



**ELECTRICAL AND
ELECTRONICS
ENGINEERING**

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS)

(AFFILIATED TO JNTUK, KAKINADA) (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. M.Jagapathi Raju

M.Tech. (IIT,KGP), Ph.D.(A.U), FIE,MISTE,

Vice- Principal (Academics)

and

PRINCIPAL (I/c.)



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

College :08816-222748

Fax:08816-224516

Mobile No.9848773515

Emails: profmjraju999@gmail.com

principal@srkrec.ac.in

Web Site : www.srkrec.ac.in

PROCEEDINGS OF THE PRINCIPAL

File No: SRKREC/Committee/BoS/EEE/3

Date: 01-08-2019


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	Experts from Other Universities	Professor, Department of Electrical Engineering S.V.University, Tirupati.
07	Dr. Ch.V.V.S. Bhaskara Reddy		Professor, Department of Electrical Engineering, Andhra University, Visakhapatnam.
08	Dr.P Sankar		Assistant Professor, Department of Electrical Engineering NIT Andhra Pradesh
09	Dr.K.Venkata Reddy	JNTUK Nominee	Associate Professor,UCEK,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 Mobis Ind,Ltd, Hyderabad
12	Dr. P. Prabhakar Rao	Expert from Industry	Engineering Supervisor, Caterpillar India Pvt Ltd
13	Student Representative		

c.c.to:

1. The I/c.Principal's table
2. HOD-EEE
3. All the above Members 4 Office file.


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



I/c. PRINCIPAL
PRINCIPAL
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principal@srkrec.ac.in

principalsrkrec@gmail.com

Website: www.srkrec.ac.in

SRKREC/BOS-1/EEE/2019-20

Date: 10.08.2019

To

Dr. K. Venkata Reddy
Associate Professor of EEE,
UCEK, JNTU Kakinada
Kakinada-533 003.

Dear Sir,

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

We take the privilege in inviting you for the Board of Studies Meeting in SRKR Engineering College as a University nominee. It is proposed to revise the existing syllabus and to implement the new Syllabus and Regulations (R19) from the 2019-20 admitted batches onwards. In this regard, we trust that you are the right person to contribute your valuable suggestion in revising the Curriculum.

In this connection, you are requested to attend the meeting of the Joint Board of Studies on 19.08.2019 at 11-00 A.M in I-Block, A.C. Auditorium of our college.

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

S.No.	BOARD	DATE	TIME
1	Civil Engineering	19.08.2019	2.00 P.M
2	Computer Science & Engineering	19.08.2019	2.00 P.M
3	Electronics & Communication Engineering	19.08.2019	2.00 P.M
4	Electrical & Electronics Engineering	19.08.2019	2.00 P.M
5	Information Technology	19.08.2019	2.00 P.M
6	Mechanical Engineering	19.08.2019	2.00 P.M
7	Combined Board of Studies in Engineering Chemistry/Engineering Mathematics/Engineering Physics / Humanities and Social Sciences	19.08.2019	2.00 P.M

Hence, kindly accept our invitation and confirm your visit for attending the Board of Studies meeting.

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 Sincerely,

Principal (I/c)

I/c. Principal
S.R.K.R. Engineering College
(Autonomous)
China Amiram, Bhimavaram-534 204.

Encl: 1. Copy of JNTUK Nomination
2. Agenda of the Meeting



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principal@srkrec.ac.in

principalsrkrec@gmail.com

Website: www.srkrec.ac.in

Date: 10.08.2019

SRKREC/BOS-1/EEE/2019-20

To

Dr. M. Damodara Reddy
Professor, Department of EEE
College of Engineering
Sri Venkateswara University
Tirupati-517502.

Dear Sir,

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

We take the privilege in inviting you for the Board of Studies Meeting in SRKR Engineering College as an External Expert Member. It is proposed to revise the existing syllabus and to implement the new Syllabus and Regulations (R19) from the 2019-20 admitted batches onwards. In this regard, we trust that you are the right person to contribute your valuable suggestion in revising the Curriculum.

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I/c, Principal
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Website: www.srkrec.ac.in

Date: 10.08.2019

SRKREC/BOS-1/EEE/2019-20

To

Dr. Ch.V.V.S. Bhaskara Reddy

Professor

Department of Electrical Engineering

College of Engineering, Andhra University

Visakhapatnam - 530003.

Dear Sir,

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

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Yours Sincerely,

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I/c. Principal
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Encl: Agenda of the Meeting



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principalsrkrec@gmail.com

Website: www.srkrec.ac.in

Date: 10.08.2019

SRKREC/BOS-1/EEE/2019-20

To

Dr. P. Sankar

Assistant Professor

Dept. of Electrical Engineering

National Institute of Technology AP

Andhra Pradesh.

Dear Sir,

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

We take the privilege in inviting you for the Board of Studies Meeting in SRKR Engineering College as an External Expert Member. It is proposed to revise the existing syllabus and to implement the new Syllabus and Regulations (R19) from the 2019-20 admitted batches onwards. In this regard, we trust that you are the right person to contribute your valuable suggestion in revising the Curriculum.

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Encl: Agenda of the Meeting



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

Dt:05-08-2019

CIRCULAR

This is to inform you that the Department of Electrical And Electronics Engineering will hold a meeting on 19-08-19 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 and finalize syllabus for the 1st year B.Tech(R19) & M.Tech (R19) courses related to Electrical And Electronics Engineering branch as per the schemes approved .
- 2) To discuss and finalize schemes for the 2nd , 3rd & 4th years B.Tech(R17) courses related to Electrical And Electronics Engineering branch as per the schemes & 2nd year M.Tech(R19) Electrical And Electronics Engineering branch.
- 3) Any other items for discussion with permission of the chair.


Head of the Department

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

C.C to

1.The members of Board of Studies

2.Office file





**PRINCIPAL
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Date:19-08-2019

Members of Board of Studies

S.NO	category	NAME	DESIGNATION	SIGNATURE
1	Chairman	Dr. P Kanta Rao	Prof & Head SRKREC	<i>[Signature]</i> 19/8/19
2	JNTUK Nominee	Dr.K.Venkata Reddy	Associate Professor,UCEK,JNTUK	<i>[Signature]</i>
3	Expert from other university	Dr.M.Damodar Reddy	Professor Department of Electrical Engineering S.V.University,Tirupati	NOT PRESENT
4	Expert from other university	Dr.Ch.V.V.S Bhaskara Reddy	Professor, Department of Electrical Engineering,AU,Visakapatnam	<i>[Signature]</i>
5	Expert from other university	Dr.P Sankar	Assistant Professor,Department of Electrical Engineering NIT Andhra Pradesh	<i>[Signature]</i> 19/8/19
6	Industry expert	Dr. Ch.Chandra Shekhar	Project Manager, Hyundai Mobis Ind,Ltd,Hyderabad	NOT PRESENT
7	Industry expert	Dr. P. Prabhakar Rao	Engineering Supervisor,Caterpillar India Pvt Ltd	NOT PRESENT
8	Expert from Research organization	Dr.G.K.Vishwanadha Raju	Lead Engineer,G.E,Bengaluru	NOT PRESENT
9	Faculty of each specialization	Dr.B.R.K.Varma	Professor, SRKREC	<i>[Signature]</i>
10		Sri N. Srinivasu	Professor, SRKREC	<i>[Signature]</i>
11		Dr.M.Sai Veerajuu	Professor, SRKREC	<i>[Signature]</i>
12		Sri.D.J.V Prasad	Associate Professor, SRKREC	<i>[Signature]</i> 19/8/2019
13	Student Representative	P. Adi Venkata Narayana	Final Year student	<i>[Signature]</i> P.A.V. Narayana
14	Student Representative	P. Sai Srinath	Third Year student	NOT PRESENT

Agenda:

- 1) Approval of Syllabus for the first year courses B.Tech (R19) & M.Tech (R19) related to Electrical & Electronics Engineering as per the schemes approved in the Joint Board.
- 2) Approval of Schemes for B.Tech (R19) 2nd, 3rd & 4th years and schemes for M.Tech (R19) 2nd year.
- 3) Any other item with the permission of Chair

[Handwritten Signature]

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Minutes of Meeting

A BOS meeting was held on 19-08-2019 for the B.Tech First Year R(19) & M.Tech first Year (R19) Courses for EEE department under JNTUK.

Minutes of Meeting

1. Discussed about New Course structures of R19 Regulation for both B.Tech and M.Tech. .
2. External BOS Experts suggested to swap subjects for ECE students, i.e BEE subject to second semester and NWA subject to first Semester.
3. Suggested to add special electrical machines concepts to the BEEE in the place of Synchronous machines concepts.
4. Suggested to place elective subjects from 3rd year instead of 2nd year.
5. Suggested to provide a list of subjects in each elective course.
6. suggested to design a course for open elective from each department.
7. Suggested to add some hours in the course structure for project work.
8. For M.Tech, few subject syllabus modifications are suggested.
9. Reformed the course structure for two year M.Tech Course.



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

[Signature]
Chairman BOS 19/8/2019
 Head of EEE Department
 S.R.K.R. Engg. College
 BHIMAVARAM -534 204

RESOLUTIONS FOR THE MEETING DATED 19-08-2019

- 1) Discussed about new course structure of R19 Regulation for both B.Tech and M.Tech.
- 2) External BOS Experts suggested to swap subjects for ECE students, i.e BEE subject to first year second semester and NWA subject to second year first semester.



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ELECTRONICS & COMMUNICATION ENGINEERING
SCHEME OF INSTRUCTION & EXAMINATION
(Regulation R19)
IIV B.TECH
II SEMESTER
(With effect from 2019-2020 Admission Batch onwards)

Subject Code	Name of the Subject	Category	Cr	L	T	P	Internal Marks	External Marks	Total Marks
B19 IS 1201	English	HS	3	3	-	-	25	75	100
B19 IS 1202	Mathematics III	HS	3	3	-	-	25	75	100
B19 IS 1203	Applied Physics	HS	3	3	-	-	25	75	100
B19 EE 1201	Basic Electrical Engineering	ES	3	3	-	-	25	75	100
B19 ME 1201	Engineering Drawing	ES	2.5	1	-	3	25	75	100
B19 IS 1204	Applied Physics Lab	HS	1.5	-	-	3	20	30	50
B19 IS 1205	Communication Skills Lab	HS	1.5	-	-	3	20	30	50
B19 EE 1204	Basic Electrical Engineering Lab	ES	1	-	-	2	20	30	50
B19 EE 1201	Electronics Workshop practice	ES	1	-	-	2	20	30	50
B19 IC 1202	Engineering Exploration Project	PR	1	-	-	2	-	50	50
B19 SX 1201	Environmental Science	MC	0	3	-	-	-	-	-
TOTAL			20.5	18	-	15	205	545	758



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ELECTRONICS & COMMUNICATION ENGINEERING
(Recognised by AICTE)
SCHEME OF INSTRUCTION & EXAMINATION
(Regulation R19)
IIV B.TECH
I SEMESTER
(With effect from 2019-2020 Admission Batch onwards)

Subject Code	Name of the Subject	Category	Cr	L	T	P	Internal Marks	External Marks	Total Marks
B19 EC 2101	Electronic Devices and Circuits	PC	3	3	-	-	25	75	100
B19 EC 2102	Switching Theory and Logic Design	PC	3	3	-	-	25	75	100
B19 EC 2103	Signals and Systems	PC	3	3	-	-	25	75	100
B19 EC 2104	Probability Theory and Random Processes	PC	3	3	-	-	25	75	100
B19 EE 2105	Network Analysis	ES	3	3	-	-	25	75	100
B19 CS 2104	Data Structures	ES	3	3	-	-	25	75	100
B19 EL 2105	Electronic Devices and Circuits - Lab (with Simulation)	PC	1.5	-	-	3	20	30	50
B19 EC 2106	Switching Theory and Logic Design - Lab (with Simulation)	PC	1.5	-	-	3	20	30	50
B19 MC 2102	Essence of Indian Traditional Knowledge	MC	0	3	-	-	-	-	-
TOTAL			21	21	-	8	190	510	700

- 3) Suggested to add special electrical machines concept to the BEE in the place of Synchronous Machines concept.



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SYLLABUS : BASIC ELECTRICAL ENGINEERING (Code: B19EE1202)

UNIT-I (10 Hrs)	DC CIRCUITS: Electrical circuit elements (R - L and C), Types of sources- Ohms Law- Kirchhoff laws -Network reduction techniques (series, parallel, series-parallel and Star-Delta Transformations), Source transformation, Mesh analysis and nodal analysis-Simple problems.
UNIT-II (12 Hrs)	AC CIRCUITS: Representation of sinusoidal waveforms - Peak, Average and RMS values - Phasor representation - power factor - Analysis of single-phase ac circuits consisting of pure resistor, pure inductor, pure capacitor, R-L, R-C, RLC series circuits-Instantaneous power-real power - reactive power - apparent power.
UNIT-III (10 Hrs)	D.C MACHINES Principle of operation of DC generator - emf equation - types of DC machines - OCC of DC shunt generator - Torque equation of DC motor- characteristics - applications - losses and efficiency - Brake test - Swinburne's test - speed control of d.c shunt motor- Simple Problems.
UNIT-IV (10 Hrs)	AC MACHINES: Principle and operation of Single-Phase Transformer -EMF equation- Equivalent circuit-OC and SC test on transformer. Principle and operation of Induction Motor-Torque equation-Slip-Torque characteristics-Brake test on Induction motor- Simple Problems.
UNIT-V (8 Hrs)	SPECIAL MACHINES: Construction and Principle of operation of Single-phase Induction motor, Stepper motor, Universal motor, BLDC motor

H. Jagapathi Reddy

PRINCIPAL
S.R.K.R. Engg. College
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4) Suggested to place elective subjects from third year instead of second year.

OPEN ELECTIVE	B17 CS 3214	Open Through Java
	B17 CS 3217	Unix & Shell Programming
	B17 CS 3218	Neural Networks & Fuzzy Logic
	B17 EC 3203	VLSI Design
	B17 ME 3210	Industrial Robotics

	Course Code	Course
#PE-II	B19 EE 3203	Advanced Control Systems
	B19 EE 3204	Digital Control systems
	B19 EE 3205	Special Electrical Machines
	B19 EE 3206	MOOCs-II
#PE-III	B19 EE 3207	Power Electronic Drives
	B19 EE 3208	Advanced power electronics Circuits
	B19 EE 3209	Switched Mode Power Supplies
	B19 EE 3210	MOOCs-III

	Course Code	Course
#OE-I	Student has to study one Open Elective offered by CE or CSE or ECE or IT or ME or EM&I	

5) Suggested to provide list of subjects in each elective course.

	Course Code	Course
#PE-II	B19 EE 3203	Advanced Control Systems
	B19 EE 3204	Digital Control systems
	B19 EE 3205	Special Electrical Machines
	B19 EE 3206	MOOCs-II
#PE-III	B19 EE 3207	Power Electronic Drives
	B19 EE 3208	Advanced power electronics Circuits
	B19 EE 3209	Switched Mode Power Supplies
	B19 EE 3210	MOOCs-III

	Course Code	Course
#OE-I	Student has to study one Open Elective offered by CE or CSE or ECE or IT or ME or EM&I	

6) Suggested to design a course for open elective from each department.

7) Suggested to add some hours in the course structure for project work.

8) For M.Tech, few subject syllabus modifications are suggested.

9) Reformed the course structure for two year M.Tech course.

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

H. Jagapathi Reddy

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



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