CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A), HYDERABAD

Departmental Committees - Constitution and Responsibilities
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
COURSE EXPERT GROUP (CEG)
BE (ECE) R-22

Objective:

To contribute to the effective implementation of pedagogical approaches and assessment tools identified by PAQIC, DAB and other regulatory bodies.

Composition:

Course experts from the specified set of courses chaired by senior faculty among them.

Meeting Frequency: Min. 3 times in a semester.

Beginning of the semester, after the first Class Test, after external examinations results are published (for results analysis, computation of CO attainment) and also whenever required.

Tenure: Three years

Quorum: 60%

Roles and Responsibilities:

1. Defining, Reviewing and Reframing the Course Outcomes based on Blooms Taxonomy for all the specified Courses.
2. Framing of Course Articulation matrix (CO-PO mapping)
3. Computation of CO attainments
4. Design of assessment tools suitable for the specified courses, Results analysis and preparing the action plan for improvement of Results
5. Conducting Course End Survey, analysis and identify actions to be taken for improving pedagogical approaches.
6. Identifying Curriculum gaps by observing CO-PO attainment levels of previous batches
7. Question paper validation to ensure the desired standard from outcome attainment perspective as well as learning levels perspective.
8. Setting course wise CO attainment targets before the beginning of the semester
9. Maintenance of Course Files
10. Preparing Action plans for improvement and corrective measures
11. Prepare and submit periodic reports (Before the commencement and at the end of each semester) to the Program Assessment Quality Improvement Committee (PAQIC) about the activities carried out.

Deliverables:

Submit Reports to PAQIC on Effectiveness of TLP in terms of:

1. Revision of Course Outcomes
2. Course Outcome attainment
3. Gaps identified, actions taken and their effectiveness
4. Setting course wise CO attainment targets
5. Suggestions for subsequent Curriculum Revision

I.   CEG- 1 (Electronics):

S.no	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1.	III	22EC C01	Electronic Devices	**Dr. ASR (Chairman)** Dr. PNS, Sri. NJMR, Dr. TAB, Smt. BN, Sri TS, Sri. PCS, Sri ECS, Dr. DND, Smt. GC and Dr. MVS
2.	III	22EC C05	Electronic Devices Lab	
3.	IV	22EC C07	Analog Circuits	
4.	IV	22EC C12	Analog Circuits Lab	
5.	V	22EC C18	Linear and Digital Integrated Circuits	
6.	V	22EC C21	Linear and Digital Integrated Circuits Lab	

II.   CEG – 2 (RF& Microwaves):

S.no	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1.	III	22EC C02	EM waves and Transmission Lines	**Dr.NVKR (Chairman)** Dr ADS, Dr.PNS, Dr ASR, Dr VKM, Dr. MLNC, Smt. KSRSJ, Dr. KS, Sri TS, and Dr DSR
2.	IV	22EC C08	Antennas and Wave Propagation	
3.	V	22EC E05	Software Defined Radio	
4.	VII	22EC E35	RF and Millimetre Wave Circuit Design	
5.	VI	22EC E23	Green Communication	
6.	VI	22EC E17	Microwave Engineering	
7.	VI	22EC C26	Mobile Communication and MW Engineering Lab	
8.	VII	22EC E29	Global Navigation Satellite Systems	

III.   CEG -3 (NW, Instrumentation and Controls):

S.no	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1.	III	22EC C03	Network Analysis and Synthesis	**Dr KSR (Chairman)** Dr VKM, Sri MVNB, Dr MRR, Sri TS, Sri MZJ, Dr KSK, and Smt. JM
2.	III	22EC C06	Network Analysis and Synthesis Lab	
3.	IV	22EC C09	Control Systems	
4.	V	22EC E10	Sensing techniques and Sensor systems	

IV. CEG -4 (Signal Processing):

S.no	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1.	III	22EC C04	Signals and Systems	Dr DKR (Chairman), Dr CVN, Dr PNS, Dr KSN (Adj. Prof), Dr KV, Dr KSR, Sri MVNB, Smt. AS, Dr. TAB, Sri PCS, Dr. GVPK, Smt NDL, Dr. DND, Smt JM, Sri PR, Dr CHNV, Dr SSP, Dr. MVS and Dr MRKN
2.	IV	22EC C14	Modelling and Simulation Lab	
3.	V	22EC C17	Digital Signal Processing	
4.	V	22EC C20	Digital Signal Processing Lab	
5.	V	22EC E03	Signal Detection Techniques	
6.	V	22EC E09	Biomedical Instrumentation and Signal processing	
7.	VI	22EC E15	Adaptive signal processing	
8.	VI	22EC E21	Image and Video Processing	
9.	VII	22EC E27	DSP Processors and Architectures	
10.	VII	22EC E33	Speech and Audio Processing	

V. CEG – 5 (Communications):

S.no	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1.	IV	22EC C11	Probability Theory and Stochastic Process	Dr VKM (Chairman), Dr DKR, Dr ADS, Dr ASR, Dr SR, Dr AV, Sri MVNB, Smt. KSRSJ, Dr KS, Smt. BN, and Dr CHNV
2.	V	22EC C15	Analog and Digital Communication	
3.	V	22EC C19	Analog and Digital Communication Lab	
4.	V	22EC E02	Fibre Optic Communication	
5.	V	22EC E08	Mathematical modelling of communication systems	
6.	VI	22EC E14	Coding Theory and Techniques	
7.	VI	22EC E20	Radar and Satellite Communication	
8.	VI	22EC C23	Mobile Communication and Networks	
9.	VII	22EC E26	5G Communications	

VI. CEG – 6 (VLSI):

S.no	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1.	IV	22EC C10	Digital System Design	Dr BKR (Chairman), Dr SR, Dr MLNC, Dr KSR, Dr MRR, Sri AKK, Sri NJMR, Sri. PCS, Sri MZJ, Sri. ECS, Dr PAK and Smt. GC
2.	IV	22EC C13	Digital System Design Lab	
3.	V	22EC E01	VLSI Technology	
4.	V	22EC E07	CMOS Analog and Digital IC Design	
5.	VI	22EC C24	VLSI Design	
6.	VI	22EC C27	VLSI Design Lab	
7.	VI	22EC E13	CMOS Data Converters	
8.	V	22EC E11	Introduction to MEMS	
9.	VI	22EC E19	CPLD and FPGA Architectures	

10.	VII	22EC E25	CAD for VLSI Verification	
11.	VII	22EC E28	Fundamentals of SoC Design	
12.	VII	22EC E31	Design for Testability	

VII. CEG – 7 (Embedded Systems):

S.no	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1.	V	22EC C16	Computer Architecture and Microprocessors	**Dr. PS (Chairman),** Dr KSN (Adj. Prof), Dr PA Dr KSR, Sri NJMR, Smt. NDL, Dr. GMR, Sri MZJ, Smt. JM, Dr SSP, Smt. DS, and Smt. GC
2.	V	22EC E04	Embedded C Programming	
3.	VI	22EC C22	Microcontrollers	
4.	VII	22EC C30	IoT and Applications	
5.	VI	22EC C25	Microcontrollers Lab	
6.	VII	22EC C32	IoT Lab	
7.	VI	22EC E16	Real Time Operating Systems	
8.	VI	22EC E22	Embedded Systems	

VIII. CEG – 8 (Computer Networks):

S.no	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1.	VII	22EC C29	Computer Networks	**Dr AV (Chairman),** Dr. GVPK, Dr KSK, Dr MRKN, Dr DSR and Dr DBR
2.	VII	22EC C31	Computer Networks Lab	
3.	VII	22EC E32	Wireless Sensor Networks	
4.	VII	22EC E36	Network Security	

IX. CEG – 9 (Seminars, Project and Internships):

S.no	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1.	III	22EC I01	MOOCs/Training/Internship	**Dr PNS (Chairman),** Dr NVKR, Dr ADS, Dr CVN, Dr KV, Dr KSN (Adj. Prof), Dr. BKR, Dr AV, Dr VKM, Dr MLNC, Dr KSR, Smt. AS, Dr. PS, Dr. GMR, Dr. KS, Sri ECS, Dr KSK, Dr SSP and Dr DSR.
2.	V	22EC I02	Industrial/Rural Internship/ Mini project	
3.	VI	22ECIC1/22EC C28	Industry oriented open course / Theme based project	
4.	VII	22EC C33	Project: Part-1	
5.	VII	22EC I03	Industrial Internship	
6.	VIII	22EC C34	Technical Seminar	
7.	VIII	22EC C35	Project Part-2	

X   CEG – 10 (Software Related Courses):

S.no	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1.	V	22EC E06	Artificial Intelligence and Machine learning	**Dr KS (Chairman),** Dr PNS, Dr. GVPK, Sri PR, Dr MBC, Dr SSP, Dr DSR, Smt. AS, Dr. GMR and Smt. GC
2.	V	22EC E12	Fundamentals of Cloud Computing	
3.	VI	22EC E18	Cryptography and Blockchain Technology	
4.	VI	22EC E24	Data Analytics for Signal Processing	
5.	VII	22EC E30	Pattern Recognition using Machine Learning	
6.	VII	22EC E34	Linux and Scripting Languages	

Overall Coordinators of CEG groups: Sri. M.V. Nagabhushanam and Smt. K.S.R.S. Jyothsna