, in 2022-2023 academic year
3. The following NPTEL online courses with a duration of 12 weeks are approved as **Open elective III and IV** for VR20 regulations in 2022-2023 academic year

**NPTEL Courses – Open Elective III**

- Introduction to Internet of Things
- Introduction to Machine Learning

**NPTEL Courses – Open Elective IV**

- Fiber Optic Communication Technology
- Industrial Safety Engineering
- Waste to Energy Conversion

**Agenda 4:** To approve "20EI7301-Computer Control of Processes", course syllabus to be offered to EIE – CBCS students in V semester

**Resolution:**

1. Approved "20EI7301-Computer Control of Processes", course syllabus to be offered to EIE – CBCS students in V semester in 2022-2023 academic years.

  
(Dr.G.N.Swamy)

Professor & HOD,

Department of EIE

**HEAD**

Dept of Electronics & Instrumentation Engg  
V R Siddhartha Engineering College  
VIJAYAWADA-520 007

The following recommendations are made

**Agenda 1:** To discuss and finalize the honors and minors program courses

**Resolution:**

1. The proposed courses Computational Techniques in Control Engineering, Fibre Optic Sensors, and Computational Methods for Signal Processing, Real Time Operating Systems for Honors program and Principles of Measurements and Instrumentation for Minor program to be introduced in the IV semester of the 2021-2022 academic year is approved.
2. Suggested to introduce new editions or reprint edition text book for all Honors and Minor courses.
3. Suggested to change the title “Computational Techniques in Control Engineering” to Computational Methods for Linear Control Systems and replace reference book “Scientific Computing with MATLAB”, by IJ Nagrath and M.Gopal, “Control System Engineering”.
4. New Courses suggested for Honors Program to be introduced in V/VI/VII semesters
  - Essential Principle of Image Sensors
  - Smart Sensors for Industrial Applications
  - Wireless Networks
  - Sensors and Control in Green Hydrogen

**Agenda 2 :** To approve syllabus of honors and minors courses, to be introduced in IV semester, 2021-2022 academic year`

**Resolution:**

1. The syllabus of the proposed courses Computational Techniques in Control Engineering, Fibre Optic Sensors, and Computational Methods for Signal Processing, Real Time Operating Systems for Honors program and Principles of Measurements and Instrumentation for Minor program to be introduced in the IV semester of the 2021-2022 academic year is approved.
2. Introduce “Hands on RTOS with Microcontroller”, as the main text book in the Honors subject “Real Time Operating System”.
3. In Principles of Measurements and Instrumentation subject, suggested to replace Oliver & Cage, “Electronic Measurements and Instrumentation”, reference book by R.K.Jain “Mechanical Measurements

**Agenda 3:** To finalize self learning courses NPTEL/COURSERA/UDEMY or other MOOCS

**Resolution**

1. 17EI2506/E “Waste to Energy Conversion”, 17EI2506/F “Design, Technology and Innovation” NPTEL courses with 8 week duration is approved as **Open Elective-III** courses for **IV/IV B.Tech EIE supplementary, VR17 regulation** students, in 2021-2022 academic year.
2. 17EI2802/B “The Joy of Computing using Python”, 17EI2802/E “Introduction to Machine Learning” and 17EI2802/F “Programming in Java”, NPTEL courses with 12 week duration is approved as **Open Elective-V** courses for **III/ IV B.Tech EIE regular, VR17 Regulation** students, in 2021-2022 academic year
3. The following NPTEL online courses with a duration of 12 weeks are approved as **Open elective III and IV** for VR20 regulations

**NPTEL Courses – Open Elective III**

- Introduction to Internet of Things
- Introduction to Machine Learning

**NPTEL Courses – Open Elective IV**

- An Introduction to Artificial Intelligence
- Nonconventional Energy Resources

4. The following NPTEL online courses with a duration of 8 weeks are approved as **Open Electives for VR20 Regulation, - Honors Program**

1. Nanotechnology in Agriculture
2. Wheeled Mobile Robots
3. Design, Technology and Innovation
4. Electronic Packaging and Manufacturing

**Open Electives for VR20 Regulation - Minors Program**

1. Instrumentation and Process Control in Food Industry
2. Robotics and Control: Theory and Practice
3. Introduction to Soft Computing
4. Waste to Energy Conversion

G.N.S

**HEAD**

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V R Siddhartha Engineering College  
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