

**SDM College of Engg. & Tech. Dharwad**  
**Department of Electrical and Electronics Engineering**  
*(Professional Competence with Positive Attitude)*

**Minutes of BOS meeting held on 13-8-2022.**

**AGENDA**

- Approval of Modification in content of **B. E. I/II Semester Basic Electrical Engineering** subject (2021-2025 Scheme)
- Approval of Course content of **B. E. III & IV Semesters (2021-2025 Scheme)**
- Approval of Scheme of **I to IV Semester M. Tech Power Systems Engineering (2021-2024 Scheme)**
- Approval of Course content of **I & II Semester M. Tech Power Systems Engineering (2022-2024 Scheme)**
- Any other matter with the permission of chair

The meeting was started at 10.30 am in Seminar Hall of EE Dept, SDMCET Dharwad. The Chairman extended welcome to all the members. After in depth discussions & deliberations the following resolutions were made.

The committee approved the following:

- 1) Modification in content of **B. E. I/II Semester Basic Electrical Engineering** subject (2021-2025 Scheme)
- 2) Course content of **B. E. III & IV Semesters (2021-2025 Scheme)**
- 3) Scheme of **I to IV Semester M. Tech Power Systems Engineering (2022-2024 Scheme)**
- 4) Course content of **I & II Semester M. Tech Power Systems Engineering (2022-2024 Scheme)**

During the course of discussion, the following suggestions were emerged for incorporation

**Course content of 2021-25 Scheme ( I/II Semester):**

Basic Electrical Engineering

Topics included:

1. Study of smart meters

**III Semester: The following topics included in the respective courses**

1. Geothermal topic is included in biomass energy chapter in Energy Conversion Technology course.
2. Number of teaching hours is made equally distributed in Electrical Power Transmission and Distribution course.
3. Gas insulated substation is included in Electrical Power Transmission and Distribution course.
4. S. M. Singh Reference book to be made as first reference book instead of 3<sup>rd</sup> in Electrical Power Transmission and Distribution course.

**IV Semester: The following topics included in the respective courses**



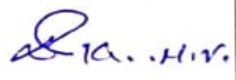



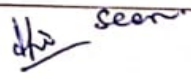
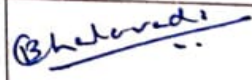

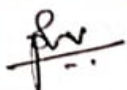
1. Megger experiment is included in measurement and circuit's simulation lab.
2. Multifunctional transducers can be included in measurement and circuit simulation lab.


**M.Tech: The following topics included in the respective courses**

1. Advanced power system protection course may be made as Digital Power System Protection.
2. Impact of charging stations on distribution system included in III semester.
3. Energy market concept is included in PM DPS course in III semester.
4. 5<sup>th</sup> unit is modified as applications for soft computing techniques in place of applications of AI techniques in Artificial Intelligence Techniques to Power System course.
5. Coordination between gas, hydro, PV stations topics is included in 6<sup>th</sup> chapter hydro thermal coordination of Economic Operation and Control of Power System course.
6. Topics like WAMS, PMU is included in first chapter of Elements of Smart Grid course.
7. Protection is included in 9<sup>th</sup> chapter of HVDC Power Transmission course
8. Title of 22PEPE235 (fundamentals of smart grid technology) is changed to Elements of Smart Grid.
9. ICT is included in smart grid course.
10. Some std. System is specified in 4<sup>th</sup> & 5<sup>th</sup> experiments of Power System Laboratory-2.

The meeting concluded with a vote of thanks by the member Secretary to the Chair and all the members.

**BOS Committee**

Sl. No.	Name	Port folio	Signature
01	Dr. S. G. Ankaliki HOD EEE & Chairman BOS	Chairman	
02	Dr. D. B. Kulkarni VTU Nominee, GIT, Belagavi.	VTU Nominee	
03	Dr. Likith Kumar M. V NIE, Mysuru.	Subject expert	
04	Dr. Satish Naik Banavath IIT, Dharwad	Subject Expert	-
05	Dr. Girish V. ALDC HESCOM, Hubballi	Industry Representative	
06	Dr. R. L. Chakrasali Dean Academic, SDMCET	Special Invitee	
07	Prof. Vinay Shetty. GIT, Belagavi	Alumnus	
08	Prof. Sunil Joshi Faculty, EEE, SDMCET	Member	
09	Dr. B. S. Shalavadi Faculty, EEE, SDMCET	Member	
10	Prof. Shravankumar G. Nayak Faculty, EEE, SDMCET	Member	
11	Prof. Pradeep Vibhuti Faculty, EEE, SDMCET	Member Secretary	

  
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**SDM College of Engg. & Tech. Dharwad**  
**Department of Electrical and Electronics Engineering**  
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**Minutes of BOS meeting held on 26-6-2021.**

**AGENDA**

- Approval of Course content of **B. E. VII & VIII Semesters (2018 -2022 Scheme)**
- Approval of Modification in **B. E.IV Semester** Measurement and Circuit Simulation Lab Experiments **(2018-2022 Scheme)**
- Approval of Course Content of **III & IV Semester** M. Tech Power System Engineering **(2020-2022 Scheme)**
- Any other matter with the permission of chair

The Meeting started at 10.30 am in Seminar Hall of EE Dept, SDMCET Dharwad in online mode. The Chairman welcomed all the members. After in depth discussions and deliberations the following resolutions were made.

The committee approved the following:

1) Course contents of **B. E. VII & VIII Semesters (2018 -2022 Scheme)**

2) Modification in **B. E. IV Semester** Measurement and Circuit Simulation Lab Experiments **(2018-2022 Scheme)**

3) Course Contents of **III & IV Semester** M. Tech Power System Engineering **(2020-2022 Scheme)**

During the course of discussion, the following suggestions were emerged for incorporation, if, possible.

**Course contents 2018 scheme (VII & VIII Semester):**

1. In the subject Electric Vehicles (Open elective) it is suggested to include the contents on different types of chargers for EV, which is already included in the Unit II under “methods of charging.”
2. In the course, “Modern Trends in Transmission System”, it is suggested to include the contents on the insulation, earthling technologies, communication methods which are used in the recent times. These will be incorporated in the course contents.
3. It is suggested to make the student to visit nearby electrical substation, SCADA center or any other relevant industry for the practical exposure. This is already covered under “internship” which is the part of curriculum for VII semester.
4. It is suggested to procure the kits on renewable integration for the practical exposure for the students on Renewables. The department has the resources of these kinds on Solar generation. However, a proposal for procurement of renewable integration kits will be submitted to the college.
5. It is suggested to include the Electricity acts in the curriculum. These contents already exist in the course, “Energy auditing and demand side management”, and also “Electrical estimation, specification, codes and practices” of VI semester.
6. It is suggested to introduce software-based design of electrical machines in the course, “Electrical Machines Design”. It will be incorporated in the next revision after the

procurement of the concerned software; however, a value addition training for the current batch shall be arranged.

**Modification in the course contents of IV semester EEE, “Measurement and circuit simulation Laboratory”:**

1. In the course “Measurement and circuit simulation Laboratory” four new experiments are introduced in place of control system experiments which are featured already in VI semester laboratory course, “Sensors and control system laboratory”.
2. It is suggested to use LTSpice for the simulation of experiments. This shall be incorporated.

**Course contents PG III and IV semester 2020-22 scheme):**

1. It is suggested to have laboratory facility for PG students. The laboratory facilities are already provided to the students by the department with licensed software which is a component in the curriculum.
2. It is suggested to include the effects of voltage swells also in the course,” Power Quality Issues and Mitigation Techniques”. The elementary treatment is already considered in the first topic of the course. However, care shall be taken to discuss this issue in depth.
3. It is suggested to include the concepts like, “green certificates, power trading prices” in the course “Planning & Management of Deregulated Power Systems”. As some of these contents are already included and more emphasis shall be given in the future revision.

For the project phase I in third semester M. Tech, it is suggested that the students shall work proportional to the credits reserved for the course. It is already practiced and will be strengthened further.

The meeting concluded with a vote of thanks by the member Secretary to the Chair and all the members.

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**BOS Committee**

<b>Sl. No.</b>	<b>Name</b>	<b>Portfolio</b>	<b>Signature</b>
<b>01</b>	<b>Dr. S. G. Ankaliki</b> HOD EEE & Chairman BOS	Chairman	
<b>02</b>	<b>Dr. Subba Reddy B</b> VTU Nominee, IISc. Bangaluru	VTU Nominee	
<b>03</b>	<b>Dr. A. B. Raju</b> KLE Tech, Hubballi	Subject expert	
<b>04</b>	<b>Dr. Satish Naik Banavath</b> IIT, Dharwad	Subject Expert	
<b>05</b>	<b>Dr. Girish V.</b> HESCOM, Hubballi	Industry Representative	
<b>06</b>	<b>Dr. R. L. Chakrasali</b> Dean Academic, SDMCET	Special Invitee	
<b>07</b>	<b>Dr. G. D. Kamalapur</b> Faculty, EEE, SDMCET	Member	
<b>08</b>	<b>Prof. Vinay Shetty.</b> GIT, Belagavi	Alumnus	
<b>09</b>	<b>Prof. C. M. Chelli</b> Faculty, EEE, SDMCET	Member	
<b>10</b>	<b>Prof. S. S. Desai</b> Faculty, EEE, SDMCET	Member	
<b>11</b>	<b>Sunil Joshi</b> Faculty, EEE, SDMCET	Member	
<b>12</b>	<b>Prof. Shrivankumar G. Nayak</b> Faculty, EEE, SDMCET	Member Secretary	

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**SDM College of Engg. & Tech. Dharwad**  
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**Minutes of BOS meeting (ONLINE) held on 27-7-2020**

The Meeting started at 10.00 am with HOD and internal members seated in Seminar Hall of EE Dept, SDMCET Dharwad. The external members joined through online mode. The Chairman welcomed all the members. After comprehensive discussions and deliberations, the committee made resolutions/approvals under.

The committee approved the following:

- [1] Course content of **BE V & VI Semesters (2018 -2022 Scheme).**
- [2] **M. Tech. Power System Engineering 2020-2022 Scheme.**
- [3] Course Content of **I & II Semester M. Tech Power System Engineering (2020-2022 Scheme).**
- [4] Modification (to the extent of 10% only) and arrangement of course content in **FIVE Units of B.E. II, III and IV Semesters (2018-2022 Scheme).**
- [5] Arrangement of course content in **FIVE Units of B.E. VII & VIII Semesters (2015-2019 Scheme).**

The following suggestions emerged during the course of discussion and justification was presented accordingly.

**Suggestions:**

**1) I/ II semester:**

- Leakage and fringing may be added in Basic Electrical Engineering subject.

**2) III/ IV semester:**

- Engineering Mathematics III (III Semester): Fourier series to be made as 1<sup>st</sup> Chapter and Laplace Transforms as 2<sup>nd</sup> Chapter.
- Electric measurement (III Semester): Calibration Importance to be added.
- Network theory (III semester): Graph theory concept to be added.

**3) V& VI Semester**

- Electrical Machine II (V semester): Standard Reference book like the one by Champion to be added.
- Power Electronics (V semester): Magnetics circuit design to be added; Standard Reference books like the one by --- to be added.
- Power Electronics Lab (V semester): TL494 IC may be used instead of Microprocessor to generate PWM signal.
- High Voltage Engineering (VI semester): Voltage divider, Current shunts, Rogowski coils etc to be added for measurement of voltage and currents.

**4) M. Tech I & II Semester**

- Grid Integration (20PEPSE236): Basics of a micro grid to be 1<sup>st</sup> Chapter followed by Impact of Grid Integration.
- EHVAC transmission: EHV / UHV to be added.
- Introduce the subject on Electrical Vehicle & Hybrid System in M. Tech program.

**Justification/Comments:**

- 1) Leakage and fringing are already present in Basic Electrical Engineering subject.
- 2)
  - i) Arrangement of sequence of chapters in Engineering Mathematics III is conveyed to the concerned department to incorporate in the syllabus.
  - ii) Calibration and its importance is included in in Electrical and Electronics Measurement subject.
  - iii) Graph theory concept is already present in VII semester Computer Techniques in Power System subject.
- 3)
  - i) Standard reference books are added in Electrical Machine-II & Power Electronics subjects.
  - ii) Magnetics circuit design is included in Power Electronics Subject.
  - iii) TL494 IC is employed for generation of firing signals in power Electronic Laboratory.
  - iv) Voltage divider, Current shunts; Rogowski coils are included for measurement of voltage and currents in High Voltage Engineering and Switch Gear & Protection subject.
- 4)
  - i) Department has planned to introduce new subject Electrical vehicle & Hybrid systems in III semester M. Tech.
  - ii) UHV will be added in EHVAC transmission subject of M. Tech.

The meeting concluded with a vote of thanks by the Member Secretary.

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**From:**

HOD EEE  
SDMCET, Dharwad-580 002

**To,**

**HOD Mathematics**

SDMCET, Dharwad  
jeniferjk17@gmail.com

Dear Madam

Suggestion for BoS members of E & E Engg Department during the BoS meeting held on 27/07/2020.

III/ IV semester:

- **Engineering Mathematics III (III Semester):** Fourier series to be made as 1st Chapter and Laplace Transforms as 2<sup>nd</sup> Chapter.

*S. Lankariki*

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**Minutes of BOS meeting held on 25-5-2019**

The Meeting started at 10.00 am in Seminar Hall of EE Dept, SDMCET Dharwad. The Chairman welcomed all the members. After in depth discussions and deliberations the following resolutions were made.

The committee approved the following:

- [1] Revised PEOs & PSOs of under graduate program
- [2] Revised PEOs of post graduate program
- [3] **B. E. III to VIII Semesters Scheme (2018 -2022 Scheme)**
- [4] The course content of the III & IV semesters of (2018-2022 scheme)
- [5] Modifications in the course contents of VI, VII & VIII Semesters (2015-2019 scheme) to the extent of 10% only

The following suggestions were emerged during the course of discussion and justification was presented accordingly,

**Scheme:**

- Introductory project title can be changed for IV semester to Introduction to project
- Data structure and Computer Organization electives should be offered at two different semesters.
- In IoT course, communication component to be included.
- Embedded System course should be moved to 7<sup>th</sup> semester.
- More number of open elective can be offered.
- The title “Renewable Energy Sources” can be changed to “Renewable Energy System”.
- The course “Industrial Utilization of Electrical Power” should have the term Industrial Drives
- Electricity Act & Codes to be included in some relevant courses.
- Testing and Commission with respect to IE standards to be studied.

**Course contents 2018 scheme (III & IV Semester):**

- 7. In the subject Electrical and Electronic Measurement the contents on Smart meters & and Introduction to PMU's may be included.
- 8. DC Generator topic can be shortened in terms of no. of hours from Electric Machines -I. In miscellaneous topics SRM hysteresis motor stepper motor BLDC motor etc can be included.

9. Splitting of single phase and three phase transformers is not felt necessary, solid state Transformer selection of core of transformer etc can be included

**10% change in the course content of 2015 scheme:**

In the course 'ARM Processor' in chapter 3 the word introduction is to be removed

The meeting concluded with a vote of thanks by the member Secretary

**BOS Committee**

Sl. No.	Name	Portfolio	Signature
01	Dr. S. G. Ankaliki Professor & Head, E & E Engg. Dept., SDMCET, Dharwad. Ph.: 9481108294 ; Email: <a href="mailto:sgasdmee@rediffmail.com">sgasdmee@rediffmail.com</a>	Chairman	
02	Dr. H. M. Ravikumar Professor & Head of Dept, Department of Electrical and Electronics Engineering, Nitte Meenakshi Institute of Technology, P.O. Box 6429, Yelahanka, Bangalore-560064. Ph.:                      Email: <a href="mailto:ravikumar.h@nmit.ac.in">ravikumar.h@nmit.ac.in</a>	VTU Nominee	
03	Dr. Anant Naik, Associate Professor, E & E Engg. Dept., Goa College of Engineering, Farmagudi, Ponda, Goa - 403401. Ph.: 0832-2336332,09850466424 Email: <a href="mailto:ajn@gec.ac.in">ajn@gec.ac.in</a>	Subject expert	
04	Dr. D. B. Kulkarni Professor, E & E Engg. Dept., Gogte Institute of Technology, Belagavi. Ph.:9480456340; Email: <a href="mailto:dbkulkarni@git.edu">dbkulkarni@git.edu</a>	Subject Expert	
05	Shri. S. Rangaraju EE (Electrical) HESCOM, Hubballi, Ph.: 9480883699 Email: <a href="mailto:eedsmandrndhescom@gmail.com">eedsmandrndhescom@gmail.com</a>	Industry Representative	
06	Dr. Sanjeev Nayak Project Manager (Technical) L & T, Bangaluru Email: <a href="mailto:nayaksajeev82@gmail.com">nayaksajeev82@gmail.com</a>	Industry Representative	
07	Prof. Manjunath Randev B.	Alumnus	

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<b>08</b>	Prof. C. M. Chelli, Professor Dept. of E&E, SDMCET, Dharwad Ph.:9242809240; Email: <b>clement.chelli@gmail.com</b>	Member	
<b>09</b>	Dr. G. D. Kamalapur, Professor Dept. of E&E, SDMCET, Dharwad Ph.:9450248486; Email: <b>gdkpur9@gmail.com</b>	Member	
<b>10</b>	Dr. M. R. Kappali Professor Dept. of E&E, SDMCET, Dharwad Ph.:9448661981; Email: <b>mrkappali@rediffmail.com</b>	Member	
<b>11</b>	Dr. R. L. Chakrasali , Professor Dept. of E&E, SDMCET, Dharwad Ph.:9845477797; Email: <b>pratisatu@gmail.com</b>	Special Invitee	
<b>12</b>	Prof. S. S. Desai Professor Dept. of E&E, SDMCET, Dharwad Ph.:9880181271; Email: <b>ssdesai.sdmcet@gmail.com</b>	Member Secretary	

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**Minutes of BOS meeting held on 18-6-2018**

The Meeting started at 10.00 am in Seminar Hall of EE Dept, SDMCET Dharwad. The Chairman welcomed all the members. After in depth discussions and deliberations the following resolutions were made.

All committee members have approved the following:

[1] Modified vision and mission statements of the department in line with the college vision and mission statements

[2] The scheme and course content of the I & II semesters of (2018 -2022 Scheme)

[3] Modifications in the course contents of III, IV, V & VI Semesters (2015-2019 schemes) to the extent of 10% only

[4] The course content of the VII & VIII semesters of (2015-2019) scheme

[5] The Scheme and course content of I-IV Semester M. Tech. (EPS) (2018 -2020 Scheme)

With the following suggestions:-

1. To include R-C series circuit in 1st semester Basic electrical engineering.
2. To remove types of earthing in 1<sup>st</sup> semester Basic electrical engineering.
3. To calculate electricity bill in 1<sup>st</sup> semester Basic electrical engineering as self-study component.
4. To include design of PV system, Hybrid energy system Renewable energy systems subject.
5. To include electricity acts in related core subject of UG.
6. To include computer operated relays experiment in RHV laboratory.
7. To include Energy Conservation Building Code, installation of Air conditioners and inverters in Estimation and Costing subject of UG.
8. To mention synchronous machine model x.x in PG subject.
9. To include mandatory publication for PG project.

The meeting concluded with vote of thanks by the member Secretary

**BOS Committee**

<b>Sl. No.</b>	<b>Name</b>	<b>Portfolio</b>	<b>Signature</b>
<b>01</b>	Dr. S. G. Ankaliki Professor & Head, E & E Engg. Dept., SDMCET, Dharwad. Ph.: 9481108294 ; Email: <b>sgasdmee@rediffmail.com</b>	Chairman	
<b>02</b>	Dr. H. M. Ravikumar Professor & Head of Dept, Department of Electrical and Electronics Engineering, Nitte Meenakshi Institute of Technology, P.O. Box 6429, Yelahanka, Bangalore-560064. Ph.:                      Email: <b>ravikumar.h@nmit.ac.in</b>	VTU Nominee	
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<b>05</b>	Shri. Raghavendra Vishwakarma HESCOM, Hubballi, Ph.: 9886773901 Email: <b>kraghu98@gmail.com</b>	Industry Representative	
<b>06</b>	Prof. Manjunath Randev B. Asst. Professor, KLECET, Hubli, Ph.:9740667115 Email: <b>manjunath.ranadev@kleit.ac.in</b>	Alumnus	
<b>07</b>	Prof. C. M. Chelli, Professor Dept. of E&E, SDMCET, Dharwad Ph.:9242809240; Email: <b>clement.chelli@gmail.com</b>	Member	
<b>08</b>	Dr. G. D. Kamalapur, Professor Dept. of E&E, SDMCET, Dharwad Ph.:9450248486; Email: <b>gdkpur9@gmail.com</b>	Member	
<b>09</b>	Dr. M. R. Kappali Professor Dept. of E&E, SDMCET,	Member	

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<b>10</b>	Dr. R. L. Chakrasali , Professor Dept. of E&E, SDMCET, Dharwad Ph.:9845477797; Email: <b>pratisatu@gmail.com</b>	Special Invitee	
<b>11</b>	Prof S. S. Desai Professor Dept. of E&E, SDMCET, Dharwad Ph.:9880181271; Email: <b>ssdesai.sdmcet@gmail.com</b>	Member Secretary	

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