

ELECTRICAL AND ELECTRONICS ENGINEERING

SRKR Principal <pri>principal@srkrec.ac.in>

Fri 7/10/2020 2:26 PM

To: Dr. Venkat Reddy Kota <kvr.jntu@gmail.com> Cc: Pedakota Kantarao <dr.pkantarao@gmail.com>

1 attachments (447 KB) Agenda.pdf;

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 of Department of Electrical and Electronics Engineering, SRKR Engineering College as a University Nominee. It is proposed to discuss about Schemes for B.Tech (R19) 2nd, 3rd & 4th Years; Syllabus for B.Tech (R19) 2nd Year and Scheme & Syllabus for B.Tech (R17) 4th Year.

In this regard, you are requested to attend the online meeting scheduled on 15.07.2020 at 10.00 AM. The online meeting link will be provided to you shortly.

Kindly accept our invitation and make it convenient to attend the Board of Studies meeting. We are enclosing the Agenda of the Meeting.

Thanking you,

Yours Sincerely,
Dr. M. Jagapathi Raju
PRINCIPAL
S.R.K.R. Engineering College
China Amiram, Bhimavaram,
West Godavari District
Andhra Pradesh-534204
Landline: 08816-223332
Mobile No.: 9848773515, 9848381818
Email: principal@srkrec.ac.in
principalsrkrec@gmail.com

Note: Presently, our Institute is under COVID-19 Containment Zone. So, we are unable to send the hard copy of Board of Studies Meeting Invitation Letter. Kindly accept this mail as the invitation letter.

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

H. Dagapall dej

S.R.K.R. ENSG. College BHIMAYARAM-534

SRKR Principal <pri>principal@srkrec.ac.in>

Fri 7/10/2020 2:29 PM

To: mdreddy999@rediffmail.com <mdreddy999@rediffmail.com>

Cc: Pedakota Kantarao <dr.pkantarao@gmail.com>

To

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

Dear Sir,

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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 External Expert Member. It is proposed to discuss about Schemes for B.Tech (R19) 2nd, 3rd & 4th Years; Syllabus for B.Tech (R19) 2nd Year and Scheme & Syllabus for B.Tech (R17) 4th Year.

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To: chbr.elec@gmail.com <chbr.elec@gmail.com>

Cc: Pedakota Kantarao <dr.pkantarao@gmail.com>

To

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

Professor

Department of Electrical Engineering

College of Engineering, Andhra University

Visakhapatnam - 530003.

Dear Sir.

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BHIMAVARAM-534 204

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S.R.K.R. Engs. College BHIMAVARAM. 537 444

SRKR Principal <principal@srkrec.ac.in> Fri 7/10/2020 2:34 PM To: sankarp@nitandhra.ac.in < sankarp@nitandhra.ac.in> Cc: Pedakota Kantarao <dr.pkantarao@gmail.com>

To Dr. P. Sankar Assistant Professor Dept. of Electrical Engineering National Institute of Technology AP Andhra Pradesh.

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Dr. P. Sankar
Assistant Professor
Dept. of Electrical Engineering
National Institute of Technology AP
Andhra Pradesh.

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SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE(A) CHINNA AMIRAM :: BHIMAVARAM534204 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Dt:13-07-2020

CIRCULAR

This is to inform you that the Department of Electrical And Electronics Engineering will hold a meeting on 15-07-20 at 10.00A.M by online mode and the meeting link will be provided. In this connection, all the members of Board of studies are requested to attend the same.

Agenda:

- 1) To discuss and finalize schemes for B.Tech (R19) 2nd, 3rd & 4th years.
- 2) To discuss and finalize syllabus for B.Tech (R19) 2nd year.
- 3) To discuss and finalize Scheme and syllabus for B.Tech (R17) 4th year.
- 4) 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



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PRINCIPAL 8.R.K.R. Engg. College BHIMAVARAM-534 204-



(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:15-07-2020

Members of Board of Studies

S.NO	category	NAME	DESIGNATION	SIGNATURE		
1	Chairman	Dr. P Kanta Rao	Prof &Head SRKREC	Pur 2		
2	JNTUK Nominee	Dr.K.Venkata Reddy	Associate Professor, UCEK, JNTUK	not proper		
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	Not present		
5	Expert from other university	Dr.P Sankar	Assistant Professor, Department of Electrical Engineering NIT Andhra Pradesh	Not Present		
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 Presen		
8	Expert from Research organization	Dr.G.K.Vishwanadha Raju	Lead Engineer,G.E, Bengaluru	Not Paesen		
9		Dr.B.R.K.Varma	Professor, SRKREC	Popul		
10	Faculty of each	Sri N. Srinivasu	Professor, SRKREC	17-5-		
11	specialization	Dr.M.Sai Veerraju	Professor, SRKREC	Mlde		
12		Sri.D.J.V Prasad	Associate Professor, SRKREC	D.J.V. Prus		

Agenda:

- 1. To discuss about Schemes for B.Tech (R19) 2nd, 3rd & 4th Years
- 2. To discuss about Syllabus for B.Tech (R19) 2nd Year
- 3. To discuss about Scheme and Syllabus for B.Tech (R17) 4th Year
- 4. Any other item with the permission of Chair.

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

Minutes of Meeting

A BOS meeting was held on 15-07-2020 for the B. Tech

2nd year (RIA) & B. Tork 4th year (RIA) Courses for EEE Department

under JNTUK.

Minutes of Meeting

- Finalized the Schemes for B.Tech (R19) 2nd, 3rd & 4th Years.
- Suggested to change the contact hours of computers subjects to two theory and two practical classes per week.
- Suggested to add the course IOT and its Application in 3rd year. And suggest to maintain uniform number of subjects to all electives.
- 4. Discussed about syllabus for B.Tech (R19) 2nd year.
- 5. Suggested to change Course outcomes for some of the subjects in B.Tech (R19) 2nd year.
- Suggested to add some basic topic to machines-1 subject and change the order of units as Dc machines comes first instead of transformers.
- Feedback from stockholders (students, alumni & parents) was discussed while framing the course curriculum and syllabus.
- 8. Discussed about Scheme and Syllabus for B.Tech (R17) 4th Year.
- Suggested to remove DBMS course from Elective-1, instead of that add any advanced subject.
- Suggested to change the titles of units in Electric drive courses and interchange the unit
 and unit 4 in Electric Vehicles course.
- 11. Suggested to change the contents in FACTS, Power Station Practice and HVDC Transmission and asked to revise the syllabus.
- 12. Suggested to change the order of experiments in Power Electronics Lab based on the contents. And suggested to add fault analysis to power systems simulation lab.
- Suggested to add some basic experiments to Power system Protection lab instead of equivalent circuit of Three phase transformer.
- 14. Discussed about syllabus of Networks Subject for B.Tech(R19) ECE 2nd year and suggested to add some basic concepts to unit 1 like basic elements and basic theorems.



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S.R.K.R. Engg. College BHIMAVARAM-534 204. Chairman BOS
Head of EEE Department
5.R.K.R. Engs.College 15 7 2020
BHIMAVARAM -534 204

RESOLUTIONS FOR THE MEETING DATED 15-07-2020

1) Finalised the schemes for B.Tech (R19) 2nd, 3rd and 4th Years.

SCHEME OF INSTRUCTION & EXAMINATION (Regulation R10) INTV B.TECH I SEMESTER (With effect from 2019 2020 Admitted Batch onwards)

Sulject Code	Name of the Subject	Category	Cr	t.	T	p	Internal Marks	External Marks	Total Marki
R19 FC 2101	Dectronic Devices and Circuits	ES	3	3	-	-	25	75	100
B19 B52102	Mathematics-IV	BS	3	3	-	**	25	75	100
1119 LJ 2101	Electrical Measurements and Instrumentation	PC	3	3	-		25	75	100
2107 2107	Network Analysis and Synthesis	PC	3	3		-	25	75	100
B19 LE 2103	Electro Magnetic Field Theory	PC	3	3			25	75	100
R19 CS 2104	Data Structures	F.S	3	3		7	25	75	100
5104 B181E	Networks Lab	PC	1.5		1	3	20	30	50
R19 FC 2105	Electronic Devices and Circuits Lab (with Simulation)	ES	15			3	20	30	50
B19 MC 2102	Essence of Indian Traditional Knowledge	MC	0	3		-	100	.,	-
	11 - 11	TOTAL	21	21	6	6	190	\$10	700

SCHEME OF INSTRUCTION & EXAMINATION

(Regulation R19) III/IV B.TECH 1-SEMESTER (With effect from 2019-2010Admin

Subject Code	Name of the Subject	Category	Cr	I.	1	P	Marks	Esternal Marks	Total Marks
819 EE	Electrical Machines-II	PC	3	3	-		25	75	100
3102	Control Systems	PC)	3	-	-	25	75	100
019 EE 3103	Power Electronics	PC	3	3	-		25	75	100
3104	Electrical Power Generation, Transmission & Distribution	PC	ı	3			25	75	100
3105	Micro Processors and Micro Controllers	PC	3	3			25	75	100
# PE-I	Professional Flective-I	PE	1	3	-		25	75	100
B19 EE	Electrical Machines-1 Lab	PC	15	-	-	3	20	30	50
3111	Microprocessor & Microcontroller Lab	PC	15	-		3	20	30	50
B19 MC 3101	Employability skills-1	MC	-	3				-	
B19 MC 3102	Basic Coding	MC		-	-	3		-	-
	,	TOTAL	21	21	_	,	120	510	700

SCHEME OF INSTRUCTION & EXAMINATION (Regulation R19) IVIV B.TECH II SEMESTER (With effect from 2019 2020Admitted Parch onwards)

Subject Code	Name of the Subject	Category	Cr	l.	т	P	Internal Marks	External Marks	Total Marki
2201	Electrical Machines 1	PC,	3	3	-		25	75	100
E19 EE	Digital Electronics and Logic Design	PC	3	3			25	75	100
B19 F.E 2203	Signah and Systems	PC	3	3		-	25	15	100
2207	Prime Movers and Pumps	ES	3	3			25	75	100
B19 CS 2209	OOPs through JAVA	ES	3	3	-		25	75	100
2501 5701	Management and Organizational Behavior	115	3	3			25	75	100
B19 EE 2204	Electrical Measurements and Instrumentation Lab	PC	15		,	3	20	30	50
B19 ME 2208	Thermal Prime movers Lab	1.S	15	#	*	3	20	30	30
2302 2302	Professional Editos and Human Values	мс	0	3	-	-			
		TOTAL	21	21	0		190	510	700

SCHEME OF INSTRUCTION & EXAMINATION

(Regulation R19) HIVIV B.TECH

II-SEMESTER
(With effect from 2019-2020Admitted Batch priwards)

Subject Code	Name of the Subject	Category	Cr	L	т	P	Internal Marks	External Marks	Tetal Marks
B19 EE 3201	Power System Analysis and Stability	PC	3	3			25	75	100
B19 EE 3202	Internet of Things and its applications in Electrical Engineering	PC	ĵ	3	-	-	25	75	100
# PE-II	Professional Flective-II	PE	1	3			25	75	100
# PE-III	Professional Elective-III	PE	3	3		-	25	75	100
1:00	Open Elective-I	OE	1	3			25	75	100
B19 EE 3211	Electrical Machines - II Lab	PC	15			1	20	30	50
B19 EE 3212	Control Systems Lab	PC	15	-	-	3	20	30	50
119 EE 1213	Power Electronics Lab	PC	15	-	-	1	20	30	.50
B19 MC 3201	Employshility skills-II	MC	ŋ	3				-	
919 MC 3203	Advanced Coding	MC		-		,		-	
		TOTAL	19,5	18	-	12	185	465	640

 Suggested to change the con tact hours of computers subjects to 2 theory and 2 practical classes per week.
 Suggested to add the course IOT and its applications in 3rd Year and suggested to maintain uniform number of subjects to all electives.

H. Dagapash dej

S.R.K.R. Engg. Collage BHIMAYARAM 534 204.

Subject Code	Name of the Subject	Category	Cr	L.	T	P	Internal	External	Total
B19 EE 3201	Power System Analysis and Stability	PC	3	3	+	-	Maries	Marks	Marks
BI9 EE	Internet of Things and its			_		-	25	75	100
3202	applications in Electrical Engineering	PC	3	3			25	75	100
# PE-II	Professional Elective-II	PE	3	3	+-	-		and the second	
# PE-III	Professional Elective-III	PE	3	-	1-		25	75	100
# OE-I	Open Elective-I			3	-		25	75	100
BI9 EE		OE	3	3			25	75	100
3211	Electrical Machines - II Lab	PC	1.5	-		3	20	20	
B19 EE 3212	Control Systems Lab	PC	1.5	-	-	-		30	50
B19 EE	Power Electronics Lab		-			3	20	30	50
3213	STATE OF CONTRACTOR CONTRACTOR	PC	1.5			3	20	30	50
3201	Employability skills-II	MC	0	3	-			- 30	- 30
B19 MC	Advanced Coding						-		_
3203	aneca coding	MC	-			3	-	-	
	X	TOTAL	19.5	18	_	12	185	465	650

	Course Code	
(Alexander)	B19 EE 3203	Advanced Control Systems
#PE-II	B19 EE 3204	Digital Control systems
	B19 EE 3205	Special Electrical Machines
	B19 EE 3206	MOOCs-II
	B19 EE 3207	Power Electronic Drives
#PE-III	B19 EE 3208	Advanced power electronics Circuits
~ 12-111	B19 EE 3209	Switched Mode Power Supplies
	B19 EE 3210	MOOCs-III

	Course Code	6
#OE-I	Student has to study one Ope or EM&H	en Elective offered by CE or CSE or ECE or IT or ME

4) Discussed about syllabus for B.Tech(R19) 2nd Year.

 5) Suggested to change course outcomes for some of the subjects in B.Tech(R19) 2nd Year.
 6) Suggested to add some basic topic to Machines-1 subject and change the order of the units as DC Machines comes first instead of transformers.

***************************************	SYLLABUS
UNIT-I (10 Hrs)	Electromechanical energy conversion: Basic principles of energy, force and torque in singly and multiply excited systems. Construction and working principle of DC machines and methods of excitation.
UNIT-II (10 Hrs)	D.C. Machines D.C generators-emf equation, armature reaction, commutation. Compensating winding characteristics of various types of generators, applications. D.C. motors- torque equation D.C. shunt, series and compound motors—characteristics & applications
UNIT-III (10 Hrs)	Starting &Speed control Starting methods and speed control of D.C. shunt and series motors testing of D.C motors - direct and regenerative methods to test D.C. machines. Swinburne's test, field's test and separation of losses.
UNIT-IV (10 Hrs)	Transformers: Principle, construction and operation of single-phase transformers, phasor diagram, equivalent circuit, voltage regulation, losses and efficiency. Testing- open & short circuit tests, Sumpner's test. Autotransformers- construction, principle, applications and comparison with two winding transformer.

7) Feedback from stakeholders (students, Alumni and parents) was discussed while framing the course curriculum and syllabus.

8) Discussed about scheme and syllabus for B.Tech(R17) 4th Year

SHEME OF INSTRUCTION & EXAMINATION REPAIRMS 1175 FOTO BITHE FRESH BERN BERN BERNESING ELECTRICAL AND ELECTRICAL ENCENTRACE

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- 9) Suggested to remove DBMS course from elective-1, instead of that add any Advanced subject.
- 10) Suggested to change the title of units in electric drive courses and inerchange the unit-3 and unit-4 in electrical vehicles course.
- Suggested to change the contents in FACTS, Power station practice and HVDC Transmission and asked to revise the syllabus.
- 12) Suggested to change the order of experiments in power electronics lab based on the contents and suggested to add fault analysis to power system simulation lab.

List of experiments:

- 1. Study the Characteristics of SCR, ICBT and MOSFET
- 2. Design of Gate Drive Circuit for IGBT & MOSFET
- 3. Compare the R and RC triggering circuit for various firing angle.
- 4. 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.
- 6. Construct a Single Phase AC Voltage Controller for R and RL Loads.
- 7. Study of Single Phase Cycloconverter for different frequency divisions.
- 8. Study of Impulse Commutated Chopper for various duty cycles.
- 9. Construct a single phase dual converter with and without circulating current mode of operation.
- 10. Study of Three Phase Inverter with 120° and 180° Mode of operation.

Add on Experiments:, ,

- 1. Obtain the Three Level AC voltage from DC input using NPC Inverter.
- 2. Obtain the Five Level AC voltage from DC input using Cascaded Multi Level Inverter.
- 3. Study of Three Phase Full Converter with R-Load
- 4. Study of Three Phase Semi Converter with R-Load
- 5. Study of Three Phase AC Voltage Controller with R-Load
- 6. Study of Three Phase Sinusoidal PWM Inverter.
- 13) Suggested to add some basic experiments to power system protection lab instead of equivalent circuit of 3phase transformer.

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List of experiments

1. Obtain positive, negative and zero sequence impedances of a 3-phase transformer.

Obtain the sequence impedance of alternator by fault analysis.

3. Obtain power angle characteristics of a salient pole synchronous machine by knowing direct and quadrature axis reactance.

4. Determine the dielectric strength of insulating oil.

5. Obtain the equivalent circuit of a 3-winding transformer.

Obtain the ABCD parameters of transmission line.

To plot the IDMT characteristics of electromagnetic over current relay.

8. To plot the DMT and IDMT characteristics of static overvoltage and under voltage relays.
9. To test the operation of Differential relay for Protection of transformer.

10. To test the characteristics of Negative sequence current relay with phase reversal fault

14) Discussed about the syllabus of Networks subject for B.Tech(R19) ECE 2nd Year and suggested to add some basic concepts to unit-1 like basic elements and Basic Theorems.

	SYLLABUS
UNIT-I (9 Hrs)	Network Theorems: Review of De circuits, Superposition, Thevenin's, Norton's, Reciprocity, Max Power Transfer theorems.
UNIT-II (12 Hrs)	DC translents: Inductor, Capacitor, source free RL, RC and RLC response, Evaluation of Initial conditions, Application of unit-step function to RL, RC and RLC circuits, concepts of Natural, Forced and Complete response.
UNIT-III (10 Hrs)	Analysis of AC Networks: Review of ac circuits, Node and mesh analysis, Superposition, Thevenin's, Max Power Transfer theorems. Resonance: Series and parallel resonance, selectivity, band width and Quality factor, locus diagram.
UNIT-IV (10 Hrs)	Two-port Networks: Introduction, Z-parameters, Y-parameters, Transmission line parameters, h-parameters, Relationship between various parameters, series, parallel & cascade connection of two port networks.



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

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

Dr. M. Jagapathi Raju M.Tech (HT, KGP), Ph.D (A.U), FIE, MISTE PRINCIPAL



Phones: 08816-223332 Ext. 201
Direct: 08816-222748
Mobile No.: 9848381818
Email: principal@srkrec.ac.in
principalsrkrec@gmail.com
Website: www.srkrec.ac.in

Date: 25.11.2020

SRKREC/BOS/JBS/2020-21

To
Dr. K. Venkata Reddy
Associate Professor of EEE
University College of Engineering Kakinada (UCEK)
JNTU Kakinada.

Dear Sir,

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

We take the privilege in inviting you for the Joint Board of Studies Meeting of SRKR Engineering College on 29.11.2020 (Sunday). It is proposed to discuss and finalize the course structure and syllabi of B. Tech. first year of all branches for the academic year 2020-2021.

In this regard, you are requested to attend the online meeting of the Joint Board of Studies on 29.11.2020 at 9.30 AM. The online meeting link will be provided to you shortly.

The Board of Studies meetings of the Departments concerned will be conducted at 11.00 AM on the same day (29.11.2020) in online mode.

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

Yours Sincerely,

PRINCIPAL

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

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Direct: 08816-222748
Mobile No.: 9848381818
Email: principal@srkrec.ac.in
principalsrkrec@gmail.com
Website: www.srkrec.ac.in

Date: 25.11.2020

SRKREC/BOS/JBS/2020-21

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-Joint Board of Studies Meeting-Invitation-Reg.

We take the privilege in inviting you for the Joint Board of Studies Meeting of SRKR Engineering College on 29.11.2020 (Sunday). It is proposed to discuss and finalize the course structure and syllabi of B. Tech. first year of all branches for the academic year 2020-2021.

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S.R.K.R. Engg. College

Yours Sincerely,

PRINCIPAL

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Email: principal@srkree.ac.in
principalsrkree@gmail.com
Website: www.srkree.ac.in

Date: 25.11.2020

SRKREC/BOS/JBS/2020-21

To
Dr. Ch. V.V.S. Bhaskara Reddy
Professor
Dept of Electrical Engineering
College of Engineering, Andhra University
Visakhapatnam-530003.

Dear Sir.

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

We take the privilege in inviting you for the Joint Board of Studies Meeting of SRKR Engineering College on 29.11.2020 (Sunday). It is proposed to discuss and finalize the course structure and syllabi of B. Tech. first year of all branches for the academic year 2020-2021.

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Yours Sincerely,

PRINCIPAL

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Email: principal@srkrec.ac.in
principalsrkreci@gmail.com
Website: www.srkrec.ac.in

Date: 25.11.2020

SRKREC/BOS/JBS/2020-21

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-Joint Board of Studies Meeting-Invitation-Reg.

We take the privilege in inviting you for the Joint Board of Studies Meeting of SRKR Engineering College on 29.11.2020 (Sunday). It is proposed to discuss and finalize the course structure and syllabi of B. Tech. first year of all branches for the academic year 2020-2021.

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The Board of Studies meetings of the Departments concerned will be conducted at 11.00 AM on the same day (29.11.2020) in online mode.

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

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

Yours Sincerely,

PRINCIPAL

PRINCIPAL 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:23.11.2020

CIRCULAR

This is to inform you that the Department of Electrical And Electronics Engineering will hold a meeting on 29-11-20 at 09.30A.M by online mode and the meeting link will be provided. In this connection, all the members of Board of studies are requested to attend the same.

Agenda:

- 1) To discuss and finalize schemes for B.Tech (R20) 1st, 2nd, 3rd & 4th years.
- 2) To discuss and finalize syllabus for B.Tech (R20) 1st year.
- 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



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Date: 29-11-2020

Members of Board of Studies

S.NO	category	NAME	DESIGNATION	SIGNATURE
1	Chairman	Dr. P Kanta Rao	Prof &Head SRKREC	Puss
2	JNTUK Nomince	Dr.K.Venkata Reddy	Associate Professor, UCEK, JNTUK, Kakinada.	ONLINE
3	Expert from other university	Dr.M.Damodar Reddy	Professor, Department of Electrical Engineering S.V.University, Tirupati.	ON LINE
4	Expert from other university	Dr.Ch.V.V.S Bhaskara Reddy	Professor, Department of Electrical Engineering, Andhra University, Visakhapatnam.	ON LINE
5	Expert from other university	Dr.P Sankar	Assistant Professor, Department of Electrical Engineering, NIT Andhra Pradesh	ONLINE
6	Industry expert	Dr. Ch.Chandra Shekhar	Project Manager, Hyundai Mobis Ind,Ltd, Hyderabad	Not Presu
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 Prise
9		Dr.B.R.K.Varma	Professor, SRKREC	6.0
10	Faculty of each	Sri N. Srinivasu	Professor, SRKREC	1.8~~
11	specialization	Dr.M.Sai Veerraju	Professor, SRKREC	Med -
12		Sri.D.J.V Prasad	Associate Professor, SRKREC	A.T. Dree

Agenda:

- 1. To discuss about Scheme for B.Tech (R20) 1st, 2nd, 3rd & 4th Years
- 2. To discuss about Syllabus for B.Tech (R20) 1st Year

3. Any other item with the permission of Chair.

S.R.K.R. Engg. College S.R.K.R. Engg. 204.

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		Minutes of Meeting		
		A BOS meeting was hold on 29-11-2020 for the E (Rea) curriculam and subjects for fixet year courses.	3 Toch	1st Year
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		Minutes of Meeting		-
	1.	Discussed and Finalized the Scheme for B. Tech (R20) 1st, 2nd, 3rd & 4th Years.		
	2.	Suggested to change the representation for Professional Elective Courses.		
	3.	Discussed and Suggested to change some syllabus contents in Introduction to Electrical		
		Systems course for EEE.		
	4.	Suggested to add sensors to the Basic Electrical and Electronics Engineering Course for		
		Mechanical.		-
-	5.	Suggested to add Servo motors, sensors and activators to Basic Electrical Engineering		
at.		course in the place of BLDC motors for ECE.		3100000
-	6.	Discussed and Finalized the syllabus of Principles of Electrical Engineering Course for		
		CS&BS.		1
=	7.	Discussed and Finalized the syllabus for Principles of Electrical & Electronics Engineering		
٥		course for AI&DS.		-
-				*************
		DEPT. OF E.E.E. Chairman BOS Head of EEE Department S.R.K.R. Engg.College BHIMAVARAM —534 204	<u>7</u> 9 11	20
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RESOLUTIONS FOR THE MEETING DATED 29-11-2020

1) Discussed and finalised the schemes for B.Tech(R20) 1st, 2nd Years.

Re	gulation: R20		_1	m.	RIe	h. 1-	Semester		
	FLECTRICAL	& FLFC	TRO	ics	ENG	NEER	UNG		
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Code	Course Name	Catego		ι	т	p	lat. Marks	Est. Marks	Total
B20 HS 1101	English	IIS	3	3	0	0	30	70	100
R20 RS 1101	Mathematics-I	B5	3	3	0	0	30	70	100
B20 BS 1102	Applied Physics	BS	3	3	0	0	30	70	100
B20 ME 1101	Engineering Drawing	ES	3	2	0	2	30	70	100
B20 EE	Introduction to Electrical Systems	EZ	3)	0	0	30	70	100
820 EE	Basic Electrical Systems Lab	ES	1.5	0	0	3	15	35	50
B20 BS 1107	Applied Physics Lab	BS	13	0	0	3	15	35	50
B20 ME 1102	Workshop Practice	ES	1.5	0	0	3	15	35	50
	T	OTAL	19.4	14	0	11	195	455	650

Reg	rulation; R20	-2011 - 41.111	11	/IV-	B.To	d. [-	Semester		
	ELECTRICA	LA ELEC	TRO	vics	ENG	INEE	RING		
	SCHEME OF								
Code	Course Name	Categ	Cr	I.	т	P	lat. Marks	Est. Marks	Total Mark
B20 BS 2101	Numerical Methods & Vector Calculus	as	1	3	0	0	30	70	100
B20 EC 2101	Electronic Devices and Circuits	PC	1	3	0	0	30	70	100
B20 EE 2101	Network Analysis	PC	,	3	0	0	30	70	100
B20 F.E 2102	Electromagnetic Field Theory	PC	3	3	0	0	30	70	100
R20 EE 2103	Electrical Machines-1	PC	3	3	0	0	30	70	100
B20 EE 2104	Networks Laboratory	PC	15	0	0	3	15	35	50
B20 EE 2105	MATLAB Simulation Laboratory	PC	1.5	0	0	3	15	35	50
B20 EC 2105	Electronic Devices and Circuits Lab With Simulation	PC	15	0	0	3	15	35	50
B20 EE 2106	Solar Energy Systems Laboratory	soc	2	0	0	1	-	50	50
B20 MC 2102	Professional Ethics and Human values	ис	0	2	0	0		-	
		TOTAL	21.5	17	0	13	195	505	700

R	egulation: R20		1	W.	B.Te	h. 11 -	Semester		
T-11127	ELECTRICAL	& ELE	CTRO	NICS	ENG	INEE	RING		
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Course Code	Course Name	Cates	Cr	L	T	P	lat. Marks	Est. Marks	Total Mark
B20 BS 1201	Mathematics-II	BS	3	3	0	0	30	70	100
B20 BS 1203	Applied Chemistry	BS	3	3	0	0	.30	70	100
B20 CS 1201	Programming for Problem Solving Using C	ES	3	3	0	0	30	70	100
B20 CS 1204	Digital Computer Fundamentals	ES	3	3	0	0	30	70	100
B20 ME 1204	Prime Movers and Pumps	ES	3	3	0	0	30	70	100
B20 BS 1208	Applied Chemistry Lab	BS	15	0	0	3	15	35	50
B20 HS 1202	Communication Skills	IIS	15	0	0	3	15	35	50
B20 CS 1205	Programming for Problem Solving Using C Lab	ES	1.5	0	0	3	15	35	50
B20 MC 1201	Environmental Science	MC	0	2	0	0	-	-	-
B20 MC 1203	National Service Scheme (NSS)	MC	0	0	0	2	-	-	-
	TO	TAL	19.5	17	0	11	195	455	650

	ELECTRICAL	& ELEC	TRO	NICS	ENG	INEE	RING		
	SCHEME OF I	NSTRU	стю	N& E	XAN	IINAT	10.N		
Course Code	Course Name	Categ	Cr	L	Т	P	lat. Marks	Est. Marks	Total Marks
B20 BS 2204	Complex Variables and Statistical Methods	BS	3	3	0	0	30	70	100
B20 EC 2201	Electronic Circuit Analysis and Design	PC	3	3	0	0	30	70	100
B20 EE 2201	Electrical Machines-II	rc	3	3	0	0	30	70	100
B20 EE 2202	Electrical Power Generation Transmission & Distribution	PC	3	3	0	0	30	70	100
B20 EE2203	Electrical Measurements & Instrumentation	PC	3	3	0	0	30	70	100
B20 EC 2206	Electronic Circuit Analysis And Design Lab With Simulation	PC	15	0	0	3	15	35	50
B20 EE 2204	Electrical Measurements & Instrumentation Laboratory	PC	1.5	0	0	3	15	35	50
B20 EE 2205	Electrical Machines-I Laboratory	PC	1.5	0	0	3	15	35	50
B20 EE 2206	Smart Systems Laboratory	SOC	2	0	0	1	-	50	50
220 MC 2201	English Proficiency	МС	0	2	0	0			4
iù.	T	DTAL	21.5	17	0	13	195	505	700

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

2) Suggested to change the representation for professional elective courses. 3) Discussed and suggested to change some syllabus contents in Introduction to Electrical systems Course in EEE 4)Suggested to add sensors to Basic Electrical and Electronics Engineering Course for mechanical. 5) Suggested to add servo motors, sensors and actuators to Basic Electrical Engineering course in place of BLDC 6) Discussed and finalised the syllabus of Principles of Electrical Engineering Course for CSBS SYLLABUS (Theory) Basic concepts of Electrical circuits: Concept of Potential difference, voltage, current, Fundamental linear passive and active elements to their functional current-voltage relation, UNIT-I voltage sources and current sources, ideal and practical sources, concept of dependent and (10 Hrs) independent sources. Kirchhoff-s laws and applications to network solutions using mesh and nodal analysis. Concept of work, power and energy. DC Circuits: Current-voltage relations of the electric network by mathematical equations to analyze the network (Thevenin's theorem, Norton's Theorem, Maximum Power Transfer UNIT-II theorem), Superposition theorem. Simplifications of networks using series-parallel, Star/Delta (10 Hrs) AC Circuits: AC waveform definitions, form factor, peak factor, study of R-L, R-C,RLC series circuit, phasor representation in polar and rectangular form, concept of impedance, UNIT-III admittance, active, reactive, apparent and complex power, power factor. Introduction to 3 (10 Hrs) phase Balanced AC Circuits, voltage and current relations (Y-\Delta connection) Electrostatics and Electromagnetism: Electrostatic field, electric field strength, concept of permittivity in dielectrics, capacitors, capacitors in series and parallel, energy stored in capacitors, charging and discharging of capacitors. Magnetic field and Faraday's law, self and UNIT-IV mutual inductance. Single phase transformer, principle of operation, EMF equation, (10 Hrs) voltageratio, current ratio, KVA rating, efficiency. Principle of batteries, types and applications. Measurements, Sensors and Safety: Introduction to measuring devices/sensors and transducers (Piezoelectric and thermo-couple) related to electrical signals, Elementary UNIT-V methods for the measurement of single-phase power. Electrical Wiring: Basic layout of the (10 Hrs) distribution system, necessity of earthing, types of earthing. Safety devices & system. 7) Discussed and finalised the syllabus of Principles of Electrical Engineering Course for Al&DS SYLLABUS Introduction to Electrical circuits: Introduction to electrical concepts. Types of network elements, Ohms Law, Kirchhoff's UNIT-I Laws, Series and parallel Circuits connection of resistances with DC excitation. (12Hrs) Representation of sinusoidal waveforms - Peak, Average and RMS values - Phasor representation - real power -Reactive power - apparent power - power factor. Analysis of single-phase ac circuits consisting of RL - RC - RLC series circuits D.C Machines: UNIT-II Faraday's Laws-Induced EMF - Principle of operation of DC Generator - EMF equation -(1011rs) Construction-Types of DC generator-DC motor types, Torque equation -Losses. Transformers and AC machines: UNIT-III Principle of operation of single-phase transformer - EMF equation - equivalent circuit losses- Transformer efficiency, principle and operation of Induction Motor [Elementary (8 Hrs) treatment only]. Semiconductors and P-N junction diode: Types of semiconductors. Basic operation and V-I Characteristics of semiconductor diode, UNIT-IV Operation of PN junction diode as rectifier, Avalanche breakdown and Zener breakdown (12 Hrs) phenomenon, Operation of Zener diode as regulator. Light Emitting Diode (LED).

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UNIT-V (8Hrs) Bipolar Junction Transistor (BJT) and Field Effect Transistors (FET): Introduction, construction, basic operation of NPN and PNP transistors, Transistor circuit Configurations- CE, CB, and CC- Input and output Characteristics in various configurations, Transistor as an amplifier, Junction field Effect Transistors (JFET), JFET characteristics [Elementary treatment of FETonly].



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

H. Dagapash . Deji

S.R.K.R. Engg. College S.R.K.R. Engg. 534 204,