



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC & NBA (CSE, IT, ECE, EEE & ME)

Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

Department of Electronics and Communication Engineering

Date: 04-10-2023

Consolidated feedback on “Curriculum Development” collected from Stakeholders during the Academic Year: 2022-23

Industry:

Academic Year	Feedback from Industry	Action Taken
2022-23	Courses like: Advance 3G, 4G, 5G Wireless Communications, Wireless Sensor Networks, Nano Technology related, AI related courses are to be included.	Wireless Sensor Networks subject is already included in R20 curriculum; others are suggested for next revision.
	Include case study based units for core subjects.	Suggested for next curriculum revision.
	Embedded Operating Systems like Linux subject may be included.	Considered and suggested for next curriculum revision.
	May include the courses like: Foundations of Data Science, Basics of Sensors and Wearable Technology, Data Acquisition Techniques, Embedded C, Industrial Product Design.	Introduction to Data Science is already included under R20-Minor programme, remaining courses may be considered in next curriculum revision.
	Add System Programming with Data Structures, Cloud based backend design.	Considered and suggested for next curriculum revision.
	Include tools like Latex for documentation purpose.	Latex is being used by students for documentation and paper publications purpose.
	Introduction to Reliability Engineering (Hardware and Software) course can be included.	Considered and suggested for next curriculum revision.
	Antennas & Wave Propagation and Microwave Engineering courses can be combined together.	Suggested for next curriculum revision.
	Programming with C and Data Structures can be combined as a single course.	Considered and suggested for next curriculum revision.
	Analog Communication and Digital Communication can be combined.	Considered and suggested for next curriculum revision.
	Data Communications subject is to be focused more on Protocols and Standards.	Suggested for next curriculum revision.
	IOT and Computer Architecture and Organization are to be introduced as core courses.	Suggested for next curriculum revision.

Alumni:

Academic Year	Feedback from Alumni	Action Taken
2022-23	Following courses may be included in the syllabus: Embedded C/C++ Programming, RTOS, Embedded System Design with ARM, Embedded Machine Learning, Security on Embedded Devices etc.	RTOS subject is already included in R20 curriculum; others are suggested for next revision.
	Sensors and Sensing Systems to be included.	Considered and suggested for next curriculum revision.
	GATE oriented syllabus should be framed.	Syllabus of all the core courses is in line with the requirements of GATE and other competitive examinations.
	5G communications subject may be included.	Topics on 5G are included in Advanced Communications subject.
	Include Wireless Sensor Networks subject.	This subject is already included in R20 curriculum.

Parents:

Academic Year	Feedback from Parents	Action Taken
2022-23	Industrial visits may be made mandatory.	Students are visiting the Industry every year.
	Exposure to various ideation fests and startups.	Incubation centre is conducting Ideation fests at regular intervals.
	Certification courses are to be included.	Every semester Department is conducting various certification courses.
	Workshops to be conducted.	Workshops are conducted in every semester.

Faculty:


Academic Year	Feedback from Faculty	Action Taken
2022-23	Include the courses related to: 5G Devices and Signal Processing, Medical Assistive Technologies.	Suggested for next curriculum revision.
	Open Electives must be placed in MOOCs category through NPTEL.	Already in effect.
	If possible include the courses like: Lean Start-up Management, IOT Edge Nodes, Mobile App Development for IOT, IOT in Automotive Systems and Industrial Systems, Smart IOT Applications, Technical Answers for Real World Problems.	Considered and suggested for next curriculum revision.
	Introduce Real Time Embedded Systems course.	Suggested for next curriculum revision.
	Add latest Microcontrollers in the course.	ARM controllers are included in R20-Microprocessors and Microcontrollers subject.
	Include System on chip concepts in VLSI course.	Suggested for next curriculum revision.
	Add optimization techniques in Computer Architecture course.	Considered and suggested for next curriculum revision.
	5G Communications, Smart Antennas, Optimization Techniques are to be included.	Suggested for next curriculum revision.
	Add IOT related subjects, Industrial Automation Concepts.	Suggested for next curriculum revision.
	Data pre-processing and visualization using python course may be added.	Considered and suggested for next curriculum revision.
	Advanced Signal Processing Lab may be introduced.	Considered and suggested for next curriculum revision.
	Include FPGA and ASIC concepts in VLSI Design course.	Suggested for next curriculum revision.
	New courses like Big data, AI and ML are to be included.	Considered and suggested for next curriculum revision.
	Invite Alumni students working in MNC's to share their work experience.	It is already in effect.
	Wireless Sensor Networks Lab / Network Simulator Lab / IOT Lab to be included.	IOT Lab is included in R20 curriculum.
Suggested to include STM32 Controller in syllabus.	Suggested for next curriculum revision.	

Students:

Academic Year	Feedback from Students	Action Taken
2022-23	Image Processing Lab/Java Lab to be included.	Suggested for next curriculum revision.
	Computer Organization, ARM Processors, Linux and Embedded System Design to be included.	ARM controllers are included in R20-Microprocessors and Microcontrollers subject, others are suggested for next curriculum revision.
	Separate Transmission lines from EMTL and make it as a separate subject.	Considered and suggested for next curriculum revision.
	Industrial visits for students.	Students are visiting the Industry every year.
	VLSI Lab should be completely based on Cadence/Mentor Graphics and experiments related to implementations on boards should be done in DSD Lab.	Already implementing in R20 curriculum.



Coordinator



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