



**ELECTRICAL AND
ELECTRONICS
ENGINEERING**

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS)

(AFFILIATED TO ANDHRA UNIVERSITY, VISAKHAPATNAM) (RECOGNISED BY ALL INDIA COUNCIL FOR TECH. EDN., NEW DELHI)

Accredited by NAAC with 'A' Grade

Recognised as Scientific and Industrial Research Organisation

CHINNA AMIRAM (P.O):: BHIMAVARAM :: W.G.Dt., A.P., INDIA :: PIN: 534 204

Dr. G. P. Saradhi Varma

B.Tech.(CSE), M.Tech.(CSE), Ph.D.(CSE).

PRINCIPAL



Phones: Off : EPABX :08816-223332 Ext.201

Direct :08816-222748

Fax:08816-224516

College Fax:08816-229377

Mobile No.98483 81818

Email: principal@srkrec.ac.in

principalsrkrec@gmail.com

gpsvarma@gmail.com

Web Site : www.srkrec.ac.in

SRKREC/BOS-2/EEE/2016-17

Date: 29.05.2017

To
Dr. M. Damodar Reddy
Professor
Department of EEE
SV University, Tirupati.

Dear Sir,

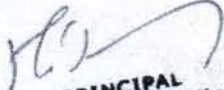
Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Regarding

We wish to inform you that the meeting of the Joint Board of Studies will be held on 08.06.2017 at 11-00 A.M in A.C. Auditorium, I-Block.

The Boards of Studies meetings will be conducted in respective departments as per the schedule mentioned below:

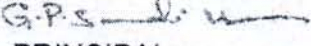
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1	Civil Engineering	08-06-2017	2.00 P.M.
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3	Electronics & Communication Engineering	08-06-2017	2.00 P.M.
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6	Mechanical Engineering	08-06-2017	2.00 P.M.
7	Combined Board of Studies in Engineering Chemistry/Engineering Mathematics/Engineering Physics / Humanities and Social Sciences	08-06-2017	2.00 P.M.

The T.A / D.A. will be paid to all the external members as per the university guidelines. We request you to make it convenient to attend the meetings.


PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204.



Yours faithfully,


PRINCIPAL

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BHIMAVARAM-534 204.

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SRKREC/BOS-2/EEE/2016-17

Date: 29.05.2017

To
Dr. Ch.V.V.S. Bhaskar Reddy
Professor
Department of EEE
Andhra University
Visakhapatnam - 530 003.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Regarding

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SRKREC/BOS-2/EEE/2016-17

Date: 29.05.2017

To
Dr. Sachin Jain
Assistant Professor
Department of EEE
NIT-Warangal

Dear Sir,

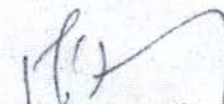
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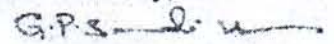
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SRKREC/BOS-2/EEE/2016-17

Date: 29.05.2017

To

Prof. K.Vaisakh

Department of EEE

Andhra University

Visakhapatnam - 530 003.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Regarding

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PRINCIPAL

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S.R.K.R. Engg. College
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SRKREC/BOS-2/EEE/2016-17

Date: 29.05.2017

To
Dr. G.K. Viswanadha Raju
Lead Engineer
GE, Bengaluru

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Regarding

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SRKREC/BOS-2/EEE/2016-17

Date: 29.05.2017

To
Sri Ch. Chandra Sekhar
Project Manager
Hyundai Mobis Ind. Ltd.
Hyderabad

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Regarding

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SRKREC/BOS-2/EEE/2016-17

Date: 29.05.2017

To
Sri P. Prabhakar Rao
Engineering Supervisor 2
Caterpillar India Pvt Ltd.
Bangalore

Dear Sir,

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G.P.S.
PRINCIPAL

[Signature]
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S.R.K.R. Engg. College
BHIMAVARAM-534 204



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S.R.K.R. Engg. College
BHIMAVARAM-534 204.



SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE(A)
CHINNA AMIRAM :: BHIMAVARAM 534204
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Dt:03-06-2017

CIRCULAR

This is to inform you that the Department of Electrical And Electronics Engineering will hold a meeting on 08-06-17 at 2.00P.M in Room No U-303 (EEE Seminar hall) of Electrical And Electronics Engineering. In this connection, all the members of Board of studies are requested to attend the same.

Agenda:

- 1) To discuss about Syllabus for 2nd year (1st and 2nd semester) courses related to Electrical And Electronics Engineering branch as per finalized scheme.
- 2) Any other items for discussion with permission of the chair.

C.C to

- 1.The members of Board of Studies
- 2.Office file




Head of the Department

Head of EEE Department
S.R.K.R. Engg. College
BHIMAVARAM-534 204.

H. Jagapathi Reddy

PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204.

Minutes of the meeting

7.

Second Board of studies meeting on 8-6-2017

SAGI RAMAKRISHNAM RAJU ENGINEERING COLLEGE
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
(AFFILIATED TO ANDHRA UNIVERSITY, VISAKHAPATNAM) (RECOGNISED BY AICTE, NEW DELHI)
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Members of Board of Studies

S.NO	category	NAME	DESIGNATION	SIGNATURE
1	chairman	Dr. P Kanta Rao	Prof & Head SRKREC	
2	University Nominee	Dr. K.Vaisakh	Prof & HOD of Electrical Engineering, AU, Dean of Academics AU	Not attended.
3	Expert from other university	Dr.M.Damodar Reddy	Prof. S.V.University	
4	Expert from other university	Dr.Ch.V.V.S Bhaskar Reddy	Prof Andhra University	Not attended.
5	Expert from other university	Dr.Sachin Jain	Assistant Professor, NIT Warangal	
6	Industry expert	Dr. Ch.Chandra Shekhar	Project Manager, Hyundai Mobis Ind,Ltd,Hyderabad	Not attended.
7	Industry expert	Dr. P. Prabhakar Rao	Engineering Supervisor,Caterpillar India Pvt Ltd	Not attended.
8	Research organization	Dr.G.K.Vishwanadha Raju	Lead Engineer,G.E,Bengaluru	Not attended
9	Faculty of each specialization	Dr.B.R.K.Varma	Professor, SRKREC	
10		Sri N. Srinivasu	Professor, SRKREC	
11		Dr.M.Sai veerraju	Professor, SRKREC	
12		Sri.D.J.V Prasad	Associate Professor, SRKREC	
13	Student Representative	I.BalaSai Parasuram	Final Year student	Not attended
14	Student Representative	P.Chandra shekhar	Third Year student	Not attended

Agenda:

- 1) Syllabus for the Second year(1st and 2nd sem) course related to Electrical and Electronics branch as per course finalized in the Joint Board
- 2) Scheme for 2nd year B. Tech

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BHIMAVARAM-534 204.

Minutes of the meeting

1. Scheme and syllabus for 2nd year, first and second semester have been approved
2. Scheme for third and fourth year was tentatively approved
3. It is suggested for changes in subject course for B.Tech, 3rd year 1st semester
4. Suggested the corrections in course objectives for network analysis and synthesis
5. Suggested a chapter name change to magnetic coupled circuits and Two port networks in network analysis and synthesis
6. Suggested to update for latest editions of reference and text books
7. Suggested to maintain five course objectives for all subjects
8. Suggested power system text book by Dr.B.R.Guptha and network analysis and synthesis text book by Ravish R Singh
9. Suggested to increase number of chapters in prime movers and pumps
10. Students have given suggestions to reduce the burden on 3rd and 4th year syllabus for R16 Regulation




Chairman BOS

Head of EEE Department
S.R.K.R. Engg. College
BHIMAVARAM -534 204


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RESOLUTIONS FOR THE MEETING DATED 08-06-2017

1) Scheme and Syllabus for 2nd year, first and second semester have been approved.

SCHEME OF INSTRUCTION & EXAMINATION (Regulation R17)									SCHEME OF INSTRUCTION & EXAMINATION (Regulation R17)										
H/IV B.TECH (With effect from 2017-2018 Admitted Batch onwards)									H/IV B.TECH (With effect from 2017-2018 Admitted Batch onwards)										
ELECTRICAL AND ELECTRONICS ENGINEERING I-SEMESTER									ELECTRICAL AND ELECTRONICS ENGINEERING II-SEMESTER										
Code No.	Name of the Subject	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Contact Hrs/Week	Internal Marks	External Marks	Total Marks	Code No.	Name of the Subject	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Contact Hrs/Week	Internal Marks	External Marks	Total Marks
B17 BS 2101	Mathematics - IV	3	3	1	--	4	30	70	100	B17EE 2201	Electrical Machines-I	3	3	1	--	4	30	70	100
B17 EC 2101	Electronics Devices & Circuits	3	3	1	--	4	30	70	100	B17EE 2202	Signals & Systems	3	3	1	--	4	30	70	100
B17 EE 2101	Network Analysis and Synthesis	3	3	1	--	4	30	70	100	B17EC 2205	Electronic Circuit Analysis	3	3	1	--	4	30	70	100
B17 EE 2102	Electro-Magnetic Field Theory	3	3	1	--	4	30	70	100	B17ME 2206	Prime movers & Pumps	3	3	1	--	4	30	70	100
B17 EE 2103	Electrical Measurements & Instruments	3	3	1	--	4	30	70	100	B17EC 2206	Linear Integrated and Pulse Circuits	3	3	1	--	4	30	70	100
B17 BS 2104	Engineering Economics	3	3	1	--	4	30	70	100	B17BS 2201	Management Science	3	3	1	--	4	30	70	100
B17 EE 2105	Networks & Measurements Lab	2	--	--	3	3	50	50	100	B17ME 2210	Thermal Prime Movers Lab	2	--	--	3	3	50	50	100
B17 EC 2105	Electronics Devices & Circuits Lab	2	--	--	3	3	50	50	100	B17EC 2209	Linear Integrated Circuits & Pulse Digital Circuits Lab with Simulation	2	--	--	3	3	50	50	100
B17 BS 2106	Programming Skills-I	1	--	--	2	2	50	--	50	B17BS 2205	Programming Skills-II	1	--	--	2	2	50	--	50
B17 BS 2107	English Proficiency-I	--	1	1	--	2	--	--	--	B17BS 2206	English Proficiency-II	--	1	1	--	2	--	--	--
B17 BS 2108	Professional Ethics & Human Values	--	2	--	--	2	--	--	--										
Total												23	21	7	8	36	330	520	850

2) scheme for third and fourth year was tentatively approved

3) It is suggested for changes in subject course for 3rd year 1st semester

Code No.	Course	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Total Contact Hrs/Week	Session at Marks	Exam Marks	Total Marks	Code No.	Name of the Subject	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Contact Hrs/Week	Internal Marks	External Marks	Total Marks
B16 EE 3101	Electrical Machines-II	4	3	1	--	4	30	70	100	B17 EE 3101	Electrical Machines-II	3	3	1	--	4	30	70	100
B16 EE 3102	Power System Analysis and Stability	4	3	1	--	4	30	70	100	B17 EE 3102	Microprocessor & Microcontroller	3	3	1	--	4	30	70	100
B16 EC 3105	Linear Integrated & Pulse Circuits	4	3	1	--	4	30	70	100	B17 EE 3103	Electrical Power Generation, Transmission & Distribution	3	3	1	--	4	30	70	100
B16 EE 3103	Control Systems	4	3	1	--	4	30	70	100	B17 EE 3104	Control Systems	3	3	1	--	4	30	70	100
B16 EE 3104	Digital Electronics & Logic Design	4	3	1	--	4	30	70	100	B17 EE 3105	Digital Electronics & Logic Design	3	3	1	--	4	30	70	100
#1 EE-1	Elective-I	4	3	1	--	4	30	70	100	B17 EE 3106	Non-Conventional Energy Sources	3	3	1	--	4	30	70	100
B16 EE 3107	Electrical Machines-I Lab	2	--	--	3	3	50	50	100	B17 EE 3107	Electrical Machines Lab-I	2	--	--	3	3	50	50	100
B16 EC 3108	Linear Integrated Circuits & Pulse Circuits Lab with Simulation	2	--	--	3	3	50	50	100	B17 EE 3108	Microprocessor & Microcontroller Lab	2	--	--	3	3	50	50	100
B16 ENG 3102	Verbal & Quantitative Aptitude-I	2	5	--	--	5	100	--	100	B17 BS 3101	Problem Solving & Linguistic Competence	1	--	3	--	3	30	70	100
#M-I	MOOCs-I	2	4	--	--	4	100	--	100	B17 BS 3102	Basic Coding	1	--	--	3	3	50	50	100
Total												32	27	6	6	39	480	520	1000

#EE-I	B16 EE 3105	Computer Architecture and Organization
	B16 CS 3109	Database Management Systems
	B16 EE 3106	Digital Signal Processing
#M-I	B16 ENG 3103	Basic Coding
	B16 EE 3108A	Design of Photovoltaic Systems
	B16 EE 3108B	Architectural Design of Digital Integrated Circuits
	B16 EE 3108C	Recent Advances in Transmission Insulators

Code No.	Name of the Subject	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Contact Hrs/Week	Internal Marks	External Marks	Total Marks							
B17 BS 3109	IPR & Patents	--	--	2	--	2	--	--	--							
Total									24	18	11	9	38	360	640	1000

4) Suggested the corrections in course objectives for Network analysis and synthesis


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NETWORK ANALYSIS AND SYNTHESIS (B16 EE 2101)

Course Objectives:

1. To learn source free and forced responses of RL, RC and RLC circuits and evaluation of initial conditions
2. To learn the concept of two-port network analysis and find models using different parameter sets.
3. To learn the concepts of Laplace transform and its application to circuit analysis.
4. Fundamental understanding of the mathematics used to analyze, evaluate, and design transmission network problems.
5. Understand methods for designing transmission networks using synthesis by pole-zero methods, foster and cauer form methods.

NETWORK ANALYSIS AND SYNTHESIS (B17 EE 2101)

Course Objectives:

1. To learn various theorems and techniques in electric circuit analysis and to know their significance and applications.
2. To learn the concept of transient analysis of the electric circuit.
3. To learn the concept of Laplace transform and its application to circuit analysis.
4. To learn the concept of two-port network analysis and find models using different parameter sets.
5. To learn the concept of Network functions and the synthesis procedure for RC, LC, RL & RLC networks.

5) Suggested a chapter name change to magnetic coupled circuits and two port networks in network analysis and synthesis

SYLLABUS NETWORK ANALYSIS & SYNTHESIS(Code: B16 EE 2101)
Coupled Circuits & Two-port Network parameters:
 Magnetically coupled circuits, dot convention, reciprocity theorems, concept of duality, Two-port Network parameters - Z, Y, H & T parameters.

SYLLABUS NETWORK ANALYSIS & SYNTHESIS(Code: B17 EE 2101)
UNIT-IV Two Port Networks
 Two port network parameters - Z, Y, ABCD and Hybrid parameters and Interrelationship between different parameters.

6) Suggested to update for latest editions of reference and text books

SYLLABUS NETWORK ANALYSIS & SYNTHESIS(Code: B16 EE 2101)
Text Books:
 1. Engineering circuit analysis by W.H. Hayt Jr & J.E. Kemmerly, McGraw Hill Education; Eighth edition (4 August 2013).
Reference Books:
 1. Network analysis by M.E. Van Valkenberg, 3rd Edition, 2006, Prentice Hall India Learning Private Limited.
 2. Modern network synthesis by M.E. Van Valkenberg, John Wiley & Sons, 1966.

SYLLABUS NETWORK ANALYSIS & SYNTHESIS(Code: B17 EE 2101)
Text Books:
 1. Engineering Circuit Analysis, William H Hayt Jr. and Jack E. Kemmerly, 5th Edition, McGraw Hill International Edition.
 2. Introduction to Modern Network Synthesis, Van Valkenburg, John Wiley
Reference Books:
 1. Network analysis, M.E. Van Valkenberg, 3rd Ed., phi Fee pub.
 2. Network Analysis & Synthesis, F.F. Kuo, John Wiley & Sons Inc.
 3. Circuit Theory Analysis and Synthesis, Edition 2014 Abhijit Chakraborti, Dhanpat Rai & Co.
 4. Network Analysis, 3rd Ed. A. Sudhakar Shyamshobhan, SPallu Tata McGraw Hill Education Pvt Ltd.

7) Suggested to maintain five course objectives for all subjects

8) Suggested power system text book by Dr B.R. Gupta

Text Books:

1. Power System Engineering by J.G. Nagarith & D.P. Kothari, 4th Edition TMH Publication
2. Elements of Power System Analysis, William D. Stevenson, Jr, Mc Graw Hill Pub first edition, 1955.
3. Power System Analysis And Design By Dr. B.R.Guptha, S Chand & Company, Aug 2005.

9) Suggested to increase number of chapters in prime movers and pumps (R16 to R17)



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SYLLABUS : PRIME MOVERS & PUMPS(Code: B17ME2206)

H. Nagappa Reddy

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UNIT-I I.C Engines:

Classification, working principles – valve and port timing diagrams – air standard cycles Otto, diesel -P-V and T-S diagram, thermal efficiency– Engine systems line fuel injection, carburetion, ignition, cooling, Engine performance evaluation.

UNIT-II Properties of Steam and use of Steam Tables:

T-S and H-S Diagrams, Analysis of Various Thermodynamic Processes undergone by Steam. Vapor Power Cycles: Carnot Cycle-Rankine Cycle- Thermodynamic Variables Effecting Efficiency and output of Rankine Cycle-. Analysis of simple Rankine Cycle and Re-heat cycle.

UNIT- III Gas Turbines:

Simple gas turbine plant-ideal cycle, closed cycle -open cycle-. Efficiency, Work ratio and optimum pressure ratio for simple gas turbine cycle. Actual cycle, analysis of simple cycles & cycles with inter cooling, reheating

Steam Turbines: Classification of Steam Turbines Impulse Turbine and Reaction Turbine- Compounding in Turbines- Velocity Diagrams for simple Impulse and Reaction Turbines- Work done & efficiency

Part-B: Hydro prime movers**UNIT-IV Impact Of Jets And Pumps:**

Impulse momentum equation, Impact of Jet on stationary and moving vanes (flat and curved).

PUMPS: Types of pumps, Centrifugal pumps: Main components, Working principle, Multi stage pumps, Performance and characteristic curve

UNIT-V: Hydraulic Turbines:

Classification of turbines; Working principle, Efficiency calculation and Design principles for Pelton Wheel, Francis and for Kaplan turbines; Governing of turbines; Performance and characteristic curves.

Text Books:

1. Thermal Engineering by Rajput, Lakshmi publications
2. Thermal engineering by M.L.Mathur and F.S.Mehta, Jain Brothers.
3. "Hydraulics & Fluid Mechanics", P.N. Modi and S.M. Seth, TEXT BOOKS House, Delhi
4. "Fluid Mechanics & Hydraulic Machinery" A.K.Jain, , Khanna Publishers, Delhi.

10) Students have given suggestion to reduce the burden on 3rd and 4th year syllabus for R16 regulation




Head of EEE Department
S.R.K.R. Engg. College
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H. Nagappa Reddy

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principalsrkrec@gmail.com

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PROCEEDINGS OF THE PRINCIPAL

Ref. No: SRKREC/Committee/BoS/EEE/2

Date: 05-07-2017

Sub: Appointment of BoS members for Electrical and Electronics Engineering (EEE) department-Reg.

The following members are nominated as Board of Studies members for the Department of Electrical and Electronics Engineering (EEE). This order will come into force with immediate effect until further orders.

S.No	Name	Position in the committee	Associated with
01	Dr. P. Kanta Rao	Chairman	Prof & Head SRKREC
02	Dr. B.R.K. Varma	Faculty of each Specialization	Professor, SRKREC
03	Sri N. Srinivasu		Professor, SRKREC
04	Dr. M. Sai Veerraju		Professor, SRKREC
05	Sri D.J.V. Prasad		Associate Professor, SRKREC
06	Dr. M. Damodar Reddy		Professor, Department of Electrical Engineering S.V. University, Tirupati.
07	Dr. Ch.V.V.S. Bhaskara Reddy	Experts from Other Universities	Professor, Department of Electrical Engineering, Andhra University, Visakhapatnam.
08	Dr. Sachin Jain		Assistant Professor, NIT Warangal
09	Dr. K.Vaisakh	AU Nominee	Prof & HOD of Electrical Engineering, AU, Dean of Academics AU
	Dr. R. Sreenivasa Rao	JNTUK Nominee	Professor, UCE, JNTUK
10	Dr. G.K. Vishwanadha Raju	Expert from Research Organization	Lead Engineer, G.E, Bengaluru
11	Dr. Ch. Chandra Shekhar	Expert from Industry	Project Manager, Hyundai MobisInd,Ltd, Hyderabad
12	Dr. P. Prabhakar Rao	Expert from Industry	Engineering Supervisor, Caterpillar India Pvt Ltd
13	G.Rajesh	Student Representative	Third Year Student
14	I.Balasai Ram	Student Representative	Second Year Student

c.c.to:

1. Principal's table
2. HOD-EEE,
3. All the above Members 4 Office file.

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S.R.K.R. Engineering Colleg.
(Autonomous)
China Amiram, Bhimavaram-534 204

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PRINCIPAL



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gpsvarma@gmail.com

WebSite : www.srkrec.ac.in

SRKREC/BOS-1/EEE/2017-18

Date: 08.07.2017

To

Dr. M. Damodar Reddy
Professor
Department of EEE
SV University, Tirupati..

Dear Sir,

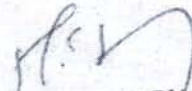
Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Regarding

We wish to inform you that the meeting of the Joint Board of Studies will be held on 16.07.2017 at 11-00 A.M in A.C. Auditorium.

The Boards of Studies meetings will be conducted in respective departments as per the schedule mentioned below:

S.No.	BOARD	DATE	TIME
1	Civil Engineering	16-07-2017	2.00 P.M
2	Computer Science & Engineering	16-07-2017	2.00 P.M
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6	Mechanical Engineering	16-07-2017	2.00 P.M
7	Combined Board of Studies in Engineering Chemistry/Engineering Mathematics/Engineering Physics / Humanities and Social Sciences	16-07-2017	2.00 P.M

The T.A / D.A. will be paid to all the external members as per the university guidelines.
We request you to make it convenient to attend the meetings.


PRINCIPAL
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BHIMAVARAM-534 204.



Yours faithfully,



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S.R.K.R. Engg. College
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gpsvarma@gmail.com

WebSite : www.srkrec.ac.in

SRKREC/BOS-1/EEE/2017-18

Date: 08.07.2017

To

Dr. Ch.V.V.S. Bhaskar Reddy
Professor
Department of EEE
Andhra University
Visakhapatnam - 530 003.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Regarding

We wish to inform you that the meeting of the Joint Board of Studies will be held on 16.07.2017 at 11-00 A.M in A.C. Auditorium.

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The T.A / D.A. will be paid to all the external members as per the university guidelines. We request you to make it convenient to attend the meetings.

Yours faithfully,

G.P.S. Saradhi Varma

PRINCIPAL
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WebSite : www.srkrec.ac.in

SRKREC/BOS-1/EEE/2017-18

Date: 08.07.2017

To

Dr. Sachin Jain
Assistant Professor
Department of EEE
NIT-Warangal.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Regarding

We wish to inform you that the meeting of the Joint Board of Studies will be held on 16.07.2017 at 11-00 A.M in A.C. Auditorium.

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The T.A / D.A. will be paid to all the external members as per the university guidelines.
We request you to make it convenient to attend the meetings.

Yours faithfully,

G.P.S.

PRINCIPAL

PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204.

G.P.S.
PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204



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WebSite : www.srkrec.ac.in

SRKREC/BOS-1/EEE/2017-18

Date: 08.07.2017

To

Prof. K.Vaisakh

Department of EEE

Andhra University

Visakhapatnam - 530 003.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Regarding

We wish to inform you that the meeting of the Joint Board of Studies will be held on 16.07.2017 at 11-00 A.M in A.C. Auditorium.

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We request you to make it convenient to attend the meetings.

Yours faithfully,

G.P. Saradhi Varma

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S.R.K.R. Engg. College

BHIMAVARAM-534 204.



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gpsvarma@gmail.com

WebSite : www.srkrec.ac.in

SRKREC/BOS-1/EEE/2017-18

Date: 08.07.2017

To

Dr. R. Srinivasa Rao

Professor, Dept. of EEE

University College of Engineering Kakinada

JNTUK, Kakinada.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Regarding.

We are happy to inform you that you have been nominated as Member of Board of Studies to our EEE Department by JNTUK, Kakinada. We request you to kindly give your expert advise in designing of the curriculum to maintain quality in Academics.


In this connection, we wish to inform you that the meeting of the Joint Board of Studies will be held on 16.07.2017 at 11-00 A.M in A.C. Auditorium.

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The T.A / D.A. will be paid to all the external members as per the university guidelines. We request you to make it convenient to attend the meetings.

Encl: Copy of JNTUK Nomination Letter


PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204

Yours faithfully,



PRINCIPAL

PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204.



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WebSite : www.srkrec.ac.in

SRKREC/BOS-1/EEE/2017-18

Date: 08.07.2017

To

Dr. G.K. Viswanadha Raju
Lead Engineer
GE, Bengaluru

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Regarding

We wish to inform you that the meeting of the Joint Board of Studies will be held on 16.07.2017 at 11-00 A.M in A.C. Auditorium.

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G.P.S. Saradhi Varma

PRINCIPAL

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SRKREC/BOS-1/EEE/2017-18

Date: 08.07.2017

To

Sri Ch. Chandra Sekhar
Project Manager
Hyundai Mobis Ind. Ltd.
Hyderabad.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Regarding

We wish to inform you that the meeting of the Joint Board of Studies will be held on 16.07.2017 at 11-00 A.M in A.C. Auditorium.

The Boards of Studies meetings will be conducted in respective departments as per the schedule mentioned below:

S.No.	BOARD	DATE	TIME
1	Civil Engineering	16-07-2017	2.00 P.M
2	Computer Science & Engineering	16-07-2017	2.00 P.M
3	Electronics & Communication Engineering	16-07-2017	2.00 P.M
4	Electrical & Electronics Engineering	16-07-2017	2.00 P.M
5	Information Technology	16-07-2017	2.00 P.M
6	Mechanical Engineering	16-07-2017	2.00 P.M
7	Combined Board of Studies in Engineering Chemistry/Engineering Mathematics/Engineering Physics / Humanities and Social Sciences	16-07-2017	2.00 P.M

The T.A / D.A. will be paid to all the external members as per the university guidelines.
We request you to make it convenient to attend the meetings.

Yours faithfully,

G.P.S.

PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204.



PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204.

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Dr. G. P. Saradhi Varma

B.Tech.(CSE), M.Tech.(CSE), Ph.D.(CSE).

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Mobile No.98483 81818

Email: principal@srkrec.ac.in

principalsrkrec@gmail.com

gpsvarma@gmail.com

WebSite : www.srkrec.ac.in

SRKREC/BOS-1/EEE/2017-18

Date: 08.07.2017

To

Sri P. Prabhakar Rao
Engineering Supervisor 2
Caterpillar India Pvt Ltd.
Bangalore

Dear Sir,


Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Regarding

We wish to inform you that the meeting of the Joint Board of Studies will be held on 16.07.2017 at 11-00 A.M in A.C. Auditorium.

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Yours faithfully,



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BHIMAVARAM-534 204.



**SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE(A)
CHINNA AMIRAM :: BHIMAVARAM 534204
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

Dt:07-07-2017

CIRCULAR

This is to inform you that the Department of Electrical And Electronics Engineering will hold a meeting on 16-07-17 at 2.00P.M in U-303(EEE Seminar Hall) of Electrical And Electronics Engineering Department. In this connection, all the members of Board of studies are requested to attend the same.

Agenda:

- 1) To discuss and finalize Scheme and syllabus for 1st year B.Tech.
- 2) To discuss and finalize Scheme and syllabus for M.Tech.
- 3) Any other items for discussion with permission of the chair.

C.C to

1.The members of Board of Studies

2.Office file




Head of the Department

Head of EEE Department
S.R.K.R. Engg. College
BHIMAVARAM-534 204.



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BHIMAVARAM-534 204.**



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Date:16-07-2017

Members of Board of Studies

S.NO	category	NAME	DESIGNATION	SIGNATURE
1	chairman	Dr. P Kanta Rao	Prof & Head SRKREC	
2	Expert from other university	Dr. K. Vaisakh	Prof & HOD of Electrical Engineering, AU, Dean of Academics AU	NOT PRESENT
3	University Nominee	Dr. R. Srinivas Rao	Prof, JNTUK	
4	Expert from other university	Dr. M. Damodar Reddy	Prof, S.V. University	
5	Expert from other university	Dr. Ch. V.V.S Bhaskara Reddy	Prof, Andhra University	
6	Expert from other university	Dr. Sachin Jain	Assistant Professor, NIT Warangal	NOT PRESENT
7				
8	Industry expert	Dr. Ch. Chandra Shekhar	Project Manager, Hyundai Mobis Ind, Ltd, Hyderabad	NOT PRESENT
9	Industry expert	Dr. P. Prabhakar Rao	Engineering Supervisor, Caterpillar India Pvt Ltd	NOT PRESENT
10	Research organization	Dr. G.K. Vishwanadha Raju	Lead Engineer, G.E, Bengaluru	NOT PRESENT
11	Faculty of each specialization	Dr. B.R.K. Varma	Professor, SRKREC	
12		Sri N. Srinivasu	Professor, SRKREC	
13		Dr. M. Sai veerraju	Professor, SRKREC	
14		Sri. D.J.V Prasad	Associate Professor, SRKREC	
15	Student Representative	Yeswanth	Final Year student	NOT PRESENT
16	Student Representative	P. Chandra shekhar	Third Year student	NOT PRESENT.

Agenda:

- 1) Finalization of 1/4 B.Tech scheme
- 2) Finalization of 1/4 B.Tech syllabus
- 3) Finalization of M.Tech scheme & syllabus

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Minutes of meeting-

First BOS meeting held on 16-07-2017, under JNTUK affiliation at EEE department, SRKREC.

Minutes of Meeting

- 1) Suggested to change the syllabus in circuit Theory & Network Analysis & synthesis.
- 2) Suggested to change the syllabus in distribution system (M-Tech)



[Signature] 16/7/2017
 Chairman BOS
 Head of EEE Department
 S.R.K.R. Engg. College
 BHIMAVARAM - 534 204

[Signature]

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 S.R.K.R. Engg. College
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RESOLUTIONS FOR THE MEETING DATED 16-07-2017

1) Suggested to change syllabus in circuit theory and network analysis and synthesis



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SYLLABUS: CIRCUIT THEORY(B17 EE 1201)

UNIT-I: Introduction to Electrical Circuits:

Passive components and their V-I relations. Sources (dependent and independent) - Kirchhoff's laws, Network reduction techniques (series, parallel, series-parallel, star-to-delta and delta-to-star transformation), Source transformation technique, nodal analysis and mesh analysis.

UNIT-II: Network topology:

Definitions of Graph and Tree, Basic cutset and forest matrices for planar networks, Loop and nodal methods of analysis of networks with dependent and independent voltage and current sources, Duality and Dual networks.

UNIT-III: Magnetic Circuits:

Basic definition of MMF, flux and reluctance. Analogy between electrical and magnetic circuits. Faraday's laws of electromagnetic induction. Concept of self and mutual inductance. Dot convention-coefficient of coupling and composite magnetic circuit. Analysis of series and parallel magnetic circuits.

UNIT-IV: Single Phase AC Systems:

Periodic waveforms (determination of rms, average value and form factor) Concept of phase angle and phase difference - Waveforms and phasor diagrams for lagging, leading networks. Complex and polar forms of representations, steady state analysis of R, L and C circuits. Power Factor and its significance - Real, Reactive, Apparent and Complex power. Node and mesh analysis of AC networks, Series and parallel resonance. Numerical problems.

UNIT-V: Three Phase Circuits:

Advantages of Three Phase Circuits, Balanced and Unbalanced systems, Relation between Line and Phase Quantities in Star and delta connected circuits, Analysis of Balanced & Unbalanced Three Phase Circuits.



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SYLLABUS: CIRCUIT THEORY(B16 EE 1201)

Fundamentals of Electric Circuits

Concepts of Electric circuit: EMF, Current, Potential difference, Power and Energy; Concepts of Network: Active and Passive elements, classification of Linear, Non-linear, Unilateral, Bilateral Lumped and Distributed elements; Reference directions for current and voltage; Voltage and Current sources; Voltage-Current Relations of R, L, C elements; Voltage and Current division; Series and Parallel combinations of Resistance, Inductance and Capacitance

D.C. Circuits

Kirchhoff's Laws, Nodal Analysis, Mesh Analysis, Source Transformation, Linearity and Superposition Theorem, Thevenin's And Norton's Theorems, Reciprocity theorem, Maximum Power Transfer Theorem, Star-Delta Transformation.

AC Circuits

The Sinusoidal Forcing Function, Phasor Concept, Average and Effective Values of Voltage and Current, Instantaneous and Average Power, Complex Power, Steady State Analysis using Mesh and Nodal Analysis, Resonance.

Three Phase Circuits

Advantages of Three Phase Circuits, Balanced and Unbalanced systems, Relation between Line and Phase Quantities in Star and delta connected circuits, Analysis of Balanced & Unbalanced Three Phase Circuits, Measurement of Power in Three Phase Power Circuits.

Magnetic Circuits

Magneto motive force(MMF), Reluctance, Magnetic flux; Analysis of magnetic circuit, Analogy between Electric & Magnetic circuits, Series Magnetic circuits, Magnetic leakage, B-H curve, Faraday's Laws of Electromagnetic Induction, Induced EMF, Dynamically Induced EMF, Statically Induced EMF, Self-Inductance, Mutual Inductance (simple numerical problems)



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SYLLABUS: NETWORK ANALYSIS AND SYNTHESIS(BE16EE2101)

DC Transients:

Inductor, capacitor, source free RL, RC & RLC response, evaluation of initial conditions, application of unit-step function to RL, RC & RLC circuits, concepts of natural, forced and complete response.

Laplace Transform Techniques:

Transforms of typical signals, response of simple circuits to unit step, ramp and impulse functions, initial and final value theorems, convolution integral, time shift and periodic functions, transfer function

Coupled Circuits & Two-port Network parameters:

Magnetically coupled circuits, dot convention, reciprocity theorems, concept of duality, Two-port Network parameters - Z, Y, H & T parameters.

Network Functions:

Generalized network functions(driving point and transfer), Network functions for ladder & T-networks, concept of poles and zeros, determination of free and forced response from poles and zeros.

Network synthesis

Synthesis problem formation, Hurwitz polynomials, properties and test for positive real functions, circuitary synthesis operations, Foster and Cauer Forms of LC, RC and RL networks.



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SYLLABUS: NETWORK ANALYSIS AND SYNTHESIS(BE16EE2101)

UNIT-I: Network theorems

Linearity and Superposition theorem, Thevenin's theorem, Norton's theorem, Maximum Power Transfer theorem, Reciprocity theorem, Millman's theorem, Tellegen's theorem, Compensation theorem.

UNIT-II DC Transients

Inductor, Capacitor, Source free RL, RC and RLC Response, Evaluation of Initial conditions, application of Unit-step Function to RL, RC and RLC Circuits (Differential equations), Concepts of Natural, Forced and Complete Response.

UNIT-III Laplace Transform Techniques

Transforms of Typical Signals, Response of Simple Circuits to Unit - Step, Ramp and Impulse Functions, Initial and Final Value Theorem, Convolution Integral, Time Shift and Periodic Functions, Transfer Function

UNIT-IV Two Port Networks

Two port network parameters - Z, Y, ABCD and Hybrid parameters and Interrelationship between different parameters.

UNIT-V Network Functions & Synthesis

Network Functions, Concept of Poles and Zeros, Restriction of Poles and Zeros for Driving point and transfer function, Hurwitz Polynomial, Positive real function - basic synthesis procedure - Foster and Cauer forms of LC, RC and RL networks.

H. Nagapathi Reddy

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2) SUGGESTED TO CHANGE THE SYLLABUS IN DISTRIBUTION SYSTEM(M.Tech)



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ELECTRICAL DISTRIBUTION SYSTEMS (M17 PS 1112)

UNIT-I: Distribution System Basics:

Brief description about electrical power transmission and distribution systems, Different types of distribution sub-transmission systems, Substation bus schemes, Factors effecting the substation location, Factors effecting the primary feeder rating, types of primary feeders, Factors affecting the primary feeder voltage level, Factors affecting the primary feeder loading

UNIT-II: Distribution System Loads:

Various types of loads, Definitions of various terms related to system loading, Detailed description of distribution transformer loading, feeder loading, Modelling of star and delta connected loads, two-phase and single-phase loads, shunt capacitors

UNIT-III: Substations and feeders:

Rating of a distribution substation for square and hexagonal shaped distribution substation service area, Derivation of K constant, Radial feeder with uniformly and non-uniformly distributed loading

UNIT-IV: Distribution System Load Flow:

Exact line segment model, Modified line model, approximate line segment model, Review of the two-winding transformer theory, two-winding auto transformer, Step-Voltage Regulators, Line drop compensator, Forward and Backward sweep distribution load flow algorithm

UNIT-V: Voltage Drop and Power loss Calculation:

Detailed analysis of non-three phase primary lines, concepts of four-wire multi-grounded common-neutral distribution system, Percent power loss calculation, Distribution feeder cost calculation methods, Capacitor installation types, types of three-phase capacitor-bank connections, Economic justification for capacitors

Advanced topics in Distribution Systems: Basic reliability indices, Calculation of SAIDI and SAIFI, Distribution automation communication protocols: MODBUS, DNP 3.0, IEC 60870-5-101, IEC 60870-5-102, IEC 61850, Brief description of Smart-grid, Micro-grid, and Nano-grid with simple examples, Concepts of distributed generation

ELECTRIC POWER DISTRIBUTION SYSTEM (M19PS1103)

UNIT-I (16 Hrs)	Distribution of Power, Management, Power Loads, Load Forecasting Short-term & Long-term, Power System Loading, Technological Forecasting, Advantages of Distribution Management System (DMS), Distribution Automation: Definition, Restoration / Reconfiguration of Distribution Network, Different Methods and Constraints, Power Factor Correction
UNIT-II (8 Hrs)	Distribution system - reliability analysis - reliability concepts - Markov model - distribution network reliability - reliability performance
UNIT-III (8 Hrs)	Distribution system expansion - planning - load characteristics - load forecasting - design concepts - optimal location of substation - design of radial lines - solution technique
UNIT-IV (8 Hrs)	Calculation of Optimum Number of Switches, Capacitors, Optimum Switching Device Placement in Radial, Distribution Systems, Sectionalizing Switches - Types, Benefits, Bellman's Optimality Principle, Remote Terminal Units, Energy efficiency in electrical distribution & Monitoring
UNIT-V (8 Hrs)	Maintenance of Automated Distribution Systems, Difficulties in Implementing Distribution Automation in Actual Practice, Urban Rural Distribution, Energy Management, AI techniques applied to Distribution Automation

[Signature]
 Head of EEE Department
 S.R.K.R. Engg. College
 BHIMAVARAM-534 204.



[Signature]

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Website : www.srkrec.ac.in

Dr.G.P.Saradhi Varma

B.Tech (CBE), M.Tech (CBE), Ph.D (CSE)

PRINCIPAL



SRKREC/BOS-2/EEE/2017-18

Date: 30.04.2018

To
Dr. M. Damodar Reddy
Professor
Department of EEE
SV University, Tirupati.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Regarding

We wish to inform you that the meeting of the Joint Board of Studies meeting will be held on 08.05.2018 at 11-00 A.M in A.C. Auditorium.

We request you to kindly attend the meeting and give your expert advice in designing the curriculum to maintain quality in academics.

The Boards of Studies meetings will be conducted in respective departments as per the schedule mentioned below:

S.No.	BOARD	DATE	TIME
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Yours faithfully,

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Dr.G.P.Saradhi Varma

B.Tech (CSE), M.Tech (CSE), Ph.D (CSE)

PRINCIPAL



SRKREC/BOS-2/EEE/2017-18

Date: 30.04.2018

To
Dr. Ch.V.V.S. Bhaskar Reddy
Professor
Department of EEE
Andhra University
Visakhapatnam - 530 003.

Dear Sir,

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Dr.G.P.Saradhi Varma

B.Tech (CSE), M.Tech (CSE), Ph.D (CSE)

PRINCIPAL



SRKREC/BOS-2/EEE/2017-18

Date: 30.04.2018

To
Dr. Sachin Jain
Assistant Professor
Department of EEE
NIT-Warangal

Dear Sir,

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Dr.G.P.Saradhi Varma

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PRINCIPAL



SRKREC/BOS-2/EEE/2017-18

Date: 30.04.2018

To
Prof. K.Vaisakh
Department of EEE
Andhra University
Visakhapatnam - 530 003.

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principalsrkrec@gmail.com

principal@srkrec.ac.in

Website : www.srkrec.ac.in

Dr.G.P.Saradhi Varma

B.Tech (CSE), M.Tech (CSE), Ph.D (CSE)

PRINCIPAL



SRKREC/BOS-2/EEE/2017-18

Date: 30.04.2018

To
Dr. R. Srinivasa Rao
Professor, Dept. of EEE
University College of Engineering Kakinada
JNTUK, Kakinada.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Regarding


We wish to inform you that the meeting of the Joint Board of Studies meeting will be held on 08.05.2018 at 11-00 A.M in A.C. Auditorium.

We request you to kindly attend the meeting and give your expert advice in designing the curriculum to maintain quality in academics.

The Boards of Studies meetings will be conducted in respective departments as per the schedule mentioned below:


S.No.	BOARD	DATE	TIME
1	Civil Engineering	08-05-2018	2.00 P.M
2	Computer Science & Engineering	08-05-2018	2.00 P.M
3	Electronics & Communication Engineering	08-05-2018	2.00 P.M
4	Electrical & Electronics Engineering	08-05-2018	2.00 P.M
5	Information Technology	08-05-2018	2.00 P.M
6	Mechanical Engineering	08-05-2018	2.00 P.M
7	Combined Board of Studies in Engineering Chemistry/Engineering Mathematics/Engineering Physics / Humanities and Social Sciences	08-05-2018	2.00 P.M

The T.A / D.A. will be paid to all the external members as per the university guidelines. We request you to make it convenient to attend the meetings.


PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204.



Yours faithfully,


PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204.

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS)

(AFFILIATED TO JNTU KAKINADA, KAKINADA) (RECOGNISED BY ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, NEW DELHI)

Accredited by NAAC with 'A' Grade

Recognised as Scientific and Industrial Research Organisation

CHINNA AMIRAM (P.O) :: BHIMAVARAM :: W.G.Dt., A.P., INDIA :: PIN: 534 204

Phones : Off : EPABX : 08816-223332 Ext.201

Direct : 08816-222748

Fax : 08816-224516

College Fax : 08816-229377

Mobile No : 98483 81818

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Dr.G.P.Saradhi Varma

B.Tech (CSE), M.Tech (CSE), Ph.D (CSE)

PRINCIPAL



SRKREC/BOS-2/EEE/2017-18

Date: 30.04.2018

To
Dr. G.K. Viswanadha Raju
Lead Engineer
GE, Bengaluru.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Regarding


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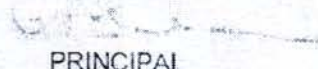
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Dr.G.P.Saradhi Varma

B.Tech (CSE), M.Tech (CSE), Ph.D (CSE)

PRINCIPAL



SRKREC/BOS-2/EEE/2017-18

Date: 30.04.2018

To
Sri Ch. Chandra Sekhar
Project Manager
Hyundai Mobis Ind. Ltd.
Hyderabad

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Regarding


We wish to inform you that the meeting of the Joint Board of Studies meeting will be held on 08.05.2018 at 11-00 A.M in A.C. Auditorium.

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Dr.G.P.Saradhi Varma

B.Tech (CSE), M.Tech (CSE), Ph.D (CSE)

PRINCIPAL



SRKREC/BOS-2/EEE/2017-18

Date: 30.04.2018

To
Sri P. Prabhakar Rao
Engineering Supervisor 2
Caterpillar India Pvt Ltd.
Bangalore

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Regarding

We wish to inform you that the meeting of the Joint Board of Studies meeting will be held on 08.05.2018 at 11-00 A.M in A.C. Auditorium.

We request you to kindly attend the meeting and give your expert advice in designing the curriculum to maintain quality in academics.

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**SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE(A)
CHINNA AMIRAM :: BHIMAVARAM 534204
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

Dt:28-04-2018.

CIRCULAR

This is to inform you that the Department of Electrical And Electronics Engineering will hold a meeting on 08-05-18 at 2.00P.M in D-207(P.G Simulation lab) of Electrical And Electronics Engineering. In this connection, all the members of Board of studies are requested to attend the same.

Agenda:

- 1) To discuss about syllabus for the 3rd year B.Tech(R16) courses related to Electrical And Electronics Engineering branch as per the schemes finalized.
- 2) To discuss about syllabus for the 2nd year B.Tech(R17) courses related to Electrical And Electronics Engineering branch as per the schemes finalized.
- 3) Any other items for discussion with permission of the chair.

C.C to

1.The members of Board of Studies

2.Office file




Head of the Department

Head of EEE Department
S.R.K.R. Engg. College
BHIMAVARAM-534 204.


**PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204.**



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Date:08-05-2018

Members of Board of Studies

S.NO	category	NAME	DESIGNATION	SIGNATURE
1	chairman	Dr. P Kanta Rao	Prof &Head SRKREC	
2	JNTUK Nominee	Dr.R.Srinivasa Rao	Professor,UCEK,JNTUK	NOT PRESENT
3	Andhra University Nominee	Dr. K.Vaisakh	Prof &HOD of Electrical Engineering,AU,Dean of Academics AU,Visakapatnam	
4	Expert from other university	Dr.M.Damodar Reddy	Professor Department of Electrical Engineering S.V.University,Tirupati	
5	Expert from other university	Dr.Ch.V.V.S Bhaskara Reddy	Professor, Department of Electrical Engineering,AU,Visakapatnam	
6	Expert from other university	Dr.Sachin Jain	Assistant Professor,Department of Electrical Engineering NIT Warangal	NOT PRESENT
7	Industry expert	Dr. Ch.Chandra Shekhar	Project Manager, Hyundai Mobis Ind,Ltd,Hyderabad	NOT PRESENT
8	Industry expert	Dr. P. Prabhakar Rao	Engineering Supervisor,Caterpillar India Pvt Ltd	NOT PRESENT
9	Expert from Research organization	Dr.G.K.Vishwanadha Raju	Lead Engineer,G.E,Bengaluru	NOT PRESENT
10	Faculty of each specialization	Dr.B.R.K.Varma	Professor, SRKREC	
11		Sri N. Srinivasu	Professor, SRKREC	
12		Dr.M.Sai veerraju	Professor, SRKREC	
13		Sri.D.J.V Prasad	Associate Professor, SRKREC	
14	Student Representative	P.Sravan Kumar	Final Year student	
15	Student Representative	S.Ramesh	Third Year student	

Agenda:

- 1) Syllabus for the 3rd year B.Tech (R-16) courses related to the Electrical & Electronics Engineering branch as per the schemes finalized in the joint board of studies meeting.
- 2) Syllabus for the 2nd year B.Tech (R-17) courses related to the Electrical & Electronics Engineering branch as per the schemes finalized in the joint board of studies meeting.

H. Nagappa Reddy
S.R.K.R. Engg. College
BHIMAVARAM-534 204.

Minutes of Meeting

A BOS Meeting was held on 08-05-2018, for III year B.Tech (R-16) courses & IInd year B.Tech (R-17) Courses for EEE department under AU & JNTUK. respectively.

Minutes of Meeting

1. Suggested to select MOOCS courses from SWAYAM.
2. MOOCS should have two hours according to their credits.
3. Operation Research (OR) subject is moved to 4th year 1st sem from 3rd year 1st sem.
4. Modified the R16 Syllabus according to suggestions
 - a. PSAS-III year I sem
 - b. PSP- III year II sem
 - c. PSOC- IV year I sem
 - d. OR- IV year I sem
5. Modified the syllabus of Electrical Machines-II
6. Arrange courses objects of Control Systems subject according to syllabus.
7. Suggestions from the students based on feedback was taken while framing the course curriculum.
8. List of Experiments for each lab should be 12 experiments.
9. DELD textbook updated to Morris Mano 3rd Edition.



H. Jagapathi Reddy
 PRINCIPAL
 S.R.K.R. Engg. College
 BHIMAVARAM-534 204.

[Signature]
 Chairman BOS
 Head of EEE Department
 S.R.K.R. Engg. College
 BHIMAVARAM-534 204
 8/5/2018

RESOLUTIONS FOR THE MEETING DATED 08-05-2018

- 1) Suggested to select MOOCs Courses from SWAYAM
- 2) Moocs Should have According to their credits
- 3) Operation research moved to 4th year 1st sem from 3rd year 1st sem

Code: B16EE4105

Code: B17EE4104

- 4) Modified the R16 syllabus according to suggestions



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POWER SYSTEM ANALYSIS AND STABILITY (B16 EE 3102)

P.U. Representation: Single Line Diagram, Per Unit Quantities, P.U. Impedance of 3-Winding Transformers, P.U. Impedance Diagram of a Power System.

Load Flow Studies: Formulation of Network Matrices, Load Flow Problem, Gauss-Seidel Method, Newton-Raphson Method & Fast Decoupled Method of Solving Load Flow Problem.

Symmetrical Fault Analysis: 3-Phase Short Circuit Currents and Reactance's of a Synchronous Machine, Fault Limiting Reactors.

Symmetrical Components: The Symmetrical Components, Phase Shift in Delta-Star Transformers, 3-Phase Power in terms of Symmetrical Components, Un-Symmetrical Faults: Various Types Of Faults - LG, LL, LLG on an Unloaded Alternator, Sequence Impedances and Sequence Networks.

Power System Stability: Concepts of Stability (Steady State And Transient), Swing Equation, Equal Area Criterion, Critical Clearing Angle and Time for Transient Stability, Step by Step Method of Solution, Factors Affecting Transient Stability.

POWER SYSTEM ANALYSIS AND STABILITY (B17EE 3203)

UNIT I P.U. REPRESENTATION: Single Line Diagram, Per Unit Quantities, P.U. Impedance of 3-Winding Transformers, P.U. Impedance Diagram of a Power System.

UNIT II LOAD FLOW STUDIES: Formulation of Network Matrices, Load Flow Problem, Gauss-Seidel Method, Newton-Raphson Method & Fast Decoupled Method of Solving Load Flow Problem.

UNIT III SYMMETRICAL FAULT ANALYSIS: 3-Phase Short Circuit Currents and Reactance's of a Synchronous Machine, Fault Limiting Reactors.

UNIT IV SYMMETRICAL COMPONENTS: The Symmetrical Components, Sequence Impedances and Sequence Networks, Phase Shift in Delta-Star Transformers, 3-Phase Power in terms of Symmetrical Components.

UN-SYMMETRICAL FAULTS: LG, LL and LLG Faults on an Unloaded Alternator.

UNIT V POWER SYSTEM STABILITY: Concepts of Stability (Steady State And Transient), Swing Equation, Equal Area Criterion, Critical Clearing Angle and Time for Transient Stability, Step by Step Method of Solution, Factors Affecting Transient Stability.



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POWER SYSTEM PROTECTION (B16 EE 3203)

Introduction to Power System Protection: Need for protective systems, Nature and causes of faults, Types and effects of faults, Fault statistics, Evolution of protective relays, Zones of protection, Primary and back-up protection, Essential qualities of protection, Classification of protective relays, Classification of Protective Scheme, CTs and PTs and their applications in protection schemes, Saturated transformer, Phase-sequence current segregating network, Basic relay terminology.

Fuses and Circuit Breakers: Fuses and their types, High-voltage HRC fuses and their applications, Selection of fuses, Circuit breakers, Formation of arc, Methods of arc extinction, Restriking voltage, Recovery voltage, RRRV, Single and double frequency transients, Resistance switching, Current chopping, Switching of capacitor banks and unloaded lines, Ratings and characteristics of circuit breakers.

Types of Circuit Breakers and Testing: Principle of operation of circuit breakers, Classification of circuit breakers, Constructional Features of Air Circuit Breakers, Oil Circuit Breakers, Air Blast Circuit Breakers, SF₆ Circuit Breakers and Vacuum Circuit Breakers, Testing of Circuit Breakers.

Protective Relays: Different types of protective relays, Principle of operation and characteristics of relays, Overcurrent, Earth fault and Phase fault protection, Differential and Distance protection with simple applications to Alternators, Transformers, Single and parallel feeders, Introduction to Static relaying, Static relays for time lag Overcurrent and Differential Protection.

Overvoltage Protection: Causes of over voltages, Over voltages due to Lightning, Protection against Lightning and Travelling Waves - Earth Wire, Spark Gap, Surge Arresters, Lightning Arresters, Surge Absorber, Peterson Coil, Insulation Co-ordination.

POWER SYSTEM PROTECTION (B17EE3205)

UNIT-I: Introduction to Power System Protection: Need for protective systems, Nature and causes of faults, Types and effects of faults, Fault statistics, Evolution of protective relays, Zones of protection, Primary and back-up protection, Essential qualities of protection, Classification of protective relays, Classification of Protective Scheme, CTs and PTs and their applications in protection schemes, Saturated transformer, Phase-sequence current segregating network, Basic relay terminology.

UNIT-II: Fuses and Circuit Breakers: Fuses and their types, High-voltage HRC fuses and their applications, Selection of fuses, Circuit breakers, Formation of arc, Methods of arc extinction, Restriking voltage, Recovery voltage, RRRV, Single and double frequency transients, Resistance switching, Current chopping, Switching of capacitor banks and unloaded lines, Ratings and characteristics of circuit breakers.

UNIT-III: Types of Circuit Breakers and Testing: Principle of operation of circuit breakers, Classification of circuit breakers, Constructional Features of Air Circuit Breakers, Oil Circuit Breakers, Air Blast Circuit Breakers, SF₆ Circuit Breakers and Vacuum Circuit Breakers, Testing of Circuit Breakers.

UNIT-IV: Protective Relays: Different types of protective relays, Principle of operation and characteristics of relays, Overcurrent, Earth fault and Phase fault protection, Differential and Distance protection with simple applications to Alternators, Transformers, Single and parallel feeders, Introduction to Static relaying, Static relays for time lag Overcurrent and Differential Protection.

UNIT-V: Overvoltage Protection: Causes of overvoltages, Overvoltages due to Lightning, Protection against Lightning and Travelling Waves - Earth Wire, Spark Gaps, Surge Arresters, Lightning Arresters, Surge Absorber, Peterson Coil, Insulation Co-ordination.



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POWER SYSTEM OPERATION & CONTROL (B16EE4201)

POWER SYSTEM OPERATION & CONTROL (B16EE4102)

H. Nagappa Reddy
 BHIMAVARAM-534 204
PRINCIPAL
S.R.K.R. ENGG. COLLEGE

<p>OPTIMAL SYSTEM OPERATION: Optimal operation of Generators in Thermal power stations, Heat rate curve, Cost Curve, Incremental fuel and Production costs, Input-output characteristics. Optimum generation allocation with & without transmission line losses, Loss Coefficients, General transmission line loss formula. Optimal scheduling of Hydrothermal System: Short term hydrothermal scheduling problem.</p> <p>UNIT COMMITMENT & OPTIMAL POWER FLOW Optimal unit commitment problem: Need for unit commitment, Constraints in unit commitment, Cost function formulation, Solution methods using Priority list method & Dynamic programming. Optimal Power Flow, Problem Formulation & Solution of OPF by Gradient Method.</p> <p>AUTOMATIC GENERATION CONTROL: Frequency control: Load Frequency Control Concepts, Load frequency Control of a Single Area System modelling, Steady state & Dynamic response of uncontrolled & controlled cases, Two-area system modelling - Static analysis of uncontrolled case, Tie line with frequency has control of resources system. Voltage control: Automatic voltage regulator, Exciter types, Exciter modelling, Generator modelling, static and dynamic response of AVR loop.</p> <p>POWER SYSTEM SECURITY Introduction: Factors affecting the power system security, contingency analysis procedures, linear sensitivity factors, line outages distribution factors and generation shift factors and its derivation, AC power flow method, contingency selection.</p> <p>EMERGENCY CONTROL: Concepts, Preventive and Emergency Control, Coherent Area Dynamics, Stability Enhancement Methods, Long Term Frequency Dynamics, Average System Frequency, Centre of Inertia.</p>	<p>UNIT-I OPTIMAL SYSTEM OPERATION: Optimal operation of Generators in Thermal power stations, Heat rate curve, Cost Curve, Incremental fuel and Production costs, Input-output characteristics. Optimum generation allocation with & without transmission line losses, Loss Coefficients, General transmission line loss formula. Optimal scheduling of Hydrothermal System: Short term hydrothermal scheduling problem.</p> <p>UNIT-II UNIT COMMITMENT & OPTIMAL POWER FLOW: Optimal unit commitment problem, Need for unit commitment, Constraints in unit commitment, Cost function formulation, Solution methods using Priority list method & Dynamic programming, Optimal Power Flow: Problem Formulation & Solution of OPF by Gradient Method.</p> <p>UNIT-III AUTOMATIC LOAD FREQUENCY CONTROL: Frequency control: Load Frequency Control Concepts, Load Frequency Control of a Single Area System modelling, Steady state & Dynamic response of uncontrolled & controlled cases, Load Frequency Control and Economic Dispatch Control, Two-area system modelling - Static analysis of uncontrolled case, Tie line with frequency has control of resources system.</p> <p>UNIT-IV REACTIVE POWER CONTROL: Advantages and disadvantages of different types of compensating equipment for transmission systems, Load compensation, Specifications of load compensator, Uncompensated and compensated transmission lines: Short and series compensation, Need for FACTS controllers.</p> <p>UNIT-V EMERGENCY CONTROL AND POWER SYSTEM SECURITY: Concepts, Preventive and Emergency Control, Coherent Area Dynamics, Stability Enhancement Methods, Long Term Frequency Dynamics, Average System Frequency, Center of Inertia, System state classification, Linear sensitivity factors, Contingency analysis.</p>
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<p>OPERATIONS RESEARCH (B16EE4105)</p> <p>INTRODUCTION TO OPERATIONS RESEARCH: Applications of OR, Optimization, Mathematical Model: Linear Programming Problem, Requirements for a LP Problem, Examples On The Application Of LPP, Graphical Solution of 2-Variable LP Problems, General Mathematical Formulation For LPP, Canonical And Standard Form of LPP Problem, Simplex Method, Simple Problems on Simplex Methods, Big-M Method.</p> <p>TRANSPORTATION PROBLEM: Matrix Terminology, Definition and Mathematical Representation of Transportation Model, Formulation and Solution of Transportation Models (Basic Feasible Solution by North-West Corner Method, Least Cost Entry Method, Vogel's Approximation Method).</p> <p>ASSIGNMENT PROBLEM: Matrix Terminology, Definition of Assignment Model, Comparison With Transportation Model, Mathematical Representation Of Assignment Model, Formulation And Solution Of Assignment Models.</p> <p>PERT AND CPM NETWORK: Introduction, Phases Of Project Scheduling, Network Logic, Numbering The Events (Earliest's Rule), Measure Of Activity, Forward Pass And Backward Pass Computations, Slack Critical Path.</p> <p>GAME THEORY: Useful Terminology, Rules For Game Theory, Saddle Point, Pure Strategy, Mini-Max, Maxi-Min Principle, Reduce Game By Dominance, Graphical solution, Mixed Strategies, 2x2 Games Without Saddle Point.</p>	<p>OPERATIONS RESEARCH (B17EE4104)</p> <p>UNIT-I Introduction to Operations Research Applications of OR, Optimization, Mathematical Model: Linear Programming Problem, Requirements for a LP Problem, Examples on the Application of LPP, Graphical Solution of 2-Variable LP Problems, General Mathematical Formulation for LPP, Canonical and Standard Form of LP Problem, Simplex Method, Simple Problems on Simplex Methods, Big M Method.</p> <p>UNIT-II Transportation Problem Matrix Terminology, Definition and Mathematical Representation of Transportation Model, Formulation and Solution of Transportation Models (Basic Feasible Solution by North-West Corner Method, Least Cost Entry Method, Vogel's Approximation Method).</p> <p>UNIT-III Assignment Problem Matrix Terminology, Definition of Assignment Model, Comparison with Transportation Model, Mathematical Representation of Assignment Model, Formulation and Solution of Assignment Models.</p> <p>UNIT-IV PERT and CPM Network Introduction, Phases of Project Scheduling, Network Logic, Numbering the Events (Earliest's Rule), Measure of Activity, Forward Pass and Backward Pass Computations, Slack Critical Path.</p> <p>UNIT-V Game Theory Useful Terminology, Rules for Game Theory, Saddle Point, Pure Strategy, Mini-Max, Maxi-Min Principle, Reduce Game by Dominance, Graphical solution, Mixed Strategies, 2x2 Games Without Saddle Point.</p>
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5) modified the syllabus of Electrical Machines-II



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 CHINNA AMRAN (P.O): BHIMAVARAM - 534 204, A.P., INDIA. PIN: 534 204

<p>ELECTRICAL MACHINES-II (B17EE3101)</p> <p>UNIT-I BASIC CONCEPTS OF ELECTRICAL MACHINES: Physical arrangement of windings in stator and cylindrical rotor; slots for windings; single turn coil - active portion and overhang, full-pitch coils, concentrated winding, distributed winding, winding axis, generated emf, Air-gap MMF distribution with fixed current through winding - concentrated and distributed, Sinusoidally distributed winding, winding distribution factor.</p> <p>UNIT-II INDUCTION MACHINES Construction, Types (squirrel cage and slip-ring), Equivalent circuit, Phasor Diagram, Torque Slip Characteristics, Starting and Maximum Torque, Losses and Efficiency, Circle Diagram, Effect of parameter variation on torque speed characteristics (variation of rotor resistance), Methods of starting (direct and speed control for induction motors, Generator operation, Self-excitation, Doubly-fed Induction Machines).</p> <p>UNIT-III SINGLE PHASE INDUCTION MOTORS Constructional features, double revolving field theory, equivalent circuit, determination of parameters, Split phase starting methods & applications.</p> <p>UNIT-IV SYNCHRONOUS GENERATORS Constructional features, Cylindrical rotor machines, Synchronous Generator-circuit model and phasor diagram, armature reaction, synchronous impedance, voltage regulation and estimation of voltage regulation by EMF, MMF and ZPF methods, Salient pole Machine- Two reaction theory, analysis of phasor diagram, power angle characteristics, determination of δ and α, Parallel operation of Alternators-Synchronization and load division.</p> <p>UNIT-V SYNCHRONOUS MOTORS Operating principle, circuit model, phasor diagram, effect of load, Operating characteristics of synchronous machines, V-curves, starting methods of synchronous motors.</p>	<p>ELECTRICAL MACHINES-II (B19EE3101)</p> <table border="1"> <tr> <td data-bbox="810 1440 869 1541">UNIT-I (08Hrs)</td> <td data-bbox="869 1440 1326 1541">BASIC CONCEPTS IN AC ROTATING MACHINES: Constructional features- cylindrical rotor, salient pole rotor, single turn coil - active portion and overhang, full-pitch coils, concentrated winding, generated EMF, distributed winding, Harmonic content in distributed winding, Short pitched coils (Simple Problems), Air-gap MMF of Distributed AC windings-MMF space wave of single coil, MMF space wave of one phase of distributed winding, Production of Rotating Magnetic Field (only concept).</td> </tr> <tr> <td data-bbox="810 1563 869 1641">UNIT-II (12 Hrs)</td> <td data-bbox="869 1563 1326 1641">SYNCHRONOUS GENERATORS: Circuit model, armature reaction, Determination of synchronous Reactance- OCC and SC, voltage regulation, voltage regulation by EMF, MMF and ZPF methods, Salient pole Machine- two reaction theory, analysis of phasor diagram, power angle characteristics, determination of δ and α, (Simple Problems), Synchronizing to infinite bus, Parallel operation of Alternators (Only concept).</td> </tr> <tr> <td data-bbox="810 1664 869 1720">UNIT-III (10 Hrs)</td> <td data-bbox="869 1664 1326 1720">SYNCHRONOUS MOTORS: Operating principle, starting methods of synchronous motor, salient pole synchronous motor-Analysis of phasor diagram (simple problems), Operating characteristics of synchronous motor-variable load and constant excitation, V-curves, variable excitation and constant load.</td> </tr> <tr> <td data-bbox="810 1742 869 1798">UNIT-IV (12Hrs)</td> <td data-bbox="869 1742 1326 1798">INDUCTION MACHINES Construction, Types (squirrel cage and slip-ring), Equivalent circuit- Starting and Maximum Torque, Torque Slip Characteristics, Effect of parameter variation on torque speed characteristics (variation of rotor resistance), No-load and blocked rotor test, Losses and Efficiency, Circle Diagram.</td> </tr> <tr> <td data-bbox="810 1821 869 1899">UNIT-V (08Hrs)</td> <td data-bbox="869 1821 1326 1899">STARTING AND SPEED CONTROL OF 3-ϕ INDUCTION MOTOR AND 1-ϕ INDUCTION MOTORS Methods of starting, braking and speed control for 3-ϕ induction motors (simple problems), Self-excited Induction Generator [1-ϕ induction motor-constructional features, double revolving field theory, equivalent circuit, determination of parameters (only concept), Split phase starting methods & applications.</td> </tr> </table>	UNIT-I (08Hrs)	BASIC CONCEPTS IN AC ROTATING MACHINES: Constructional features- cylindrical rotor, salient pole rotor, single turn coil - active portion and overhang, full-pitch coils, concentrated winding, generated EMF, distributed winding, Harmonic content in distributed winding, Short pitched coils (Simple Problems), Air-gap MMF of Distributed AC windings-MMF space wave of single coil, MMF space wave of one phase of distributed winding, Production of Rotating Magnetic Field (only concept).	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6) Arrange course objectives of Control System subject according to syllabus	
<p style="text-align: center;">CONTROL SYSTEMS(B17EE3104)</p> <p>Course objectives</p> <p>Students will</p> <ol style="list-style-type: none"> Learn the modelling of linear systems using transfer functions and obtain transfer functions for physical electrical and mechanical systems. Learn to represent systems using block diagrams and signal flow graphs and derive their transfer functions. Learn the significance of time response and find it for system analysis in transient and steady state. Learn the concept of stability and know different techniques of stability analysis. Learn the concept of frequency response and its application for control system analysis. 	<p style="text-align: center;">CONTROL SYSTEMS(B19EE3102)</p> <p>Course Objectives: Students will learn</p> <ol style="list-style-type: none"> The modeling of linear systems using transfer functions and obtain transfer functions for physical electrical and mechanical systems. To represent systems using block diagrams and signal flow graphs and derive their transfer functions. The significance of time response and find it for system analysis in transient and steady state. The concept of stability and root locus and know different techniques of stability analysis. The concept of frequency response and its application for control system analysis.
7) Suggestions from the students based on feed back was taken while framing the course curriculum	
8) List of experiments for each lab should be 12 experiments	
<p style="text-align: center;">POWER ELECTRONICS LAB(B17EE4110)</p> <p>List of experiments</p> <ol style="list-style-type: none"> Study the Characteristics of SCR, IGBT and MOSFET Design of Gate Drive Circuit for IGBT & MOSFET Compare the R and RC triggering circuit for various firing angle. Construct a Single Phase Semi Converter for R and RL Loads. Control the Speed of DC Motor Using Single Phase Full Converter with and without Free Wheeling Diode. Construct a Single Phase AC Voltage Controller for R and RL Loads. Study of Single Phase Cycloconverter for different frequency divisors. Study of Impulse Commutated Chopper for various duty cycles. Construct a single phase dual converter with and without circulating current mode of operation. Study of Three Phase Inverter with 120° and 180° Mode of operation. 	<p style="text-align: center;">POWER ELECTRONICS LAB(B19EE3213)</p> <p style="text-align: center;">LIST OF EXPERIMENTS</p> <ol style="list-style-type: none"> Study the Characteristics of SCR, IGBT and MOSFET R and RC triggering circuits Single Phase Semi Converter Speed Control of DC Motor Using Single Phase Full Converter Single Phase AC Voltage Controller Single Phase Cycloconverter DC James Chopper McMurray Bedford Inverter Single Phase Dual Converter Three Phase Inverter (180° and 120° mode) Three Phase Full Converter Three Phase Semi Converter
9) DELD text book updated to Morris mano 3 rd edition	
<p style="text-align: center;">Digital logic and Design(B17EE3105)</p> <p>Text Book:</p> <ol style="list-style-type: none"> M. Morris Mano, Digital Design, Prentice-Hall of India Pvt. Limited, New Delhi, 2nd Edition, 2000. 	<p style="text-align: center;">Digital logic and Design(B17EE3105)</p> <p>Text Books:</p> <ol style="list-style-type: none"> Digital Design, 3rd Edition, M. Morris Mano, Pearson Education, Inc., 2002 Switching Theory and Logic Design, A. Anand Kumar, 3rd Edition, PHI Learning Pvt.Ltd.

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