Departmental Committees - Constitution and Responsibilities

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
REVISED COURSE EXPERT GROUP (CEG) – B.E. (CSE)-R22A

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: Minimum one time in a semester. Beginning of the semester, after the first Class Test, after external examinations results are published (for resultsanalysis, 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 thespecified 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 actionplan for improvement of Results
5. Conducting Course End Survey, analysis and identify actions to be taken for improving pedagogicalapproaches
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 aslearning 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 theProgram 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

S.No.	Course Specialization	Course	Name	Designation
1	Recent Technologies & Security	• Computer Graphics and Multimedia • Artificial Intelligence and Machine Learning **(T&L)** • Optimization Techniques • Algorithmic Game Theory • Nature Inspired Algorithms • Extended Reality • Deep Learning for Vision **(T&L)** • Applied Natural Language Processing **(T&L)** • Internet of Things**(T&L)** • Mobile Application Development **(T&L)** • Network Security **(T&L)** • Robotic Process Automation **(T&L)**	Dr. T. Sridevi	**Chairperson**
			Prof. Raman Dugyala	Member
			Dr. Ravi Uyyala	Member
			Dr. Uma Maheswari V	Member
			Smt. I Srujana	Member
			Sri B. Ramadasu	Member
			Dr. K. Spandana	Member
			Dr. Kolla Morarjee	**Convener**
2	Core & Programming Languages	• Computer Organization and Architecture • Theory of Computation • Operating Systems **(T&L)** • Compiler Design **(T&L)** • Problem Solving and Programming using C **(T&L)** • Design and Analysis of Algorithms **(T&L)** • Python Programming Workshop • Latex Workshop • Fundamentals of Java Programming **(Open Elective)**	Dr. G Vanitha	**Chairperson**
			Prof. R. Ravinder Reddy	Member
			Smt. A Sangeetha	Member
			Smt. K.Kiran Prakash	Member
			Smt. S. Durga Devi	Member
			Dr. M Venkata Krishna Reddy	Member
			Dr. M. Anila	Member
			Smt. Isha Padhy	**Convener**
3	Computing Technologies	• Discrete Structures • Digital Logic Design • Web Programming **(T&L)** • Concurrent Programming • High Performance Computing • Cloud Computing Essentials • Full Stack Development **(T&L)** • Introduction to Web Technologies **(Open Elective)** • Web Programming With JavaScript **(Open Elective)**	Dr. V. Padmavathi	**Chairperson**
			Smt. E Kalpana	Member
			Smt. Ch. Madhavi Sudha	Member
			Smt. E. Swathi	Member
			Sri. J.Shiva Sai	Member
			Dr. B Ramana Reddy	**Convener**
4	Project Development	• Software Engineering **(T&L)** • Software Project Management • User Interface and User Experience Design • Software Testing **(T&L)** • Introduction to Software Engineering **(Open Elective)**	Dr. T Suvarna Kumari	**Chairperson**
			Prof. S. China Ramu	Member
			Smt. B. Deepthi	Member
			Smt. G. Shanmukhi Rama	**Convener**

S.No.	Course Specialization	Course	Name	Designation
5	Data Science	• Database Management Systems **(T&L)** • Big Data Analytics **(T&L)** • Data Analysis and Visualization **(T&L)** • Advanced Database Systems • Business Analytics • Introduction to Database Management Systems **(Open Elective)**	Dr. E. Padma Latha	**Chairperson**
			Smt. Ch Vijaya Lakshmi	Member
			Sri. Venkata Siva Rao. Alapati	Member
			Sri. K Kishore Kumar	Member
			Dr. G Kiran Kumar	**Convener**
6	Internship /Seminars / Projects	• Moocs / Training / Internship • AICTE Internship • MOOCs / NPTEL • Mini Project • Technical Seminar • Project Part-I • Project Part-II	Prof. R. Ravinder Reddy	**Chairperson**
			Prof. M.Swamy Das	Member
			Prof. S.China Ramu	Member
			Prof. Raman Dugyala	Member
			Dr.T.Sridevi	Member
			Sri. A Mohan	**Convener**

Over all Coordinator of CEG groups: Dr. M. Venkata Krishna Reddy

Date: 04.04.2025

Chairperson,

BOS (CSE Dept.)

Professor and Head Depart
Department of Computer Science & Engine
Chaitanya Bharathi Institute of Technology
Gandipet, Hyderabad-500 075.(T.S.)

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A), HYDERABAD

Departmental Committees - Constitution and Responsibilities

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

REVISED COURSE EXPERT GROUP (CEG) – R22

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: Minimum one time 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 thespecified 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 actionplan for improvement of Results
5. Conducting Course End Survey, analysis and identify actions to be taken for improving pedagogicalapproaches
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 aslearning 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 theProgram 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

S.No.	Course Specialization	Course	Name	Designation
			Continuation Sheet	
1	Recent Technologies	Nature Inspired Algorithms Game Theory Computer Graphics and Multimedia	Dr.Sangeeta Gupta	Chair Person
			Dr. T.Sridevi	Member
			Dr. Kolla Morarjee	Member
			Dr. Uma Maheswari V	Member
			Smt. I Srujana	Member
			Sri B. Ramadasu	Member
			Dr. K. Spandana	**Convener**
2	Cyber Security	Computer Networks (Theory and Lab)	Dr. Raman Dugyala	Chair Person
			Dr. V. Padmavathi	Member
			Dr. Ravi Uyyala	**Convener**
			Sri. K Karthik	Member
3	Core Competency	Compiler Design (Theory and Lab) Operating Systems (Theory and Lab) Microprocessors and Microcontrollers	Dr. G Vanitha	Chair Person
			Smt. Isha Padhy	**Convener**
			Smt. K.Kiran Prakash	Member
			Sri. M Venkata Krishna Reddy	Member
4	Computing Technologies	High Performance Computing Concurrent Programming React JS Introduction to Web Technologies (Open Elective) Introduction to Angular JS Framework (Open Elective)	Prof. M.Swamy Das	Chair Person
			Smt. E Kalpana	Member
			Smt. Ch. Madhavi Sudha	**Convener**
			Dr. B Ramana Reddy	Member
			Smt. E. Swathi	Member
			Sri. J.Shiva Sai	Member

5	Project Development	Software Engineering Case Tools Lab User Interface & Design Robotic Process Automation (Open Elective) Software Testing Methodology (Open Elective)	Dr. S. China Ramu Smt. T Suvarna Kumari **Smt. G.Shanmukhi Rama** Smt. B.Deepthi	Member Chair Person **Convener** Member
6	Programming Languages	Design and Analysis of Algorithms(Theory and Lab) Java Programming (Open Elective)	Dr. R. Ravinder Reddy Smt. A Sangeetha Smt. S.Durga Devi **Dr. M. Anila**	Chair Person Member Member **Convener**
7	Data Science	Graph Databases Optimization Techniques Introduction to Database Management Systems (Open Elective)	Dr. G Kiran Kumar **Dr. E. Padma Latha** Smt. Ch Vijaya Lakshmi Sri. Venkata Siva Rao. Alapati	Chair Person **Convener** Member Member
8	Essentials	Internship – II (Industrial/Rural Internship) Product Management Essentials (MOOCS) Mini Project Project Part – I Project Part - II Technical Seminar	Dr. M.Swamy Das **Sri. A Mohan** Smt. Sahithi Chennamadhavuni	Chair Person Convener & Member

Over all Coordinator of CEG groups:

1. Sri. M. Venkata Krishna Reddy

Date: 01.04.2024

Head & BOS (CSE Dept.)

Professor and Head Department
Department of Computer Science & Engineering
Chaitanya Bharathi Institute of Technology
Gandipet, Hyderabad-500 075.(T.S.)

CHAITANYA BHARATHI
INSTITUTE OF TECHNOLOGY (A)

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A), HYDERABAD

Departmental Committees - Constitution and Responsibilities

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE EXPERT GROUP (CEG) – R22

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: Minimum one time 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 thespecified 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 actionplan for improvement of Results
5. Conducting Course End Survey, analysis and identify actions to be taken for improving pedagogicalapproaches
6. Identifying Curriculum gaps by observing CO-PO attainment levels of previous batches
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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
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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

S.No.	Course Specialization	Course	Name	Designation
1	Recent Technologies	Machine Learning Image Processing Internet of Things Parallel Programming Using CUDA Multi-core Architectures Pattern Recognition Soft Computing Neural Networks and Deep Learning Natural Language Processing Augmented Reality and Virtual Reality Fundamentals of Block Chain Technology Artificial Intelligence Principles of AI and ML Deep Learning Speech Recognition Quantum Computing	Dr. T.Sridevi	Chair Person
			Dr.Sangeeta Gupta	Member
			Dr. Kolla Morarjee	Member
			Dr. Premkumar Chithaluru	**Convener**
			Dr. Uma Maheswari V	Member
			Smt. I Srujana	Member
			Smt. K. Spandana	Member
2	Cyber Security	Computer Networks Information Security Database Security Cyber Security Network Programming and Management Software Defined Networks High Speed Networks Basics of Information Security Network Security and Cryptography Mobile Computing Mobile Application Development Cyber Law and Ethics Embedded Systems Social Networks	Dr. Raman Dugyala	Chair Person
			Dr. V. Padmavathi	Member
			Dr. Ravi Uyyala	**Convener**
			Sri. B Ramadasu	Member
			Sri. A Mohan	Member
			Sri. K Karthik	Member
3	Core Competency	Compiler Design Computer Organization & Architecture Operating Systems Advanced Computer Architecture Advanced Operating System Principles of Operating System Information Theory Formal Languages and Automata Theory	Dr. G Vanitha	Chair Person
			Smt. Isha Padhy	**Convener**
			Smt. K.Kiran Prakash	Member
			Sri. M Venkata Krishna Reddy	Member
4	Computing Technologies	Internet and Web Technologies Linux Programming Cloud Application Development Object Oriented Analysis and Design Cloud Infrastructure and services Wireless and Mobile Computing High Performance Computing Cloud Computing	Prof. M.Swamy Das	Chair Person
			Smt. E Kalpana	Member
			Smt. Ch. Madhavi Sudha	**Convener**

		Green Computing Web services Discrete Structures	Sri. B Ramana Reddy	Member
		Digital Logic Design Multimedia Applications	Smt. E. Swathi	Member
		Full Stack Development Concurrent Programming	Sri. J.Shiva Sai	Member
5	Project Development	E-Commerce Software Engineering Software Testing Methodologies	Dr. S. China Ramu	Member
		User Interface Design Software Development Methodology Software Quality Management	Smt. T Suvarna Kumari	Chair Person
		Software Architecture and Design Patterns Software Engineering And Estimation Software Process and Project Management	**Smt. G.Shanmukhi Rama**	**Convener**
		Component Based Software Engineering Design Patterns Human Computer Interaction	Smt. B.Deepthi	Member
6	Programming Languages	Python Programming Programming for Problem Solving C Data Structures	Dr. R. Ravinder Reddy	Chair Person
		Design and Analysis of Algorithms Advanced Algorithms Bio Informatics Algorithms	Smt. A Sangeetha	Member
		Advanced Data Structures Programming with Objects	**Smt. S.Durga Devi**	**Convener**
		C# & .NET framework Advanced Java Programming JAVA Programming	Smt. M. Anila	Member
		Object Oriented Programming through Python C++ Standard Library	Smt. M. Madhu Latha	Member
7	Data Science	Data Base Management Systems Data Warehousing and Mining Big Data Analytics	Dr. G Kiran Kumar	Chair Person
		Advance Data Bases Fundamentals of Database Management Systems	**Dr. E. Padma Latha**	**Convener**
		Data Analysis and Interpretation Graph Databases	Smt. Ch Vijaya Lakshmi	Member
		Information Retrieval System Fundamentals of Optimization Techniques	Smt. T.Susmitha	Member
			Sri. Venkata Siva Rao. Alapati	Member

Over all Coordinator of CEG groups:

1. Sri. M. Venkata Krishna Reddy

Date: 19.04.2023

4/15/2023

Head & BoS (CSE Dept)

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A), HYDERABAD

Departmental Committees - Constitution and Responsibilities

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE EXPERT GROUP (CEG) – R20

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
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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
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10. Preparing Action plans for improvement and corrective measures
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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 (Software and Application Development):

S.No	Name of the Course	Course Expert Group Chairman and members
1	Mobile Applications Development	E.Kalpana **B. Sateesh – Convener** A Mohan S Durga Devi G Shanmukhi Rama Dr.M.Subramanyam
2	Software Quality Test	
3	Full Stack Development	
4	Free and Open Source Software	
5	Web technologies	
6	Human Computer Interaction	
7	Linux kernel internals and Programming	
8	Devops	

II. CEG – 2 (Computing):

S.No	Name of the Course	Course Expert Group Chairman and members
1	Formal Languageand Automata Theory	**Dr. G. Vanitha - Convener** Ch. MadhaviSudha B. Ramana Reddy M. Venkata Krishna Reddy B Deepthi
2	CompilerDesign	
3	Theory of Computation & Compilers	

III. CEG – 3 (Image Processing):

S.No	Name of the Course	Course Expert Group Chairman and members
1	Image Processing	Dr. M Swamydas **Dr. T. Sridevi– Convener** Mr. J. Shiva Sai
2	Digital Image Processing	
3	Computer Vision	
4	Image Processing and Computer Vision	
5	Augmented Reality and Virtual Reality	

IV. CEG – 4 (Emerging Technologies):

S.No	Name of the Course	Course Expert Group Chairman and members
1	Artificial Intelligent and Machine Learning	**Smt I. Srujana - Convener** Dr. G. Vanitha Dr. S. China Ramu Smt.E.Swathi Smt. B.Deepthi -
2	Artificial Intelligence	
3	Machine learning	
4	Algorithmic Game Theory	

5	Reinforcement Learning	Dr. Rupesh Mishra A.Sangeetha
6	Planning and Estimation of Autonomous Systems	
7	Optimization Techniques	
8	Natural Language Processing	
9	High Performance Computing	
10	Data Streaming Algorithms	
11	Design and Analysis of Algorithm	
12	Data and Visual Analytics in AI	
13	Multi Agent Intelligent Systems	

V. CEG – 5 (System and Network):

S.No	Name of the Course	Course Expert Group Chairman and members
1	Data Communication and Computer Networks	Dr. M. Swamy Das Dr.Bruhadeshwar Bezawada Dr. R. Ravinder Reddy B.Ramadasu P.V.M.Ruth **B.Ramana Reddy - Convener** D.Nagajyothi A.Mohan Kavita Agarwal Venkata Krishna Reddy Dr.Sangeetha Gupta
2	Computer Networks	
3	Network and System Administration	
4	Data and system Administration	
5	Parallel computing	
6	Cloud computing	
7	Cloud Technologies	
8	Cryptography & network Security	
9	Network Security	
10	Cyber Security	
11	Web Application and Security	
12	Vulnerability Analysis and PenetrationTesting	
13	Malware Analysis	
14	Advanced Network Security	
15	Block chain security and Privacy	
16	Biometric Security	
17	Block Chain Policy:Legal,Economic and Social Impact	
18	Block Chain platform and applications	
19	Block Chain Technology	

VI. CEG – 7 (Data and User Interface):

S.No	Name of the Course	Course Expert Group Chairman and members
1	Data and Visual Analytics in AI	Dr. S. China Ramu(Advisor)

2	Database Management Systems	Dr. R Ravinder Reddy Dr. Sangeeta Gupta **Dr. E. Padmalatha - Convener** Ch. Vijaya Lakshmi D. Naga Jyothi
3	Advance Data Bases	
4	Data Analytics	
5	Data Mining	
6	Social Computing	
7	Big Data Analytics	
8	Big Data Framework	

VII. CEG – 8 ( ):

S.No	Name of the Course	Course Expert Group Chairman and members
1	Embedded Systems	Dr. K Sagar K Spandana **G Kavita- Convener** G Mamatha B Ramana reddy G Shanmukhi Rama
2	Internet of things	
3	Computer Architecture and Micro Processor	
4	Digital Logic Design	
5	Sensor and Sensing technology	
6	IoT Automation & security	
7	IoT Development,Applications and Practice	
8	Cognitive IoT	
9	Robotic Process Automation	
10	Adhoc Sensor networks	
11	System Modelling and Simulation	

VIII. CEG – 9 :

S.No	Name of the Course	Course Expert Group Chairman and members
1	Soft Computing	Dr. K Sagar **Dr. K Morarjee - Convener** G Kiran Kumar
2	Deep Learning	
3	Augmented Reality and Virtual Reality	
4	Computational Neuro Science	
5	Deep Learning for Computer Vision	

IX. CEG – 10 :

S.No	Name of the Course	Course Expert Group Chairman and members
1	Distributed Systems	N Rama Devi Dr. Sangeeta Gupta **Dr. Bhargavi- Convener** Dr. Ravi Uyyala
2	Distributed Algorithms and Protocols	
3	Block Chain Technologies	
4	Crypto Currency	

X. CEG -11

S.No	Name of the Course	Course Expert Group Chairman and members
1	Operating systems	Dr.M.SwamyDas Dr.T.Sridevi Dr.E.Padmalatha **Kavita Agarwal-Convener**

XI. CEG-`12

S.No	Name of the Course	Course Expert Group Chairman and members
1	Case Study lab using UML	Dr.S.China Ramu Dr.Ravinder Reddy K. Mary Sudha Rani-**convener** T.Suvarna kumari
2	Software Engineering	
3	Software Project Management	
4	Design Patterns	
5	Software Engineering (Case Study lab using UML)	

Over all Coordinators of CEG groups:

1. **Smt. Ch. Madhavi Sudha**
2. **Mr. M Venkata Krishna Reddy**

Date: 06.06.2022

Professor and Head Department
Department of Computer Science & Engineering
Chaitanya Bharathi Institute of Technology (A)
Gandipet, Hyderabad-500 075.(T.S.)

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A), HYDERABAD

Departmental Committees - Constitution and Responsibilities

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE EXPERT GROUP (CEG) – R20

Objective:

To contribute to the effective implementation of pedagogical approaches and assessment tools identified byPAQIC, 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 resultsanalysis, computation of CO attainment) and also whenever required.

Tenure: Three years

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Roles and Responsibilities:

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I. CEG - 1 (Programming and Technology):

S.No	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1	I	20CS C01	Programming for Problem Solving	Dr. Y. Rama Devi **Smt. A. Sangeetha - Convener** Smt E. Kalpana Smt.S. Durga Devi Sri. R. Srikanth
2	III	20CSC08	Data Structures	
3	II	20CS C03	Object-Oriented Programming	
4	IV	20CSC15	Internet & Web Technologies	
5		20CSEXX	GUI Programming	
6		20CSEXX	Mobile Application Development	

II. CEG – 2 (Hardware):

S.No	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1	III	20CSC10	Digital Logic Design	Dr. K. Sagar **Mr. B. Sateesh - Convener** Smt. K. Spandana Smt. G. Mamatha
2	IV	20CSC13	Computer Architecture and Micro Processor	

III. CEG – 3 (Computing):

S.No	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1	III	20CSC09	Discrete Mathematics	Smt. N. Rama Devi **Smt. G. Vanitha - Convener** Smt. Ch. MadhaviSudha Smt. IshaPadhy Sri. M. Venkata Krishna Reddy
2	IV	20CSC16	Formal Language and Automata Theory	

CEG – 4 (Image Processing):

S.No	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1		20CSEXX	Image Processing	Dr. T. Sridevi **Mr. J. Shiva Sai - Convener**

V. CEG – 5 (Emerging Technologies):

S.No	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1	III	20CIC01	Fundamentals of Cyber Security and Tools	Dr. K. Sagar Dr. T. Sridevi **Smt I. Srujana - Convener** Smt. G. Vanitha Dr. Sangeeta Gupta
2	IV	20CAC03	Artificial Intelligence	

VI. CEG – 6 (System and Network):

S.No	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1		20CSCXX	Data Communication and Computer Networks	Dr. M. Swamy Das Dr. R. Ravinder Reddy **Mr. B. Ramana Reddy - Convener** Smt. T. SuvarnaKumari Sri B. Ramadasu
2				
3				
4				
5				
6				

VII. CEG – 7 (Data and User Interface):

S.No	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1	III	20CAC01	Fundamentals of Data Science	Dr. S. China Ramu **Dr. E. Padmalatha - Convener** Smt. Ch. Vijaya Lakshmi Smt. K. Mary Sudha Rani Smt.D. Naga Jyothi
2	IV	20CSC14	Data Base Management Systems	

Over all Coordinators of CEG groups:

1. **Mr. B. Sateesh**
2. **Mr. M Venkata Krishna Reddy**

Date: 06.04.2021

Head & BoS (CSE Dept)

CHAITANYA BHARATHI
INSTITUTE OF TECHNOLOGY (A)

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A), HYDERABAD

Departmental Committees - Constitution and Responsibilities

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE EXPERT GROUP (CEG) – R18

Objective:

To contribute to the effective implementation of pedagogical approaches and assessment tools identified by PAC 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 Committee (PAC) 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

R18

I. CEG - 1 (Programming and Technology):

S.No	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1	I	18CS C01	Programming for Problem Solving	Dr. Y. Rama Devi Mr. G. Vivek **Smt. A. Sangeetha - Convener** Smt E. Kalpana Smt.S. Durga Devi Sri. R. Srikanth
2	III	18CSC07	Data Structures	
3	II	18CS C03	Object-Oriented Programming	
4	V	18CSE01	Web and Internet Technologies	
5	V	18CSE02	GUI Programming	
6	V	18CSE04	Mobile Application Development	
7	VI	18CSE16	Free and Open-Source Software	
8	VIII	18CSE32	Social Networking and its Impact	
Open Elective For Other Programme				
9	VIII	18CSO 01	Python for Bioinformatics	
10	VIII	18CSO 02	JAVA Programming and Bio-Java	
11	VIII	18CSO 08	Open Source Technologies	

II. CEG – 2 (Hardware):

S.No	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1	III	18CSC09	Digital Electronics and Logic Design	Dr. K. Sagar **Mr. B. Sateesh - Convener**
2	IV	18CSC12	Computer Architecture	

3	VI	18CSE09	Internet of Things	Smt. G. Mamatha
Open Elective For Other Programme				
4	VIII	18CSO 03	IOT and Applications	

III. CEG – 3 (Computing):

S.No	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1	III	18CSC08	Discrete Mathematics	Smt. N. Rama Devi **Smt. G. Vanitha - Convener** Smt. Ch. MadhaviSudha Smt. IshaPadhy Sri. M. Venkata Krishna Reddy
2	V	18CSC19	Design and Analysis of Algorithms	
3	V	18CSC17	Formal Language and Automata Theory	
4	VI	18CSE11	Cloud Computing	
5	VII	18CSC28	Compiler Design	
6	VIII	18CSE31	Speech and Natural Language Processing	

IV. CEG – 4 (Image Processing):

S.No	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1	V	18CSE03	Image Processing	Dr. T. Sridevi **Mr. J. Shiva Sai - Convener**
2	VI	18CSE12	Computer Vision	
3	VII	18CSE19	Virtual Reality	
Open Elective For Other Programme				
4	V	18CSO 05	Fundamentals of Virtual Reality	
5	VII	18CSO 11	Computer Graphics and Its Applications	

V. CEG – 5 (Emerging Technologies):

S.No	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1	VI	18CSC25	Artificial Intelligence	Dr. K. Sagar Dr. T. Sridevi **Smt I. Srujana - Convener** Smt. G. Vanitha
2	VI	18CSE13	Soft Computing	
3	VII	18CSE18	Machine Learning	
4	VII	18CSE23	Neural Networks and Deep Learning	
5	VII	18CSE25	Nature Inspired Algorithms	
6	VII	18CSE24	Optimization	

			Techniques	Dr. Sangeeta Gupta
7	VIII	18CSE33	Blockchain Technology	
8	VIII	18CSE30	Bioinformatics	
9	VII	18CSE20	Cyber Security	
Open Elective For Other Programme				
10	VII	18CSO 09	Basics of Artificial Intelligence	
11	VIII	18CSO 10	Machine Learning Using Python	
12	VIII	18CSO 07	Basics of Cyber Security	

VI. CEG – 6 (System and Network):

S.No	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1	V	18CSC18	Operating System	Dr. M. Swamy Das Dr. R. Ravinder Reddy **Mr. B. Ramana Reddy- Convener** Smt. T. SuvarnaKumari Sri B. Ramadasu
2	VI	18CSE10	Parallel and Distributed Algorithms	
3	VI	18CSC23	Data Communication and Computer Networks	
4	VI	18CSE14	Network and System Administration	
5	VI	18CSE15	Mobile Computing	
6	VII	18CSE21	Software defined Networks	

VII. CEG – 7 (Data and User Interface):

S.No	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1	IV	18CSC13	Data Base Management Systems	Dr. S. China Ramu **Dr. E. Padmalatha - Convener** Smt. Ch. Vijaya Lakshmi Smt. K. Mary Sudha Rani Smt.D. Naga Jyothi
2	VI	18CSC24	Software Engineering	
3	VII	18CSE17	Data Science and Big Data Analytics	
4	VII	18CSE22	Human Computer Interaction	
Open Elective For Other Programme				
5	VII	18CSO 06	Fundamentals of DBMS	
6	VIII	18CSO 04	Basics of Data Science using R	

7	VIII	18CSO 12	Fundamentals of Software Engineering	

VIII. CEG – 8 (NON - CSE):

S.No	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1	I	18MT C01	Mathematics -I	Smt.P. V M Ruth(Sciences) **Smt.G. Kavitha (other Engineering Dept) - Convener** Smt. Kavita Agarwal(SMS)
2		18CY C01	Chemistry	
3		18CE C01N*	Engineering Mechanics	
4	II	18MT C03	Mathematics -II	
5		18PY C01	Optics and Semiconductor Physics	
6		18EG C01	English	
7	III	18EEC01	Basic Electrical Engineering	
8		18MEC09	Principles of Management	
9		18CEM01	Environmental Science	
10	IV	18ECC34	Basic Electronics	
11		18EGM01	Indian Constitution and Fundamental Principles	
12	V	18MTO 01	Applied Operations Research	
13		18MTO 02	Graph Theory	
14		18MTO 03	Number Theory and Cryptography	
15		18MTO 04	Quantum Computing	
16	VI	18MBC 01	Engineering Economics and Accountancy	
17		18EEM 01	Indian Traditional Knowledge	
18	VII	18BTO01	Basics of Biology	
19		18ECO 01	Remote Sensing and GIS	
20		18ECO 03	Design of Fault Tolerant Systems	
21		18ECO 04	Basics of DSP	

22		18CEO 02	Disaster Mitigation and Management	
23		18EGO 01	Technical Writing Skills	
24	VIII	18PYO01	History of Science and Technology	
25		18MEO01	Robotics	
26		18MEO03	Research Methodologies	
27		18MEO04	Entrepreneurship	
28		18MEO12	3D Printing	

Over all Coordinators of CEG groups:

1. Ms. CH. Madhavi Sudha
2. Ms. D. Nagajyothi

10/7/19

Date : 10.07.2019

Head & BoS (CSE Dept)

CHAITANYA BHARATHI
INSTITUTE OF TECHNOLOGY (A)

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A), HYDERABAD

Departmental Committees - Constitution and Responsibilities

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE EXPERT GROUP (CEG) – R16

Objective:

To contribute to the effective implementation of pedagogical approaches and assessment tools identified by PAC 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 Committee (PAC) 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

R16

I. CEG - 1 (Programming and Technology):

S.No	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1	II	16CS C01	Programming and Problem Solving	Dr. Y. Rama Devi Mr. G. Vivek **Smt. A. Sangeetha - Convener** Smt E. Kalpana Smt.S. Durga Devi Sri. R. Srikanth
2	III	16CS C03	Data Structures	
3	III	16CS C04	Object Oriented Programming using Java	
4	IV	16CS C11	Web Technologies	
5	IV	16CS E01	Linux Programming and Scripting Languages	
6	IV	16CS E02	Principle of Programming Languages	
7	IV	16CS E03	Shell Scripting	
8	V	16CSE 04	Mobile Application Development	
9	VII	16CSC 34	Free and Open Source Software	
10	VIII	16CSE 20	Social Networking and its Impact	
Open Elective For Other Programme				
11	VIII	16CSO 01	Python for Bioinformatics	
12	VIII	16CSO 02	JAVA Programming and Bio-Java	
13	VIII	16CSO 04	Basics of Data Science using R	
14	VIII	16CSO 08	Open Source Technologies	

II. CEG – 2 (Hardware):

S.No	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members

1	III	16CS C05	Logic and Switching Theory	Dr. K. Sagar **Mr. B. Sateesh - Convener** Smt. K. Spandana Smt. G. Mamatha
2	IV	16CS C12	Computer Architecture and Micro Processors	
3	V	16CSE 06	Advanced Computer Architecture	
4	VI	16CSC29	Internet of Things	
Open Elective For Other Programme				
5	VIII	16CSO 03	IOT and Applications	

III. CEG – 3 (Computing):

S.No	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1	III	16CS C06	Discrete Structures	Smt. N. Rama Devi **Smt. G. Vanitha - Convener** Smt. Ch. MadhaviSudha Smt. IshaPadhy
2	III	16CS C13	Probability and Statistics Using R	
3	V	16CSC17	Design and Analysis of Algorithms	
4	V	16CSC18	Automata Languages and Computation	
5	VI	16CSC25	Compiler Construction	
6	VII	16CSE 16	Natural Language Processing	

IV. CEG – 4 (Image Processing):

S.No	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1	V	16CSE 05	Computer Graphics	Dr. T. Sridevi **Mr. J. Shiva Sai - Convener**
2	VI	16CSE07	Computer Vision	
3	VIII	16CSE 17	Virtual Reality	
Open Elective For Other Programme				
4	V	16CSO 05	Fundamentals of Virtual Reality	
5				

V. CEG – 5 (Emerging Technologies):

S.No	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1	VI	16CSC26	Artificial Intelligence	Dr. K. Sagar Dr. T. Sridevi **Smt I. Srujana - Convener** Smt. G. Vanitha Dr. Sangeeta Gupta
2	VI	16CSE08	Soft Computing	
3	VII	16CSC 36	Machine Learning	
4	VII	16CSE 10	Deep Learning	
5	VII	16CSE 12	Nature Inspired Algorithm	
6	VIII	16CSE 15	Optimization Techniques	
7	VIII	16CSE 21	Blockchain Technology	
8	VIII	16CSE 18	Bioinformatics	
9	VIII	16CSE 14	Cyber Security	
Open Elective For Other Programme				
10	VIII	16CSO 09	Basics of Artificial Intelligence	
11	VIII	16CSO 10	Machine Learning Using Python	
12	VIII	16CSO 07	Basics of Cyber Security	

VI. CEG – 6 (System and Network):

S.No	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1	V	16CSC19	Operating Systems	Dr. M. Swamy Das Dr. R. Ravinder Reddy **Mr. B. Ramana Reddy - Convener** Smt. T. SuvarnaKumari Sri B. Ramadasu
2	VII	16CSC 35	Distributed and Cloud Computing	
3	V	16CSC20	Data Communication and Computer Networks	
4	VII	16CSE 13	System and Network Administration	
5	VI	16CSC27	Mobile Computing	
6	VI	16CSC28	Information and Network Security	

VII. CEG – 7 (Data and User Interface):

S.No	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1	IV	16CS C10	Data Base Management Systems	Dr. S. China Ramu
2	V	16CSC21	Software Engineering	
3	VI	16CSE09	Data Mining	
4	VII	16CSC 33	Data Science and Big Data	

			Analytics	**Dr. E. Padmalatha - Convener** Smt. Ch. Vijaya Lakshmi Smt. K. Mary Sudha Rani Smt.D. Naga Jyothi
5	VIII	16CSE 19	Human Computer Interaction	
6	VII	16CSE 11	Design Patterns	
Open Elective For Other Programme				
7	VIII	16CSO 06	Fundamentals of DBMS	

VIII. CEG – 8 (NON - CSE):

S.No	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1	I	16MT C01	Engineering Mathematics - I	Smt.P. V M Ruth(Sciences) **Smt.G. Kavitha (other Engineering Dept) - Convener** Smt. Kavita Agarwal(SMS)
2		16PY C01	Engineering Physics	
3		16CY C02	Applied Chemistry	
4		16EE C01	Elements of Electrical Engineering	
5		16CE C01	Engineering Mechanics	
6		16EG C01	Professional Communication in English	
7		16CE C02	Environmental Studies	
8		16ME C02	Engineering Graphics	
9	II	16MT C02	Engineering Mathematics - II	
10		16CY C01	Engineering Chemistry	
11		16PY C02	Applied Physics	
12		16ME C01	Elements of Mechanical Engineering	
13		16EC C01	Elements of Electronics and Communication Engineering	
14		16CE C03	Professional Ethics and Human Values	
15	III	16MT C05	Engineering Mathematics – III	
16	IV	16MB C01	Engineering Economics and Accountancy	
17	VII	16CEO 02	Disaster Mitigation and Management	
18		16MEO 01	Entrepreneurship	
19		16MEO 06	Research Methodologies	
20		16EGO 02	Gender Sensitization	
21	VIII	16MEO 02	Robotics	

22		16MTO 04	Quantum Computing	
23		16MEO 04	Intellectual Property Rights	
24		16PYO 01	History of Science and Technology	

Over all Coordinators of CEG groups:

1. Ms. CH. Madhavi Sudha
2. Ms. D. Nagajyothi

Date : 20.11.2016

Head & BoS (CSE Dept)