

R-20 Regulation V to VIII Sem Syllabus

SWARNANDHRA COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

BOARD OF STUDIES-MINUTES OF MEETING

Date:24.06.2022

The Board of Studies meeting of the ECE department held on 24th June 2022 at 10.00 AM through online mode for the approval of R20 V to VIII sem Syllabus as per the Revised Engineering Curriculum-2020 framed by the **Andhra Pradesh State Council of Higher Education(APSCH)**.

The following members were attended the BOS meeting

S.NO.	Name of BOS Member	Designation in BOS
1	Dr.B.Subrahmanyeswa Rao	Chairman
2	Dr.K.Chandra Bhushana Rao,JNTUK	University Nominee
3	Dr.Anil Kumar Vuppala,IIIT Hyderabad	Subject Expert Nominated by Institute
4	Dr.Kota Naga Srinivasarao Batta,NIT Warangal	Subject Expert Nominated by Institute
5	Mr.V.Govindha Rao,Microlink,Vijayawada	Industrial Expert
6	Mr.Dasari Jaswanthsai,SOPHOS Technologies,Bangalore	Alumni Member
7	Dr.B.Sada Siva Rao	Internal Member
8	Dr.K.Balamurugan	Internal Member
9	Mr.J.E.N. Abhilash	Internal Member
10	Mr. D. Sekhar	Internal Member
11	Mr.Srilali Siragam	Internal Member
12	Mrs.G.B.Christina	Internal Member
13	Mr.M Prem Chand	Internal Member
14	Mr.Ch.K.L.Rao	Internal Member
15	Mr.T.J.Alexander	Internal Member
16	Mrs.E.Suma	Internal Member
17	Mrs.M.Kanaka Durga	Internal Member

The BOS Chairman Dr.B.Subrahmanyeswara Rao welcomed all the Experts and Members. He presented the following,

1. The Revised Engineering Curriculum-2020 framed by APSCHE in detail for all the Semesters.
2. Proposed R20 Course Structure of the ECE Department according to Revised Engineering Curriculum-2020, APSCHE
3. Comparison of R19 & R 20 Course Structure with AICTE Curriculum.
4. R20 proposed Syllabus from Semester V to VIII sem courses.
5. Various degrees such as B.Tech-Regular, B.Tech Honor, and B.Tech Minor offered by APSCHE

After the presentation of the BOS Chairman, the room is given to the experts for discussion.

Dr.K.Chandra Bhushana Rao, Professor, ECE Dept., UCEV, JNTUK, Kakinada, University Nominee,

1. Suggested that the COs of each course should cover the entire syllabus.
2. Advised to remove the repeated topics in the proposed syllabus which are already available in the respective prerequisite courses.
3. Suggested to include design topics in antennas, which will be helpful for the student to gain more knowledge about antenna parameters.
4. Discussed about the text books and suggested to include the text books which will be easy for the students to study.
5. He added that prescribed text books should be available in the library.BOS chairman replied that most of the books are available in our library.New books will be purchased before the start of next academic year.
6. Suggested to include recently launched satellites and Indian developed GPS system in Radar and Satellite Communication systems and Global Positioning & Navigational Systems courses respectively.He suggested to look into the ISRO website for the recent and advanced satellites.
7. Suggested to midify the COs of the courses according to the quality of the students for achieving CO-PO mapping.

Dr.Kota Naga Srinivasarao Batta, Assistant. Prof., ECE Dept, NIT Warangal, Subject Expert

1. Advised to design CO for each unit of the syllabus.
2. Suggested to concentrate more on the interested topics such as patch antenna in the antenna wave propagation syllabus.
3. Asked about the simulation tools and advised to use the virtual lab offered by IIT Bombay.And also advised to encourage the students to do mini projects on micro procesors.
4. Advised to maintain atleast two text books and two reference books for each course.He added to use the latest edition text books.
5. Discussed about the title of the course Processors & Controller and advised to change the title as Microprocessors & Microcontroller.
6. Discussed about the Processors & Controller course and suggested that the syllabus should have equal weightage for both basic processors amd advanced processors.
7. He also suggested to rename the title of Radar and Satellite Systems course as Radar and Satellite Communication Systems.
8. Asked about the procedure of choosing the electives.BOS chairman answered that the students will choose the elective from the elective list by their own.
9. Suggested to include the recent topics such as LED,LCD in TV Engineering syllabus.
- 10.Suggested to include the advanced topics in sensor and instrumentation course.

BOS Chairman informed that no student is interested to choose the subject speech processing.The expert responded that he will provide the syllabus which creates interest for the student.

Dr.Anil Kumar Vuppala, Assoc. Prof., Speech Processing Lab, IIIT Hyderabad, Subject Expert,

1. He appreciated the proposed syllabus and the course structure.
2. Appreciated that Electives are well organized.
3. He suggested to include the real time topics in few courses and include the related E-sources.
4. He suggested to change the reference book in the 'Microwave and Optical Communications'course as text book..
5. He informed that only 1 book is included for optical communications. He advised to provide 2 books for Microwave and 2 books for Optical Communications.

Mr.V.Govinda Rao, Managing Director, Microlink peripherals &Controls, Vijayawada, Industrial Expert,

1. He satisfied about the syllabus framing and gave the suggestion to add topics related to advanced controllers as per market need.
2. He promised to provide the details of advanced controllers such a Texas Instruments etc.

Mr.Dasari Jaswanthsai, Network Security Engineer, SOPHOS Technologies, Bangalore, Alimni Member,

- 1.He appreciated the course structure and syllabus.
- 2.He added that the R20 syllabus contains more advanced courses and topics compared to R16 course structure.

General

1. BOS chairman informed the expert members about the equipment purchased for our laboratory last year worth 30 Lakhs.
2. Mr.JEN Abilash explained that the students are implementing the python programs in Arduino,Pynq board etc
3. Mr.D.Sekar enlightened the experts that he will include the topic "Patch Antenna" in the course Antenna and Wave Propagation.
4. Dr.K.Balamurugan enlightened the experts that recent topics in Satellite Communication System course will be added by referring the syllabus of Indian Institute of Space Science and Technology (IISST), Trivandrum.

The BOS Chairman concluded the session and informed that the corrected R20 course structure and syllabus will be mailed to the experts for approval. He requested the Experts to approve the corrected R20 course structure and syllabus.

The meeting ended with vote of thanks.



10:20

Close Participants (17)

Search

- GC GB CHRISTINA (me)
- DP Dr.K. Balamurugan,.... (Host)
- DS Dr.B S Rao,HOD,ECE
- D Dr.B.K.N.Srinivas
- Govinda Rao (MICROLINK,VI...
- SS Sada Siva Rao Bathula
- SD Sekhar Didde
- AJ Abhilash JULURU
- AV Anil Vuppala
- CK Challa Kanakalingeswararao

REC

SWARNANDHRA COLLEGE OF ENGINEERING & TECHNOLOGY (AUTONOMOUS)

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

R20 Revised Engineering Curriculum Semester- V

S. No.	Category	Code	Course Title	Hours	L	T	P	Credits
1	Professional Core Courses			1	0	0	0	1
2	Professional Core Courses			1	0	0	0	1
3	Professional Core Courses			1	0	0	0	1
4	Open Elective Course: Job oriented elective			1	0	0	0	1
5	Professional Elective Courses			6	0	0	0	6
6	Professional Core Courses: Lab			0	0	0	1	1
7	Professional Core Courses: Lab			0	0	0	1	1
8	Skill advanced course: soft skill course*			0	0	0	1	1
9	Mandatory course (AICTE stipulated)			0	0	0	1	1
Semester Interimship 2 months (Candidates after second year can be evaluated during 5 semesters)								
Home/Minor courses (The home's distribution can be 3-0-3 or 3-1-0 also)								
								21.4
								4
Credits								
Professional core Courses								3
Professional Elective courses								6
Open Elective Course: Job oriented elective								1
Skill advanced course: soft skill course*								1
Semester Interimship								1
TOTAL CREDITS								21.5

10/12/20

Dr.B.S.Rao
22/6/22

Dr.B.S.Rao
Chairman BOS
Department of ECE

CHAIRMAN
BOARD OF STUDIES
Department of ECE
Swarnandhra College of Engineering & Technology

