



## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Date: 22-07-2020

To The Member of BoS Sir,

Sub: 8th BoS Meeting Autonomous - Dept. of ECE -CBIT-Request-Reg.

#### GREETINGS FROM CBIT...

We wish to inform you that the Eight (8th) Board of Studies meeting is convened on 25-07-2020 at 10:00AM through online mode to discuss the following agenda:

- 1. To approve the minutes of 7th BoS meeting.
- To approve the Course Outcomes (COs) of courses in VII & VIII Semesters under R-16 regulation, III & IV semesters under R-18 regulation of BE (ECE) program, all four semesters of ME (CE) and ME (ES&VLSID) programs under R-19 Regulation.
- 3. To approve the syllabus modification in V to VIII semesters of B.E (ECE) under R-18 Regulation
- To concurrent Modifications in Open Electives of V to VIII semesters of UG under R-18 Regulation of AICTE model curriculum with effect from the academic years 2020-21 to 2021-22
- Approval for award of "BE(ECE) Degree with Honors" on earning twenty additional credits and award of "BE(ECE) Degree with minor engineering" on earning twenty additional credits
- To approve the Composition of Curriculum Components under R-20 Regulation with effect from AY 2020-21
- To discuss PSOs and PEOs of B.E (ECE) program under R-20 Regulation along with Vision & Mission statements of the Department
- 8. Any other item with the permission of chair.

Request you to kindly make it convenient to attend the meeting. Meeting link will be shared on morning 25.07.2020

Best Regards

Yours Sincerely,

Dr. D. Krishna Reddy Head and Chairman BoS Dept. of ECE

Mobile: 9866502428, 8466997205





#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### Minutes of Eighth BoS (ECE) Meeting held on 25/07/2020

04/08/2020

#### **Members present:**

S. No.	Name	Organization
1.	Prof Mohammed Zafar Ali Khan	Professor, IIT Hyderabad
2.	Dr. P. Chandra Sekhar	Professor, UCE, OU, Hyderabad
3.	Dr. Dheeraj Sunehra	Professor, JNTU, Jagityal Alumni
4.	Sri. M. Kannan	Scientist –G, RCI, Hyderabad Special Invitee
5.	Dr. Chandana Viswanadham	BEL, Hyderabad Special Invitee
6.	Dr. N. V. Koteswara Rao	Internal BoS Member
7.	Dr. P. Narahari Sastry	Internal BoS Member
8.	Dr. A D Sarma	Internal BoS Member
9.	Dr N Alivelu Manga	Internal BoS Member
10.	Sri M V Nagabhushanam	Internal BoS Member
11.	Smt K S R S Jyothsna	Internal BoS Member
12.	Faculty	ECE Dept. faculty
13.	Dr. D. Krishna Reddy	Chairman BoS

The meeting has commenced with welcoming the External BoS members including Special invitees by the Chairman, Board of Studies. He thanked the contributions made by members in the curriculum development so far. He requested the members to introduce themselves and they did so. He read out the agenda of the meeting and started the meeting.

### **Minutes:**

I	To approve the minutes of 7 <sup>th</sup> BoS meeting	
	The minutes of 7 <sup>th</sup> BoS meeting are approved.	
II	To approve the Course Outcomes (COs) of the Courses in VII &VIII Semesters of B.E.(ECE) under R-16 Regulation of CBCS curriculum modified according to AICTE Examination Reforms Policy	
	This is approved with the following recommendations:	
	It is suggested by Dr. Chandana Viswanadham to add some more books under "Suggested Readings"  A time of the latest and t	
	<b>Action Taken:</b> Added some more books under "Suggested Reading" for various courses.	
	2. It is advised to add the Course Objectives in the courses "Project Seminar (16EC C38)", "Seminar (16EC C39)" and "Project (16EC C40)".	
	<b>Action Taken:</b> Course objectives are added for the above courses as suggested	
III	To approve the Course Outcomes (COs) of the Courses in III & IV Semesters of B.E.(ECE) and Service Courses offered by ECE Department under R-18 Regulation of AICTE Model curriculum modified according to AICTE Examination Reforms Policy	
	Modified Course Outcomes (COs) are approved	
IV	To approve the modified syllabi of V to VIII semesters of B.E (ECE) under R-18 Regulation of AICTE model curriculum with effect from the academic years 2020-21 to 2021-22	
	This is approved with the following Recommendations:	
	1. It is suggested by Dr. Viswanadham that change the title and fine tune the content of the course titled "Applications of AI in ECE (18EC E07)". In this regard, he is ready to extend their help to fine tune the same.	
	Action Taken: i) With the help of Dr. Viswanadham, fine tuned the content of the course "AI and Applications (18EC E07)"	
	ii) Changed the title of the course "Applications of AI in ECE" as "Principles and Applications of AI(18EC E07)"	
	2. It is advised by Dr. Viswanadham to invite guest lecturers from IIT/NIT/IIIT for the newly introduced course of "Principles and Applications of AI(18EC E07)"	
	Action Taken: It is decided to invite guest lecturers from IIT/NIT/IIIT for the newly introduced course of "Principles and Applications of AI(18EC E07)"	
	3. It is suggested by Dr. Chandana Viswanadham to change the title of the course "Applications of IoT in ECE (18EC E25)"	

**Action Taken**: Changed the title of the course "Applications of IoT in ECE" to "IoT and its Applications (18EC E25)"

4. It is suggested by Dr. Viswanadham and Prof. P. Chandra Sekhar to modify the contents of syllabus change the title and omit the topics DFT and FFT in Unit IV of the course titled "Data Analytics in Signal Processing (18EC E12)".

**Action Taken:** i) Changed the title of the course "Data Analytics in Signal Processing (18EC E12)" to "Data Analytics for Signal Processing (18EC E12)" as it was Suggested.

- ii) Modified the content in Unit-III of the course "Data Analytics for Signal Processing (18EC C12)".
- iii) Omitted the topics DFT and FFT in Unit IV of the course "Data Analytics for Signal Processing" as suggested by Sri. M. Kannan.
- 5. It is suggested by Dr. Chandana Viswanadham to change the title of the course "Blockchain Technology (18EC E15)" as "Cryptography and Blockchain Technology (18EC E15)" or by an appropriate title.

**Action Taken:** Changed the title of the course "Blockchain Technology" to "Cryptography and Blockchain Technology (18EC E15)"

6. It is suggested by Sri. M. Kannan to include topics on IRNSS/NavIC in the course "Principles of GNSS (18EC E26)".

**Action Taken:** Included topics on IRNSS/NavIC in the IV Unit of the course "Principles of GNSS (18EC E26)"

7. It is advised to add the Course Objectives in the courses "Project: Part – 1 (18EC C31)", "Technical Seminar (18EC C32)" and "Project: Part- 2 (18EC C33)".

Action Taken: Course objectives are added for the above courses as suggested

8. Prof Mohammed Zafar Ali Khan advised as, Instead of having a full course on Spread Spectrum Communication (18EC E14), you should cover Multiple Access Technologies as Spread Spectrum has got limited application in the industry.

**Action Taken: Now,** Spread Spectrum is made limited to four Units only and one unit is exclusively covered with Multiple Access Technologies only as suggested.

9. Prof Mohammed Zafar Ali Khan and Prof. P. Chandra Sekhar recommended to upgrade the unit V in the course "Computer Architecture and Microprocessor (18EC C15)" since 8086 is rarely used

**Action Taken:** Unit V is upgraded by including topics on "Advanced Microprocessors (x86)" and also adding topic on evolution of Pentium Processors.

	10. It is advised by Prof Mohammed Zafar Ali Khan to include a Course on 5G Communications	
	<b>Action Taken:</b> Course entitled "5G Communications (18EC E24)" is added to the existing list of courses of Program Elective V.	
V	To approve the modified syllabi of Open Electives of V to VIII semesters offered to other departments by ECE department under R-18 Regulation of AICTE model curriculum with effect from the academic years 2020-21 to 2021-22	
	This is approved with the following suggestion:	
	1. It is suggested by Prof. Dr. Dheeraj Sunehra to change the course with title "Basics of DSP" and advised to rename it as "Fundamentals of Digital Signal Processing" (18EC 004)	
	Action Taken: The course with title "Basics of DSP" is renamed as "Fundamentals of Digital Signal Processing" (18EC 004)	
VI	i To approve the list of proposed courses for the award of "BE(ECE) Degree with Honours" on earning at least twenty additional credits through MOOCs/NPTEL/any other on-line courses or their equivalents	
	This is approved with the following advises:	
	1. It is advised by Sri. M. Kannan to include a course titled "Electronic Warfare" in the list of courses recommended for the Under Graduate Degree, BE (ECE) with Honours.	
	Action Taken: Included a course titled "Electronic Warfare" in the course list of BE (ECE) with Honours degree.	
	2. It is suggested by Prof Mohammed Zafar Ali Khan and Dr. Chandana Viswanadham to include courses on "5G Communications" and "Artificial Intelligence" in the list of courses of BE (ECE) with Honors degree.	
	Action Taken: Included.	
	3. List of Courses proposed under BE (ECE) with <b>Honours degree</b> are approved.	
	ii To approve the list of proposed courses (Under Additional Minor Engineering viz. Communications and Networking, Embedded Systems, Signal Processing and VLSI) for the award of "UG Degree with Additional Minor Engineering" on earning at least twenty additional credits through MOOCs/NPTEL/any other on-line courses or their equivalents	

This is approved with the following recommendations:

1. It is suggested to rename the title of the course "Optical Engineering" as "Optical Communications" offered under UG Program with Additional Minor Engineering "Communications and Networking"

Action Taken: Renamed as "Optical Communications"

- 2. It is advised by Sri. M. Kannan and Dr. Chandana Viswanadham to include the following three additional Courses in the list of courses under Additional Minor Engineering titled "Communications and Networking"
  - 1. 5G Communication
  - 2. Radar Engineering
  - 3. Artificial Intelligence

Action Taken: The above courses are included

3. Additional Minor Engineering titles "Communications and Networking", "Embedded Systems", "Signal Processing" and "VLSI" are approved along with their corresponding proposed lists of courses.

# VII To approve the COs of Courses in ME (CE) under R-19 Regulation of AICTE Model curriculum modified according to AICTE Examination reforms policy

This is approved with the following recommendation:

1. It is suggested by Sri. M. Kannan to include topics on IRNSS/NavIC in the course "Global Navigation Satellite Systems (19EC E103)"

**Action Taken:** Included topics on IRNSS/NavIC in the V Unit of the course "Global Navigation Satellite Systems (19EC E103)"

2. It is advised by BoS members to add the Course Objectives in the courses "Mini Project with Seminar (19EC C109)", "Dissertation/Phase-I (19EC C 110)" and "Dissertation/Phase-II (19EC C111)".

Action Taken: Course objectives are added for the above courses as suggested

3. BoS members are suggested to change the course code 19ME C103 for "Research Methodology and IPR" as 19ME M103 as it being a mandatory course

**Action Taken:** As this course is being offered by Department of Mechanical Engineering, the same has been intimated to Chairman, BoS of Department of Mechanical Engineering through email dated 04.08.2020 for the change of the code.

# VIII To approve the COs of Courses in ME(ES&VLSID) under R-19 Regulation of AICTE Model curriculum modified according to AICTE Examination reforms policy

This is approved with the following recommendations:

1. It is advised by BoS members to add the Course Objectives in the courses "Mini

	Project with Seminar (19EC C209)", "Dissertation/Phase-I (19EC C210)" and	
	"Dissertation /Phase-II (19EC C211)".	
	<b>Action Taken:</b> Course objectives are added for the above courses as suggested	
	2. The BoS members have appreciated the inclusion of the course in PG with title	
	"English for Research Paper Writing" as it is expected to improve the technical	
	writing skills required for any professional student in the present scenario.	
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IX	To approve the Composition of Curriculum Components under R-20 Regulation with	
	effect from AY 2020-21	
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	1. Composition of Curriculum Components under R-20 Regulation with effect from AY 2020-21 is approved as it is without any modifications.	
	A 1 2020-21 is approved as it is without any modifications.	
	2. Also, the members have appreciated the inclusion of the courses like "Community	
	Engagement", "Engineering Exploration", making the "Internships" compulsory	
	and giving enough focus on "Attitude" (Activity Points (e-portfolio):	
	Communication, Team works and Leadership Skills)	
	Communication, Team works and Leadership Skins)	
X	To discuss PSOs and PEOs under R-20 Regulation of BE (ECE) program along with	
71	Vision & Mission statements of the Department	
	Vision & Iviission statements of the Department	
	The proposed Vision, Mission, PEOs and PSOs of the department were appreciated by the	
	members.	
XI	Any other item with the permission of chair	
	i. The changes made such as adding topics on COMmunication INTelligent (COMINT)	
	Systems in the course "Signal Intelligence Systems (19EC E111)" of ME (CE) are	
	approved	
	ii. I would like to seek the approval from the members of BoS for any further minor	
	modifications in the curriculum through Email if required	

The members are requested to offer the comments, if any, within a week from the date of receipt of this communication. If no comments are received, the minutes will be taken as confirmed.

Prof D. Krishna Reddy Head and Chairman BoS

Dept. of ECE

### Copy to:

- 1. Members of BoS
- 2. Principal for information



