



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

(An Autonomous Institute under Kakatiya University, Warangal)

(Approved by AICTE, New Delhi; Recognised by UGC under 2(f) & 12(B); Sponsored by EKASILA EDUCATION SOCIETY)

Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506 015, Telangana, INDIA.

काकतीय प्रौद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५०६, ०१५

కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ - ౫౦౬, ౦౧౫

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

M. Tech. – Digital Communications

PRR-20 SCHEME OF INSTRUCTION & EVALUTION (Applicable from the Academic Year 2020-21)

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL-15
(An Autonomous Institute under Kakatiya University, Warangal)
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Minutes of Virtual BoS Meeting

Date: 13.11.2020

Time: 02:00PM

Agenda:

1. Approval of Scheme of PRR 2020 - M. Tech(Digital Communications) I to IV Semesters
2. Approval of Syllabus of PRR 2020- M. Tech(Digital Communications) I to IV Semesters
3. Any other item with the permission of chair.

Members Present:

S. No.	Name of the Member	Designation	Position in BoS
1.	Dr. B. Rama Devi	HoD ECE, KITSW	Chairperson, BoS
2.	Dr. K. Ashoka Reddy	Senior Professor of ECE Dept. KITSW	Member
3.	Dr. G. Raghotham Reddy	Professor of ECE Dept. KITSW	Member
4.	S. P. Girija	Assoc. Prof. of ECE Dept. KITSW	Member
5.	E. Suresh	Assoc. Prof. of ECE Dept. KITSW	Member
6.	Sri Surya Kanth V Gangasetty	Professor, IIIT, Hyderabad,	External Member (from renowned Academic Institute)
7.	Dr.L.Anjaneyulu	Professor & Head, Dept. of ECE, NIT, Warangal	External Member (from renowned Academic Institute)
8.	Prof. T. Srinivasulu	Professor in ECE Department of Electronics and Communication Engineering Kakatiya University College of Engineering and Technology, Kakatiya University, Warangal- 506009, India. Dean (Faculty of Engineering & Technology), Kakatiya University.	External Member (University Nominee)
9.	Ramesh GupthaGuntha	Senior Staff Engineer Manager, Qualcomm	External Member (from Industry)
10.	Dr.Y.Jagan Mohan Reddy	Senior Engineering Manager, Honewell Technology Solutions Labs Pvt Ltd, Hyderabad	External Member (from Industry)
11.	Dr. G Sanath Kumar	Deputy Director, Central Institute of Tool Design (CITD), Hyderabad	External Member (from Industry)
12.	Sri V.Madhan Kumar	Lead Physical Design Engineer, Cerium Systems Pvt Ltd, Bangalore (Synopsis, Kondapur, Kothaguda, Hyderabad, Telangana) (M.Tech 2009-11)	External Member (Post Graduate Meritorious Alumnus -- Academia/Industry)
13.	A.Vijaya	Assoc. Prof. of ECE Dept. KITSW	Co-Opted Member-1
14.	Dr. M. Raju	Assoc. Prof. of ECE Dept. KITSW	Co-Opted Member-2
15.	Dr.V.Venkateshwar Reddy	Assoc. Prof. of ECE Dept. KITSW	Co-Opted Member-3

Resolutions:

1. Virtual BoS meeting of Electronics and Communication Engineering Department was conducted on 13.11.2020, from 02.00 pm through Google Meet.
2. The above mentioned BoS members are present and offered their valuable suggestions.
3. BoS members of Electronics and Communication Engineering, KITSW approved
 - a) Scheme of M. Tech. (Digital Communication) - I to IV Semesters
 - b) Syllabus of M. Tech. (Digital Communication) - I to IV Semesters Courses and made following suggestions to incorporate.
4. Add minimum two number of text books in general to all subjects.
5. Add tutorials for complex subjects.
6. Credits not required for audit course. Follow the AICTE guidelines.
7. The students should select a MOOC Course from the list suggested by DAAC. In this regard, a special note to be added in the scheme - suggested by Prof. T. Srinivasulu sir.
8. Reduce the content if any subject overloaded.

I-Semester

S. No.	Course Code	Course Name	Suggestions made by the BoS members	Remarks
1	P20DC101	Professional Core-1: Advanced DSP Processors	NiL	Syllabus is good
2	P20DC102	Professional Core-2: Modern Communication Techniques	NiL	Syllabus is good
3	P20DC103A	Cognitive Radio	Add Energy harvesting in III unit	
4	P20DC103B	Smart Antennas	NiL	Syllabus is good
5	P20DC103C	Probability Theory and Linear Algebra	NiL	Syllabus is good
6	P20DC103D	MOOCs	NiL	-
7	P20DC104A:	Statistical Signal Processing	NiL	Syllabus is good
8	P20DC104B:	Information and Coding Theory	NiL	Syllabus is good
9	P20DC104C:	RF Circuits	NiL	Syllabus is good
10	P20DC104D:	MOOCs	NiL	-
11	P20DC105	Professional Core Lab-I: Advanced DSP Processors Lab	NiL	Syllabus is good
12	P20DC106	Professional Core Lab-II: Modern Communication Techniques Lab	NiL	Syllabus is good
13	P20MC107	Research Methodology & IPR	NiL	Syllabus is good
14	P20AC108A	English for Research Paper Writing	Suggested to refine the title of P20AC108A: English for Research	Syllabus is good

			Paper Writing as Professional English etc. Refine the titles of the audit courses. Credits not required for audit course. Follow the AICTE guidelines.	
15	P20AC108B	Sanskrit for Technical Knowledge	NiL	-
16	P20AC108C	Constitution of India	NiL	-
17	P20AC108D	Pedagogy Studies	NiL	-
II-Semester				
1	P20DC201	Professional Core-3: Ad Hoc Wireless Networks	Suggested to refine the title	
2	P20DC202	Professional Core-4: Machine Learning for Communication System	NiL	Syllabus is good
3	P20DC203A	FPGA Based Wireless Communication Systems	NiL	Syllabus is good
4	P20DC203B	Advanced Embedded Systems	NiL	Syllabus is good
5	P20DC203C	Fiber Optic Communication and Networks	NiL	Syllabus is good
6	P20DC203D	MOOCs	NiL	-
7	P20DC204A	Multirate DSP for Communication	NiL	Syllabus is good
8	P20DC204B	VLSI Signal Processing	NiL	Syllabus is good
9	P20DC204C	Image and Video Processing	NiL	Syllabus is good
10	P20DC204D	MOOCs	NiL	-
11	P20DC205	Professional Core Lab-III: Wireless Communication Networks Lab	NiL	Syllabus is good
12	P20DC206	Professional Core Lab-IV: Machine Learning Lab	NiL	Syllabus is good
13	P20DC207	Mini Project with Seminar	NiL	Syllabus is good
14	P20AC208A	Stress Management by Yoga	NiL	Syllabus is good
15	P20AC208B	Value Education	NiL	-
16	P20AC208C	Personality Development through Life Enlightenment Skills	NiL	-
17	P20AC208D	Disaster Management	NiL	-
III-Semester				
1	P20DC301 A	IoT and	NiL	Syllabus is good

		Communication Protocols		
2	P20DC301B	Optimization techniques for Wireless Communications	NiL	Syllabus is good
3	P20DC301C	Green Wireless Communications	NiL	Syllabus is good
4	P20DC301D	MOOCs	NiL	-
5	P20OE302A	Business Analytics	NiL	-
6	P20OE302B	Industrial Safety	NiL	-
7	P20OE302C	Operations Research	NiL	-
8	P20OE302D	Cost Management of Engineering Projects	NiL	-
9	P20OE302E	Composite Materials	NiL	-
10	P20OE302F	Waste to Energy	NiL	-
11	P20OE302G	Renewable Energy Sources	NiL	-
12	P20OE302H	MOOCs	NiL	-
13	P20DC303	Dissertation <i>Phase-I</i> / Industrial Project (to be continued in IV - semester also)	NiL	-
14	P20DC304	Internship Evaluation	NiL	-
IV-Semester				
1	P20DC401	Dissertation <i>Phase-II</i>	NiL	-

Finally, Dr.B.Rama Devi, Professor & Head and Chairperson, BoS, ECE Department, thanked all the BoS members, Principal, AAC members and faculty of Electronics and Communication Engineering Department for giving their suggestions while preparing the scheme and drafting the syllabus.

The meeting was adjourned at 3:00pm

Regards:

Dr.B.Rama Devi

Chairperson, BoS of ECE, KITSW

Professor & Head,

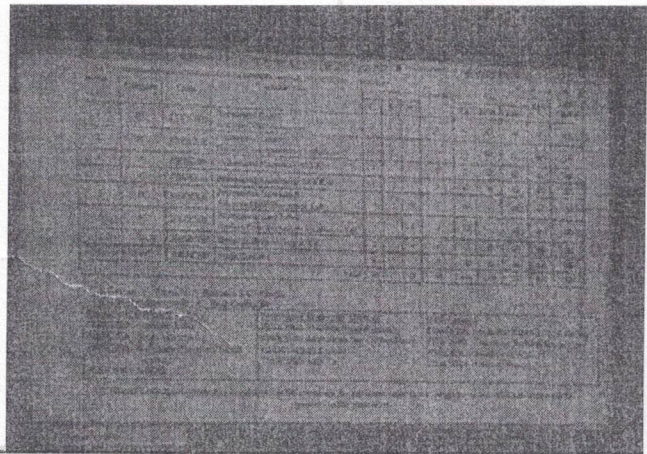
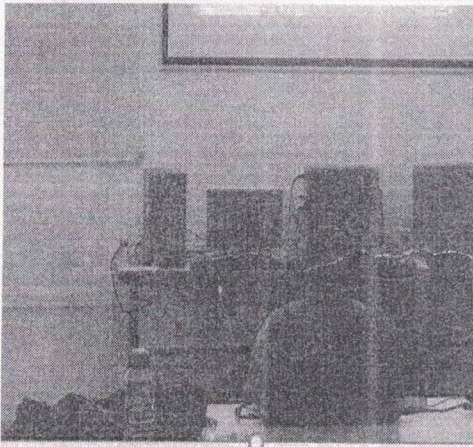
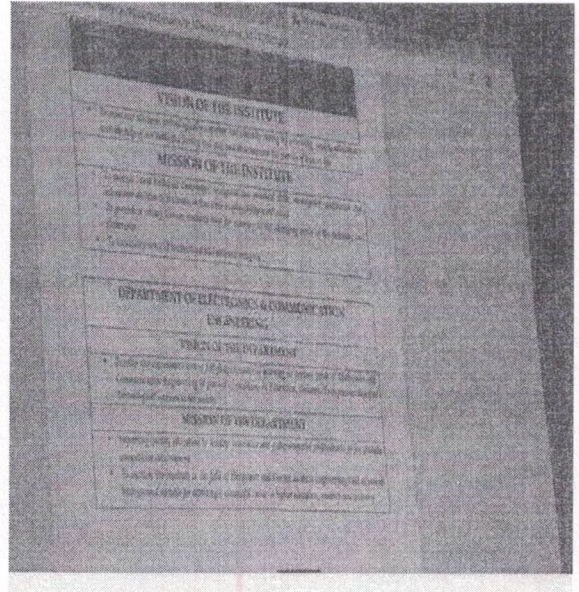
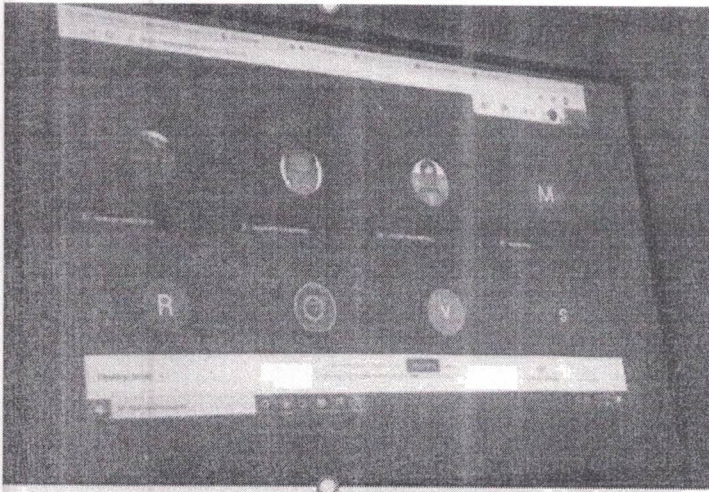
Department of Electronics & Communication Engineering,

Kakatiya Institute of Technology & Science(KITSW),

Yerragattu Hillock, Bheemaram,

Warangal, Telangana, India-506015.

Mobile: +91-9032001167, +91-7670822830





Sl. No.	Course Code	Course Title	Semester	Credits	Prerequisites	Total Marks
1	ME6501	Engineering Graphics	I	4		100
2	ME6502	Engineering Mechanics	I	4		100
3	ME6503	Engineering Mathematics - I	I	4		100
4	ME6504	Engineering Mathematics - II	I	4		100
5	ME6505	Engineering Mathematics - III	I	4		100
6	ME6506	Engineering Mathematics - IV	I	4		100
7	ME6507	Engineering Mathematics - V	I	4		100
8	ME6508	Engineering Mathematics - VI	I	4		100
9	ME6509	Engineering Mathematics - VII	I	4		100
10	ME6510	Engineering Mathematics - VIII	I	4		100
11	ME6511	Engineering Mathematics - IX	I	4		100
12	ME6512	Engineering Mathematics - X	I	4		100
13	ME6513	Engineering Mathematics - XI	I	4		100
14	ME6514	Engineering Mathematics - XII	I	4		100
15	ME6515	Engineering Mathematics - XIII	I	4		100
16	ME6516	Engineering Mathematics - XIV	I	4		100
17	ME6517	Engineering Mathematics - XV	I	4		100
18	ME6518	Engineering Mathematics - XVI	I	4		100
19	ME6519	Engineering Mathematics - XVII	I	4		100
20	ME6520	Engineering Mathematics - XVIII	I	4		100
21	ME6521	Engineering Mathematics - XIX	I	4		100
22	ME6522	Engineering Mathematics - XX	I	4		100
23	ME6523	Engineering Mathematics - XXI	I	4		100
24	ME6524	Engineering Mathematics - XXII	I	4		100
25	ME6525	Engineering Mathematics - XXIII	I	4		100
26	ME6526	Engineering Mathematics - XXIV	I	4		100
27	ME6527	Engineering Mathematics - XXV	I	4		100
28	ME6528	Engineering Mathematics - XXVI	I	4		100
29	ME6529	Engineering Mathematics - XXVII	I	4		100
30	ME6530	Engineering Mathematics - XXVIII	I	4		100
31	ME6531	Engineering Mathematics - XXIX	I	4		100
32	ME6532	Engineering Mathematics - XXX	I	4		100
33	ME6533	Engineering Mathematics - XXXI	I	4		100
34	ME6534	Engineering Mathematics - XXXII	I	4		100
35	ME6535	Engineering Mathematics - XXXIII	I	4		100
36	ME6536	Engineering Mathematics - XXXIV	I	4		100
37	ME6537	Engineering Mathematics - XXXV	I	4		100
38	ME6538	Engineering Mathematics - XXXVI	I	4		100
39	ME6539	Engineering Mathematics - XXXVII	I	4		100
40	ME6540	Engineering Mathematics - XXXVIII	I	4		100
41	ME6541	Engineering Mathematics - XXXIX	I	4		100
42	ME6542	Engineering Mathematics - XL	I	4		100
43	ME6543	Engineering Mathematics - XLI	I	4		100
44	ME6544	Engineering Mathematics - XLII	I	4		100
45	ME6545	Engineering Mathematics - XLIII	I	4		100
46	ME6546	Engineering Mathematics - XLIV	I	4		100
47	ME6547	Engineering Mathematics - XLV	I	4		100
48	ME6548	Engineering Mathematics - XLVI	I	4		100
49	ME6549	Engineering Mathematics - XLVII	I	4		100
50	ME6550	Engineering Mathematics - XLVIII	I	4		100
51	ME6551	Engineering Mathematics - XLIX	I	4		100
52	ME6552	Engineering Mathematics - L	I	4		100
53	ME6553	Engineering Mathematics - LI	I	4		100
54	ME6554	Engineering Mathematics - LII	I	4		100
55	ME6555	Engineering Mathematics - LIII	I	4		100
56	ME6556	Engineering Mathematics - LIV	I	4		100
57	ME6557	Engineering Mathematics - LV	I	4		100
58	ME6558	Engineering Mathematics - LVI	I	4		100
59	ME6559	Engineering Mathematics - LVII	I	4		100
60	ME6560	Engineering Mathematics - LVIII	I	4		100
61	ME6561	Engineering Mathematics - LIX	I	4		100
62	ME6562	Engineering Mathematics - LX	I	4		100
63	ME6563	Engineering Mathematics - LXI	I	4		100
64	ME6564	Engineering Mathematics - LXII	I	4		100
65	ME6565	Engineering Mathematics - LXIII	I	4		100
66	ME6566	Engineering Mathematics - LXIV	I	4		100
67	ME6567	Engineering Mathematics - LXV	I	4		100
68	ME6568	Engineering Mathematics - LXVI	I	4		100
69	ME6569	Engineering Mathematics - LXVII	I	4		100
70	ME6570	Engineering Mathematics - LXVIII	I	4		100
71	ME6571	Engineering Mathematics - LXIX	I	4		100
72	ME6572	Engineering Mathematics - LXX	I	4		100
73	ME6573	Engineering Mathematics - LXXI	I	4		100
74	ME6574	Engineering Mathematics - LXXII	I	4		100
75	ME6575	Engineering Mathematics - LXXIII	I	4		100
76	ME6576	Engineering Mathematics - LXXIV	I	4		100
77	ME6577	Engineering Mathematics - LXXV	I	4		100
78	ME6578	Engineering Mathematics - LXXVI	I	4		100
79	ME6579	Engineering Mathematics - LXXVII	I	4		100
80	ME6580	Engineering Mathematics - LXXVIII	I	4		100
81	ME6581	Engineering Mathematics - LXXIX	I	4		100
82	ME6582	Engineering Mathematics - LXXX	I	4		100
83	ME6583	Engineering Mathematics - LXXXI	I	4		100
84	ME6584	Engineering Mathematics - LXXXII	I	4		100
85	ME6585	Engineering Mathematics - LXXXIII	I	4		100
86	ME6586	Engineering Mathematics - LXXXIV	I	4		100
87	ME6587	Engineering Mathematics - LXXXV	I	4		100
88	ME6588	Engineering Mathematics - LXXXVI	I	4		100
89	ME6589	Engineering Mathematics - LXXXVII	I	4		100
90	ME6590	Engineering Mathematics - LXXXVIII	I	4		100
91	ME6591	Engineering Mathematics - LXXXIX	I	4		100
92	ME6592	Engineering Mathematics - LXXXX	I	4		100
93	ME6593	Engineering Mathematics - LXXXXI	I	4		100
94	ME6594	Engineering Mathematics - LXXXXII	I	4		100
95	ME6595	Engineering Mathematics - LXXXXIII	I	4		100
96	ME6596	Engineering Mathematics - LXXXXIV	I	4		100
97	ME6597	Engineering Mathematics - LXXXXV	I	4		100
98	ME6598	Engineering Mathematics - LXXXXVI	I	4		100
99	ME6599	Engineering Mathematics - LXXXXVII	I	4		100
100	ME6600	Engineering Mathematics - LXXXXVIII	I	4		100



PRR2020 - M.Tech. - DC - Scheme & Syllabus, BoS MoM

Inbox

HOD ECE <hod.ece@kitsw.ac.in>

Nov 13, 2020,

6:42 PM

to suryakanthvgangashetty, LOKAM, Srinivasulu, Ramesh, Jaganmohan, citdcadcam, madan454, Ashoka, KITSW, grr.ece@kitsw.ac.in, spg.ece@kitsw.ac.in, es.ece@kitsw.ac.in, mr.ece@kitsw.ac.in, vvr.ece@kitsw.ac.in, av.ece@kitsw.ac.in, me, svg, dy.directortrg

Respected BoS Members,

Good evening sir/madam.

On behalf of management, Principal, Dept. of ECE, I personally thank all the BoS members for their wonderful support and guidance.

I am enclosing the PRR 2020-M.Tech. DC Scheme & Syllabus and minutes of the BoS virtual meeting held on 13.11.2020 at 2.00pm.

I request you to approve the same. Please acknowledge the same.

Thank you.

Dr. B. Rama Devi,

Professor & HoD,

Dept. of ECE,

KITSW

Vodnala madan kumar

Nov 13, 2020,

7:48 PM

to me

Acknowledged.

Regards,

Madan Kumar Vodnala

India Con: +91-9966199305

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LOKAM ANJANEYULU

Nov 14, 2020,

11:12 AM

to me

Dear Madam

I convey my consent and approval of minutes of BoS of M.Tech (DC)

Best regards

On Fri, Nov 13, 2020 at 6:42 PM HOD ECE <hod.ece@kitsw.ac.in> wrote:

Dr L.Anjaneyulu, *SMIEEE, FIE,FIETE, LMISTE, MIAENG*

Professor & Head, Dept of ECE

NIT,Warangal

Ph: 0870-2462435 , 8332969355

Sanath -

Nov 14, 2020,

3:19 PM

to me

Dear Madam

All the subject syllabus are good and approved.

Regards

G SANATH KUMAR

Dy.director

SVG svg

Nov 15, 2020,

1:38 PM

to suryakanthvgangashetty@gmail.com, LOKAM, Srinivasulu, Ramesh, Jaganmohan, citdcad
cam@citdindia.org, madan454@gmail.com, Ashoka, KITSW, grr.ece@kitsw.ac.in, spg.ece@
kitsw.ac.in, es.ece@kitsw.ac.in, mr.ece@kitsw.ac.in, vvr.ece@kitsw.ac.in, av.ece@kitsw.ac.in
, dy.directortrg@citdindia.org, me

Dear All

It is fine with me.

Thank you

Yours Sincerely

Suryakanth V Gangashetty

Prof. Srinivasulu Tadisetty

Nov 15, 2020,

8:27 PM

to me

Prof. Ramadevi

Minutes seem to be okay. However, review once again the course title and content

Wonderful coordination for successful virtual meeting

Kind regards

Prof.TS

On Fri, Nov 13, 2020 at 6:42 PM HOD ECE <hod.ece@kitsw.ac.in> wrote:

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Prof. Srinivasulu Tadisetty

B. Tech (ECE), M. Tech (E&I), Ph. D,

LMISTE, LM ISOI, FIETE, LFBESI, SMIEEE, FLSI

Professor in ECE

Department of Electronics and Communication Engineering

Kakatiya University College of Engineering and Technology,

Kakatiya University, Warangal-506009, India

Dean (Faculty of Engineering & Technology),

Kakatiya University

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL-15
(An Autonomous Institute under Kakatiya University, Warangal)
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

No. /ECE/KITS/2020

Date: 28.12.2020

Submitted to the Principal:

Sub: ECE BoS virtual opinion via mail on 60: 40 continuous internal evaluation (CIE) - Reg.

Ref : No. KITS/Acad/2020-21/Policy Document on CIE:ESE PRR-20 Date: 23-12-2020

The ECE BoS members expressed the following suggestions regarding the 60: 40 continuous internal evaluation (CIE).

S. No.	Name of the Member	Position in BoS	Remarks on 60: 40 continuous internal evaluation (CIE)
1.	Dr. B. Rama Devi	Chairperson, BoS	I2RE incorporation is good. But, ESE should be given more weightage.
2.	Dr. K. Ashoka Reddy	Member	
3.	Dr. G. Raghotham Reddy	Member	We may go to a trade-off level of 50:50. (Fifty percent Internal Evaluation and Fifty percent External Evaluation)
4.	Smt.S. P. Girija	Member	In view of incorporating I2RE into Teaching -Learning process. We may go to a trade-off level of 50:50 (Fifty percent Internal Evaluation and Fifty percent External Evaluation)
5.	Sri E. Suresh	Member	It is fine and seems Good. Here am giving my consent for CIE 60:40 Scheme,PRR2020.
6.	Surya Kanth V Gangashetty	External Member (from renowned Academic Institute)	It is fine with me.
7.	Dr.L.Anjaneyulu	External Member (from renowned Academic Institute)	Agreed
8.	Prof. T. Srinivasulu	External Member (University Nominee)	It seems deviating from standards as proposing 60% internal and 40% end semester. Normally, the end semester will be more than internal? Review your decision
9.	Sri Ramesh Guptha Guntha	External Member (from Industry)	Looks good to me
10.	Dr. Y. Jagan Mohan Reddy	External Member (from Industry)	
11.	Dr. G Sanath Kumar	External Member (from Industry)	It looks good It seems to be as per industry standard.
12.	Sri V.Madhan Kumar	External Member (Post Graduate Meritorious Alumnus -	Agreed and looks great.



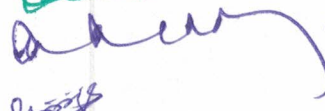


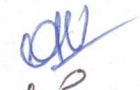
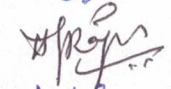
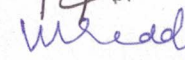
		Academia/Industry)	
13.	Smt. A.Vijaya	Co-Opted Member-1	According to my opinion instead of deviating from normal procedure, better to go with 60%external and 40% internal as usual.
14.	Dr. M. Raju	Co-Opted Member-2	To implement I2RE, it is necessary to increase CIE with 60% to include all the components of I2RE
15.	Dr. V.Venkateshwar Reddy	Co-Opted Member-3	It's ok. For me no issues with the proposed CIE. It's really a good move.

This is for your favor of information.

per vels

per vels

Dr. B. Rama Devi
Head, Dept. of ECE

- | | | | |
|-----|-------------------------------|---|---|
| 1. | Dr. B. Rama Devi | Chairperson, BoS |  |
| 2. | Dr. K. Ashoka Reddy | Member |  |
| 3. | Dr. G. Raghotham Reddy | Member |  |
| 4. | S. P. Girija | Member |  |
| 5. | E. Suresh | Member |  |
| 6. | Sri Surya Kanth V Gangasetty* | External Member
(from renowned Academic Institute) | |
| 7. | Dr.L.Anjaneyulu* | External Member
(from renowned Academic Institute) | |
| 8. | Prof. T. Srinivasulu* | External Member
(University Nominee) | |
| 9. | Ramesh Guptha Guntha* | External Member (from Industry) | |
| 10. | Dr.Y.Jagan Mohan Reddy* | External Member (from Industry) | |
| 11. | Dr. G Sanath Kumar* | External Member (from Industry) | |
| 12. | Sri V.Madhan Kumar* | External Member
(Post Graduate Meritorious Alumnus -
Academia/Industry) | |
| 13. | A.Vijaya | Co-Opted Member-1 |  |
| 14. | Dr. M. Raju | Co-Opted Member-2 |  |
| 15. | Dr. V.Venkateshwar Reddy | Co-Opted Member-3 |  |

* VIRTUALLY ATTENDED