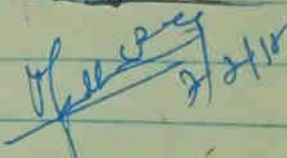
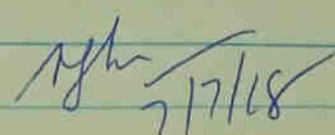

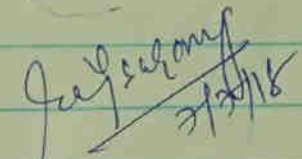
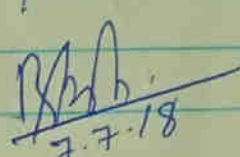
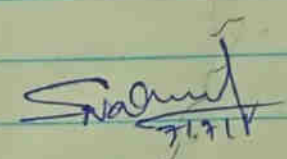
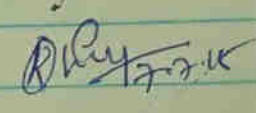
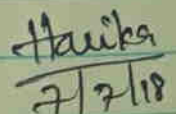
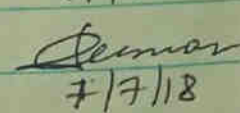


10

R18 - AICTE Model Curriculum (BEE)

- AICTE Model ~~circuits~~ curriculum structure (2018-19) is discussed and approved by the BOS members.
- BOS members suggested to include ~~comprehensive~~ test instead of comprehensive viva.
- PEO's, ~~pos~~ Pos, PSOs are discussed.
- BOS members suggested to remove supermesh, super node from unit-I of BEE.
- Members suggested to rename the unit-IV title as DC machines and Transformers.
- Members suggested to ~~incl~~ remove Elementary treatment from unit-IV of BEE.
- Members suggested to remove Swinburn's test from BEE Lab.
- plotting of BH loop in a CRO for a single phase T/F experimentally and hence calculating the hysteresis losses.
- Include ^{installations &} Electrical house wiring by sk Battacharya ^{text} book suggested as as reference. one of the ~~text~~ book.

Members of BOS (EEE)

- | | | Signature |
|----|------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 1) | Dr. G. Madhusudhana Rao
BOS chairman
HOD/EEE | 
7/7/18 |
| 2) | Dr. A. Raghuram
Prof. JNTUH
JNTUH Nominee | 
7/7/18 |
| 3) | Dr. N. V. Srikanth
Assoc. Prof
NIT warangal | 
7/7/18 |
| 4) | Dr. V. Rajagopal
prof & HOD EEE
stanley Engg college | 
7/7/18 |
| 5) | Dr. B. P. Singh
RT. BHEL GM
Industrial member | 
7.7.18 |
| 6) | Dr. S. Narsimha
Prof. TKRCET | 
7/7/18 |
| 7) | Dr. K. Raju
Assoc. Prof | 
7/7/18 |
| 8) | J. Harika
member (PG Alumini) | 
7/7/18 |
| 9) | B. Sharath Kumar
BOS co-ordinator | 
7/7/18 |

20/1/19

16

BOS minutes of meeting

R18-Structure & (II-year syllabus)

- BOS members suggested to give similar name for theory and lab
- BOS members suggested to remove network theory ^{for} AC & DC, which are already covered in I year BEE.
- ~~for~~
- To include graph theory in electric circuit analysis.
- UNIT-I network topology.
- BOS members suggested that:- open electives offered to the other students can be taken by BEE students also.
- Include problems and solutions in Electrical Engineering by Park & Smith's book.
- To include Band Rejection filter in unit-5
- TO remove sinusoidal steady state analysis

Electrical machines-I

∴ BOS members suggested that:-

- Remove B-H curve and magnetic materials in unit - II
- Replace the unit-I by electromagnetic force and Torque.

→ Split the unit - I (Transformers) into single phase and three phase Transformers

Electrical machines - I Lab

→ Include Verification of Δ - Δ , Δ - Δ , Δ - Δ , Δ - Δ Transformers instead of Speed control of DC motor

Electrical Circuits Analysis Lab

→ Remove Verification of Mesh and Nodal Analysis.

→ Include frequency response of 1st and 2nd order RL, LC & RLC N/W's

Electrical machines - II

→ Remove 3D-visualisation.

→ Follow JNTUH syllabus as it is for EM-II.

→ Include Types of 1- ϕ induction motor & Universal motor in unit - I

Control systems

→ Follow JNTUH syllabus as it is.

LabsElectrical machines - II Lab

→ No changes in EM-II Lab

Control systems Lab

→ Include Evaluation of error constants using time response plot.

Electrical work shop Lab

→ Include power quality comparison of different lamps

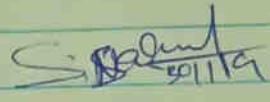
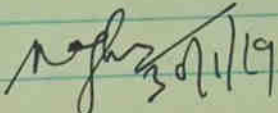
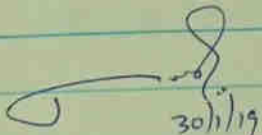
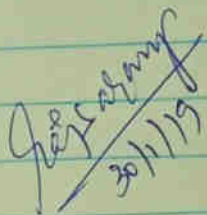

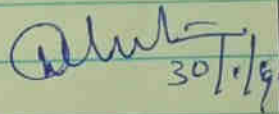
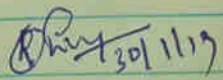

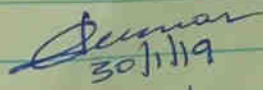
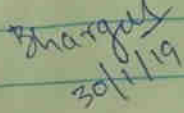
Electrical systems & simulation Lab

- Include 3-ph inverter with 120° , 180° mode of operation
- solution of 1st order Diff eqⁿ using R-K Fourth order method.
- single phase cyclo-converter with $F_o = \frac{1}{4}$ & $\frac{1}{3}$ frequency

Power electronics Lab

→ Include simulation of 1-ph converter with SPWM.

Members of BOS(EEE) - Signature

1. DR. S. Narasimha - member
Prof & HOD/EEE  30/1/19
2. DR. A. Raghu Ram - JNTUH Nominee
Prof. JNTUH  30/1/19
3. DR. Srikanth NV - Subject Expert.
Assoc. Prof. NITW  30/1/19
4. DR. V. Rajagopal - Subject Expert
Prof, Dept of EEE,
Stanley College of Engg.  30/1/19
5. DR. B. P. Singh - Industry Expert
Sr. M. (Retd), BHEL, R&D.  30/1/19
6. DR. K. Chitra - member
Professors.  30/1/19
7. DR. K. Raju - Chairman
Assoc. Prof  30/1/19
8. DR. M. Murali - member
Assoc. Prof.  30/1/19
9. B. Shashank Kumar - member
Asst. Prof.  30/1/19
10. P. Bhargava - member
post graduate student.  30/1/19

Minutes Of Meeting

Date: 8/08/2019

BoS meeting

B. TECH (V, VI, VII, VIII semester syllabus) — 21 R18.

V - semester

1) Power system - I CL number T.B
UNIT - IV Introduction to substation grounding

club UNIT I & II Introduction to ^{Non-}conventional Energy source

Introduction to micro grid

UNIT - IV Introduction to distribution system

→ substation grounding by (T.B)
ground mat, soil Resistivity,
step voltage, touch voltage,

2) power electronic choppers

3) Professional elective I

1) machine design. Change to dir.

2) Power system dynamics and control

Unit - 12 → Δt swing eqⁿ, Equal Area Criterion

↳ analysis of dynamic system swing eqⁿ

→

Unit - 13 → Park transformation book - Prabhakar

- D-Q axis

↳ Decoupled control

Unit - 14 → DFIG - type P is not.

Unit - 15 → rotor angle stability analysis for

S-IB, and M-IB

modes of opⁿ → Inter Area mode

- Concept of Inertia, Virtual Inertia
- P.S analysis by Hadi Sadhah
- SMIB - Phillips Econ model → IEEE - Reddy
- BOS members are suggested that

→ Saving eqn - Hadi Sadhah

PS-I change co's, blooms tonomy
 [NI - Semester] able to draw complete layout
~~PS-I~~ co's - 1) should be draw understand the
 layout valing conventional &

- 2) should be able to evaluate valing calculate AC & DC distribution system
- 3) suggested 5 co's for each unit
- 3) able to understand the typical layout of substation & ET grounds
- 4) understand & evaluate

PS-II :- CL wad wa
UNIT-III travelling wave in tr. line

$$T = \frac{L}{v} = \frac{50}{300000} = 1.67 \times 10^{-4} \text{ s}$$

for different caps

unit 4 → effect of SCILINITY → water formation on conductors

PSA :- sequential method
 2 way formation algorithm

→ Introduction to optimal power flow

- 1) Decoupled method & fast decoupled method
- 2) sequence of analysis of all ^{types of} faults

1) definition of stability
 → steady state stability limit
 Numerical solution of swing equation method
 by RK method, Euler's method
 CL method → 3rd ^{author} replacement

CO's

- 1) understand the ~~intercept~~ aspects of
 understand different methods
 of load flow solution
- 2) Analyze different fault studies
 of P.S
- 3) understand & evaluate different stability
 studies of power system

→ cooling towers, removed Energy auditing

→ power line commutated and active
 reactor

buck-boost converter

III - sem

psoc - psoc by Nagarath & Kothari
by Haldjorn

course objectives

outcome → ① objectives ② or ③

- control of LFC, reactive power control
- Economic aspects of P.S
- understand scada

Wind and solar Energy systems

→ MPPT algorithms

FACTS:-

→ Comparison FACT with HVDC

→ Introduction aspects of FACT UNIT-I

→ UPFC application

UNIT II x UNIT V Introduction to UPFC & IFC

In special case delay
SCR delays, braking

power system protection

Badli Ram T.B

(i) over current protection

III Generator, transformer, protection

✓ Removal EMTc software

VIII → SEM

HVDC (P.E. IV) NO correction

Computational Electromagnetics → no correction

Electromagnetic Waves → no correction

Industrial Electrical systems → NO correction

Control systems design change to modern control theory


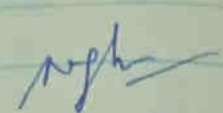
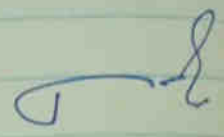
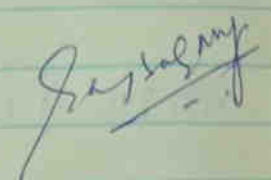
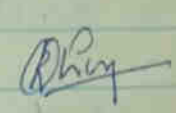
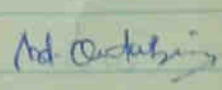

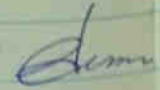
Advanced Electric drives is change to VEE

→ HVE → no correction

→ Computer Aided design of electrical machines. here
title name change.

these all things are suggested by BOS members

Members of BOS (EEE)

- 1) Dr S. Narasimha - member
Prof & HOD EEE 
- 2) Dr A. Raghuram - JNTUH Nominee
Prof JNTUH 
- 3) Dr Srikanth NV - Subject expert
Assoc Prof, NITW- 
- 4) Dr V. Rajagopal - Subject expert
Prof of Dept of EEE
& formerly college of Eng 
- 5) Dr. K. Raju - Chairman 
- 6) Dr. MD. Gutubuddin - member 
- 7) V. Sangeetha Sarali - Senior faculty
(Member) 
- 8) B. Sharath Kumar - co-ordinator - 
- 9) P. Bhargav - M.Tech student - 