

SAGI RAMAKRISHNAM RAJU ENGINEERING COLLEGE (A)

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

(AFFILIATED TO JNTUK, KAKINADA (RECOGNISED BY ALL INDIA COUNCIL FOR TECH. EDN., NEW DELHI)

(Accredited by NAAC, NBA NEW DELHI)

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

Off:08816-229373, 223332 Ext.224

Mobile No : 98493 35863

E-mail: bhrkvarma@gmail.com

GSTIN:37AABTS9402K3Z4

Dr. B.R.K.Varma,
M.E.,Ph.D.
Professor &Head



13-09-2023

CIRCULAR

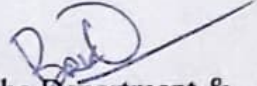
This is to inform all the members that the 10th Board of Studies (BOS) meeting of the Department of EEE, SRKR Engineering College, Bhimavaram will be held on **20-09-2023 (Wednesday) at 10:00 AM** in PG Simulation Laboratory of the department. All the BOS members are invited to attend the meeting.

Agenda:

1. To discuss and finalize the scheme and syllabi for the first year of R23 B. Tech (EEE) course curriculum.
2. Any other item with the permission of the chairman.

Copy to

1. The members of BOS
2. The Principal, SRKREC
3. The Dean, Academics
4. Office file


Head of the Department &
BOS Chairman
Head of EEE Department
S.R.K.R. Engg. College
BHIMAVARAM -534 204



SAGI RAMAKRISHNAM RAJU ENGINEERING COLLEGE (A)

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Dr. B.R.K.Varma,
M.E.,Ph.D.
Professor &Head



Date: 13.09.2023

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

Dear Sir,

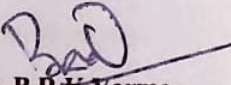
Sub: S.R.K.R. Engineering College EEE Department-Board of Studies Meeting-Reg.

We take the privilege in inviting you for the Board of Studies Meeting of Department of Electrical and Electronics Engineering, SRKR Engineering College as an Expert Nominated by Vice-Chancellor. It is proposed to discuss and finalize the scheme and syllabi for the 1st year of R23 B. Tech (EEE) course curriculum.

In this regard, you are requested to attend the meeting scheduled to be held on 20.09.2023 at 10.00 AM in PG Simulation Laboratory of EEE Department.

Kindly accept our invitation and make it convenient to attend the Board of Studies meeting.

Yours Sincerely,


Dr. B.R.K.Varma
Head of the Department

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



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Dr. B.R.K.Varma,
M.E.,Ph.D.
Professor &Head



Date: 13.09.2023

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

Dear Sir,

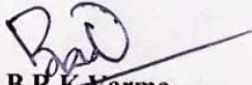
Sub: S.R.K.R. Engineering College EEE Department-Board of Studies Meeting-Reg.

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Head of the Department

Head of EEE Department
S.R.K.R. Engg. College
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Dr. B.R.K.Varma,
M.E.,Ph.D.
Professor &Head



Date: 13.09.2023

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 EEE Department-Board of Studies Meeting-Reg.

We take the privilege in inviting you for the Board of Studies Meeting of Department of Electrical and Electronics Engineering, SRKR Engineering College as Subject Expert from outside Parent University. It is proposed to discuss and finalize the scheme and syllabi for the 1st year of R23 B. Tech (EEE) course curriculum.

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Yours Sincerely,

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Head of the Department

Head of EEE Department
S.R.K.R. Engg. College
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Dr. B.R.K.Varma,
M.E.,Ph.D.
Professor &Head



Date: 13.09.2023

To
Dr P.Sankar
Assistant Professor
Department of Electrical Engineering
National Institute of Technology AP,
Tadepalligudem, -534102.

Dear Sir,

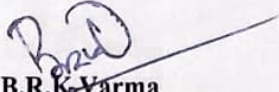
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Kindly accept our invitation and make it convenient to attend the Board of Studies meeting.

Yours Sincerely,


Dr. B.R.K. Varma
Head of the Department
Head of EEE Department
S.R.K.R. Engg.College
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Dr. B.R.K.Varma,
M.E.,Ph.D.
Professor &Head



Date: 13.09.2023

To
Akula Ramesh
Principal Engineer,
Mercedes Benz Research and Development India,
Bangalore.

Dear Sir,

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

We take the privilege in inviting you for the Board of Studies Meeting of Department of Electrical and Electronics Engineering, SRKR Engineering College as Representative from Industry/Corporate Sector/Allied Area Relating to Placement. It is proposed to discuss and finalize the scheme and syllabi for the 1st year of R23 B. Tech (EEE) course curriculum.

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Kindly accept our invitation and make it convenient to attend the Board of Studies meeting.

Yours Sincerely,

Dr. B.R.K. Varma

Head of the Department

Head of EEE Department
S.R.K.R. Engg. College
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GSTIN:37AABTS9402K3Z4

Date: 13.09.2023

To
Dr.G.Kasi Viswanadha Raju
Lead Specialist,
Power System Consulting,
Vestas Technology R&D
Chennai-600119.

Dear Sir,

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

We take the privilege in inviting you for the Board of Studies Meeting of Department of Electrical and Electronics Engineering, SRKR Engineering College as Postgraduate Meritorious Alumni. It is proposed to discuss and finalize the scheme and syllabi for the 1st year of R23 B. Tech (EEE) course curriculum.

In this regard, you are requested to attend the meeting scheduled to be held on 20.09.2023 at 10.00 AM in PG Simulation Laboratory of EEE Department.

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Yours Sincerely,


Dr. B.R.K. Varma

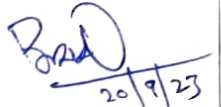


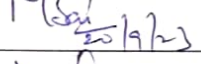

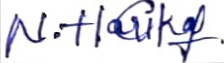
Head of the Department
Head of EEE Department
S.R.K.R. Engg. College
BHIMAVARAM -534 204



SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS)
 (Affiliated to JNTUK, Kakinada), (Recognised by AICTE, 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

Date : 20-9-2023

Members of Board of Studies

S. No	Category	Name	Position	Signature
1	Chairman	Dr. B.R.K.Varma	Professor & Head Dept. of EEE SRKR Engineering College China Amiram, Bhimavaram-534204	 20/9/23
2	Expert Nominated by Vice-Chancellor	Dr. K.Venkata Reddy	Professor of EEE, UCEK JNTUK, Kakinada-533003	Attended online
3	Subject Experts from outside Parent Universities	Dr. M. Damodara Reddy	Professor, Department of EEE College of Engineering, Sri Venkateswara University Tirupati-517502	Attended online
4		Dr. Ch. V.V.S. Bhaskara Reddy	Professor, Dept. of EEE, College of Engineering, Andhra University, Visakhapatnam-530003.	Attended online
5		Dr P.Sankar	Assistant Professor Dept. of EEE, NIT AP, Tadepalligudem, -534102,AP	Attended online
6	Representative from Industry/Corporate Sector/Allied Area Relating to Placement	Akula Ramesh	Principal Engineer, Mercedes Benz Research and Development India, Bangalore.	—
7	Postgraduate Meritorious Alumnus	Dr.G.Kasi Viswanadha Raju	Lead Specialist, Power System Consulting, Vestas Technology R&D, Chennai-600119	Attended online
8	Faculty of each specialization	Dr. P.Kanta Rao	Professor, Dept. of EEE SRKR Engineering College	 20/9/23
9		Prof. N.Srinivasu	Professor, Dept. of EEE SRKR Engineering College	 20/9/23
10		Dr. M.Sai Veerraju	Professor, Dept. of EEE SRKR Engineering College	 20/9/23
11		Dr. M.Siva Rama Krishna	Associate Professor, Dept. of EEE SRKR Engineering College	 20/9/23
12	Student Members	Mr. V. Kishore Kumar	20B91A02H2 B.Tech., EEE, 2020-2024 Batch	—
13		Ms. N. Harika	21B91A02B0 B.Tech., EEE, 2021-2025 Batch	

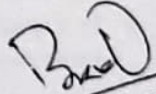
Agenda:

1. To discuss and finalize the scheme and syllabi for the first year of R23 B. Tech (EEE) course curriculum.
2. Any other item with the permission of the chairman.

BOS MINUTES

R23 – I/IV B. Tech			
Sl.no	Suggestion	BOS Member	Resolution
1	Basic Electrical & Electronics Engineering (Part-A) ❖ Electro-magnetic concepts should be included to understand theory of machines in unit-2.	Dr. G. Kasi Viswanadha Raju	As it is a basic course, resolved to include in machines courses later for EEE students.
2	Basic Electrical & Electronics Engineering (Part-A) ❖ Rearrange the topics in "Electricity Bill" from Definition of 'Unit' to tariff calculations. ❖ Introduce some self-learning concepts like selection of inverters, UPS, batteries, motors, etc., for purpose of student projects.	Dr P. Sankar	Suggested changes will be incorporated in 'electricity bill' topic. Not considered as 'EEE Workshop' activity includes this equipment.
3	Basic Electrical & Electronics Engineering (Part-A) ❖ Better to keep latest technologies instead of conventional machines.	Dr. Ch. V.V.S. Bhaskara Reddy	Resolved to include 'Other electrical machines: Stepper motor, BLDC Motor'.
4	Basic Electrical & Electronics Engineering (Part-A) ❖ Include fundamentals of measuring instruments. ❖ Why 3-phase Induction machines are included in the course without introducing 3-phase concepts/terminology. ❖ For EEE students better to study "Circuit Analysis" course before studying "BEEE" course.	Dr. M. Damodara Reddy	Resolved to include MC & MI Instruments and Single-Phase Energy meter. Resolved to include only working principle of 3-phase Induction Motor. Not considered as BEEE course is a Common Course.
5	Basic Electrical & Electronics Engineering (Part-B) ❖ Include the concepts of registers and counters. ❖ Is it necessary to study PN junction diode again in the curriculum.	Dr. Ch. V.V.S. Bhaskara Reddy	Resolved to include 'Simple examples of two-bit Registers and Counters'. Resolved to include for the sake of revision.
6	Basic Electrical & Electronics Engineering (Part-B) ❖ Introduce the basics of Operational Amplifiers.	Dr P. Sankar	Not considered due to the difficulty in coverage.
7	Electrical & Electronics Engineering Workshop ❖ In experiment-4; Apart from measuring earth resistance is there any other take away point or not? ❖ In experiment-6; Along with MCB protection include fuse protection also.	Dr. G. Kasi Viswanadha Raju	Students will also learn about earth pit construction. Resolved to include 'Fuse Protection'.

	❖ In experiment-7; Does student understand the concept of measuring solar power without knowing theory behind it.		Resolved to include for providing practical skills.
8	Electric Circuit Analysis - I ❖ Remove replicant topics in unit-1 which are covered in BEEE course and include network topologies. ❖ Include power measurement method (Two-wattmeter method) in unit-3. ❖ Include Tellegen's theorem in unit-5.	Dr. M. Damodara Reddy	Resolved to remove KVL & KCL and not to include network topology due to coverage difficulty. Resolved to include 'Power in 3-phase circuits' and Two-wattmeter method in future course. Resolved to include Tellegen's theorem and remove Milliman's theorem and Compensation theorem.
9	Electric Circuit Analysis - I ❖ Magnetic circuit concepts are missing in the course.	Dr. G. Kasi Viswanadha Raju	Resolved to include only Elec ^o Circuit Analysis topics.
10	Electric Circuit Analysis - I ❖ Add frequency variation effects in RLC resonance circuits.	Dr P. Sankar	Resolved to include suggested change.
11	Electrical Circuits Laboratory ❖ Replace choke coil with any other inductors. ❖ Replace experiment-1 with modern equipment as it is outdated.	Dr. G. Kasi Viswanadha Raju	Resolved to include iron core inductor and v-i characteristics of filament lamp.
12	Electrical Circuits Laboratory ❖ Include an experiment to design a coil for general specifications. ❖ Merge experiments on network theorems and accommodate new experiments.	Dr P. Sankar	Resolved to consider while designing future courses.
13	❖ Topics in the curriculum should be program specific. ❖ Identify equipment's like PQ analyser, Solar irradiance meter, wind speed, Data logging, Insolation tester, etc.	Dr P. Sankar	Resolved to consider in future courses.
14	❖ Syllabus can be modified beyond 20% from university syllabus on this course.	Dr. K. Venkata Reddy	Resolved to include changes as per suggestion.
15	❖ Include experiments on other microcontrollers like ESP32, ESP8266, Raspberry-Pi in skill-oriented course.	Ms. N. Harika (Student Member)	Resolved to include in future courses of R23 curriculum.


22/9/2023
Head of EEE Department
S. R. K. R. Engg. College
BHIMAVARAM - 534 204



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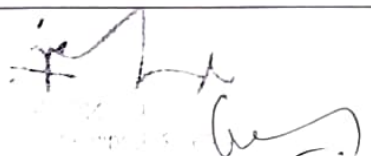
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SRKR MARG, CHINA AMIRAM, BHIMAVARAM – 534204 W.G.Dt., A.P., INDIA

Regulation: R23		I / IV - B.Tech. I - Semester							
ELECTRICAL & ELECTRONICS ENGINEERING									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2023-24 admitted Batch onwards)									
Course Code	Course Name	Category	L	T	P	Cr	C.I.E.	S.E.E.	Total Marks
B23HS1101	Communicative English	HS	2	0	0	2	30	70	100
B23BS1101	Linear Algebra & Calculus	BS	3	0	0	3	30	70	100
B23BS1102	Engineering Physics	BS	3	0	0	3	30	70	100
B23EE1101	Basic Electrical and Electronics Engineering	ES	3	0	0	3	30	70	100
B23ME1101	Engineering Graphics	ES	2	0	2	3	30	70	100
B23IT1101	IT Workshop	ES	0	0	2	1	30	70	100
B23HS1102	Communicative English Lab	HS	0	0	2	1	30	70	100
B23BS1104	Engineering Physics Lab	BS	0	0	2	1	30	70	100
B23EE1102	Electrical and Electronics Engineering Workshop	ES	0	0	3	1.5	30	70	100
B23HS1103	NSS/NCC/Scouts & Guides/Community Service	HS	-	-	1	0.5	100	0	100
TOTAL			13	00	12	19	370	630	1000


 Dean Academics
 S.R.K.R. Engg. College (A)
 CHINA AMIRAM
 BHIMAVARAM-534 204


 PRINCIPAL
 S.R.K.R. Engineering College(A)
 China Amiram Bhimavaram - 534 204
 W.G Dist Andhra Pradesh





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Regulation: R23		I / IV - B.Tech. II - Semester							
ELECTRICAL & ELECTRONICS ENGINEERING									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2023-24 admitted Batch onwards)									
Course Code	Course Name	Category	L	T	P	Cr	C.I.E.	S.E.E.	Total Marks
B23BS1201	Differential Equations & Vector Calculus	BS	3	0	0	3	30	70	100
B23BS1203	Chemistry	BS	3	0	0	3	30	70	100
B23CE1201	Basic Civil & Mechanical Engineering	ES	3	0	0	3	30	70	100
B23EE1203	Electrical Circuit Analysis-I	PC	3	0	0	3	30	70	100
B23CS1201	Introduction to Programming	ES	3	0	0	3	30	70	100
B23BS1205	Chemistry Lab	BS	0	0	2	1	30	70	100
B23ME1202	Engineering Workshop	ES	0	0	3	1.5	30	70	100
B23EE1204	Electrical Circuits Lab	PC	0	0	3	1.5	30	70	100
B23CS1202	Computer Programming Lab	ES	0	0	3	1.5	30	70	100
B23HS1202	Health and wellness Yoga and sports	HS	-	-	1	0.5	100	0	100
			15	0	12	21	370	630	1000


 Dean Academics
 S.R.K.R. Engg. College (A)
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