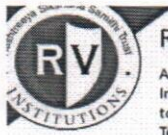

RV College of Engineering, Bangalore

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

BOS CONTENT SHEET

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Approved by AICTE
New Delhi

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Department: Electrical & Electronics Engineering

Programme: B.E. (Electrical & Electronics Engineering)

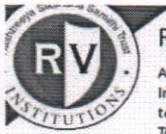
The following are the new courses added in the curricula in the respective curricular revisions made in 2018, 2021 and 2022 schemes. Curricular revisions were discussed thoroughly at the respective Board of Studies meetings. The new courses added are reflected in the revised curricula with the course codes.

Sl. No.	Title of the new course added	Course code	Scheme in which the new course is added
1.	ARM Microcontroller and Embedded Systems	18EE6C3	2018
2.	Electric Vehicles	18EE6D2	2018
3.	Programmable Logic Controller and Supervisory Control & data Acquisition	18EE6D3	2018
4.	Design of Photovoltaic system	18EE5A1	2018
5.	Digital Image Processing	18EE5A2	2018
6.	Fabrication Techniques for MEMS-based sensors: clinical perspective	18EE5A3	2018
7.	Microelectronics: Devices to Circuits	18EE5A4	2018
8.	Minor Project	18EE55	2018
9.	Internship	18EE74	2018
10.	Smart Grid Technology	18EE7F3	2018
11.	Linear Integrated Circuits	21EE33	2021
12.	Measurement and Transducers	21EE36	2021
13.	Analog Circuits	21EE4A1	2021
14.	Programming, Data Structures and Algorithms using Python	21EE4A2	2021
15.	Business Analytics & Text Mining Modeling	21EE4A3	2021
16.	Introduction to Operating Systems	21EE4A4	2021
17.	Multi-Core Computer Architecture in Storage and Interconnects	21EE4A5	2021

Suvaraj
Bos-CHAIRMAN
Department of Electrical
(Electrical &
Electronics Engineering)
R.V. College of Engineering
BENGALURU - 560 059

S. Srinivas
DEAN ACADEMICS
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Subramanyam
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Department: Electrical & Electronics Engineering

Programme: M.E. (Power Electronics)

The following are the new courses added in the curricula in the respective curricular revisions made in 2018 and 2022 schemes. Curricular revisions were discussed thoroughly at the respective Board of Studies meetings. The new courses added are reflected in the revised curricula with the course codes.

Sl. No.	Title of the new course added	Course code	Scheme in which the new course is added
1.	Embedded Systems for Power Electronics	18MPE1A3	2018
2.	Power System Harmonics	18MPE1B2	2018
3.	Smart Grid-Technology, Analysis and Applications	18MPE1B3	2018
4.	EMC in Power Electronics	18MPE2C1	2018
5.	Nanomaterials and Devices	18MPE3E3	2018
6.	Software Programming for Power Electronics	22MPE14L	2022
7.	EV and HEV in Architecture and Design	22MPE1A2T	2022
8.	Microcontrollers and application in Power Electronics	22MPE1B1T	2022
9.	VLSI and Applications in Power Electronics	22MPE1B2T	2022
10.	Embedded Systems Lab	22MPE24L	2022

**Bos-CHAIRMAN
(Electrical &**

Electronics Engineering)
Department of Electrical
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R.V. College of Engineering
BENGALURU - 560 059

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BENGALURU - 560 059



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AbhilashKrishna D G <abhilashkrishnadg@rvce.edu.in>

Fwd: BoS meeting scheduled on 06-07-2018

Sujatha D <sujathad@rvce.edu.in>

Fri, Jun 14, 2024 at 2:10 PM

To: AbhilashKrishna D G <abhilashkrishnadg@rvce.edu.in>

----- Forwarded message -----

From: **Rudranna Nandihalli** <rudranna@rvce.edu.in>
Date: Thu, Feb 6, 2020 at 7:55 PM
Subject: Fwd: BoS meeting scheduled on 06-07-2018
To: <sujathad@rvce.edu.in>

----- Forwarded message -----

From: **Jayapal R.** <jayapalr@rvce.edu.in>
Date: Thu 6 Feb, 2020, 6:56 PM
Subject: Fwd: BoS meeting scheduled on 06-07-2018
To: Rudranna Nandihalli <rudranna@rvce.edu.in>

Sent from my iPhone

Begin forwarded message:

From: sandhyaranisr@bel.co.in
Date: 5 July 2018 at 9:49:12 AM IST
To: "Jayapal R." <jayapalr@rvce.edu.in>
Cc: ujs@ee.iisc.ernet.in, keshavanbk@pes.edu, muralidhara v <v.muralidhara.1952@gmail.com>, Prasad Ranga <prasad.ranga@in.abb.com>, sandhyaranisr@bel.co.in, vasu@cpri.in, Uma Rao K <umaraok@rvce.edu.in>, Rudranna Nandihalli <rudranna@rvce.edu.in>, "Srivani S.G." <srivanisg@rvce.edu.in>, "Dinesh M.N." <dineshmn@rvce.edu.in>, "Suresha C." <sureshac@rvce.edu.in>, "Sunanda C." <sunandac@rvce.edu.in>
Subject: Re: BoS meeting scheduled on 06-07-2018

नमस्कार / Namaskar

Sir,

I will be attending the BoS meeting scheduled on 06-07-2018.
I would request Dr Jayapal to send me a mail regarding extension of BoS membership up to 2019.

धन्यवाद./ Best Regards

संध्या राणी एस आर / Sandhya Rani S R

व उ म प्र / Sr DGM

के - डी व ई पावर सप्लाय / C-D&E Power Supply

भारत इलेक्ट्रॉनिक्स लिमिटेड / Bharat Electronics Ltd

जलहल्ली पोस्ट बेंगलुरु / Jalahalli Bengaluru

560013

Phone 22195898

Jayapal R.

Dear BoS member,

A BoS meeting of EEE Dept is scheduled on 06-07-2018 at 10.30 AM in the chambers of the undersigned. This meeting is arranged to discuss the changes proposed by VTU leading revision in UG and PG curricula from 2018.

The agenda of the meeting is as under:

1. Finalization of 2018 UG scheme for 175 credits
2. Finalization of I Year Basic Electrical Engineering curriculum(Both Theory and Lab)
3. Finalization of 2018 PG scheme for 88 credits.
4. Finalization of I Year PG curriculum.

I request all the BoS members to make it convenient to attend the scheduled > BoS meeting. This meeting is scheduled in a short notice due to the proposed changes at VTU level and also due to the scheduled Academic

Council meeting at College level on 10-07-2018. Sorry for the inconvenience caused due to short notice.

I request your confirmation regarding attending the meeting.

--

Regards,

Dr. Jayapal R

Prof & Head, Dept of EEE,
R.V.College of Engineering,
Bangalore - 560059

कागज़ के 3000 पन्नों के लिए एक पेड़ को काटा जाता है... पेड़ बचाएँ... पेड़ों का संरक्षण करें... हरियाली लाएँ... इस मेल का या इसकी किसी फाइल का प्रिंट तब तक न लें जब तक सचमुच ज़रूरत न हो !!!!


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इस इलेक्ट्रॉनिक संदेश में शामिल जानकारी और इस संदेश के साथ दिया गया संलग्नक केवल प्रेषिती के अनन्य इस्तेमाल के लिए है और इसमें गोपनीय या विशेषाधिकार प्राप्त जानकारी शामिल हो सकती है। यदि आप आशयित प्राप्तकर्ता नहीं हैं, तो कृपया तुरंत भारत इलेक्ट्रॉनिक्स के प्रेषक को बताएँ

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGG**Structure of Board of Studies 11-09-2017 to 10-09-2019**

Structure	Sl. No.	Name
Chairman	1	Dr. Jayapal R, Prof. & HOD, EEE Dept,
Faculty members at different levels covering different specialization- Nominated by Academic council(05)	1	Dr.K.Uma Rao Professor, EEE Dept
	2	Dr.S.G.Srivani Associate Professor, EEE Dept,
	3	Dr. Dinesh.M.N Associate Professor, EEE Department,
	4	C.Suresh Associate Professor, EEE Department
	5	C.Sunanda Asst. Professor, EEE Department,,
Special Invitee		Dr.Rudranna Nandihally Professor, EEE Dept
Subject Experts from outside the college to be nominated by the Academic Council (02)	1	Dr. U.J Shenoy Principal Research Scientist Indian Institute of Science C V Raman Ave, Bengaluru, Karnataka 560012 Office: room 114 Phone: +91 80 2293 3357 E-mail: uj@s@ee.iisc.ernet.in
	2	Dr. Keshavan B.K Chairperson, Dean E& T PES University, 100 Feet Ring Road, Banashankari Stage III, Bengaluru, Karnataka 560085 Email : keshavanbk@pes.edu Telephone (office): 9449867801
Subject Experts from outside the college, VTU nominee (01)	1	Dr. V.Muralidhar Professor, EEE Dept, BNMIT, Banashankari, Bangalore-560070 M : 9845307880 E-mail: v.muralidhara.1952@gmail.com
Representative from Industry/Corporate Sector/Allied area relating to placement, to be nominated by the Academic Council	1	Mrs. Sandhya Rani.S.R Senior, DGM Central Development & engineering Power Supply, BEL, Jalahalli Bangalore-560 013. M : 9449047650.
Postgraduate meritorious alumnus, to be nominated by the principal. (preferably with Ph.D and experience of more than 10 years)	1	Mr. Prasad Ranga ABB, Plot No. 4A, 5&6, 2 nd Phase Peenya Industrial Area, Bangalore-560 058. Ph: 9901414285. Email: prasad.ranga@in.abb.com
Special Invitee (Industry)	1	Dr . N.Vasudev Joint Director, HV Division, CPRI, Bangalore- 560080 Emailed: vasu@cpri.in . Mobile: 9845379043


 Dr. Jayapal.R
 Prof. & Head of the EEE Department.
 Department of Electrical
 Electronics Engineer
 R.V. College Engineering
 Bangalore 560 059


R.V.COLLEGE OF ENGINEERING BENGALURU 560 059
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

RVE/111/2018-19/EE

DATE: 09.07.2018

Submitted

The department has arranged a meeting of Board of Studies (BoS) on 06.07.2018. In this regarding an amount of Rs. 15000/- for 5 external members was sanctioned at Rs. 3000/- (Rs. 2000/- Honorarium + Rs. 1000/- TA) to each external member. Out of the 5 external BoS members only 4 external BoS members has attended the meeting and an amount of 12000/- was paid from HoD, EEE account. Hence it is requested to reimburse an amount of Rs.12000/- in favor of HoD, Electrical & Electronics.



Dr. R Jayapal
Prof & Head, Dept of EEE

Encl: The list and addresses of external BoS members.

Prof. & Head
Department of Electrical
Electronics Engineer
R.V. College Engineering
Bangalore 560 059

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGG
Structure of Board of Studies 11-09-2017 to 10-09-2019

B-08/AR/UG/26

date: 06/07/18

Structure	Sl. No.	Name	Signature
Chairman	1	Dr. Jayapal R, Prof. & HOD, EEE Dept,	
Faculty members at different levels covering different specialization- Nominated by Academic council(05)	1	Dr.K.Uma Rao Professor, EEE Dept	
	2	Dr.S.G.Srivani Associate Professor, EEE Dept,	
	3	Dr. Dinesh.M.N Associate Professor, EEE Department,	
	4	C.Suresh Associate Professor, EEE Department	
	5	C.Sunanda Asst. Professor, EEE Department,,	
Special Invitee		Dr.Rudranna Nandihally Professor, EEE Dept	
Subject Experts from outside the college to be nominated by the Academic Council (02)	1	Dr. U.J Shenoy Principal Research Scientist Indian Institute of Science C V Raman Ave, Bengaluru, Karnataka 560012 Office: room 114 Phone: +91 80 2293 3357 E-mail: ujshenoy@ee.iisc.ernet.in	ABSENT
	2	Dr. Keshavan B.K Chairperson, Dean E& T PES University, 100 Feet Ring Road, Banashankari Stage III, Bengaluru, Karnataka 560085 Email : keshavanbk@pes.edu Telephone (office): 9449867801	
Subject Experts from outside the college, VTU nominee (01)	1	Dr. V.Muralidhar Professor, EEE Dept, BNMIT, Banashankari, Bangalore-560070 M : 9845307880 E-mail: v.muralidhara.1952@gmail.com	
Representative from Industry/Corporate Sector/Allied area relating to placement, to be nominated by the Academic Council	1	Dr. Mrs. Sandhya Rani.S.R Senior, DGM Central Development & engineering Power Supply, BEL, Jalahalli Bangalore-560 013. M : 9449047650.	
Postgraduate meritorious alumnus, to be nominated by the principal. (preferably with Ph.D and experience of more than 10 years)	1	Mr. Prasad Ranga ABB, Plot No. 4A, 5&6, 2 nd Phase Peenya Industrial Area, Bangalore-560 058. Ph: 9901414285. Email: prasad.ranga@in.abb.com	

Dr. Jayapal.R

Prof. & Head of the EEE Department.

Proceedings of the BOS meeting held on 06-07-2018

Members Present

1. Dr. Jayapal R
2. Dr. Rudranna Nandihalli
3. Dr. Keshavan B K
4. Dr. K Uma Rao
5. Prof. Dr. V. Muralidhara
6. Dr. M. N. Dinesh
7. Mrs. Sandhya Rani
8. Mr. Prasad Ranga
9. Prof. C. Sunanda
10. Dr. S.G. Srivani
11. Prof. C. Suresh
12. Prof. J. N. Hemalatha
13. Prof. K. V. Banninthaya

Members Absent

1. Dr. N. Vasudev
2. Dr. U. J. Shenoy

1. The meeting started at 10:30 a.m. on 6th July 2018 in chambers of Prof. and Head, EEE department with a welcome to all BOS members by chairman BOS, Dr. Jayapal R. The chairman read the following agenda of the meeting:
2. This meeting is arranged to discuss the changes proposed by VTU leading to revision in UG and PG curriculum from 2018. The agenda of the meeting is as under:

AGENDA

29. Finalization of 2018 UG scheme for 175 credits
 30. Finalization of I year Basic Electrical Engineering curriculum (Both Theory and Lab).
 31. Finalization of 2018 PG scheme for 88 credits.
 32. Finalization of I year PG curriculum.
 33. Any other matters.
3. The 2018 scheme was discussed and the same was finalized after long deliberations with the following changes:
 4. The Chairman BOS, displayed the I year Elements of Electrical Engineering curriculum (Both Theory and Lab). As per this the course is renamed as Elements of Electrical Engineering with a subject code 18EE13/23 and also electrical lab is included as self study is removed. This course has become 3 credit subject with 2-Lecture and 1-Tutorial hrs. The first year has a total of 40 credits with 20 each per semester.
 5. All the BOS members were informed about 3 weeks orientation program for the I year students.
 6. The draft syllabus of the theory is displayed and the following changes in the syllabus are suggested the same was finalized after long deliberations.

Unit-I: Dr. Muralidhar suggested to include topics mesh current analysis along with kirchoff's law in DC circuit.

Unit-II: Instead of only RLC should be changed to RLC series circuits.

Unit-III: Dr. Keshavan suggested include RL load for phasor diagram under **single line transformers**. And in the topic **Induction motors** Dr. Rudranna Nandihalli suggested principle and operation of single phase induction motor should be renamed as principle and operation of capacitor start-run.

Unit-IV: Dr. K Uma Rao suggested to add necessity of starter in DC machines and Dr. Muralidhar suggested for **Three Phase Synchronous Generators: Construction, types**, Principle of operation to be added.

Unit-V: Retained as per the draft syllabus.

Among the reference books Sri. Prasad Ranga suggested to remove Electrical Technology by B L Theraja and Dr. Muralidhar suggested to include text book on Fundamentals of Electrical Engineering by Dr. Rajendra Prasad.

7. It was informed to all BOS members about **Continuous Internal Evaluation. It was informed that 3 quizzes for 10 marks each and 3 tests for 50 marks are conducted and test marks are reduced to 50 by dividing by 3 and with 20 marks for assignment.** Final evaluation, 3 Quiz $10+10+10=30$ + 3 test $50+50+50=150$ (Reduced to 50) + Assignment $20=100$.

8. After this Chairman-BOS, displayed the draft syllabus of the lab and the following changes are suggested.

1. Lab should be named as Electrical Engineering services Lab with code 18EE17/27.
2. Having 12 Experiments, containing 4 experiments from Mechanical Engineering, 4 from Electronics and 4 from Electrical. The Electrical Experiments are
 1. One-way , Two-way and Three-way control of an incandescent lamp with and without a capacitor.
 2. Power and power factor measurement of
 - i. Fluorescent lamp with and without capacitor
 - ii. LED lamp
 - iii. Compact Fluorescent lamp (CFL)
 - iv. Halogen Lamp
 3. Power measurement of balanced star and delta connected load
 4. Wiring design and control of domestic household

For the 4th experiment the Chairman- BOS told the students have to do the design and show the demo of domestic wiring. Dr. Muralidhar suggested that the cut section of the model of the DC machines and transformers has to be shown to students.

9. The common courses across the college of the proposed 2018 scheme were discussed and all the BOS members agreed the y changes suggested by the dean academics. Scheme was also discussed and the same was agreed by all the BoS members.
10. The III and IV semesters subjects were retained as per the scheme of 2016 as there is no scope for any further change. In the V semester BoS members suggested to remove HV engineering course and topics under this has to be added in varies subjects like GTD, Switchgear and HVDC. It was also suggested that the elective subject's Embedded system or VLSI design are to be made as core courses. Dr. Keshavan suggested students should be asked to choose electives in particular domain and to be called as domain specialization.
11. Dr. Muralidhar suggested that electrical CAD has to be included in machines lab along with their regular experiments. Dr. Keshavan suggested to add the CAD design as open ended experiment.
12. Dr. Rudranna Nandihalli displayed 2018 PG scheme with following suggestions for the finalization of syllabus:

The draft copy of the 1st and 2nd semester PG syllabus was displayed. He informed that the core courses are reduced to two from three compared to 2016 scheme. There are 6 electives in 1st sem PG the tentative subjects are power converters and AC/DC drives. The BoS members suggested to remove the subject research methodology.

As per the agenda 29: the following is the list of new courses added for UG 2018 scheme

S.No.	Semester	Course Title
1		Design of Photovoltaic system
2		Digital Image Processing
3	V	Fabrication Techniques for MEMs-based sensors: clinical perspective
4		Microelectronics: Devices to Circuits
5		Minor Project
6		ARM Microcontroller and Embedded Systems
7		Electric Vehicles
8	VI	Programmable Logic Controller and Supervisory Control & data Acquisition
9		Internship
10	VII	Smart Grid Technology

As per the agenda 31: the following is the list of new courses added for PG 2018 scheme

S.No.	Semester	Course Title
1		Embedded Systems for Power Electronics
2	I	Power System Harmonics
3		Smart Grid-Technology, Analysis and Applications
4	II	EMC in Power Electronics
5	III	Nanomaterials and Devices

The meeting is concluded by proposing thanks to all BoS members



Dr. Jayapal R

Chairman BoS, EEE Department



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ELECTRICAL & ELECTRONICS ENGINEERING RVCE <hod.ee@rvce.edu.in>

BOS meeting on 18-08-2018 at 10.30am

ELECTRICAL & ELECTRONICS ENGINEERING RVCE <hod.ee@rvce.edu.in> Tue, Aug 14, 2018 at 10:31 AM

To: ujs@ee.iisc.ernet.in, keshavanbk@pes.edu, v.muralidhara.1952@gmail.com, prasad.ranga@in.abb.com, vasu@cpri.in

Respected Sirs,

The syllabus of I year M.Tech.(Power Electronics) is modified as per the revised scheme of 2018. Hence the BOS meeting will be conducted on 18-08-2018 (Saturday) at 10.30 am to discuss the syllabus. I request all the BOS members to make it convenient to attend. Your contribution and suggestions to the modification/ framing of the syllabus is highly appreciated.

Kindly **acknowledge** your participation

With Regards

Dr.Rudranna N.

Professor and Head

Department of Electrical and Electronics Engineering

RVCE, Bangalore



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 RSST website :
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Structure	Sl.No	Name
Chairman	1	Dr. Rudranna Nandihalli Prof. & Head, EEE Department
Faculty members at different levels covering different specialization- Nominated by Academic council(05)	1	Dr.K.Uma Rao Professor, EEE Department
	2	Dr.S.G.Srivani Associate Professor, EEE Department
	3	Dr. Dinesh.M.N Associate Professor, EEE Department
	4	Dr. A. Sreedevi Associate Professor, EEE Department
	5	Smt. Hemalatha J N Assistant. Professor, EEE Department
	6	Dr.Prema V Assistant Professor, EEE Department
Special Invitee	1	Sri. K. Vasudeva Baninthaya Associate Professor, EEE Department
Subject Experts from outside the college to be nominated by the Academic Council (02)	1	Dr.B.V.Perumal Professor NITK Surathkal. Email Id: bvperumal@nitk.edu.in , Mobile: 9980861389
	2	Sri. V. Keshava Murthy Professor, Dept of EEE Dr. Ambedkar Institute of Technology Near Jnana Bharathi Campus Bengaluru- 560056 Phone: +91 802 3211 505/506/507 Mobile No: 9449039464 Email Id: profvkm@yahoo.com
Representative from Industry/Corporate Sector/Allied area relating to placement, to be nominated by the Academic Council	1	Mrs. Sandhya Rani.S.R Senior, DGM Product Development & Innovative Centre, BEL, Jalahalli Bengaluru -560 013. M : 9449047650. Email Id: sandhyaranisr@bel.co.in

R.V. Ball

Prof. & Head
 Department Electrical
 Electronics Engineer
 R.V. College Engineering
 Bangalore - 560 059

skm

*EE
5/7*



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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGG.
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Approved by AICTE, New Delhi
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Accredited by NBA, New Delhi

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Website: www.rvce.edu.in
RSST website :
www.rvinstitutions.com

RVE/EE/ 173/2018-19

Date : 20.08.2018

Submitted

The department has arranged a meeting of Board of Studies (BoS) for M Tech (Power Electronics) on 18.08.2018. In this regard it is required to pay an amount of Rs. 3000/- (Rs. 2000/- Honorarium + Rs. 1000/- TA) to each member. The two external members had attended the meeting. Hence, it is requested to kindly reimburse an amount of Rs. 6000/- towards the payment for two external members. At present the amount is being paid by personal account bearing **Account No: 136010003279**.

Following is the agenda of the meeting:

34. Discussion of First Year M Tech (Power Electronics) Syllabus.
35. Any other matters.

R. V. Nandihalli
20/8

Dr. Rudranna Nandihalli
Prof & Head, Dept of EEE

Prof. & Head
Department of Electrical
Electronics Engineer
R.V. College Engineering
Bangalore 560 059

Encl: The attendance list and addresses of external BoS academic members.
RVCE Hand Vouchers.

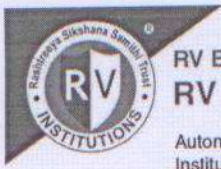
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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Structure of Board of Studies 11-09-2017 to 10-09-2019

Date: 18.08.2018

Structure	Sl. No.	Name	Signature
Chairman	1	Dr. Rudranna Nandihalli Prof. & Head, EEE Department	<i>R.N. Nandihalli</i>
Faculty members at different levels covering different specialization- Nominated by Academic council(05)	1	Dr.K.Uma Rao Professor, EEE Department	<i>K.Uma Rao</i>
	2	Dr.S.G.Srivani Associate Professor, EEE Department	<i>S.G. Srivani</i>
	3	Dr. Dinesh.M.N Associate Professor, EEE Department	<i>D. Dinesh M.N</i>
	4	C.Suresh Associate Professor, EEE Department	<i>Suresh C.</i>
	5	C.Sunanda Assistant. Professor, EEE Department	<i>C. Sunanda</i>
Special Invitee	1	Dr. R. Jayapal Professor, EEE Department	<i>R. Jayapal</i>
	2	Sri. K. Vasudeva Baninthaya Associate Professor, EEE Department	<i>K. Vasudeva Baninthaya</i>
	3	Dr. A. Sreedevi Associate Professor, EEE Department	<i>A. Sreedevi</i>
	4	Smt. J.N.Hemalatha Assistant Professor, EEE Department	<i>Hemalatha J.N</i>
	5	Dr. V. Prema Assistant Professor, EEE Department	<i>Prema</i>
Subject Experts from outside the college to be nominated by the Academic Council (02)	1	Dr. U.J Shenoy Principal Research Scientist Indian Institute of Science C V Raman Ave, Bengaluru, Karnataka 560012 Office: room 114 Phone: +91 80 2293 3357 E-mail: ujs@ee.iisc.ernet.in	<i>U. Shenoy</i>
	2	Dr. Keshavan B.K, Chairperson, Dean E& T, PES University, 100 Feet Ring Road, Banashankari Stage III, Bengaluru, Karnataka 560085 Email : keshavanbk@pes.edu Telephone (office): 9449867801	
Subject Experts from outside the college, VTU nominee (01)	1	Dr. V.Muralidhar, Professor, EEE Dept, BNMIT, Banashankari, Bangalore- 560070, M : 9845307880 E-mail: v.muralidhara.1952@gmail.com	<i>V. Muralidhar</i>
Representative from Industry/Corporate Sector/Allied area relating to placement, to be nominated by the Academic Council	1	Mrs. Sandhya Rani.S.R, Senior, DGM Central Development & Engineering Power Supply, BEL, Jalahalli Bengaluru -560 013. M : 9449047650. sandhyaranisr@bel.co.in	
Postgraduate meritorious alumnus, to be nominated by the principal. (preferably with Ph.D and experience of more than 10 years)	1	Mr. Prasad Ranga ABB, Plot No. 4A, 5&6, 2 nd Phase Peenya Industrial Area, Bengaluru -560 058. Ph: 9901414285. Email: prasad.ranga@in.abb.com	
Special Invitee (Industry)	1	Dr. N.Vasudev, Joint Director, HV Division, CPRI, Bangalore- 560080 Emailed: vasu@cpri.in. Mobile: 9845379043	
Special Invitee (Academia), Specific for PG BOS	1	Dr. B.V.Perumal, Professor, NITK, Surathkal. Email: byperumal@nitk.edu.in, Mobile: 9980861389	<i>R.N. Nandihalli</i>



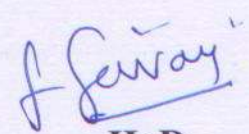
RV College of Engineering, Bangalore

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Action Taken for 19th BoS meeting held on 06th July 2018 in HOD chamber, EEE Department

S.No.	Agenda	External BoS member comments	Action Taken
1.	2018 scheme – First year Basic Electrical Engineering syllabus	Dr. Muralidhar (i) suggested to include topics <i>mesh current analysis</i> along with Kirchoff's law in DC circuit (ii) Instead of only R-L-C should be changed to R-L-C series only. (iii) Suggested to add three phase synchronous generators: types, construction and principle of operation.	As per the BoS member advise the suggested topic is included in the Unit-1 for the course <i>18EE13/23</i> . Further the wordings RLC series has been included in the unit-2. Finally in unit-3 the synchronous generators topic added.
			The topic is added in Unit-4.
		Dr. Keshavan Suggested to include RL load for the phasor diagram under single phase transformer.	As per the suggestion the phasor diagram topic is included in Unit-3.
		Dr. Rudrana Nandihalli Suggested to rename a topic " <i>Principle and operation of single phase induction motor</i> " to <i>Principle and operation of Capacitor start run</i> ".	As per the suggestion the topic name is changed in Unit-3.
	Dr. Uma Rao	As per the BoS member comments the case study in Unit-4 and 5 are removed for the course "Smart Grid Technology".	


BoS Coordinator


HoD

Prof. & Head
Department Electrical &
Electronics Engineering
R.V. College of Engineering
Bengaluru-560 059

Proceedings of the BOS meeting held on 18-08-2018.

This meeting was arranged to discuss the finalization of PG syllabus for 2018.

Members present

1. Dr. Jayapal R
2. Dr. Rudrannan Nandihalli
3. Prof. K V Banninathaya
4. Dr. K Uma Rao
5. Prof. Dr. V.Muralidhara
6. Dr. M.N. Dinesh
7. Dr. U J Shenoy
8. Dr. S G Srivani
9. Dr. A. Sreedevi
10. Prof.C. Sunanda
11. Prof. C Suresh
12. Prof. J N Hemalatha
13. Dr.V Prema
14. Prof. Raja vidya.
15. Prof. B.S.Sudarshan.

Members absent

1. Dr. N.Vasudev
2. Mrs Sandhya Rani
3. Dr. Keshavan B K
4. Mr. Prasad Ranga

The meeting started at 10.30 a.m on 18th August 2018 at chambers of Prof. & Head, EEE department with a welcome to all the BOS members by chairman BOS, Dr.Rudranna Nandihalli. The chairman read the following agenda of the meeting:

AGENDA

1. Finalization of 2018 scheme for 88 credits
2. Finalization of I and II sem PG (Both Theory and Lab)
3. Any other matter.

The scheme of 2018 batch was discussed and the following changes were suggested.

- After welcoming all the BOS members, The Chairman- BOS, showed the scheme (Both Theory and Lab) to the BOS members.
- Discussion was done on the topics suggested for mathematics.
- Under the I sem scheme Audit course was introduced with no credit. Prof . K.V. Banninathaya and Prof. Muralidhara objected it and questioned about accounting of the course having without any credit, and told not to show in the scheme if it is not mandatory.
- Prof.R.Jayapal told passing of this Audit course is compulsory based on only CIE.
- Finally Prof. Uma madam justified that it has only 2Hrs of teaching, shown in the time table with only CIE and but no credits.

- Discussion was also carried to make interdisciplinary subjects as audit courses.
- Dr. Murallidhar suggested that PG students can be given 1 or 2 Hrs teaching, to consider as Audit course.
- Dr. Dinesh told NPTEL course can also be consider for audit course.
- L:T:P: (Lecture: Tutorial: Practical) credits for the subject Power converters-I and MSPES has to be reviewed.
- 18xxx18x audit course –course code needs to be changed and 18xxx29x code needs to be revised.
- Under 2nd sem scheme there are 7 subjects with 25 credits. Dr. srivani madam suggested to remove few subjects from 2nd sem and to add in other semester.
- Prof KVB sir suggested to remove any one of the elective subject and increase no of credits to mini project.
- Dr. Dinesh sir pointed in the 3rd semester scheme sl. No 1,2,4 (3 is missing) and 18xxx33 code is missing.
- Self study (s) column to be removed.
- In the second semester scheme elective one group subject DSP applications to drives is interchanged with third group subject Embedded systems.

After this The Chairman- BOS, displayed the draft copy of the syllabus and the following changes in the syllabus are suggested the same was finalized after long deliberations.

Power converter-I : Dr. Murallidhar suggested to add industrial applications to all the 5 units in the subject and to mention about latest technologies. He also suggested, Industrial Application should be made as one of the course subject. Dr. U J Shenoy suggested to include the drives topics. Embedded control and digital control for power electronics were suggested. Dr. srivani madam suggested to include text book containing lab related topic as one of the reference book.

Control of AC-DC drives: Dr. Murallidhar suggested to make the topic as “overview of drives”, instead of fundamentals of drives. Dr. srivani madam also suggested to make it as “introduction to drives” as heading for unit 1. Dr. U J Shenoy suggested for unit-3 detailed syllabus should be displayed. Prof. K.V. Bannintheya and Murallidhar suggested to include hands on experiments of theory for the laboratory.

Advanced Control System: The topics of the subject were justified to have included discrete control systems by Dr. sreedeivi.

Intelligent control of drives: Number of reference books are to be reduced to 4.

DSP Application to drives: unit-1 syllabus was justified. Unit-3 syllabus includes analog ports and it was justified. Exercise are to be included.

Power Quality problems and mitigation: No specific suggestion were given .Dr. murallidhar told to discuss about the solar inverter application.

Smart grid – technology, analysis: Dr. Murallidhar suggested smart grid is basically power system and the title is very vast so make it specific only to power electronics. Dr. U J Shenoy advised to introduce introduction to micro-grid and Islanding in one of the unit. He also suggested to give mini project based on micro-grid, and ask the students to develop controllers and interconnection for Islanding.

Power converter II:- Suggestions were given to emphasize the application and lab experiments should be made innovative.

MSPES:- No specific suggestions were given

EMC: Dr. Uma suggested to include grounding & reframe the syllabus.

PWM Techniques: The subject title was changed to “PWM Techniques for converters”

Embedded systems: Dr. Dinesh and Dr.sreedevi suggested to completely change the unit 1 and asked to replace it with ARM processor. Also suggested to elaborate unit 4 and 5. It was suggested to swap this elective with DSP application to drives.

Converter for wind and Solar: Rearrange unit-1 specific to converters for wind and solar. The number of reference books are to be restricted to 4.

Hybrid Electric Vehicles: Dr.Jayapal suggested to reframe unit 1 and ask to remove topics that are already covered in core subject and also to include case study during teaching.

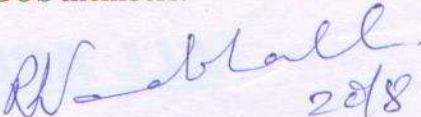
PLC and SCADA: subject name has to be modified. Unit2 title is to be changed to “implementation of gates through PLC. Dr. sreedevi suggested to make the same subject with modified name as PLC and I.O.T can be made as Global elective.

After this BOS members were asked give general suggestion.

Suggestion from Prof. Muralidhar:

- Allow PG students to handle UG labs / part of UG course.
- Average coverage per class to be restricted to 4 pages from standard textbooks.
- Include more application in depth for the courses.

The meeting was concluded by proposing thanks to all BOS members.


28/8

Dr. Rudranna Nandihalli
Chairman BOS, EEE Department.



ELECTRICAL & ELECTRONICS ENGINEERING RVCE <hod.ee@rvce.edu.in>

BoS meeting for the approval of PG III & IV sem 2018 scheme and syllabus on 4th June at 10.30 am

10 messages

ELECTRICAL & ELECTRONICS ENGINEERING RVCE <hod.ee@rvce.edu.in> Sun, Jun 30, 2019 at 5:39 PM

To: keshav murthy <profvkm@yahoo.com>, sandhyaranisr@bel.co.in, bvperumal@nitk.edu.in, "Himajit Aithal (RBE/ETS)" <himajit.aithal@in.bosch.com>, v.muralidhara.1952@gmail.com, rash_mysore@yahoo.com

Respected Sirs / Madam ,

The meeting of the Board of studies is planned to convene on 4th June 2019 at 10.30 am in the EEE Department, RV college of Engineering, Bangalore for the approval of PG III & IV sem 2018 scheme and syllabus. Your contribution and suggestions to the modification/ framing of the syllabus for the benefit of the students is highly appreciated. Request all the BOS members to make it convenient to attend. The framed syllabus and scheme of 2018 of PG is attached for your kind reference.

Kindly acknowledge your participation

--

With Regards
 Dr.Rudranna N.
 Professor, Associate Dean and Head
 Department of Electrical and Electronics Engineering
 RVCE, Bangalore-59
 Mob:9483823507 or 08067178049(off)

2018-Power Electronics_scheme_III-IVsem.docx
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Himajit Aithal (RBE/ETS) <Himajit.Aithal@in.bosch.com> Sun, Jun 30, 2019 at 5:48 PM

To: ELECTRICAL & ELECTRONICS ENGINEERING RVCE <hod.ee@rvce.edu.in>

Hello Sir,

Good Evening!

Could you kindly confirm the date?

Best regards,

Aithal Himajit
RBE/ETS

Tel. +91 80 6136-1963

[Quoted text hidden]

ELECTRICAL & ELECTRONICS ENGINEERING RVCE <hod.ee@rvce.edu.in> Sun, Jun 30, 2019 at 5:55 PM

To: keshav murthy <profvkm@yahoo.com>, sandhyaranisr@bel.co.in, bvperumal@nitk.edu.in, "Himajit Aithal (RBE/ETS)" <himajit.aithal@in.bosch.com>, v.muralidhara.1952@gmail.com, rash_mysore@yahoo.com

PG



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 RSST website:
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DATE : 04.07.2019

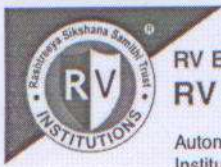
BoS Meeting for M Tech (Power Electronics)- 04.07.2019
 Attendance of BoS members

Structure	Sl.No	Name	Signature
Chairman	1	Dr. Rudranna Nandihalli Prof. & Head, EEE Department	<i>R.R. Nandihalli</i> 04/07/19
Faculty members at different levels covering different specialization-Nominated by Academic council	1	Dr.K.Uma Rao Professor, EEE Department	<i>AB.</i>
	2	Dr.S.G.Srivani Associate Professor, EEE Department	<i>Sivani</i> 4/7/19
	3	Dr. Dinesh.M.N Associate Professor, EEE Department	<i>Dinesh</i> 4/7/19
	4	Dr. A. Sreedevi Associate Professor, EEE Department	<i>A.S.</i> 4/7/19
	5	Smt. Hemalatha J N Assistant. Professor, EEE Department	<i>Hemalatha JN</i> 4/7/19
	6	Dr.Prema V Assistant Professor, EEE Department	<i>Prema</i> 4/7/19
Special Invitee	1	Sri. K. Vasudeva Baninthaya Associate Professor, EEE Department	<i>K. Vasudeva</i> 4/7/19
Subject Experts from outside the college to be nominated by the Academic Council	1	Dr.B.V.Perumal Professor NITK Surathkal. Email Id:bvperumal@nitk.edu.in, Mobile: 9980861389	<i>AB.</i>
	2	Sri. V. Keshava Murthy Professor, Dept of EEE Dr. Ambedkar Institute of Technology Near Jnana Bharathi Campus Bengaluru- 560056 Phone: +91 802 3211 505/506/507 Mobile No: 9449039464 Email Id: profvkm@yahoo.com	<i>V.K.M.</i>
Subject Expert	1	Dr. V.Muralidhar Professor, EEE Dept, BNMIT Banashankari Bangalore-560070 M : 9845307880 Email Id: v.muralidhara.1952@gmail.com	<i>V. Muralidhar</i> 04.07.19

Subject Experts from outside the college, VTU nominee	2	Dr. Rashmi HoD of EEE Dept SIT Tumakuru Mobile: 9740110576 Email Id: hodceesit@gmail.com	Rose 04/07/19
Representative from Industry/Corporate Sector/Allied area relating to placement, to be nominated by the Academic Council	1	Mrs. Sandhya Rani.S.R Senior, DGM Product Development & Innovative Centre, BEL, Jalahalli Bengaluru -560 013. M : 9449047650. Email Id: sandhyaranisr@bel.co.in	AB
Postgraduate meritorious alumnus, to be nominated by the principal. (preferably with Ph.D and experience of more than 10 years)	1	Sri. Himajit Aithal Specialist RBE/ETS 123, Industrial Layout Hosur Road Koramangala Bengaluru - 560095 Phone: 9731823324 Email Id: himajit.aithal@in.bosch.com	AB

R.N. Nandiballi
04/07
Dr. Rudranna Nandiballi
Prof. & Head, Dept of EEE

Prof. & Head
Department Electrical
Electronics Engineer
P.V. College Engineering
Bangalore - 560059



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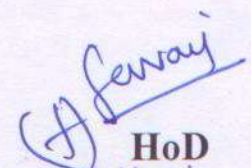
RV College of Engineering, Bangalore

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

Action Taken for 20th BoS meeting held on 18th August 2018 in HOD chamber, EEE Department

S.No.	Agenda	External BoS member comments	Action Taken
1.	PG 2018 scheme I & II Semester courses	The topics of the subjects were justified to have included discrete control system.	According to the comment two units (1 & 2) regarding discrete control systems topic is included.
		The title for the course "PWM Techniques" to be modified as " <i>PWM Techniques for Power converters</i> "	The title is changed accordingly
		Suggested to include topic on " Grounding " in the course EMC.	According to the comment a unit has been added in the course on the topic grounding.
		PLC and SCADA title should be modified	The title has been modified to " <i>Programmable Logic Controller and SCADA</i> "


BoS Coordinator


HoD
Prof. & Head
Department Electrical &
Electronics Engineering
R.V. College of Engineering
Bengaluru-560 059

Date:05-07-2019

Minutes of Meeting of BoS held on 04-07-2019 at 10.30 am to discuss following agendas

Agenda No. 38) 2018 scheme PG III sem and IV sem scheme and syllabus discussion

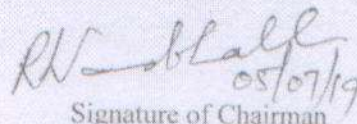
39) Any other matters

The chairman of welcomed BoS members of EEE department.

Review of minutes of the previous BoS meeting.

- In case of 18HSS16, Professional skill Development of Program, credits have been marked as zero. Prof.VKM suggested that CIE is evaluated, credits need to be allotted for the course.
Action /Reply: It is audit course, hence credits mentioned as zero.
- Prof. VKM suggested that for electives Advanced Control and Intelligent Control system the syllabus should include the control systems used specifically for Power Electronic Converters. This need to be considered in the next revision of the syllabus.
- BoS members opinioned that a global elective can be offered from EEE department also like HEV or PLC
- In the course PLC and Scada, SCADA unit is taken from ref. no.4. It would be better that ref is put as 2. The order of reference need to be changed.
Action- Change is made
- In HVDC, the reference book need to be changed to Kim, which is comparatively new book with latest technology.
Action-Suggestion is under consideration.
- The course equivalent of UG and PG, was presented and approval is taken in BoS.
- List of BoE members is approved in meeting.

With this BoS meeting was concluded with thanking all BoS members by the Chairman.


05/07/19

Signature of Chairman
(Dr.Rudranna Nandihalli)

Prof. S. Hussain
Department Electrical
Electronics Engineering
R.S. College Engineering
Bangalore - 560 079



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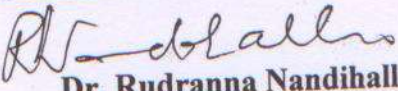
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www.rvce.edu.in
 RSST website :
www.rvinstitutions.com

DATE: 22.02.2020

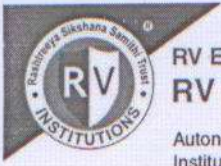
Attendance of 22nd BOS (UG) Meeting held on 22/2/20

Structure	Sl.No	Name
Chairman	1	Dr. Rudranna Nandihalli Prof. & Head, EEE Department <i>R.N. Nandihalli</i>
Faculty members at different levels covering different specialization- Nominated by Academic council(05)	1	Dr.K.Uma Rao Professor, EEE Department <i>K.Uma Rao</i>
	2	Dr.S.G.Srivani Associate Professor, EEE Department <i>S.G. Srivani</i>
	3	Dr. Dinesh.M.N Associate Professor, EEE Department <i>D. Dinesh M.N</i>
	4	Dr. A. Sreedevi Associate Professor, EEE Department <i>A. Sreedevi</i>
	5	Smt. Hemalatha J N Assistant. Professor, EEE Department <i>Hemalatha JN</i>
	6	Dr.Prema V Assistant Professor, EEE Department <i>Prema V</i>
	7	C.Sunanda Assistant. Professor, EEE Department <i>C. Sunanda</i>
Special Invitee	1	Sri. K. Vasudeva Baninthaya Associate Professor, EEE Department
Subject Experts from outside the college to be nominated by the Academic Council (02)	1	Dr.B.V.Perumal Professor NITK Surathkal. Email Id:bvperumal@nitk.edu.in, Mobile: 9980861389 <i>B.V. Perumal</i>
	2	Sri. V. Keshava Murthy Professor, Dept of EEE Dr. Ambedkar Institute of Technology Near Jnana Bharathi Campus Bengaluru- 560056 Phone: +91 802 3211 505/506/507 Mobile No: 9449039464 Email Id: profvkm@yahoo.com <i>V. Keshava Murthy</i>
	3	Dr. V.Muralidhar Professor, EEE Dept, BNMIT Banashankari Bangalore-560070 M : 9845307880 Email Id: v.muralidhara.1952@gmail.com <i>V. Muralidhar</i> 22.02.2020

Subject Experts from outside the college, VTU nominee	1	<p>Dr. Rashmi HoD of EEE Dept SIT Tumakuru Mobile: 9740110576 Email Id: hodeeesit@gmail.com</p> <p style="text-align: right;"><i>Absent</i></p>
Representative from Industry/Corporate Sector/Allied area relating to placement, to be nominated by the Academic Council	1	<p>Dr. Hariram Satheesh Principal Scientist Corporate Research Center ABB Phone: 9945507091 Email Id: hariramsatheesh@ieee.org</p> <p style="text-align: right;"><i>H.R.</i></p>
Postgraduate meritorious alumnus, to be nominated by the principal. (preferably with Ph.D and experience of more than 10 years)	1	<p>Sri. Himajit Aithal Specialist RBEI/ETS 123, Industrial Layout Hosur Road Koramangala Bengaluru - 560095 Phone: 9731823324 Email Id: himajit.aithal@in.bosch.com</p> <p style="text-align: right;"><i>Absent</i></p>


Dr. Rudranna Nandihalli
Prof. & Head, Dept of EEE

Prof. & Head
Department Electrical
Electronics Engineer
R.V, College Engineering
Bangalore - 560 059



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RV College of Engineering, Bangalore

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

Action Taken for 21st BoS meeting held on 04th July 2019 in HOD chamber, EEE Department

S.No.	Agenda	External BoS member comments	Action Taken
1.	PG 2018 scheme III Semester courses	The order of reference books for the course " <i>Programmable Logic Controller and SCADA</i> " should be changed.	According to the comment the ordering has been modified.

BoS Coordinator

HoD

Prof. & Head
Department Electrical &
Electronics Engineering
R.V. College of Engineering
Bengaluru-560 059

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ENGINEERING



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 Mysuru Road,
 Bengaluru-560 059

Minutes of BOS meeting held on 22.02.2020

Structure	Sl No	Name	Attendance
Chairman	1	Dr. Rudranna Nandihalli Prof. & Head, EEE Department	Present
Faculty members at different levels covering different specialization- Nominated by Academic council	1	Dr.K.Uma Rao Professor, EEE Department	Present
	2	Dr.S.G.Srivani Associate Professor, EEE Department	Present
	3	Dr. Dinesh.M.N Associate Professor, EEE Department	Present
	4	Dr. A. Sreedevi Associate Professor, EEE Department	Present
	5	Smt. Hemalatha J N Assistant. Professor, EEE Department	Present
	6	Dr.Prema V Assistant Professor, EEE Department	Present
	7	C.Sunanda Assistant. Professor, EEE Department	Present
Special Invitee	1	Sri. K. Vasudeva Baninnthaya Associate Professor, EEE Department	Present
Subject Experts from outside the college to be nominated by the Academic Council	1	Dr.B.V.Perumal Professor, NITK, Surathkal.	Present
	2	Sri. V. Keshava Murthy Professor, Dept of EEE Dr. Ambedkar Institute of Technology	Present

Subject Experts from outside the college, VTU nominee	1	Dr. V.Muralidhar Professor, EEE Dept, BNMIT	Present
	2	Dr. Rashmi HoD of EEE Dept SIT	Absent
Representative from Industry/Corporate Sector/Allied area relating to placement, to be nominated by the Academic Council	1	Dr.Hariram Satheesh Principal Scientist Corporate Research Center ABB	Present
Postgraduate meritorious alumnus, to be nominated by the principal. (preferably with Ph.D and experience of more than 10 years)	1	Sri. Himajit Aithal Specialist RBEI/ETS	Absent

The BOS meeting held on 22nd Feb 2020 between 10AM to 12.30PM to finalize the syllabus of 5th and 6th sem 2018 scheme.

The Chairman of the BoS meeting welcomed all the members and introduced them to each other

The minutes of the meeting are listed below

1. Prof. V Keshava Murthy suggested to send the hardcopy of the syllabus to the BOS members.
2. Prof Perumal questioned about the offering electric vehicles as a course: Members suggested that it is the current trend in the field of automobiles and AICTE recommends to offer such courses in the curriculum.
3. Prof V Keshava Murthy suggested to prepare the syllabus for all the courses for which the BOS meeting called for.
4. Title of the courses must be expanded. (Ex Fuzzy Logic Controller & applications)
5. For the global elective course "Energy Auditing and management" VTU reference on that course can be taken. Members appreciated about the course as of now certified auditors are less and it can provide employment.
6. With reference to the online electives members suggested to have one mentor to monitor and evaluate the performance. College has to frame policy, modality about the online courses.

7. Prof Perumal opinioned the coverage of syllabus is good from students perspective to take up majority of exams like GATE, IES etc.,
8. Members suggested not to give exclusive number of hours for each unit in the syllabus. It can be shown appropriately in the lesson plan.
9. In Generation, transmission and distribution bring in HTS conductors as the conventional conductors are getting replaced in unit 2. If possible to add mechanical design aspects in unit 1 rather in unit 3 to have proper flow.
10. 18HEM 51/61 to be changed as 18HEM 51
11. Remove the word Analysis in the course Electrical Machines.
12. Trademark for the Bengaluru pin code to be removed.
13. To maintain same terminology everywhere as in some places given as open elective for global elective.
14. Check the *** representation in the entire scheme.
15. Elective IOT in power system is very premature in 6th sem can it be changed to sensors and IoT.
16. Members suggested to have one communication course.
17. For every course objectives to be verified for each course and correlated with outcomes.
18. To remove magnetic loading in unit 5, add switched reluctance motor, use flux software to design special machines.
19. To add new experiments in Power electronics lab like to measure reactive power, real power, power factor measurement, gate driver circuits, design of inductors.
20. Members summed up the meeting suggesting that a particular course should be taught by the same faculty minimum 4 times to get good knowledge.
21. Modern control theory to add one unit of discrete control system

Chairman concluded the meeting
by thanking all BOS members

R.N. Nandihalli
24/10/20
Dr. Rudranna Nandihalli
Prof. & Head, Dept of EEE

Prof. & Head
Department Electrical
Electronics Engineer
R.V. College Engineering
Bangalore - 560 059



BoS meeting online or offline

ELECTRICAL & ELECTRONICS ENGINEERING RVCE <hod.ee@rvce.edu.in> Fri, Dec 4, 2020 at 2:15 PM
 To: keshav murthy <profvkm@yahoo.com>, bvperumal@nitk.edu.in, "Himajit Aithal (RBEI/ETS)" <himajit.aithal@in.bosch.com>, Muralidhara V <v.muralidhara.1952@gmail.com>, rashmi balu <rash_mysore@yahoo.com>, umaraok@rvce.edu.in, "Srivani S.G." <srivanisg@rvce.edu.in>, "Dinesh M.N." <dineshmn@rvce.edu.in>, sreedevia@rvce.edu.in, "Hemalatha J.N." <hemalathajn@rvce.edu.in>, hariramsatheesh@ieee.org, Jyothi R <jyothir@rvce.edu.in>, "Sunanda C." <sunandac@rvce.edu.in>, "Chayapathi V." <chayapathiv@rvce.edu.in>, "Anitha G.S." <anithags@rvce.edu.in>, rajavidya@rvce.edu.in, sushmitasarkar@rvce.edu.in, "Adinatha Mr." <adinatha@rvce.edu.in>, "Suresha C." <sureshac@rvce.edu.in>, Sharath B <sharathb@rvce.edu.in>

Esteemed BoS members and faculty members,

Hope all of you are safe and keeping good health under this Covid pandemic situation.

The Electrical and Electronics Engineering Department would like to conduct a BoS meeting, to discuss the following agendas. The meeting will be conducted in combination with offline and online (Hybrid). I will be more happy if you attend offline depending on your convenience. The meeting starts at 10.30 am on 08-12-2020 Tuesday.

Agendas:

- 1) Previous semester Result Analysis
- 2) Inputs for implementation NEP
- 3) Any other matters.

Kindly confirm your participation by online or offline. The link is as follows

Awaiting useful contribution from the members.

Dec 8 Tue	BoS Meeting Dec 2020 View on Google Calendar	Agenda Tue Dec 8, 2020
	When Tue Dec 8, 2020 10:30am – 7:30pm (IST)	<i>No earlier events</i>
	Where https://rvce.webex.com/rvce/j.php?MTID=m21eb473208c369fc53ec20f7e7deb03f	10:30am BoS Meeting Dec 2020
	Who Cisco Webex*	<i>No later events</i>
	Yes Maybe No	
	More options	

With Regards

Dr.Rudranna N.

Professor and HoD

Department of Electrical and Electronics Engineering

RVCE, Bangalore-59

Mob:9483823507 or 08067178049(off)



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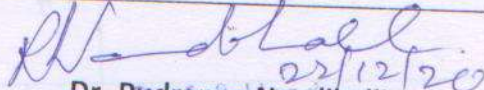
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 Bengaluru-560 059

Approved by All India Council for Technical Education, New Delhi,
 affiliated to Visveswaraiah Technological University, Belgaum,
 Karnataka accredited by the National Board of Accreditation, New
 Delhi

List of Board of Studies members for 2019-21

Structure	Sl.No	Name	Attendance
Chairman	1	Dr. Rudranna Nandihalli Prof. & Head, EEE Department	<i>R. Nandihalli</i>
Faculty members at different levels covering different specialization-Nominated by Academic council(05)	1	Dr.K.Uma Rao Professor, EEE Department	<i>K. Uma Rao</i> 9/12/20
	2	Dr.S.G.Srivani Associate Professor, EEE Department	<i>Srivani</i> 9/12/20
	3	Dr. Dinesh.M.N Associate Professor, EEE Department	<i>Dinesh M.N</i>
	4	Dr. A. Sreedevi Associate Professor, EEE Department	<i>A. Sreedevi</i> 9/12/20
	5	C.Sunanda Assistant. Professor, EEE Department	<i>C. Sunanda</i>
Invitees (Based on the request from BOS members)	1	Dr.V.Chayapathy Associate Professor, EEE Department	<i>V. Chayapathy</i>
	2	Dr. Anitha.G.S Associate Professor, EEE Department	<i>Anitha G.S</i>
	3	Dr. J.N.Hemalatha Assistant Professor, EEE Department	<i>Hemalatha</i>
	4	Dr. Madhu. B.R Assistant Professor, EEE Department	<i>Madhu B.R</i>
	5	Smt. Jyothi. R Assistant Professor, EEE Department	<i>Jyothi R</i>
	6	Smt. Sushmita Sarkar Assistant Professor, EEE Department	<i>Sushmita Sarkar</i>
	7	Smt. Raja Vidya Assistant Professor, EEE Department	<i>Raja Vidya</i>

Subject Experts from outside the college to be nominated by the Academic Council	1	Dr.B.V.Perumal Professor NITK, Surathkal. Email Id: bvperumal@nitk.edu.in, Mobile: 9980861389	online on 10/09/20
	2	Sri. V. Keshava Murthy Professor, Dept of EEE Dr. Ambedkar Institute of Technology Academic Advisor Near Jnana Bharathi Campus Bengaluru - 560056 VTU, R.O, Phone: +91 802 3211 Bengaluru 505/506/507 Mobile No: 9449039464 - 560091 Email Id: profvkm@yahoo.com	V. Venkatesh
	3	Dr. V.Muralidhar Professor, EEE Dept, BNMIT Banashankari Bangalore-560070 M : 9845307880 Email Id: v.muralidhara.1952@gmail.com	G. Hualidhar 09/12/20
Subject Experts from outside the college, VTU nominee	1	Dr. Rashmi HoD of EEE Dept SIT Tumakuru Mobile: 9740110576 Email Id: hodeeesit@gmail.com	online
Representative from Industry/Corporate Sector/Allied area relating to placement, to be nominated by the Academic Council	1	Dr. Hariram Satheesh Principal Scientist Corporate Research Center ABB Phone: 9945507091 Email Id: hariramsatheesh@ieee.org	Absent
Postgraduate meritorious alumnus, to be nominated by the principal. (preferably with Ph.D and experience of more than 10 years)	1	Sri. Himajit Aithal Specialist RBEI/ETS 123, Industrial Layout Hosur Road Koramangala Bengaluru - 560095 Phone: 9731823324 Email Id: himajit.aithal@in.bosch.com	online


 Dr. Rudrana Nandihalli
 Prof. & Head, Dept of EEE
 Electronics Engineer
 R.V. College Engineering
 -Bangalore - 560 059



DATE: 21.12.2020

Minutes of Meeting of 23rd BOS held on 09.12.2020

Proceedings of the 23rd BOS meeting held on 09-12-2020. Due to COVID-19 meetings was held online (Hybrid)/offline.

Structure	Sl No	Name	Online/Offline	Attendance
Chairman	1	Dr. Rudranna Nandihalli Prof. & Head EEE Department	Offline	Present
Faculty members at different levels covering different specialization- Nominated by Academic council	1	Dr.K.Uma Rao Professor EEE Department	Offline	Present
	2	Dr.S.G.Srivani Associate Professor EEE Department	Offline	Present
	3	Dr. Dinesh.M.N Associate Professor EEE Department	Offline	Present
	4	Dr. A. Sreedevi Associate Professor EEE Department	Offline	Present
	5	C.Sunanda Assistant. Professor EEE Department	Offline	Present
Invitees (Based on the request from BOS members)	1	Dr.V.Chayapathy Associate Professor EEE Department	Offline	Present
	2	Dr. Anitha.G.S Associate Professor EEE Department	Offline	Present
	3	Dr. J.N.Hemalatha Assistant Professor EEE Department	Offline	Present
	4	Dr. Madhu. B.R Assistant Professor EEE Department	Offline	Present



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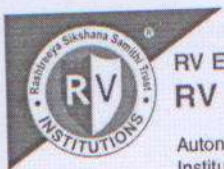
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And NBA, New Delhi

**DEPARTMENT OF ELECTRICAL
&
ELECTRONICS ENGINEERING**

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Bengaluru-560059

	5	Smt. Jyothi. R Assistant Professor EEE Department	Offline	Present
	6	Smt. Sushmita Sarkar Assistant Professor EEE Department	Offline	Present
	7	Smt. Raja Vidya Assistant Professor EEE Department	Offline	Present
Subject Experts from outside the college to be nominated by the Academic Council	1	Dr.B.V.Perumal Professor, NITK, Surathkal.	Online	Present
	2	Sri. V. Keshava Murthy Professor, Dept of EEE Dr. Ambedkar Institute of Technology	Online	Present
	3	Dr. V.Muralidhar Professor, EEE Dept BNMIT	Online	Present
Subject Experts from outside the college, VTU nominee	1	Dr. Rashmi HoD of EEE Dept SIT	Online	Present
Representative from Industry/Corporate Sector/Allied area relating to placement, to be nominated by the Academic Council	1	Dr.Hariram Satheesh Principal Scientist Corporate Research Center ABB		Absent
Postgraduate meritorious alumnus, to be nominated by the principal. (preferably with Ph.D and experience of more than 10 years)	1	Sri. Himajit Aithal Specialist RBEI/ETS	Online	Present



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

Action Taken for 22nd BoS meeting held on 22nd February 2020 in HOD chamber, EEE Department

S.No.	Agenda	External BoS member comments	Action Taken
1.	UG 2018 scheme V and VI Semester courses	For global elective course " <i>Energy Auditing and Management</i> " can be taken	According to the suggestion the course has been introduced as global elective from the department in the VI semester.
		Suggested to remove the word " <i>Analysis</i> " from the title " <i>Electrical Machines</i> ".	According to the suggestion the analysis has been removed from the title for the course Electric Machines under 5 th Semester.


BoS Coordinator


HoD

Prof. & Head
Department Electrical &
Electronics Engineering
R.V. College of Engineering
Bengaluru-560 059



The meeting was conducted in combination with offline and online (Hybrid).
The meeting started at 10.30 am on 09-12-2020. **The members joined offline have maintained social distance and wearing mask.**

Dr. Perumal B V attended online on **10-12-2020**

1. The meeting started at chambers of Prof. & Head, EEE department, with a welcome to all the BOS members and the faculty members by chairman of BOS, Dr. Rudranna Nandihalli
2. All the faculty members were invited to get the opinion regarding NEP implementation as per the request of BOS members.

The chairman read the following agenda of the meeting:

AGENDA

- Previous semester Result Analysis
- Inputs for implementation NEP
- Any other matters.

Hod started with result analysis with UG & PG he started with second semester result analysis of Basic electrical Engineering and EEP lab and pass percentage was displayed, similarly 4th sem, 6th sem, 8th sem UG student pass percentage was displayed.

Similarly PG Result analysis had been displayed, according to this second semester PG result was around 94.1% to 100%.

Next agenda is NEP implementation.

1. Regarding this HOD read about our department views regarding implementation of NEP which was framed by Dr. Uma Rao, after conducting meeting with faculty members on 24-11-2020. Which include following points
 - **Outcome Based Education with focus on experiential learning**
 - **Skill Based Training for problem solving through Industry-Institute – Interaction**
 - **Social sciences/Humanities and Sustainable Development Goals**
 - **Research promotion**
 - **Extra – Curricular and Co-Curricular activities**
 - **Helping the community**



Dr. Uma Rao has suggested two more points

- Implementation of internship Training, such as visiting local industry and collect the list of potential project.
- Assessment studies should be made based on their undergone or not internship training and collect student's feedback also.
- Himajith and Uma Rao expressed their opinion regarding experiential learning, and suggested to add mooc courses, open books exams, (application aspects), target all kind of students so that it is difficult to score .
- Himajith and Uma Rao expressed to have Projects using Aurdino, RaspBerry Pi and Himajith suggested how it is implemented is a question mark
- Himajith opinioned that Projects should cover all kind of 60 students, sending the student to industries two days a week over a period of two weeks. Without time bond
- Some members suggested for Open-ended project can be given to student with respect to helping people (for eg developing walking stick for Elderly people)
- Skilled development project without time bond will leave to fruit full work, Prof. V. Keshavamurthy proposed and depending upon the student ability it can be grouped under their interest Dr Uma Rao madam acknowledged the suggestions.
- Himajith expressed concern that how the students are going to take.
- Dr. uma madam suggested Student must also be apart of discussion .
- Prof. V. Keshava Murthy proposed developing an APP or any innovative should not be restricted to particular field, it should be a open field (learning is more important and thinking ability should given higher priority) and freedom should be provided to students to choose his topic for experiential learning for every course.
- Dr. MN Dinesh suggested evaluating student is difficult task and it should be discussed most of the subject to be connected to the lab, and how to gear the teachers is a task.
- Dr. Chayapathy suggested APP development by the student should not mean to get the readymade APP by searching internet but it should involve analysis, design, coding and testing and it should be customize APP.

In any other matter

The following points suggested by Dr. Keshava Murthy

1. Basic electrical subject for 1st year has 3 credit for this 40 hours should be shown including tutorial and in the result analysis CIE and SEE grades should be almost same.
2. Skilled development should include mini project, practical, assignment, group discussion etc,
3. With respect lesson plan for the outcome base education committee should be made to analyze this and lesson plan should highlight these topics



4. He also suggested domestic wiring topic from the 1st year syllabus should be removed instead of that electric power should be implemented
5. Mentors for faculty is required.
6. For 2nd year student usage of Aurdino, RaspBerry Pi might be tough .
7. Student Innovation fund should be there for department level.
8. Subjects like neuro engineering, bio engineering, photonics, digital image processing etc should be included in the syllabus

Dr. Uma Rao suggested for all subject list of all skill development can be done initially.

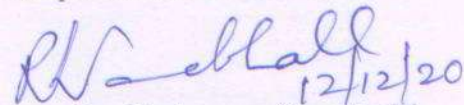
The meeting was concluded with chairman thanking all the BOS members attended on 09-12-2020.

On this day Dr.Prumal was not able to join due to some urgent official meeting. On the next day (10-12-2020) EEE department requested him to join online meeting to give his opinion or suggestions regarding implementation of NEP. He readily accepted. Even Prof. V. Keshavamurthy, also joined the online meeting.

Dr. Perumal suggested to give chance to student to carry out skill based project in his area of interest. This should be included within the syllabus with some credits.

Dr. Perumal suggested to introduce minor programs. Student has to complete program credits by taking minor courses listed in branches other than their regular branches. Suggested more branch oriented courses in 1st year. So in NIT Suratkal , 1st year courses are not common for all the branches.

The online meeting on 10-12-2020 (Thursday) was concluded. BOS chairman thanked Prof.V Keshavamurthy, Dr.Perumal and faculty members for their participation in the meeting.


12/12/20

Dr. Rudranna Nandihalli
Chairman BOS, EEE Department



BoS online meeting

ELECTRICAL & ELECTRONICS ENGINEERING RVCE <hod.ee@rvce.edu.in> Tue, Jun 1, 2021 at 8:52 AM
 To: keshav murthy <profvkm@yahoo.com>, bvperumal@nitk.edu.in, "Himajit Aithal (RBEI/ETS)" <himajit.aithal@in.bosch.com>, Muralidhara V <v.muralidhara.1952@gmail.com>, rashmi balu <rash_mysore@yahoo.com>, Uma Rao K <umaraok@rvce.edu.in>, "Srivani S.G." <srivanisg@rvce.edu.in>, "Dinesh M.N." <dineshmn@rvce.edu.in>, "Hemalatha J.N." <hemalathajn@rvce.edu.in>, Hariram Satheesh <hariramsatheesh@ieee.org>, Jyothi R <jyothir@rvce.edu.in>, "Sunanda C." <sunandac@rvce.edu.in>, "Chayapathi V." <chayapathiv@rvce.edu.in>, "Anitha G.S." <anithags@rvce.edu.in>, Raja Vidya <rajavidya@rvce.edu.in>, Sushmita Sarkar <sushmitasarkar@rvce.edu.in>, "Adinatha Mr." <adinatha@rvce.edu.in>, "Suresha C." <sureshac@rvce.edu.in>

Esteemed BoS members and faculty members,
 Good Morning,

Hope all of you are safe and keeping good health under this Covid pandemic situation.

The Electrical and Electronics Engineering Department would like to conduct a BoS meeting, to discuss the following agendas. The meeting will be conducted in online or virtual mode on **Cisco Webex Platform**. The meeting starts **at 10.30 am on 05-06-2021 Saturday**. All members are requested to make it convenient to attend.

Agendas:

- 1) Approval of scheme and syllabus of 2018, 7th and 8th sem (File enclosed for your kind reference)
- 2) NEP implementation for the next Revision of syllabus (File enclosed for your kind reference)
- 3) Credit issues of students due to scheme change from 2012 to 2016
- 4) Any other matters

Your participation and valuable contribution is highly appreciated. The online link is as follows

Jun 5 Sat	<h3>BoS Meeting</h3> <p>View on Google Calendar</p> <p>When Sat Jun 5, 2021 10:30am – 1:30pm (IST)</p> <p>Where https://rvce.webex.com/rvce/j.php?MTID=mcaf9b5f675a6d1f00033bc04c3b6bfa0</p> <p>Who Cisco Webex*</p>	
	<input type="checkbox"/> Yes <input type="checkbox"/> Maybe <input type="checkbox"/> No <input type="checkbox"/> More options	

Join from the meeting link

<https://rvce.webex.com/rvce/j.php?MTID=mcaf9b5f675a6d1f00033bc04c3b6bfa0>

Join by meeting number

Meeting number (access code): 158 086 7897

Meeting password: 12345

Thanks

With Regards

Dr.Rudranna N.

Professor and HoD

Department of Electrical and Electronics Engineering

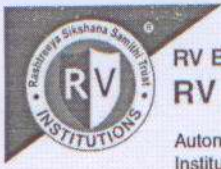
RVCE, Bangalore-59

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2 attachments

6_EE_Scheme-Syllabus VII & VIII Sem 2018 scheme_1.docx
123K

21_22_NEP_scheme.pptx
2008K



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

Action Taken for 23rd BoS meeting held on 09th December 2020

S.No.	Agenda	External BoS member comments	Action Taken
1.	-	The meeting was based on result analysis and NEP implementation. The suggestions were generalised	According to that necessary points were considered for NEP implementation.


BoS Coordinator


HoD

Prof. & Head
Department Electrical &
Electronics Engineering
R.V. College of Engineering
Bengaluru-560 059



24th BOS Online Meeting

Minutes of Meeting

Held on Saturday, **June 5th, 2021 from 10.30 AM to 1.30 PM.**

The following points were discussed in the meeting

Agenda	1.	Approval of scheme and syllabus of 2018, 7th and 8th sem.		
	2.	NEP implementation for the next Revision of syllabus.		
	3.	2021 Scheme courses		
	4.	Credit issues of students due to scheme change from 2012 to 2016.		
	5.	Any other matters		
Date, Time Venue	Saturday, JUNE 5 th , 2021	10.30AM to 1.30PM.	Online Meeting Cisco WeBex Platform	

Sl No	Name of the Internal members	Name of the External members
1.	Dr Rudranna Nandihalli	Prof V K Keshav murthy
2.	Dr K UmaRao	Dr. B V Perumal
3.	Dr. V. Chayapathi	Dr. Muralidhar
4.	Dr S G Srivani	Dr. Rashmi
5.	Dr Anitha G S	Himajit Aithal
6.	Dr M N Dinesh	
7.	C Sunanda	
8.	Dr.Hemalatha J N	
9.	C Suresha	
10.	Dr.Adinatha Jain	
11.	Dr. Madhu B R	
12.	K M Ajay	
13.	Jyothi R	



14.	Sushmitha Sarkar	
15.	Rajavidya	

The following are the details of the meeting:

The BOS meeting was conducted at 10.30 AM on 5th June 2021, in virtual mode on **Cisco WeBex Platform**. Meeting started with a welcome to all the BOS members by chairman BOS.

The meeting began with mentioning the loss of Dr. A Sridevi madam on 4th May 2021, due to covid. It was a great loss to the department, college and to their family. As a mark of respect one minute silence was dedicated to the departed soul.

Followed by this, the Chairman read the agenda of the BOS meeting.

Agenda 1. Approval of scheme and syllabus of 2018 scheme, 7th and 8th semester.

- With respect to this, the first agenda, Approval of scheme and syllabus of 2018, 7th and 8th sem. Sir presented the scheme and syllabus to the members.
- Dr. Perumal sir, suggested for HVDC subject it should be replaced by other subject like Object Oriented Modelling (OOM), as there is less opportunity for HVDC can be studied in PG program or along with other courses. Also OOM course enhance the opportunity of placement of students. Dr. Muralidhar insisted that instead of removing completely one module of HVDC can be added in subjects like HV Engineering or Generation Transmission and Distribution (GTD). Prof K Uma Rao madam and Prof V K Keshav Murthy Sir also vouched this decision.
- For PSA -2 syllabus Perumal sir, pointed that for unit 5, 7 hrs mentioned was too less and in lab experiments list experiments like beyond the syllabus must be highlighted.
- With respect to Switchgear and Protection course, involving a industry experienced and expert person in teaching some part of the syllabus. This enhance students industry exposure and requirements, also the student's skills. Thus the compatibility of students to the industry environment improves. The BoS members gave suggestions regarding methodology of teaching by industry expert. The BOS members agreed for the involvement of industry expert in teaching.
- In group E Elective, Dr. Perumal sir suggested **Communication Systems and Network** should be renamed as **Computer Communication and Network**, after glancing the syllabus content. He also enquired about the requirement of prerequisite knowledge. Regarding this, **Mr. Suresha** informed that the students already have studied **Microprocessor and Microcontroller** the core course, in the sixth semester. The knowledge gained is sufficient as a prerequisite. Mr Suresh sir, told by studying this course, students will get exposure on software implementation, and enhance students placement as per their choice or interest.
- For the smart grid elective course, Dr. Muralidhar suggested to add some simulation or hands on for the students. Dr K Uma Rao madam agreed for this.
- For Digital Protection of Power Systems, the elective course, Dr Perumal suggested to have association with industry, for this Dr. S G Srivani madam, informed to members, about consultation with ABS



electronics regarding for this course.

- Dr. Perumal suggested for **Industrial Drives and Application** to add topic like EVs, BMSM, SRM and water pumping applications in unit 4 and 5. Mr Suresha agreed for this.
- Prof V K Keshav Murthy suggested for ‘Electrical Estimation and Costing’ to add illumination and IA specifications. For this Jyothi madam agreed.
- Dr. Muralidhar suggested to include topics like energy storage, fly wheel and hydrogen energy for Renewable Energy System subject and he also expressed to change the subject name to **RENEWABLE ENERGY AND STORAGE**.
- Prof V Keshav Murthy stated for open elective no restriction should be made number of subject. He also suggested subjects like DATA Analysis, Artificial intelligence, Block chain analysis etc. should be included and faculty members should be trained to teach these subjects. But many of these courses are offered as Global elective by competitive programs. The students of the department can select any of the courses. Regarding this, central office take appropriate decisions.
- Prof V Keshav Murthy Sir, has mentioned corrections, suggestions, modifications in many courses, all the points are noted by the faculty members.

Next Agenda: Agenda 2. NEP implementation for the next Revision of syllabus

The members opined that this matter is to be taken, as this is to be implemented for the academic year 2022-23

Next Agenda: Agenda 3. 2021 Scheme UG courses

The following is the list of new courses added for UG 2021 scheme and BoS members accepted the same.

S.No.	Semester	Course Title
1	III	Linear Integrated Circuits
2		Measurement and Transducers
3		Analog Circuits
4		Programming, Data Structures and Algorithms using Python
5	IV	Business Analytics & Text Mining Modeling
6		Introduction to Operating Systems
7		Multi-Core Computer Architecture in Storage and Interconnects
9		Electric Vehicle - Power Train & Drives
10	VI	Special Electrical Machines
11		Solar and Wind Energy Systems

Next agenda of the meeting Agenda 3. Credit issues of some students due to scheme change from 2012 to 2016, were discussed and passes with the permission of BoS members.

- i) **Mr. Shashank Agarwal (USN 1RV14EE045**, Counselor: Dr K.Uma Rao) has studied courses 2012 scheme from I semester to IV semester and switched over to 2016 scheme at V semester. At present he is studying in VIII semester (academic year 2020-21). The details of credits secured semester wise is shown in the additional sheet. All together student is going to acquire 202 credits after passing VIII semester. The student requires 200 credits in order get



degree. In this regard, a request is put before BoS members to waive off one credit of HSS (IV semester) and one credit of Industry Tour (VIII semester, 16EE84). The BoS members have approved.

- ii) **Mr. Shivananda Nayak (1RV16EE410, Lateral Entry, counselor Smt. Raja Vidya)** has got admitted in the year 2015, for 2012 scheme. During 7th semester he migrated to 2016 scheme. As on now he has completed all the courses of the Program with accumulated credits of 152. But for the award of degree, 150 credits are required. The BoS members have approved to compensate excess 2 credits earned as shown in the following Taable.

semes ter	Course code with name	Actual Credits Earned	Credits Deducted	Credits Earned after deduction
VIII	Innovation and Skills (16HSS83)	02	01	01
VIII	Industrial Tour (16EE84)	01	01	00
Total credits compensated			02	

- iii. Gaurav Mishal (1RV15EE020, repeater, Counselor Dr.J.N.Hemalatha) has got admitted in the year 2015-16 for 2012 scheme. He switched over from 2012 scheme to 2016 scheme during his VII semester. The student has completed all the courses with one back log of POWER SYSTEM ANALYSIS 2 (16EE71, 5 credits) and excluding VIII semester (credits 21). At present he has earned 174 credits and is going to earned 200 credits after passing of all the courses. But, in VII sem of 2012 scheme, the course Legal Studies and Professional Ethics for Engineers (12HSC73, credits 2) was mandatory for the award of degree. This course is not studied by the student. The equivalent of this course in 2016 scheme is Constitution of India and Legal Studies for Engineers (16HSE16, credits 2) of I semester. Hence the student is required to pass **Constitution of India and Legal Studies for Engineers (16HSE16)** as Audit Course (zero credits) since it is considered as equivalent of mandatory course of 2012 scheme. For this, BoS members have agreed and suggested to take in the coming Fast track exam.

The documents of all these three students is enclosed for the kind reference.



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Next Agenda: Agenda 3. In other matters following point was discussed

- Regarding the **Industry Tour (16EE84)**, 8th semester (present on going) of 2016 scheme (01 credit), the chairman of BoS expressed his inability to arrange the tour due to Covid pandemic situation. In place of this, requested BoS members to approve the virtual visit organized by SillDzire company. Mr. Suresh explained about the virtual tour organised for the final year students i.e. present ongoing 8th semester students. All the BOS members enquired about the content and mode of conduction, assessment. After satisfactory enquiry, BoS members have approved for virtual tour in place of Industry Tour (16EE84) and appreciated for this.

Finally the meeting was concluded at 1.30 pm, by proposing vote of thanks to all BOS members and faculty members for their un-tiring effort in framing syllabus.

Dr. Rudrannan Nandihalli
Chairman BOS, EEE Department.



Webex meeting reminder: BOS-Meeting

messenger@webex.com <messenger@webex.com>

Fri, Mar 11, 2022 at 9:46 AM

Reply-To: hod.ee@rvce.edu.in

To: hod.ee@rvce.edu.in



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BOS-Meeting

Friday, March 11, 2022

10:00 AM | India Time (Mumbai, GMT+05:30) | 3 hr

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Action Taken for 24th BoS meeting held on 05th June 2021

S.No.	Agenda	External BoS member comments	Action Taken
1.	UG 2018 scheme VII and VIII Semester courses	HVDC subject to be replaced with " <i>Object Oriented Modelling</i> " as the former has less opportunities.	According to the suggestion the course " <i>Object Oriented Modelling</i> " has been introduced in 7th semester.
		Communication Systems and Network title should be changed to " <i>Computer Communication and network</i> ".	The title has been modified as " <i>Computer Communication and network</i> "
		Suggested to add topics viz., BLDC, PMSM and SRM under the course " <i>Industrial Drives and applications</i> " for EV's and water pumping applications.	The mentioned topics are added to the course.


BoS Coordinator


HoD

Prof. & Head
Department Electrical &
Electronics Engineering
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RV E/EE/275/2021-22

DATE: 24.03.2022

25th BOS Minutes of Meeting held on 11.03.2022

Agenda	Approval of scheme and syllabus of 2021 with NEP implementation for 3 rd and 4 th Semester.	
Time	10.00AM to 1 PM.	Meeting: Blended mode
Venue		PG Lab / Cisco WeBex Platform

The following Internal and External members attended the BOS meeting

Sl No	Name of the Internal members	Name of the External members
1.	Dr Rudranna Nandihalli	Prof V Keshava murthy
2.	Dr. V. Chayapathy	Dr. Muralidhar
3.	Dr S G Srivani	Dr. Prema V
4.	Dr Anitha G S	Dr. Rashmi
5.	Dr M N Dinesh	Dr. B V Perumal
6.	C Sunanda	Himajit Aithal
7.	Dr.Hemalatha J N	
8.	C Suresha	
9.	Dr.Adinatha Jain	
10.	Dr. Madhu B R	



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11.	K M Ajay	
12.	Jyothi R	
13.	Sushmitha Sarkar	
14.	Rajavidya	
15.	Dr.Abhilash Krishna	

The BOS meeting was conducted at 10.00 AM on 11th March 2022, in Blended mode using **Cisco WeBex Platform and in PG Lab (offline)**. The following external members Prof V Keshava murthy, Dr. Muralidhar , Dr. Prema V attended meeting offline and Dr. Rashmi, Dr. B V Perumal and Himajit Aithal attended meeting online. Meeting started with a welcome to all the BOS members by chairman BOS.

The following points were discussed in the meeting for the approval of 2021 scheme:

- HOD/ Chairperson presented and briefed the 3rd and 4th semester scheme.

For subject: LIC

- Dr. Prema V suggested to change topic as internal circuit of opamp instead of Review of opamp in unit 1. Shift Voltage regulator topic to unit 3 from unit 2. And not mention manufacturer's specifications.
- Prof. V Keshava murthy suggested to change review and to start with DC performance characteristics of OPAMP.
- Dr. Muralidhar Sir suggested to add a prerequisite. And also to add one experiment on transistors.
- Dr. Rashmi pointed to add unit 5 topic to ADDC instead of LIC
- Dr. B V Perumal said that content is more but credit and hours required are less, even tutorial is less.

For MOOC courses

- Prof. V Keshava murthy asked for evaluation of marks in CIE and SEE. Also said that courses done with course era are not proctored. As per VTU regulations he said that if any student fails, he/she can change the subject registered and clear next time to earn the



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credits. And MOOC course is optional for BE honours.

For subject: ADDC

- Dr. Prema V told to add a chapter on Verilog. Suggested to add a reference book by Stephen Brown.

For subject: NA

- Prof. V Keshava murthy suggested to add voltage and current sources instead of just practical sources in unit 1. To shift unit 5 syllabus to unit 3 (polyphase), Unit 4 as Laplace Transforms, Unit 5 as two port and coupled circuits. Also suggested a text book by author Kimberly as a first book
- B Muralidhar suggested to update the Reference book as 8th edition is available. Also told to add Sadiq and Nagoor Kani text books as reference.
- Prof. V Keshava murthy said that even PSICE simulation can also be used as virtual labs and not only from NITK.

For subject: Measurement and Transducer

- BOS chairman said that this subject is of 2 credits and for 50 marks. Hence it should have only 3 units.
- Dr. Prema V told to remove one add from unit 1 as it is repeated twice. She also pointed about A/D and D/A converters from unit 2 as same will be studied in ADDC and LIC subjects in same semester.
- Prof. V Keshava murthy suggested to add specific type of sensors in unit 5.

For subject: Microprocessor and Microcontroller

- Himajit Aithal appreciated the syllabus due to introduction of ARM processor. In skill development specific topics need to be added.

For subject: Power Electronics

- Prof. V Keshava murthy suggested to add protection by using snubber circuits. To specify turn on methods using R, RC and UJT triggering in unit 1. From Unit 3, to change Analysis and design as working of only Buck, Boost and Buck-Boost converters. In unit 5 to remove DC and AC drives, static VAR compensators. Add AC voltage controllers. To retain HVDC, UPS and SMPS (block diagram approach).



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- To remove modelling from skill development.
- To reframe CO4

For subject: Principles of Electromagnetics

- Prof. V Keshava murthy insisted to add super conductors topic. To specify magnetic material.
- In general at the end Prof. V Keshava murthy pointed and highlighted to check the match between the credit scheme and syllabus along with the subject names. To check the format of the syllabus.
- Finally the BOS chairman concluded the meet by thanking the committee members for their valuable suggestions.

R. Rudranthalli
24/3/22

Dr. Rudranthalli
Chairman BOS, EEE Department.

Prof. & Head
Department Electrical &
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invitation for the 26th BOS meeting scheduled on 28th November 2022 ,EEE dept.RVCE

ELECTRICAL & ELECTRONICS ENGINEERING RVCE <hod.ee@rvce.edu.in>

Wed, Nov 23, 2022 at 12:38 PM

To: Vittal Panduranga <vittal@nitk.edu.in>

Dear sir,

I am honoured to have you as an external subject expert member for the 26th BOS meeting on 28th november 2022 in HOD room EEE department in virtual mode.Thanks for accepting our invitation.PFA for all the details.

Thanks

With Regards

Dr. S G Srivani (NITK),

FIE, Senior Member IEEE, MISTE,

Professor and Head of the Department

Associate Dean (PG Studies)

IEEE-PES RVCE SB Faculty advisor,

Electrical and Electronics Department,

RVCE, Bangalore 560059,

mob 9844327829

Phone -68188192, 8193

9 attachments**Panduranga Vittal.png**
1901K**BOS members list for 2022-24.pdf**

542K

**22ESC142_BEE_Syllabus-Non allied branches.docx**

39K

**22ESC143_BEE_Syllabus-EEE allied branches(1).docx**

38K

**22ETS158_Syllabus_Renewable-Energy.docx**

36K

**2022_scheme_VTU.pdf**

389K

**PG_2022_scheme_new_version.xlsx**

20K

**PG_2022_scheme_syllabus.xlsx**

57K

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57K



invitation for the 26th BOS meeting scheduled on 28th November 2022 ,EEE dept.RVCE

ELECTRICAL & ELECTRONICS ENGINEERING RVCE <hod.ee@rvce.edu.in>
To: jayalakshmi.ns@manipal.edu.in

Wed, Nov 23, 2022 at 12:56 PM

Dear Madam,

I am honoured to have you as an external subject expert member for the 26th BOS meeting on 28th november 2022 in HOD room EEE department in hybrid mode.Thanks for accepting our invitation.PFA for all the details.

--

With Regards

Dr. S G Srivani (NITK),
FIE, Senior Member IEEE, MISTE,
Professor and Head of the Department
Associate Dean (PG Studies)
IEEE-PES RVCE SB Faculty advisor,
Electrical and Electronics Department,
RVCE, Bangalore 560059,
mob 9844327829
Phone -68188192, 8193

8 attachments**Jayalakshmi.png**
1871K**PG_2022_scheme_syllabus.xlsx**
57K**PG_2022_scheme_new_version.xlsx**
20K**22ETS158_Syllabus_Renewable-Energy.docx**
36K**22ESC143_BEE_Syllabus-EEE allied branches(1).docx**
38K**22ESC142_BEE_Syllabus-Non allied branches.docx**
39K**2022_scheme_VTU.pdf**
389K**UG_21_scheme_5-8_sem.xlsx**
21K



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invitation for the 26th BOS meeting scheduled on 28th November 2022 ,EEE dept.RVCE

ELECTRICAL & ELECTRONICS ENGINEERING RVCE <hod.ee@rvce.edu.in>

Wed, Nov 23, 2022 at 1:04 PM

To: Prasad Sri Ranga <prasad.ranga@outlook.com>

Dear sir,

I am honoured to have you as an alumni representative for the 26th BOS meeting on 28th november 2022 in HOD room EEE department in virtual mode. Thanks for accepting our invitation. PFA for all the details.

--

With Regards

Dr. S G Srivani (NITK),

FIE, Senior Member IEEE, MISTE,

Professor and Head of the Department

Associate Dean (PG Studies)

IEEE-PES RVCE SB Faculty advisor,

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9 attachments**Prasad Ranga.png**
2042K**BOS members list for 2022-24.pdf**
542K**22ESC142_BEE_Syllabus-Non allied branches.docx**
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389K**22ESC143_BEE_Syllabus-EEE allied branches(1).docx**
38K**PG_2022_scheme_syllabus.xlsx**
57K**PG_2022_scheme_new_version.xlsx**
20K**UG_21_scheme_5-8_sem.xlsx**
21K

All sessions in India Time (Mumbai, GMT+05:30)

Session detail for 'Meeting Link for 28.11.2022 (Monday)':

Caution: This is a preliminary report. It provides immediate access to session data before the final report be
When the final report is available, session data appears only in the final report, not in the preliminary repor

Participant Name	Email	Date
1 hod ee	hod.ee@rvce.edu.in	11/28/2022
2 hod ee	hod.ee@rvce.edu.in	11/28/2022
3 Abhilash Krishna	abhilashkrishnadg@rvce.edu.in	11/28/2022
4 savitha kini	savitha.kini@manipal.edu	11/28/2022
5 savitha kini	savitha.kini@manipal.edu	11/28/2022
6 Dr.Chandrasekhar Atla_PRDC	sekhar.atla@gmail.com	11/28/2022
7 hemalatha	hmalathajn@rvce.edu.in	11/28/2022
8 Sanjeev NAYAK	sanjeev.nayak@valeo.com	11/28/2022
9 Raja Vidya	rajavidya@rvce.edu.in	11/28/2022
10 Panduranga Vittal K	vittal@nitk.edu.in	11/28/2022
11 Abhilash Krishna	abhilashkrishnadg@rvce.edu.in	11/28/2022
12 Abhilash Krishna	abhilashkrishnadg@rvce.edu.in	11/28/2022
13 Raja Vidya	rajavidya@rvce.edu.in	11/28/2022
14 anitha g s	anithags@rvce.edu.in	11/28/2022
15 dinesh m n	dineshmn@rvce.edu.in	11/28/2022
16 hemalatha	hmalathajn@rvce.edu.in	11/28/2022

12:06

4G 62

2(b)



Participants (7)

Q Search



Raja Vidya
Me



hod ee
Host



dinesh m n



Dr.Chandrasekhar Atla_PRDC



Panduranga Vittal K




Sanjeev NAYAK



savitha kini

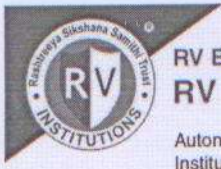


NOTE :- Above is the screenshot print taken to justify that all the Jaws external experts highlighted were present throughout the BOS schedule and their valuable suggestions are presented in MOU (Enclosed). Hence please consider for further process in MOU (Enclosed). 

Prof. & Head
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Guinaj

Encl. photos during the meeting and participant sheet in another file




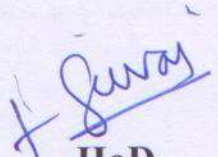
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Action Taken for 25th BoS meeting held on 11th March 2022

S.No.	Agenda	External BoS member comments	Action Taken
1.	UG 2021 scheme III and IV Semester courses	Suggested to change the topic "review" and to start with "DC Performance characteristics of Op-Amp" under the course LICA.	According to the suggestion the topic has been changed.
		Suggested to add "voltage and current sources" instead of "practical sources" in unit-1 under the course "Network Analysis". Shift the contents of Unit-V to Unit-III as polyphase circuits, Unit-IV as Laplace transforms and Unit-V as Two port and coupled circuits under the course "Network Analysis".	According to the suggestion the topic has been changed.
		Suggested to add topic "Protection by using snubber circuits" in unit-1 under the course "Power Electronics". Remove the topics like ac and dc drives, VAR compensators from unit-5 under the course "Power Electronics".	According to the suggestion the topic has been changed. Further in unit-5 the suggested topics were removed.


BoS Coordinator


HoD

Prof. & Head
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Bengaluru-560 059

Minutes of Meeting for 26th BoS Held on 28th November 2022 in HOD room, EEE Department

HOD started the meeting by welcoming the BOS members present in the HOD chamber and as well as the members joined through online mode. HOD addressed the BoS members with introduction to EEE department faculties, vision, mission and the programs offered by the department at both UG and PG level. Then HOD presented the complete agenda of the meeting and the discussion started with same. The following points are the suggestions given by the BoS members particular to the respective agenda.

Agenda -1		PG 2022 scheme & syllabus
Discussions & resolution		
<ol style="list-style-type: none"> 1. Prof. K. Panduranga Vittal suggested that the “Object Oriented Programming using C++” course in 1st sem, can be replaced with the courses related to the power electronics simulation softwares viz., MATLAB, Python etc., 2. Prof. K. Panduranga Vittal strongly suggested to change the contents of the electives proposed such that it should justify the title of the PG program (Power Electronics). 3. The contents of the course titled “PWM Techniques for Power Converters” should be changed such that it includes the control of power converters along with the PWM techniques with application oriented manner. 4. The BoS members suggested to split the contents of the course titled “Design and Analysis of Power Converters” into two parts so that the contents can be taught in detailed manner. 5. The BoS members suggested to change the title of the course “Design and Analysis of Power Converters” to “Application of Power Electronics to Renewable Energy Sources” for which everyone was agreed. 6. For the course titled “Power Electronics Packaging” the BoS members suggested to include thermal equivalents circuits and also to recheck the title of the course (viz., EMC & EMI issues in Power Electronics). 7. The panel members suggested to change the title of the course “IoT concepts in smart grid” to “IoT applications in smart grid” and further to elaborate the contents of the syllabus for mentioned subject. 		
The following are the new courses added in 2022 scheme PG		
S.No.	Semester	Course Title
1	I	Software Programming for Power Electronics
2		Microcontrollers and application in Power Electronics
3		VLSI and Applications in Power Electronics
4		EV and HEV in Architecture and Design
5	II	Embedded Systems Lab

Agenda - 2		2022 Scheme & Syllabus for UG First Year
Discussions & resolution		
No queries raised for the syllabus content presented in the meeting. All the BoS members accepted the same for further course of action.		



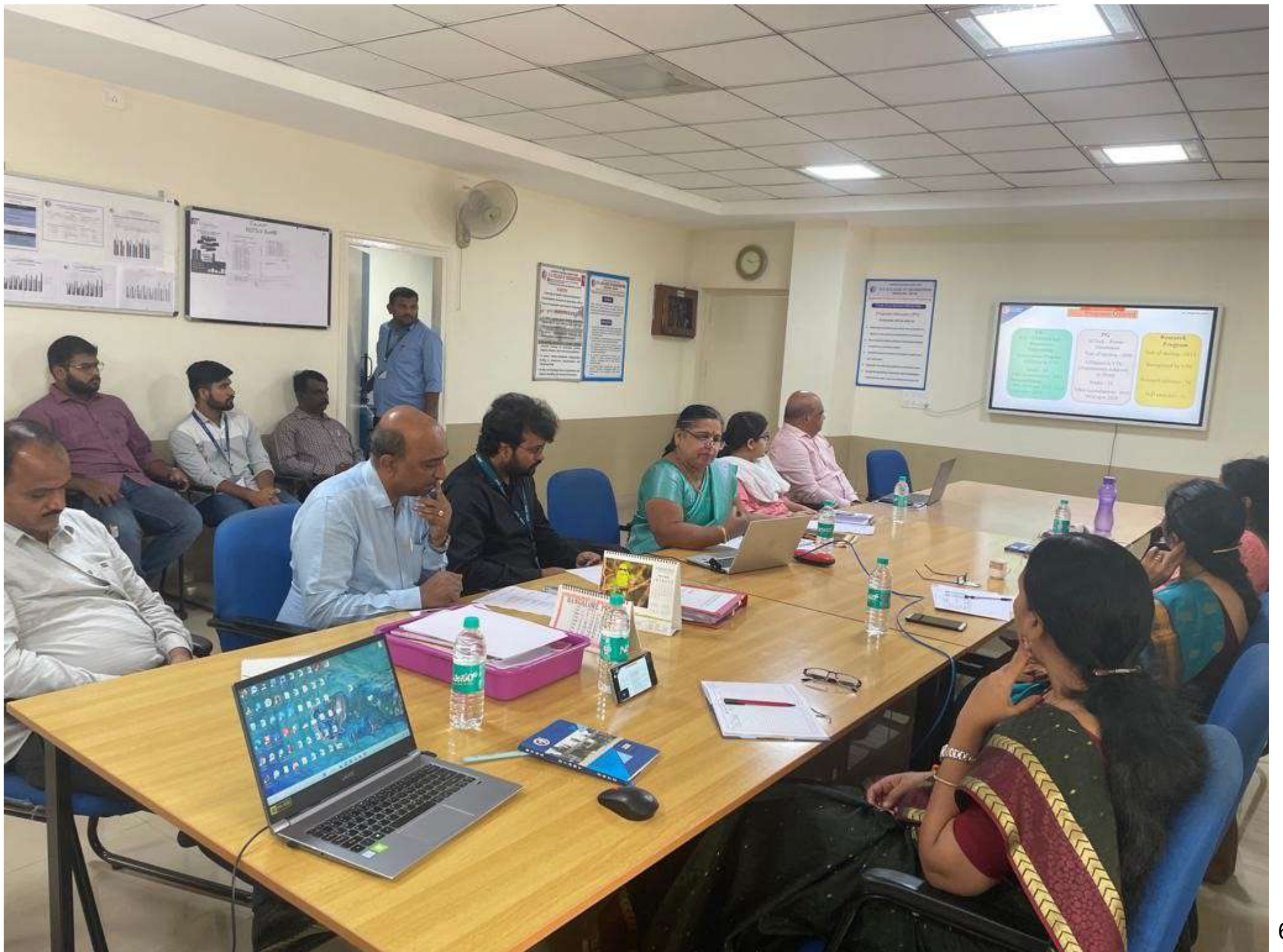
Agenda - 3 | **2021 Scheme for UG Higher Semesters (V – VIII)**

Discussions & resolution

1. The course titled “Power Transmission & distribution” should be modified to “Generation Transmission & Distribution”.
2. For the course titled “Algorithms & Data Structures with C++” to “Algorithms & Data Structures”.
3. The course titled “Discrete Control Systems” can be changed to “Modern Control Systems” to have wide range of syllabus content under this title.
4. For the course titled “Power System Stability” to be modified as “Power System Analysis & Stability”.
5. BoS suggested for adding a course related to communication systems.
6. The BoS panel suggested to change the title of the course “Design of Power Electronics Converters” to “Power Electronics for EV applications”.
7. BoS panel suggested to have a course on PLC & SCADA systems or Data Acquisition systems instead of “Object Oriented Modelling & Design” course for which the students also agreed.
8. The BoS panel members suggested for the course titled “AI and FUZZY applications” should be replaced with “Soft Computing Techniques”.

Finally the meeting was concluded with the vote of thanks speech by HOD.

Dr. S. G. Srivani
Prof & Head, Dept of EEE









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AbhilashKrishna D G <abhilashkrishnagd@rvce.edu.in>

Invitation for the 27th BoS meeting scheduled on 19th June 2023, EEE Department, RVCE - reg

AbhilashKrishna D G <abhilashkrishnagd@rvce.edu.in>

Sun, Jun 18, 2023 at 2:54 PM

To: vittal@nitk.edu.in, savitha.kini@manipal.edu, "Dr. Chandrasekhar Atla" <sekhar.atla@gmail.com>, sanjeev.nayak@valeo.com, jayalakshmi.ns@manipal.edu.in, prasad.ranga@outlook.com, aggadavi@gmail.com
Cc: ELECTRICAL & ELECTRONICS ENGINEERING RVCE <hod.ee@rvce.edu.in>

Respected sir/Madam

Greetings from the Department of EEE, RVCE!

In continuation to the earlier mail with respect to the 27 th BOS meeting on **19/06/2023** for **UG 2021 scheme (Third year)** and **UG 2022 scheme (Second Year)** syllabus the documents pertaining to the syllabus and scheme structure are attached herewith for your kind reference.

List of documents attached:

UG 2021 Scheme (Third Year):

1. Scheme structure
2. Syllabus

UG 2022 Scheme (Second Year):

1. Scheme structure
2. Syllabus

Note:

1. We would like to bring this to your notice that in the document "**Syllabus_2021**" remaining subjects (02) will be displayed directly on the meeting day.

Thanking you,

Regards

--

Dr. Abhilash Krishna

Assistant Professor

Dept of Electrical & Electronics

R.V.College of Engineering

Bengaluru-560059

Mob: +91-7989341864

4 attachments



2022 SCHEME.pdf

115K



Syllabus_2022.pdf

920K



Syllabus_2021.pdf

2496K



UG_21_scheme_5-6_sem.xlsx

16K



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DEPARTMENT OF ELECTRICAL
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Office of the Principal
R.V.Vidyaneketan Post,
Mysuru Road,
Bengaluru-560 059

DATE: 16.06.2023

CIRCULAR

All the faculty members are hereby informed that EEE department has planned for the 27th meeting of Board of Studies (BoS) on 19.06.2023(Monday) at 10.00AM in Hybrid mode in the HoD's Chamber.

The following is the agenda of the meeting Discussion

1. 2021 Scheme & Syllabus of Third year UG
2. 2022 Scheme & Syllabus of Second year UG
3. Any other matters

Note: Lunch has been arranged in Cauvery Hostel.

01.Dr. SGS

02.Dr. MND

03. Dr. VC

04. Dr.GSA

05. Dr.JNH

06. Smt.CS

07. Sri.CSS

08.Dr.ADI

09. Dr.MBR

10. Dr. KMA

11. Smt.SSR

13. Dr. AK

14. Dr.PSP

15. Dr.PNR

16. Dr.VJ

Srinivas 16/06/23
Dr.S.G.Srivani
Prof & Head, Dept of EEE
Head, Dept of Electrical &
Electronics Engineering
R.V. College of Engineering
Mysuru-560 059

01. Sri. NR

02. Sri. BM

03. Smt.DTS

04. Smt.HB

05. Sri. SMP

06. Sri. YN

07. Sri. SD

08. Sri. THIM

09. Sri. JS

10. Sri. BH

11. Sri. PN



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Bengaluru-560 059

DATE: 19.06.2023

List of Board of Studies members Attended

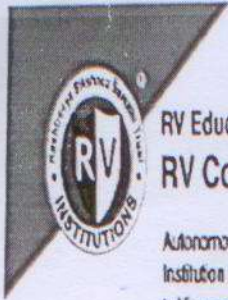
Structure	Sl. No	Name	Signature
Chairman	1	Dr.S.G.Srivani Professor & HOD, PG Associate Dean, EEE Department	
Internal Faculty members at different levels covering different specialization- Nominated by Academic council(05)	1	Dr. Dinesh.M.N Professor, EEE Department	
	2	Dr.V.Chayapathy Associate Professor, EEE Department	
	3	Dr. J.N.Hemalatha Associate Professor, EEE Department	
	4	Smt.C.Sunanda Assistant. Professor, EEE Department	
	5	Dr.K.M.Ajay Assistant. Professor, EEE Department	
Internal faculty Invitees (Based on the request from BOS members)	1	Dr. Anitha.G.S Associate Professor, EEE Department	
	2	Sri.C.Suresha Assistant Professor, EEE Department	
	3	Dr.Adinath Jain Assistant Professor, EEE Department	
	4	Dr. Madhu. B.R Assistant Professor, EEE Department	
	5	Smt. Sushmita Sarkar Assistant Professor, EEE Department	
	6	Smt. Raja Vidya Assistant Professor, EEE Department	
	7	Dr.D.G.Abhilash Krishna Assistant Professor, EEE Department	
	8	Dr.Parth Sarathi Panigrahy Assistant Professor, EEE Department	
	9	Dr. Pandry Narendra Rao Assistant Professor, EEE Department	
	10	Dr. Vandana Jha Assistant Professor, EEE Department	
Special Invitee	1	Dr.Sanjeev K Nayak EDU Manager Lighting Systems APAC (SBSVTR001)	

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		Bengaluru/Embassy Bldg (INBLR03) Mobile: 9036829511 Email Id: sanjeev.nayak@valeo.com	
Subject Experts from outside the college to be nominated by the Academic Council	1	Dr. Jayalakshmi N.S. Professor, Dept of EEE Manipal Institute of Technology Mahe, Manipal - 576104 Mobile: 9481970925 Email Id: jayalakshmi.ns@manipal.edu.in ,	Attended online
Subject Experts from outside the college, VTU nominee	1	Dr. Savitha G. Kini HoD MIT Manipal Mobile: 9448724600 Email Id: savitha.kini@manipal.edu	Attended online
	2	Dr. Panduranga Vittal K [Dr. K.P. Vittal] Professor Room no. 201, Dept. of Electrical & Electronics Engineering, National Institute of Technology, Karnataka, Srinivasnagar P.O., Mangalore, INDIA. Pin: 575 025 Mobile: +91 9448115984 Email Id: vittal@nitk.edu.in	Attended online
Representative from Industry/Corporate Sector/Allied area relating to placement, to be nominated by the Academic Council	1	Dr. Chandrasekhar Reddy Atla Deputy General manager Power Research and Development Consultants Private Limited, #5, 11 th Cross, 2 nd Stage, West of Chord Road, Bengaluru-560086 Mobile: 9538888810 Email Id: csreddy@prdcinfotech.com	Attended online
Postgraduate meritorious alumnus, to be nominated by the principal. (preferably with Ph.D and experience of more than 10 years)	1	Sri. Prasad Ranga Industry Specialist Director Quik Teck Talk #1003, Habitat Splendor Apt, Brookefield Bengaluru - 560037 Phone: 9901414285 Email Id: prasad.ranga@outlook.com	AB

for 24/6/23
Dr. S.G. Srivani
Prof & Head, Dept of EEE
Prof. & Head
Department Electrical &
Electronics Engineering
Bengaluru-560 059

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Minutes of Meeting for 26th BoS Held on 28th November 2022 in HOD room, EEE Department

S.No.	Agenda	External BoS member comments	Action Taken
1.	PG 2022 scheme & syllabus	Prof. K. Panduranga Vittal suggested that the "Object Oriented Programming using C++" course in 1 st sem, can be replaced with the courses related to the power electronics simulation softwares viz., MATLAB, Python etc.,	A course titled "Software Programming for Power Electronics" is introduced in the first sem
		The contents of the course titled "PWM Techniques for Power Converters" should be changed suitably such that it includes the control of power converters along with the PWM techniques with application oriented manner.	As suggested in Unit-4 PWM techniques for Multi Level Inverter are included.
		The BoS members suggested to split the contents of the course titled "Design and Analysis of Power Converters" into two parts so that the contents can be taught in detailed manner.	Accordingly the course is split into two two semesters: "Power Converters" in first semester & "Advanced Power Converters and Applications" in second semester.
		The BoS members suggested to change the title of the course "Power Converters for Renewable Energy systems" to "Power Electronics Applications to Renewable Energy Sources" or "Advanced Power Electronic Converters" to which everyone agreed.	As per the suggestion the course title has been changed to "Power Electronics Applications to Renewable Energy Sources"
		The panel members suggested to change the title of the course "IoT concepts in smart grid" to "IoT applications in smart grid" and further to elaborate the contents of the syllabus for mentioned subject.	As per the suggestion the course title has been changed to "IoT applications in smart grid" and the content are elaborated.
2	2021 Scheme for UG Higher Semesters (V – VIII)	The course titled "Power Transmission & distribution" should be modified to "Generation Transmission & Distribution".	The course title is modified to "Generation Transmission & Distribution".
		The course titled "Discrete Control Systems" can be changed to "Modern Control Systems" to have wide range of syllabus content under this title.	The course title is modified to "Modern Control Systems".

D.G. Ashwika
BoS Coordinator

Srinivas
HoD

Prof. & Head
Department Electrical &
Electronics Engineering
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DATE: 23.06.2023

Minutes of Meeting for 27th BoS Held on 19th June 2023 in HOD chamber, EEE Department

HOD started the meeting by welcoming the BOS members (internal) present in the HOD chamber and as well as the members (external) joined through online mode. HOD addressed the BoS members with introduction to EEE department faculties, vision, mission and the programs offered by the department at both UG and PG levels. Then HOD presented the complete agenda of the meeting and the discussion started with it. The following points are the suggestions given by the BoS members particular to the respective agenda.

Agenda -1	2021 Scheme & Syllabus for UG Third Year
Discussions & resolution	
<ol style="list-style-type: none"> 1. For the course Electrical Machines Dr. Jayalakshmi suggested to add topic on starters in in unit-1 before the speed control. 2. In continuation to the Machines subject, three phase transformers should be included in Unit-3. In co's Mr. Sanjeev Nayak suggested to change CO4 to the application of AC,DC and Special machines. Further he also expressed his opinion to add experiments on PMDC and BLDC motors. 3. For the course Control System Dr. Jayalakshmi suggested to add realization of P,PI and PID and realization of RC network in Unit-5. Further Dr. Chandrashekar suggested to make the changes in number of hours allocated for each unit based on the contents. The CO's defined for the course should be changed. 4. As per the lab component of control system course BOS members suggested that the experiments regarding the P, PI and PID controllers can be shifted to the second cycle. In addition to that Dr. Jayalakshmi advised that the experiments on Root Locus and Bode Plots can be grouped together as single experiment. 5. With respect to the cluster elective of V sem for the course "Electric Vehicle Technology" the following changes are suggested by Dr. jayalakshmi and Mr. Sanjeev Nayak <ul style="list-style-type: none"> • In unit 1 introduction to conventional vehicle and its architecture should be included so that transition to EV explanation becomes easier task rather than directly entering to EV basics. • Introduction to batteries, types of batteries and its parameters should be accommodated in Unit-2. 6. For the global elective course with title "Renewable Energy Systems", the BOS members suggested to delete few topics in Unit-3 and rename it as "Wind Energy systems". As the course is offering in the global elective the BOS members suggested to remove the content on "variable speed drives". 7. In 6th sem scheme Dr. Chandra Shekar suggested that to add subject on renewable energy system with 	



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modelling and analysis (as core course integrated with lab) instead of modelling of EV course. Further he also suggested a book as a reference in framing the contents.

8. In the professional core elective:

- For the course on "Smart Grid technology" BOS members suggested to remove case study Units 4 and 5.
- In the "High Voltage Engineering" course the BOS members suggested to change the topic in Unit-5 to "testing of cables".

9. For the course "Industrial Drives & Automation" the BOS members suggested to reduce the content of Unit-4 and Unit-5 as the course is offered as global elective.

Agenda - 2 | 2022 Scheme & Syllabus for UG Second Year

Discussions & resolution

In the course "Power Electronics" the BOS members suggested to add the topic "isolated & non-isolated DC-DC choppers in Unit-3 Further they advised to add the space vector pulse width modulation in Unit-4.

[Signature]
22/11/2023
Prof & Head, Dept of EEE
Prof. & Head
Department Electrical &
Electronics Engineering
R.V. College of Engineering
Bengaluru - 560059



Invitation for the 28th BoS meeting scheduled on 19th June 2023, EEE Department, RVCE - reg

ELECTRICAL & ELECTRONICS ENGINEERING RVCE <hod.ee@rvce.edu.in> Wed, Apr 10, 2024 at 5:11 PM
To: Vittal Panduranga <vittal@nitk.edu.in>, "Savitha G. Kini [MAHE-MIT]" <savitha.kini@manipal.edu>, "Dr.
Chandrasekhar Atla" <sekhar.atla@gmail.com>, sanjeev.nayak@valeo.com, jayalakshmi.ns@manipal.edu.in, Prasad
Sri Ranga <prasad.ranga@outlook.com>, Ashok Gadavi <aggadavi@gmail.com>, Electrical & Electronics Engineering
Faculty <ee_faculty@rvce.edu.in>

Respected sir/Madam

Greetings from the Department of EEE, RVCE!

As we continue our commitment to effective governance and community engagement, I am pleased to extend an invitation to our upcoming **28 th BOS meeting** on **13/04/2024** for **UG 2021 scheme (Fourth Year)** and **UG 2022 scheme (Third)** syllabus the documents pertaining to the syllabus and scheme structure are attached herewith for your kind reference.

List of documents attached:

UG 2021 Scheme (Fourth Year):

1. Scheme structure
2. Syllabus

UG 2022 Scheme (Third Year):

1. Scheme structure
2. Syllabus


Kindly confirm your presence for the meeting - Offline/Online. Further the online meeting link (webex) will be shared on 12/04/2024.


--


With Regards


Dr. S G Srivani (NITK),
FIE, Senior Member IEEE, MISTE,
Professor and Head of the Department
Associate Dean (PG Studies)
IEEE-PES RVCE SB Faculty advisor,
Electrical and Electronics Department,
RVCE, Bangalore 560059,
mob 9844327829
Phone -68188192, 8193

4 attachments

 **SYLLABUS_2021_4Y.docx**
294K

 **Syllabus_2022_3Y.docx**
356K

 **2021_4Y.pptx**
92K

 **2022_3Y.pptx**
95K



Department of Electrical and Electronics

RVE/EE/

/2024-25

DATE: 13.04.2024

CIRCULAR

It is our privilege to have you as BoS member and subject expert for the 28th BoS meeting to be held on **13.04.2024 (Saturday), in Hybrid mode at 9.30AM** in the HoD's chamber of EEE Department, RVCE, Bengaluru.

The following is the agenda of the meeting Discussion

1. 2021 Scheme & Syllabus of Fourth year UG
2. 2022 Scheme & Syllabus of Third year UG
3. Any other matters

List of Board of Studies members

Structure	Sl. No	Name
Chairman	1	Dr.S.G.Srivani Professor & HOD, PG Associate Dean, EEE Department
Internal Faculty members at different levels covering different specialization- Nominated by Academic council(05)	1	Dr. Dinesh.M.N Professor, EEE Department
	2	Dr.V.Chayapathy Associate Professor, EEE Department
	3	Dr. J.N.Hemalatha Associate Professor, EEE Department
	4	Smt.C.Sunanda Assistant. Professor, EEE Department
	5	Dr.K.M.Ajay Assistant. Professor, EEE Department
Internal faculty Invitees (Based on the request from BOS members)	1	Dr. Anitha.G.S Associate Professor, EEE Department
	2	Sri.C.Suresha Assistant Professor, EEE Department
	3	Dr.Adinath Jain Assistant Professor, EEE Department
	4	Dr. Madhu. B.R Assistant Professor, EEE Department
	5	Smt. Sushmita Sarkar Assistant Professor, EEE Department
	6	Smt. Raja Vidya Assistant Professor, EEE Department
	7	Dr.D.G.Abhilash Krishna Assistant Professor, EEE Department



Department of Electrical and Electronics

	8	Dr.Parth Sarathi Panigrahy Assistant Professor, EEE Department
	9	Dr. Pandry Narendra Rao Assistant Professor, EEE Department
	10	Dr. Vandana Jha Assistant Professor, EEE Department
	11	Sri. Ashok G Gadavi Guest Faculty, EEE Department
Special Invitee	1	Dr.Sanjeev K Nayak EDU Manager Lighting Systems APAC (SBSVTR001) Bengaluru/Embassy Bldg (INBLR03) Mobile: 9036829511 Email Id: sanjeev.nayak@valeo.com
Subject Experts from outside the college to be nominated by the Academic Council	1	Dr.Jayalakshmi N.S. Professor, Dept of EEE Manipal Institute of Technology Mahe, Manipal – 576104 Mobile: 9481970925 Email Id:jayalakshmi.ns@manipal.edu.in,
Subject Experts from outside the college, VTU nominee	1	Dr.Savitha G. Kini Professor MIT Manipal Mobile: 9448724600 Email Id: savitha.kini@manipal.edu
	2	Dr.Panduranga Vittal K [Dr.K.P.Vittal] Professor Room no. 201, Dept. of Electrical & Electronics Engineering, National Institute of Technology, Karnataka, Srinivasnagar P.O., Mangalore, INDIA. Pin: 575 025 Mobile: +91 9448115984 Email Id: vittal@nitk.edu.in
Representative from Industry/Corporate Sector/Allied area relating to placement, to be nominated by the Academic Council	1	Dr. Chandrasekhar Reddy Atla Deputy General manager Power Research and Development Consultants Private Limited, #5, 11 th Cross, 2 nd Stage, West of Chord Road, Bengaluru-560086 Mobile: 9538888810 Email Id: csreddy@prdcinfotech.com
Postgraduate meritorious alumnus, to be nominated by the principal. (preferably with Ph.D and experience of more than 10 years)	1	Sri. Prasad Ranga The Chief Executive Officer Flutech Engineering Pvt Ltd 431/11, Off Glass Factory Road, Chelkere, Kalyan Nagar Bengaluru-560043 Phone: 9606944478 Email Id: prasad.ranga@flutech.in

quie

Dr.S.G.Srivani
Prof & Head, Dept of EEE

Prof. & head
Department Electrical &
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Department of Electrical and Electronics

DATE: 13.04.2024

List of Board of Studies members Attended

Structure	Sl. No	Name	Signature
Chairman	1	Dr.S.G.Srivani Professor & HOD, PG Associate Dean, EEE Department	 13/4/24
Internal Faculty members at different levels covering different specialization- Nominated by Academic council(05)	1	Dr. Dinesh.M.N Professor, EEE Department	 13/4/24
	2	Dr.V.Chayapathy Associate Professor, EEE Department	 13.4.24
	3	Dr. J.N.Hemalatha Associate Professor, EEE Department	 13/4/24
	4	Smt.C.Sunanda Assistant. Professor, EEE Department	 13.4.24
	5	Dr.K.M.Ajay Assistant. Professor, EEE Department	 13/4/24
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	2	Sri.C.Suresha Assistant Professor, EEE Department	 13/4/24
	3	Dr.Adinath Jain Assistant Professor, EEE Department	 13/4/24
	4	Dr. Madhu. B.R Assistant Professor, EEE Department	
	5	Smt. Sushmita Sarkar Assistant Professor, EEE Department	
	6	Smt. Raja Vidya Assistant Professor, EEE Department	 13/4/24
	7	Dr.D.G.Abhilash Krishna Assistant Professor, EEE Department	 13/04/2024
	8	Dr.Parth Sarathi Panigrahy Assistant Professor, EEE Department	 13/04/24
	9	Dr. Pandry Narendra Rao Assistant Professor, EEE Department	 13/4/24
	10	Dr. Vandana Jha Assistant Professor, EEE Department	
	11	Sri. Ashok G Gadavi Guest Faculty, EEE Department	 13/04/2024
Special Invitee	1	Dr.Sanjeev K Nayak EDU Manager Lighting Systems APAC (SBSVTR001) Bengaluru/Embassy Bldg (INBLR03) Mobile: 9036829511 Email Id: sanjeev.nayak@valeo.com	Online

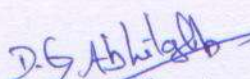


RV College of Engineering, Bangalore

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Action Taken for 27th BoS Held on 19th June 2023 in HOD chamber, EEE Department

S.No.	Agenda	External BoS member comments	Action Taken
1.	2021 Scheme & Syllabus for UG Third Year	For the course Electrical Machines Dr. Jayalakshmi suggested to add topic on starters in unit-1 before the speed control.	As per the BoS member advise the starters topic is added in the Unit-1 under the course " <i>Electric Machines</i> ", fifth semester.
		For the course Control System Dr. Jayalakshmi suggested to add realization of P,PI and PID and realization of RC network in Unit-5.	The topic is added in Unit-4.
		With respect to the cluster elective of V sem for the course "Electric Vehicle Technology" the following changes are suggested by Dr. jayalakshmi and Mr. Sanjeev Nayak 1. In unit 1 introduction to conventional vehicle and its architecture should be included so that transition to EV explanation becomes easier task rather than directly entering to EV basics. 2. Introduction to batteries, types of batteries and its parameters should be accommodated in Unit-2.	As per the suggestion the basic architecture is included in Unit-1. Further the batteries are included in the Unit-3 under topic Battery Management System.
		In 6 th semester scheme Dr. Chandra Shekar suggested that to add subject on renewable energy system with modelling and analysis (as core course integrated with lab) instead of modelling of EV course. Further he also suggested a book as a reference in framing the contents.	In the sixth semester a course titled " <i>Solar & Wind Energy Systems</i> " with lab integrated.
		In the professional core elective: For the course on "Smart Grid technology" BOS members suggested to remove case study Units 4 and 5.	As per the BoS member comments the case study in Unit-4 and 5 are removed for the course "Smart Grid Technology".
2	2022 Scheme & Syllabus for UG Second Year	In the course "Power Electronics" they advised to add the space vector pulse width modulation in Unit-4.	The space vector pulse width PWM technique is added in Unit-4 under the course "Power Electronics" in fourth semester.


BoS Coordinator


HoD

Prof. & Head
Department Electrical &
Electronics Engineering
R.V. College of Engineering
Bengaluru-560 059



Department of Electrical and Electronics

Subject Experts from outside the college to be nominated by the Academic Council	1	Dr. Jayalakshmi N.S. Professor, Dept of EEE Manipal Institute of Technology Mahe, Manipal - 576104 Mobile: 9481970925 Email Id: jayalakshmi.ns@manipal.edu.in.	Online
Subject Experts from outside the college, VTU nominee	1	Dr. Savitha G. Kini Professor MIT Manipal Mobile: 9448724600 Email Id: savitha.kini@manipal.edu	Online
	2	Dr. Panduranga Vittal K [Dr. K.P. Vittal] Professor Room no. 201, Dept. of Electrical & Electronics Engineering, National Institute of Technology, Karnataka, Srinivasnagar P.O., Mangalore, INDIA. Pin: 575 025 Mobile: +91 9448115984 Email Id: vittal@nitk.edu.in	Online
Representative from Industry/Corporate Sector/Allied area relating to placement, to be nominated by the Academic Council	1	Dr. Chandrasekhar Reddy Atla Deputy General manager Power Research and Development Consultants Private Limited, #5, 11 th Cross, 2 nd Stage, West of Chord Road, Bengaluru-560086 Mobile: 9538888810 Email Id: csreddy@prdcinfotech.com	Online
Postgraduate meritorious alumnas, to be nominated by the principal. (preferably with Ph.D and experience of more than 10 years)	1	Sri. Prasad Ranga The Chief Executive Officer Flutech Engineering Pvt Ltd 431/11, Off Glass Factory Road Chelkere, Kalyan Nagar Bengaluru-560043 Phone: 9606944478 Email Id: prasad.ranga@flutech.in	Offline

Dr.S.G.Srivani
Prof & Head, Dept of EEE



Department of Electrical and Electronics

RVCE/EE/ / 2024-2025

Date : 13.04.2024

MINUTES OF MEETING
(BOS)

DATE: 13-04-2024

TIME:9.30 AM TO 12.30PM

MODE: Hybrid

VENUE: HOD chamber, EEE DEPARTMENT, RVCE

Agenda:

1. 2021 Scheme & Syllabus of fourth year UG
2. 2022 Scheme & Syllabus of third year UG
3. Any other matters.

HOD EEE and Board of Chairman, EEE , **Dr. S G Srivani** welcomed all the external,internal BoS members and faculty, the following points were discussed:

Subject	28 TH BOS
Agenda	<ol style="list-style-type: none">1. 2021 Scheme & Syllabus of fourth year UG2. 2022 Scheme & Syllabus of third year UG3. Any other matters.

Discussions & Resolutions

The BoS meeting started at 9.30 am , in HOD chamber , Dr S G Srivani ,Prof & HoD EEE department welcomed all the external BoS members and internal BoS members. 2021 scheme 7th sem and 8th sem credit structure was discussed in detail, and professional core electives under Group E and Group F were discussed and approval taken. Approval for offering Electric mobility as the Institutional electives in group G is taken from the members. The title of the course to be E- Mobility only instead of electric mobility suggested by Dr. K P vittal, Mr.Prasad Ranga and Mr.Ashok Gadvai. 5th sem and 6th sem credit structure along with the list of courses were discussed and approved by the members . The detailed syllabus for both schemes were also discussed and placed before for the approval,

Suggestions from the BoS members

Dr. Jayalakshmi suggested for Power system analysis under unit 1 current limiting reactor, selection of circuit breaker and three phase fault current to be added.

Dr Vittal clarified and appreciated the lab component in the elective courses which will be evaluated for the experiential learning.

Comparison of the 21 and 22 schemes was asked by few members and appropriately were convinced by the explanation given by HOD and internal members

Department of Electrical and Electronics

For the 22 scheme syllabus [5th and 6th],in the Electrical machines course following changes were addressed by the Prof .Jayalakshmi

Unit 3--→ update the title as three phase transformer and appreciated

Dr Savitha kini madam and Dr vittal KP clarified the evaluation for the lab integrated Title of Control system changed to Control system Engineering was approved by the members Dr Jayalakshmi → informed to add tuning of controller gains in unit IV in Control system Engineering.

Dr Vittal sir asked process for the EL and the role of the course instructor and it was clarified by the HoD.

Prasad Ranga:- Informed to give a little more focus on HVDC system in power transmission and distribution course. As per sir, HVDC is now becoming very important and he volunteered to send few topics related to it

PSA (6th sem 2022)

Dr Jayalakshmi madam informed to have the above changes to 2022 scheme PSA syllabus also

Dr.KP Vittal asked for the development of a lab for electric vehicles courses and to give more focus and suggested to have lab component.

Also , IPM, PMSM, motor drive control to be included in unit II multi-motor electric drives to be added, and charging station requirements and other related topics with few more courses in future as electives or core.

The energy manager syllabus can be referred to modify the energy auditing course.

Dr Savitha kini suggested to have 5 COs to cover the substitutability ,ethics etc in the additional 5th CO.





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Department of Electrical and Electronics

Action Plan & Deadlines:

(For whom the task has been assigned and expected date of completion of the task/assignment)

Task is assigned to Dr Abhilash Krishna, Dr,JN Hemalatha and Dr.Sunanda

15 th April 2024

Finally the BOS chairman concluded the meet by thanking the committee members for their valuable suggestions.

Prof. & Head
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