GOVERNMENT COLLEGE OF ENGINEERING,JALGAON
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NO.GCOEJ/Electrical/BOS/2022/ Date :- 06-07-2023

## Minutes of BoS Meeting held on 6th July, 2023

Meeting of all the members of Board of Studies in Electrical Engineering was held on 6th July, 2023 at 11:00 PM in Online mode. Following members were present for the meeting.

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|---|---|---|
| 1. | Prof. S.S. Dhamse | Chairman |
| 2. | Prof. Dr. N. J. Phadkule | Member |
| 3. | Prof. Dr.A.R. Phadke | Member |
| 4. | Prof. Dr. A.S.Mane | Member |
| 5. | Prof. Vaijnath Nachan | Member |
| 6. | Mrs. D. P. Yavalkar | Member |
| 7. | Mrs. M.R.Bachawad | Member Secretary |
| 8. | Ms. A. R. Patil | Visiting Faculty |
| 9. | Ms. D. V. Patil | Visiting Faculty |
| 10. | Ms. K. M. Lokhande | Visiting Faculty |
| 11. | Ms. S. Y. Sapkale | Visiting Faculty |

Prof. M.R.Bachawad, Member Secretary welcomed all the honourable members of BoS (Electrical).The meeting was started with opening note by Prof. S.S.Dhamse, Honorable Chairman. In his opening note, he pointed out the highlights of the NEP 2020 and related multiple entry and exit courses. He also explained the institute policy of NEP 2020.
After the opening note, Mrs. M.R.Bachawad started the proceedings of the meeting.

The proposed courses for multiple Entry to level 5.0, 5.5 and 6.0 and courses for multiple exit like UG Certificate (Exit after completing level 4.5, First Year), UG Diploma (Exit after completing level 5.0, Second Year) and Advanced Diploma (Exit after completing level 5.5, Third Year) have been presented .

After prolong discussion Board of Studies approved the courses as mentioned in the table given below.

**1. List of bridge courses for multiple entry eligibility**

**A. List of compulsory prerequisite courses required for Entry to level 5.0, Second year (after completing level 4.5, First Year)**

| Sr. No. | Course Code | Course Name | Group | Credits |
|---|---|---|---|---|
| 1 | EE101R | Basics of Electrical Engineering | PC | 3 |
| 2 | EE102R | Basics of Electrical Engineering Lab | PC | 1 |

**B. List of compulsory prerequisite courses required for Entry to level 5.5, Third year (after completing level 5.0, Second Year)**

| Sr. No. | Course Name |
|---|---|
| 1 | Electromagnetic Fields or equivalent |
| 2 | Analog Circuits or equivalent |
| 3 | Network Analysis or equivalent |
| 4 | Electrical Machines-I or equivalent |
| 5 | Electrical Measurement & Instrumentation or equivalent |
| 6 | Power System-I or equivalent |

shall complete any 4 compulsory courses mentioned in the table

**C. List of compulsory prerequisite courses required for Entry to level 6.0, Final year (after completing level 5.5, Third Year)**

| Sr. No. | Course Name |
|---|---|
| 1 | Electrical Machines-II or equivalent |
| 2 | Power System-II or equivalent |
| 3 | Microcontroller & Its Applications or equivalent |
| 4 | Control System or equivalent |
| 5 | Power Electronics or equivalent |
| 6 | Switchgear & Protection or equivalent |

Note: Student shall complete any 4 compulsory courses mentioned in the table

**2. List of courses for awarding certificates at multiple exit levels**

**A. Courses For UG Certificate (Exit after completing level 4.5, First Year) (ANY ONE SET)**

| Sr. No. | Course Code | Course Name | Credits | Work based course/skill based internship | Agency Identified |
|---|---|---|---|---|---|
| **Set I** | | | | | |
| 1 | EE181EX | Electrical Machines-I | 3 | Work based course | - |
| 2 | EE182EX | Electrical Machines-I Lab | 1 | Work based course | - |
| 3 | EE183EX | Electrical Maintenance/ Motor Winding/ Repairing of electric appliances or similar courses | 6 | Skill based internship for minimum 4 weeks | Govt./Any Govt. approved agency/ Any registered private organization |
| **Set II** | | | | | |
| 1 | EE184EX | Power System-I | 3 | Work based course | - |
| 2 | EE185EX | Simulation Lab | 1 | Work based course | - |
| 3 | EE183EX | Electrical Maintenance/ Motor Winding/ Repairing of electric appliances or similar courses/Apprentice | 6 | Skill based internship for minimum 4 weeks | Govt./Any Govt. approved agency/ Any registered private organization |

**B. Courses For UG Diploma (Exit after completing level 5.0, Second Year) (ANY ONE SET)**

| Sr. No. | Course Code | Course Name | Credits | Work based course/skill based internship | Agency Identified |
|---|---|---|---|---|---|
| **Set I** | | | | | |
| 1 | EE281EX | Electrical Machines-II | 3 | Work based course | - |
| 2 | EE282EX | Electrical Machines-II Lab | 1 | Work based course | - |
| 3 | EE283EX | Internship | 6 | Skill based internship for minimum 4 weeks | Govt./Any Govt. approved agency/ Any registered private organization |
| **Set II** | | | | | |
| 1 | EE284EX | Power System-II | 3 | Work based course | - |
| 2 | EE285EX | Power System-II Lab | 1 | Work based course | - |
| 3 | EE283EX | Internship | 6 | Skill based internship for minimum 4 weeks | Govt./Any Govt. approved agency/ Any registered private organization |

## C. Courses For Advanced Diploma (Exit after completing level 5.5, Third Year) (ANY ONE SET)

| Sr. No. | Course Code | Course Name | Credits | Work based course/skill based internship | Agency Identified |
|---|---|---|---|---|---|
| **Set I** | | | | | |
| 1 | EE381EX | Electric Drives | 4 | Work based course | - |
| 2 | EE384EX | Minimum 4 Weeks Internship, if not done in previous semesters/ Project, if Internship already done | 6 | Skill based | Govt./Any Govt. approved agency/ Any registered private organization /- |
| **Set II** | | | | | |
| 1 | EE382EX | Renewable Energy | 3 | Work based course | - |
| 2 | EE383EX | Renewable Energy Lab | 1 | Work based course | - |
| 3 | EE384EX | Minimum 4 Weeks Internship, if not done in previous semesters/ Project, if Internship already done | 6 | Skill based | Govt./Any Govt. approved agency/ Any registered private organization /- |

## D. List of the Open Elective Courses for Minor degree (Any Three)

| Sr. No. | Course Code | Course Name | Credits |
|---|---|---|---|
| 1 | EE481EX | Electrification of Building | 3 |
| 2 | EE482EX | Wind & Solar Power System | 3 |
| 3 | EE483EX | Energy Audit & Conservation | 3 |
| 4 | EE484EX | Energy Storage Systems | 3 |

## E. List of the NPTEL/ Online Courses for Minor degree (Any Three)

| Sr. No. | Course Name | Credits | Online Course (NPTEL/MOOCS/SWAYAM etc.) | Online Course Code |
|---|---|---|---|---|
| 1 | Electrical Equipment And Machines: Finite Element Analysis | 3 | NPTEL | noc23-ee104 |
| 2 | Design Of Photovoltaic Systems | 3 | NPTEL/SWAYAM | noc23-ee107 / - |
| 3 | Power System Protection | 3 | NPTEL | noc23-ee111 |
| 4 | Electrical Measurement And Electronic Instruments | 3 | NPTEL | noc23-ee112 |
| 5 | Electrical Machines - I | 3 | NPTEL/SWAYAM | noc23-ee114 / - |
| 6 | Advanced Linear Continuous Control Systems: Applications With Matlab Programming And Simulink | 3 | NPTEL | noc23-ee122 |
| 7 | DC Microgrid And Control Systems | 3 | NPTEL | noc23-ee123 |
| 8 | Smart Grid: Basics To Advanced Technologies | 3 | NPTEL/SWAYAM | noc23-ee124 / - |
| 9 | Power System Protection And Switchgear | 3 | NPTEL | noc23-ee125 |
| 10 | Electrical Distribution System Analysis | 3 | NPTEL | noc23-ee126 |
| 11 | Economic Operations And Control Of Power Systems | 3 | NPTEL | noc23-ee128 |
| 12 | Design Of Electric Motors | 3 | NPTEL/SWAYAM | noc23-ee140 / - |
| 13 | Linear Systems Theory | 3 | NPTEL | noc23-ee144 |
| 14 | Probability Foundations For Electrical Engineers | 3 | NPTEL | noc23-ee85 |
| 15 | Advances In UHV Transmission And Distribution | 3 | NPTEL | noc23-ee92 |
| 16 | Electricity & Safety Measures | 3 | SWAYAM | - |
| 17 | Economic Operations And Control Of Power Systems | 3 | SWAYAM | - |
| 18 | Sustainable Power Generation Systems | 3 | SWAYAM | - |
| 19 | Applied Electromagnetics For Engineers | 3 | SWAYAM | - |

Note: The above listed online courses are given as a guideline. Students may opt for any other NPTEL/SWAYAM/MOOCS online courses with subject to approval from BoS.

Meeting concluded with vote of thanks to all members by member secretary.

Mrs. M.R.Bachawad
Member Secretary,BoS

Prof. S.S. Dhamse
Chairman, BoS