DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Stake holder involvement in Curriculum Development

R-22 Regulation

Suggestions Received From Stake Holders

B.E (ECE) AY - 2022-23

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1. Students

S.no.	Name of the Student	Register Number	Mobile No Mail ID	Suggestions/Feedback
1	G Charith Reddy	160118735028	9666451427 charith8reddy@gmail.com	1. As there are so many subjects in IV semester, it's better if we keep 1 non-credit course instead of two in this semester. 2. Number of subjects in VII semester could be reduced as during this semester students would be attending placements and internships. 3. Open Elective python programming which is there in VII semester can be introduced in early semesters only as there will be a better chance for ECE students to crack placements. 4. Technical seminars in VIII semester can

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				be pushed to V or VI semester, as students will be knowing about documentation, which will help them in the final year during projects.
2	Sharath Chandra Viswanadh.	160118735044	9346072889 Chandrasarath727@gmail.com	The Only change I think which is needed would be that Basics of Data Structures should be taught in Java, because a lot of industries require Java instead of C/C++, anyway C will be taught in PPS in the 1st year. That is the only alteration I think which is required else everything seems to be a lot better from the previous curriculum.
3	Vyshnavi	160118735084	9676933850 vyshnaviankam@gmail.com	• It would be beneficial to include Java language as well as scripting languages like Javascript, which are necessary for mobile apps and web development. • Blockchain technology is covered in very little detail in PE-III: Cryptography (20EC E18), despite the fact that it has enormous potential in a variety of industries, including the financial industry, IoT, AI, and ML, among others. The syllabus might be expanded to include further blockchain applications in the area of ECE.
4	ESHA	160119735004	9959658342 ugs19004_ece.esha@cbit.ac.in	Communication related topics to be increased, VLSI lab must be before 7th sem.
5	Pratham M	160119735004	7730875727 ugs19035_ece.pratham@cbit.ac.in	Application oriented topics in applied maths, DSP subject UNIT 1 must be shortened.

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6	Chandnani Gulshan	160119735088	7842255256 ugs19088_ece.chandnani@cbit.ac.in	Minor projects in every semester to improve resume for placement, OOPS using JAVA nd DBMS must be in different elective groups- useful for placements.

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2. Faculty

S.no	Name of the Faculty	Company & Designation	Mobile No Mail ID	Suggestions & Opinion
1	Dr.A.Vani	Associate Professor, ECE,CBIT	9440079310 avani_ece@cbit.ac.in	1. Students have to learn the basic coding Languages through the MOOCs before the completion of the IV semester. 2. Make a Mobile Cellular communication as a core course with inclusion of 5G Communication. 3. Choice will be given to the students to earn credits through Project Part-2 by doing Industry based core Projects / Real Time Projects / to make Product.
2	Dr.A.supraja Reddy	Associate Professor, ECE,CBIT	9866064120 suprajareddy_ece@cbit.ac.in	1. Internship-I may be removed as it is too early for the students to carry out an internship/MOOCS at III Sem level. 2. Weightage for Course on UHV may be reduced to 2 or 1 Credit. 3. Possibility of making Professional Elective courses such as "IoT and its Applications", "Satellite Communications" "Mobile Communications" as Core courses should be explored. 4. IV Sem has two Non-Credit courses. On emay be shifted to other semesters to lessen the burden.
3	Dr. M. Bhanuchandra	Assistant Professor, ECE, CBIT	7675824181 bhanuchandram_ece@cbit.ac.in	1. Unit-5 may be dedicated/updated with applications, recent developments, and current Progresses in the specific core

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				domain. Such that students of the current era may consider the Subjects relevant in today's standards and market readiness. 2. EMTL – Units 4 & 5 may be compacted and clubbed as Unit 4. 3. Unit-5 may be re-formulated with new age applications, recent progresses and future prospects, dimensionality & directions.
4	Ghata Chauhan	Assistant Professor, ECE, CBIT	9755949360 ghatachauhan_ece@cbit.ac.in	1. Contents of Cryptography and blockchain technology can be updated 2. Python language is now included in R22 curriculum in 1 st year itself. So, it can be removed from IoT syllabus and more advance topics related to Industrial IoT can be added. 3. In Unit IV only one Case Study on IoT System for Weather Monitoring is there. Include more case studies.
5	Dr. K. Sudershan Reddy	Assistant Professor, ECE, CBIT	9291522525 sudarshanreddy_ece@cbit.ac.in	1. Contents of Signals and Systems can be updated

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3. Employers

S.no	Name of the Industry expert	Company & Designation	Mobile No Mail ID	Suggestions & Opinion
1	Mr. Chandra Kiran K	Hyundai Mobis (HOD)	9886416040 & Chandrakiran.kasula@gmail.com	In My understanding, the syllabus for this course is well designed to the needs of current trends in private and public sectors. (Targeting trends in IOT, SMART Automation, Automotive, Consumer appliances, ISRO, BHEL, DRDO…) However following are few improvements in aligning to private sector industries Additional topics like ADC, Timer, DMA, CAN, MOST, SPI, I2C, UART, USART, RS485, RS232… to be added. Short range wireless protocols like Bluetooth & Zigbee can be introduced. More application oriented labs to be defined (Ex: IOT application lab, Data/Network security algorithms lab….) Make more industry relevant (where the opportunities are more) and more application oriented instead of theory.
2	N.Varalakshmi	DRDL/ DRDO Scientist 'F'	9490956652 & varakutti@gmail.com	I have gone through the course structure and syllabus The following are my suggestions. 1)In the first year B.Tech course only Robotics and drones lab is included without any theory course. Theory part may also be included. 2) In Data structures course syllabus ' Merge sort ' Topic may be included and Referral text book name may be added " Introduction to algorithms by Thomas H cornen . 3) Laboratory experiments using simulation software is also

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				accepted as per course curriculum.But to have practical experience ,at least 50% experiments may be done with real components to motivate people to work in hardware field. All others seems to be good.
3	Mr. S. Pardha Saradhi	BlueYonder(Panasonic group) & Senior Software Engineer	pardhasaradhi.survi@gmail.com & 8977299875	All the course structure looks good. It is better if we can add Python language to all the course curriculums so that it shall be used for any AI/ML such as Object /Face Recognition module and also for Software development.

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4. Alumni

S.no	Name of the Industry expert	Company & Designation	Mobile No Mail ID	Suggestions & Opinion
1.	Mohammed Firasat Hussain	Oracle-Associate Application Developer 2021-22 Passed out	9676896446 firasat1053@gmail.com	I have a suggestion regarding BE R20 syllabus. Project based approach towards the core subjects will be helpful to cultivate an interest in students and also helps to bring an industry standard process to a known subject or topic. For Example the subject of Computer Architecture and Microprocessors can be taught in a way where students first learn how to use a basic Microprocessor such as an Arduino or a Raspberry Pi. Learning about the pin architecture won't take the student far when the real world flow of these computers is not understood and experimented without any prior theory initiation. The incentive to build a project at the end of the coursework can be a part of the curriculum.
2.	Dr. Sriram Sandhya Rani	Professor, Department	9849829390 dr.sandhyarani@ji	In III -semester -Electronic Devices course - Diode equivalent models and

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		of ECE, Jayamukhi Institute of Technological Sciences. Narsampet, Warangal, Telangana state, 2002-03 Passed out	ts.in	switching characteristics of diode are missing. In Signals & Systems Course- suggesting to add the topics- Operations on signals and Sampling theorem. In IV semester - Analog Circuits Course- suggesting to introduce Tuned Amplifiers as they are important in receivers (at least minimum idea about tuned amplifier). DSD Lab course- whatever the digital circuits are simulated, if they could be able to do in hardware lab it will be useful for the students.
3.	Deepak Raya	PMRF research scholar & PhD student, Center for Neuroscience, Indian Institute of	9177382659 deepakvr@iisc.ac.in	Happy to see basic electronics course in first semester and digital fabrication lab in 2nd semester, which will be more relevant and helpful compared to previous years curriculum. The updated syllabus covers in depth basics and at the same time introduces to modern aspects & technologies. All the elective courses are in line with modern technologies.

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		Science, Bangalore. 2018-19 Passed out		In digital signal processing course, I think it's better to include some basic statistical signal processing, covering topics such as maximum likelihood estimation, maximum a posterior estimation, and introduction to Kalman filtering etc. Apart from that the basics are covered extensively. Overall, the syllabus is up to date with modern technologies and covering the fundamentals fully. Lab activities are covering most of the practical aspects of the course. In my opinion, for core ECE courses, I feel having lab in the next semester for respective course would be more helpful. It would help the students to revise the course and keep it a fresh (spaced repetition enhances learning and retention of concepts)
4.	Joseph Murray	Preparing for UPSC 2020-21 Passed out	9492922808 mikejoe14918@gmail.com	To incorporate lab course related to Machine learning using python also. If possible, please include signal processing using embedded C language also which is very much required in current hardware related industries.

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5.	Ashwitha Pasham	Synopsys ASIC Physical Design Engineer II 2021-22 Passed out	9550393707 Ashwithareddy.15@gmail.com	I have a suggestion regarding BE R20 syllabus. All subject's Syllabus are good and meets the Standards. We can also introduce scripting languages like PERL and TCL . We can also start Labs for industry tools such as synopsys tools like ICC2 or cadence tools like Innovus. This would be helpful for those who are interested to join in VLSI Industry

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