



# CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

Autonomous Institute | Affiliated to Osmania University

## 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 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

#### Chaitanya Bharathi Institute of Technology

📍 Chaitanya Bharathi (PO), Kokapet (V), Gandipet (M),  
Ranga Reddy District, Hyderabad - 500 075, Telangana, India

☎ 84669 97201

✉ principal@cbit.ac.in 🌐 www.cbit.ac.in



S.No.	Course Specialization	Course	Name	Designation
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
			<b>Dr. K. Spandana</b>	<b>Convener</b>
2	Cyber Security	Computer Networks (Theory and Lab)	Dr. Raman Dugyala	Chair Person
			Dr. V. Padmavathi	Member
			<b>Dr. Ravi Uyyala</b>	<b>Convener</b>
			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
			<b>Smt. Isha Padhy</b>	<b>Convener</b>
			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
			<b>Smt. Ch. Madhavi Sudha</b>	<b>Convener</b>
			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. Chingaramu	Member
			Smt. T Suvarna Kumari	Chair Person
			<b>Smt. G. Shanmukhi Rama</b>	<b>Convener</b>
			Smt. B. Deepthi	Member
6	Programming Languages	Design and Analysis of Algorithms (Theory and Lab) Java Programming (Open Elective)	Dr. R. Ravinder Reddy	Chair Person
			Smt. A Sangeetha	Member
			Smt. S. Durga Devi	Member
			<b>Dr. M. Anila</b>	<b>Convener</b>
7	Data Science	Graph Databases Optimization Techniques Introduction to Database Management Systems (Open Elective)	Dr. G Kiran Kumar	Chair Person
			<b>Dr. E. Padma Latha</b>	<b>Convener</b>
			Smt. Ch Vijaya Lakshmi	Member
			Sri. Venkata Siva Rao. Alapati	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 <b>Sri. A Mohan</b> 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

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principal@cbit.ac.in www.cbit.ac.in





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

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

**Over all Coordinator of CEG groups:**

1. Sri. M. Venkata Krishna Reddy

Date: 19.04.2023

*(Handwritten Signature)*

Head & BoS (CSE Dept)





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Departmental Committees - Constitution and Responsibilities

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING COURSE EXPERT GROUP (CEG) – R20

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**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>B. Sateesh – Convener</b> 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 Language and Automata Theory	<b>Dr. G. Vanitha - Convener</b> Ch. MadhaviSudha B. Ramana Reddy M. Venkata Krishna Reddy B Deepthi
2	Compiler Design	
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 <b>Dr. T. Sridevi– Convener</b> 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	<b>Smt I. Srujana - Convener</b> 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>B.Ramana Reddy - Convener</b> 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 Penetration Testing	
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
3	Advance Data Bases	Dr. Sangeeta Gupta
4	Data Analytics	<b>Dr. E. Padmalatha - Convener</b>
5	Data Mining	Ch. Vijaya Lakshmi
6	Social Computing	D. Naga Jyothi
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
2	Internet of things	K Spandana
3	Computer Architecture and Micro Processor	<b>G Kavita- Convener</b>
4	Digital Logic Design	G Mamatha
5	Sensor and Sensing technology	B Ramana reddy
6	IoT Automation & security	G Shanmukhi Rama
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
2	Deep Learning	<b>Dr. K Morarjee - Convener</b>
3	Augmented Reality and Virtual Reality	G Kiran Kumar
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
2	Distributed Algorithms and Protocols	Dr. Sangeeta Gupta
3	Block Chain Technologies	<b>Dr. Bhargavi- Convener</b>
4	Crypto Currency	Dr. Ravi Uyyala



**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

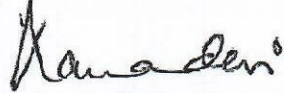
**XI. CEG -12**

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)  
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DEPARTMENT OF COMPUTER SCIENCE AND  
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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 <b>Smt. A. Sangeetha - Convener</b> 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 <b>Mr. B. Sateesh - Convener</b> 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 <b>Smt. G. Vanitha - Convener</b> 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		20CSEX	Image Processing	Dr. T. Sridevi <b>Mr. J. Shiva Sai - Convener</b>

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 <b>Smt I. Srujana - Convener</b>
2	IV	20CAC03	Artificial Intelligence	Smt. G. Vanitha Dr. Sangeeta Gupta

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 <b>Mr. B. Ramana Reddy - Convener</b> 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 <b>Dr. E. Padmalatha - Convener</b>
2	IV	20CSC14	Data Base Management Systems	Smt. Ch. Vijaya Lakshmi Smt. K. Mary Sudha Rani Smt.D. Naga Jyothi

Over all Coordinators of CEG groups:

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

Date: 06.04.2021

  
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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 <b>Smt. A. Sangeetha - Convener</b> 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		
<b>Open Elective For Other Programme</b>					
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 <b>Mr. B. Sateesh - Convener</b>
2	IV	18CSC12	Computer Architecture	



3	VI	18CSE09	Internet of Things	Smt. G. Mamatha
<b>Open Elective For Other Programme</b>				
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 <b>Smt. G. Vanitha - Convener</b> 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 <b>Mr. J. Shiva Sai - Convener</b>
2	VI	18CSE12	Computer Vision	
3	VII	18CSE19	Virtual Reality	
<b>Open Elective For Other Programme</b>				
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 <b>Smt I. Srujana - Convener</b> 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	
<b>Open Elective For Other Programme</b>				
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 <b>Mr. B. Ramana Reddy- Convener</b> 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 <b>Dr. E. Padmalatha - Convener</b> 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	
<b>Open Elective For Other Programme</b>				
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	
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**VIII. CEG - 8 (NON - CSE):**

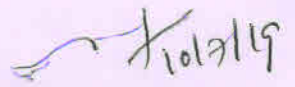
S.No	Semester	Course Code	Name of the Course	Course Expert Group Chairman and members
1	I	18MT C01	Mathematics -I	Smt.P. V M Ruth(Sciences)  Smt.G. Kavitha ( other Engineering Dept) - Convener  Smt. Kavita Agarwal(SMS)
2		18CY C01	Chemistry	
3		18CE C01N*	Engineering Mechanics	
4	II	18MT C03	Mathematics -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

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:**

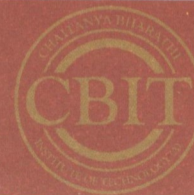
1. Defining, Reviewing and Reframing the Course Outcomes based on Blooms Taxonomy for all the specified Courses
2. Framing of Course Articulation matrix (CO-PO mapping)
3. Computation of CO attainments
4. Design of assessment tools suitable for the specified courses, Results analysis and preparing the 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

**Chaitanya Bharathi Institute of Technology (A)**

Chaitanya Bharathi (PO), Kokapet (V), Gandipet (M),  
Ranga Reddy District, Hyderabad - 500 075, Telangana, India

040-24193276, 79, 80

principal@cbit.ac.in www.cbit.ac.in



**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 <b>Smt. A. Sangeetha - Convener</b> 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	
<b>Open Elective For Other Programme</b>				
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
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1	III	16CS C05	Logic and Switching Theory	Dr. K. Sagar <b>Mr. B. Sateesh - Convener</b> 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	
<b>Open Elective For Other Programme</b>				
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 <b>Smt. G. Vanitha - Convener</b> 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 <b>Mr. J. Shiva Sai - Convener</b>
2	VI	16CSE07	Computer Vision	
3	VIII	16CSE 17	Virtual Reality	
<b>Open Elective For Other Programme</b>				
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 <b>Smt I. Srujana - Convener</b> 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	
<b>Open Elective For Other Programme</b>				
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 <b>Mr. B. Ramana Reddy - Convener</b> 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	



5	VIII	16CSE 19	Analytics Human Computer Interaction	Dr. E. Padmalatha - Convener Smt. Ch. Vijaya Lakshmi Smt. K. Mary Sudha Rani Smt.D. Naga Jyothi
6	VII	16CSE 11	Design Patterns	
<b>Open Elective For Other Programme</b>				
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)