



# CITY ENGINEERING COLLEGE

Approved by AICTE New Delhi & Affiliated by VTU, Belagavi  
Doddakallasandra, Off Kanakapura Main Road,  
Next to Gokulam Apartment, Bangalore - 560 062.



## CRITERION 1 – CURRICULAR ASPECTS

**KEY INDICATOR:** 1.2 Academic Flexibility.

**Metric Number:** 1.2.1 Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. Where the students of the institution have enrolled and successfully completed during the year 2020-21

**Institutional programme brochure/notice for Certificate/Value added programs with course modules and outcomes**

Sl. No.	Name of VAC/Certificate Course, MOOCs, SWAYAM, NPTEL
1.	Quantitative Mastery for Engineers
2	Business Writing Skills
3	Leadership Skills
4	Software Testing with Selenium
5	Communication Proficiency
6	Pollution control & Environmental Laws in India
7	Energy and Environment

# CHIEF PATRON

Dr. K R Paramahamsa,  
Chairman,  
AMC-City - Brooklyn Group of  
institution

# PATRONS

Dr. V S Ramamurthy, Principal,CEC  
Dr. Jyothi P,Vice Principal,CEC

# CONVENOR

Mr. Vivekavardhana Reddy, HOD,  
CSE

# COORDINATORS

Prof. Girisha G A, Asst.Prof, CSE  
Prof. Ambika P R, Asst. Prof, CSE

## About College

City Engineering College, Bangalore affiliated to Visvesvaraya Technological University (VTU) is centrally located in Bangalore. The College has expanded over the last 20 years with sophisticated infrastructure as a part of the Institution's commitment to provide higher quality education in the area of Engineering. The highly facilitated landmark building - provides a perfect ambience for creativity and learning. City Engineering College is known for its academic excellence, friendly welcoming atmosphere and community spirit. Over large number of full time students study here in a wide range of programs. It is a centre of talented, experienced teachers who inspire and energize the students to achieve the best.

**Resource Person**  
**Ms. K Krishna Bai**  
Freelance trainer in  
Quantitative aptitude and  
logical reasoning

## About The Course

Empower engineering students with essential quantitative skills through a comprehensive 5-day course. From foundational concepts to advanced problem-solving, gain the expertise needed for academic success and real-world engineering challenges.

## About The Department

The Department of Computer Science & Engineering was started in the year 2001 is known for imparting Quality education and carrying out cutting edge research. In addition to the UG program, PG CSE program and Research facilities for Ph.D. The department offers undergraduate program and has a comprehensive curriculum on topics related to software and hardware with an emphasis on theoretical and practical learning. It has well equipped, state of the art laboratories supported by highspeed Internet and wireless networks.

### CONTACT DETAILS

Prof. Ambika P R, Asst.Prof, CSE  
PH: 9945133228



# CITY ENGINEERING COLLEGE

DEPARTMENT OF COMPUTER SCIENCE  
AND ENGINEERING



Value Added Course  
On

**QUANTITATIVE MASTERY FOR  
ENGINEERS**

24th to 28th May 2021

**Elevate your mathematical  
prowess, excel in exams, and  
conquer real-world  
engineering challenges with  
precision and confidence**



---

## Department of Computer Science and Engineering

### Value Added Course on Quantitative Mastery for Engineers

#### Course Content

##### **Module 1: Foundations of Mathematics**

1. Introduction to Quantitative Aptitude
2. Number Systems
3. Basic Arithmetic Operations
4. Fractions and Decimals
5. Powers and Roots

##### **Module 2: Algebra and Equations**

1. Algebraic Expressions
2. Linear Equations
3. Quadratic Equations
4. Inequalities
5. Polynomials and Factorization

##### **Module 3: Geometry and Mensuration**

1. Basics of Geometry
2. Triangles and Quadrilaterals
3. Circles and Cylinders
4. Rectangular Coordinates
5. Mensuration: Area and Volume

##### **Module 4: Data Interpretation and Statistics**

1. Data Interpretation Techniques
2. Graphs and Charts
3. Measures of Central Tendency
4. Measures of Dispersion
5. Probability

##### **Module 5: Advanced Topics and Mock Test**

1. Time, Speed, and Distance
2. Ratio and Proportion
3. Permutations and Combinations
4. Percentage and Profit-Loss
5. Mock Test and Review

#### Course Outcome

The students will be able to:

1. Demonstrate a profound understanding of foundational mathematical concepts, including number systems, arithmetic operations, and algebraic expressions.



**CITY**  
ENGINEERING COLLEGE

- 
2. They will exhibit advanced problem-solving skills in areas such as geometry, mensuration, and statistical analysis, showcasing the ability to apply mathematical principles to engineering scenarios.
  3. Participants will develop a heightened proficiency in interpreting data through graphs and charts, enabling them to make informed decisions based on quantitative information.
  4. The course will empower individuals with the skills to confidently handle advanced topics like time, speed, distance, ratio, and proportion, enhancing their quantitative reasoning abilities.
  5. Ultimately, participants will be well-prepared for competitive exams, campus placements, and real-world engineering challenges, equipped with a comprehensive quantitative aptitude skill set.

**Co-Ordinator**  
**Mr. Girisha G A**

**Mr. Vivekavardhana Reddy**  
**HOD**

## CHIEF PATRON

Dr. K R Paramahamsa,  
Chairman,  
AMC-City - Brooklyn Group of  
institution

## PATRONS

Dr. V S Rama Murthy,  
Principal,CEC

Dr. Jyothi P,  
Vice Principal,CEC

## CONVENOR

Mr. Vivekvardhan Reddy, HOD,  
CSE

## COORDINATORS

Mrs. Archana Bhat, Asst. Prof, CSE

Mr. Girisha G A , Asst. Prof, CSE

## ABOUT

This course will teach you how to apply the top ten principles of good business writing to your work, how to deploy simple tools to dramatically improve your writing, and how to execute organization, structure, and revision to communicate more masterfully than ever.

# CITY ENGINEERING COLLEGE



## SAVE THE DATE

26th to 30th April 2021

9:30am – 4:30pm

## VENUE

Online

## CONTACT DETAILS

Mrs. Archan Bhat,Asst.Prof, CSE  
PH: 9945133228

# Business Writing Skills

— VALUE ADDED —  
COURSE

Organized By

DEPARTMENT OF COMPUTER  
SCIENCE AND ENGINEERING

Resource Person

Mr. SHARATH B S  
Senior Program Manager,  
Last Mile Quality  
Amazon Development Center India  
Bangalore, India

Strong writing skills are  
essential for anyone in  
business.



## Department of Computer Science and Engineering

### Value Added Course on Business Writing Skills

#### Course Content

Module	Content
1	Introduction to Business Writing
	Understanding the Audience
	Basics of Grammar and Punctuation
2	Structure and Organization
	Professional Email Writing
	Writing Reports and Proposals
3	Business Letters and Memos
	Editing and Proofreading Techniques
	Writing for Different Platforms
4	Developing a Business Writing Style
	Handling Sensitive Topics
	Case Studies and Real-world Applications
5	Review and Q&A
	Writing Workshop
	Course Conclusion and Certification

#### Course Outcome

Upon completing the 5-day business writing skills course, participants should be able to:

1. Participants will produce written materials characterized by clarity, conciseness, and precision, ensuring effective communication in professional settings.
2. Participants will demonstrate a polished and professional writing style, adjusting their tone and language appropriately for various business contexts.



**CITY**  
ENGINEERING COLLEGE

- 
3. Participants will exhibit proficiency in grammar and punctuation, resulting in error-free written communication that enhances credibility.
  4. Participants will confidently navigate different business writing genres, producing documents that align with industry standards and expectations.

Participants will excel in presenting data and information in business reports, ensuring clarity, relevance, and persuasiveness in their written communication

**Co-Ordinator**  
**Mrs Archana Bhat**

**Mr. Vivekavardhana Reddy**  
**HOD**



**CITY ENGINEERING COLLEGE**  
(Approved by AICTE New Delhi Affiliated  
by VTU, Belagavi)  
Near Metro Station, Doddakallasandra  
Bangalore – 560 062.

**Online Certificate Course on  
Leadership skills**

**Organized by**  
“Department of Basics Science”  
City Engineering College  
Bangalore-560062

Date: 02-03-21 to 06-03-21  
Venue : Seminar Hall



[www.cityengineeringcollege.ac.in](http://www.cityengineeringcollege.ac.in)

## Chief Patron

**Dr. K.R. Paramahamsa**

Chairman,  
AMC, City, Brooklyn Group of  
Institutions, Bangalore

## Patrons:

**Dr. Ramamurthy**

Principal, City Engineering college  
Bangalore.

## Convenor:

**Dr. Sujatha K**

HOD, Dept of Physics, CEC

## About College

City Engineering College, Bangalore affiliated to Visvesvaraya Technological University (VTU) is centrally located in Bangalore. The College has expanded over the last 19 years with sophisticated infrastructure as a part of the Institution's commitment to provide higher quality education in the area of Engineering. The highly facilitated landmark building – provides a perfect ambience for creativity and learning. City Engineering College is known for its academic excellence, friendly welcoming atmosphere and community spirit. Over large number of full time students study here in a wide range of programs. It is a center of talented, experienced teachers who inspire and energize the students to achieve the best.



### About Applied Science and Humanities

The Applied Science and Humanities Department in City Engineering College serves as a fundamental pillar, providing essential knowledge in fundamental scientific disciplines such as mathematics, physics, and chemistry. This Department plays a critical role in equipping engineering students with the core scientific principles and analytical skills necessary for their specialized engineering studies. Faculty members in the Applied Science Department typically engage in both teaching and research, contributing to advancements in their fields and enhancing the overall academic environment. The department often offers courses that support and complement the various engineering programs, ensuring that students have a strong scientific grounding to solve complex engineering problems effectively.

### Expert Speakers for the Program

**Dr. Jyothi P**

**Professor**

**HOD of Mathematics, CEC**

### Coordinators

**Mrs. Nagashree G**

**Assistant Professor**

**Dept. of Physics, CEC**

**Mrs. Sunitha N**

**Associate Professor**

**Dept. of Chemistry, CEC**

**Mrs. Vanitha**

**Assistant Professor**

**Dept. of Mathematics, CEC**

### About Leadership Skills



Leadership skills are essential qualities that enable individuals to guide, motivate, and influence others effectively. Key skills include strong communication, which ensures clear and effective exchange of ideas; emotional intelligence, which helps in understanding and managing emotions and building relationships; and decisionmaking, which involves making informed choices to address challenges. Effective leaders also excel in delegation, allowing them to assign tasks appropriately and trust their team, and conflict resolution, managing disagreements constructively. Developing these skills helps individuals lead with confidence and inspire their teams to achieve shared goals.



**Department of Basic Science 2020-21**  
**Online Certificate course on Leadership Skills**  
**Course Content**

- Module 1:** Introduction to Leadership and Management, definitions and differences, Historical Perspectives and Theories, Leadership in Organizations.
- Module 2:** Leadership Styles and Theories, Transactional Leadership, Situational and Contingency Theories, Leadership Style Self-Assessment.
- Module 3:** Team Dynamics and Team Building, Stages of Team Development, Roles and Responsibilities in Teams, Team Building Exercises.
- Module 4:** Communications Skills for Leaders, Effective Communication Techniques, Simulated Communication Challenges.
- Module 5:** Project Management Fundamentals, Project Planning and Scheduling, Risk Management, Successful Project Plans

**Course Outcomes**

**The students will be able to:**

- Understand the fundamental differences between Leadership Skills.
- Identify and differentiate between various leadership styles such as transformational and transactional leadership.
- Develop strategies for effective team building and improving team dynamics.
- Students will understand and be able to apply change management principles to lead successful organizational transformations.
- Exhibit a strong commitment to ethical leadership and corporate social responsibility.

Coordinator  
Mrs. Sunitha N  
Department of Chemistry

HOD  
Dr. K. Sujatha  
Department of Physics

Principal  
City Engineering College,  
Bangalore-560 061

ATTESTED COPY

PRINCIPAL  
CITY ENGINEERING COLLEGE  
Kankapura Main Road, BANGALORE - 560 061

## CHIEF PATRON

Dr. K R Paramahamsa,  
Chairman,  
AMC-City - Brooklyn Group of institution

## PATRONS

Dr. V S Rama Murthy, Principal, CEC  
Dr. Jyothi P, Vice Principal, CEC

## CONVENOR

Mr. Vivekavardhana Reddy, HOD,CSE

## COORDINATORS

Mrs. Laxmi M C, Asst. Prof, CSE  
Mrs. Ambika P R, Asst. Prof, CSE

## ABOUT COLLEGE

City Engineering College, Bangalore affiliated to Visvesvaraya Technological University (VTU) is centrally located in Bangalore. The College has expanded over the last 19 years with sophisticated infrastructure as a part of the Institution's commitment to provide higher quality education in the area of Engineering. The highly facilitated landmark building – provides a perfect ambience for creativity and learning. City Engineering College is known for its academic excellence, friendly welcoming atmosphere and community spirit. Over large number of full time students study here in a wide range of programs. It is a centre of talented, experienced teachers who inspire and energize the students to achieve the best.

## CONTACT DETAILS

Mrs Ambika P R, Asst.Prof, CSE  
PH: 9945133228

## Resource Person

Mr. Aravind B S  
Senior Quality Lead ,  
ThoughtFocus, Bangalore

## About The Course

The selenium testing course online helps you learn to work with various web element(s) locating strategies, perform actions on web elements, group, and sequence tests, as well as generate reports for your test cases using TestNG.

## About The Department

The Department of Computer Science & Engineering was started in the year 2001 is known for imparting Quality education and carrying out cutting edge research. In addition to the UG program, PG CSE program and Research facilities for Ph.D. The department offers undergraduate program and has a comprehensive curriculum on topics related to software and hardware with an emphasis on theoretical and practical learning. It has well equipped, state of the art laboratories supported by highspeed Internet and wireless networks.



## CITY ENGINEERING COLLEGE

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## Add on Course On

## SOFTWARE TESTING USING SELENIUM

9th Nov to 13th Nov  
2020

Get more out of your testing  
using Selenium



---

## Department of Computer Science and Engineering

### Add-on Course “Software Testing with Selenium”

#### Course Content

##### **Module 1: Introduction to Automated Testing and Selenium**

Overview of Automated Testing; Importance of Automated Testing; Benefits and Challenges; Introduction to Selenium; History and evolution; Selenium Components (Selenium IDE, Selenium WebDriver, Selenium Grid)

##### **Module 2: Setting up the Selenium Environment**

Installing Selenium WebDriver; Configuring WebDriver for different browsers (Chrome, Firefox, etc.); Configuring Integrated Development Environment (IDE); Setting up Eclipse, IntelliJ, or other IDEs

##### **Module 3: Selenium WebDriver Basics**

Understanding WebDriver; Basics of WebDriver architecture; WebDriver commands and methods; Locating Elements; Identifying elements using various locators (ID, Name, XPath, CSS selectors, etc.); Handling Different HTML Elements; Textboxes, buttons, dropdowns, radio buttons, checkboxes, etc.

##### **Module 4: Advanced Selenium WebDriver**

Synchronization; Implicit and explicit waits; Expected conditions; Handling Alerts and Pop-ups; Switching between windows and frames; Handling JavaScript alerts; Action Class; Performing advanced user interactions (mouse and keyboard actions)

##### **Module 5: TestNG Framework**

Introduction to TestNG; Annotations and configuration; TestNG Features; Parameterization; Test Suites and Groups

##### **Module 6: Page Object Model (POM)**

Design Patterns in Selenium; Introduction to POM; Creating Page Classes; Page Factory in Selenium



**CITY**  
ENGINEERING COLLEGE

---

### Course Outcomes

1. Understanding the Fundamentals of Automated Testing and Selenium
2. Proficiency in Setting Up and Configuring the Selenium Environment
3. Mastery of Selenium WebDriver Basics
4. Advanced Skills in Selenium WebDriver for Complex Test Scenarios
5. Comprehensive Knowledge of the TestNG Framework
6. Expertise in Implementing the Page Object Model (POM) in Selenium

A handwritten signature in black ink, appearing to read 'Laxmi M C'.

**Co-Ordinator**  
**Mr. Laxmi M C**

A handwritten signature in black ink, appearing to read 'Vivekavardhana Reddy'.

**Mr. Vivekavardhana Reddy**  
**HOD**



## CITY ENGINEERING COLLEGE

(Approved by AICTE New Delhi Affiliated  
by VTU, Belagavi)

Near Metro Station, Doddakallasandra  
Bangalore – 560 062.

### Online Certificate Course on Communication Proficiency

#### Organized by

“Department of Basic Science”  
City Engineering College  
Bangalore-560062

Date: 05-10-20 to 09-10-20

Venue : Online



[www.cityengineeringcollege.ac.in](http://www.cityengineeringcollege.ac.in)

## Chief Patron

**Dr. K.R. Paramahamsa**  
Chairman,  
AMC, City, Brooklyn Group of  
Institutions, Bangalore.

## Patron:

**Dr. Ramamurthy**  
Principal, City Engineering college  
Bangalore.

## Convenor:

**Dr. Jyothi. P**  
HOD, Dept of Mathematics, CEC

## About college

City Engineering College, Bangalore affiliated to Visvesvaraya Technological University (VTU) is centrally located in Bangalore. The College has expanded over the last 19 years with sophisticated infrastructure as a part of the Institution's commitment to provide higher quality education in the area of Engineering. The highly facilitated landmark building – provides a perfect ambience for creativity and learning. City Engineering College is known for its academic excellence, friendly welcoming atmosphere and community spirit. Over large number of full time students study here in a wide range of programs. It is a center of talented, experienced teachers who inspire and energize the students to achieve the best.

## About Basic Science

The Basic Science Department in City Engineering College serves as a fundamental pillar, providing essential knowledge in fundamental scientific disciplines such as mathematics, physics, and chemistry. This Department plays a critical role in equipping engineering students with the core scientific principles and analytical skills necessary for their specialized engineering studies. Faculty members in the Applied Science Department typically engage in both teaching and research, contributing to advancements in their fields and enhancing the overall academic environment. The department often offers courses that support and complement the various engineering programs, ensuring that students have a strong scientific grounding to solve complex engineering problems effectively.

## Expert Speakers for the Program

### Dr. K Sujatha

Professor, HOD of Physics  
City Engineering college

### Coordinators:

#### Mrs. Nagashree G

Assistant Professor  
Dept. of Physics, CEC

#### Mrs. Sunitha N

Associate Professor  
Dept. of Chemistry, CEC

## Communication Proficiency



**Communication proficiency** is the ability to convey and receive messages effectively. It involves clearly articulating ideas, actively listening to others, and using appropriate nonverbal cues. Proficient communicators adapt their style to suit different audiences and contexts, ensuring their message is understood and engaging. They also demonstrate empathy and provide constructive feedback, fostering better relationships and collaboration. Effective communication is essential for successful interactions in both personal and professional settings.



## Department of Basic Science

### Online Certificate course on Communication Proficiency

**Academic Year 20-21**

#### Course Content

**Module 1:** Introduction to Public Speaking, significance of public speaking, Common fears and misconceptions about public speaking.

**Module 2:** Speech Preparation and Organization, Identifying and narrowing down a speech topic, Researching and gathering supporting material, structuring a speech.

**Module 3:** Developing Content and Supporting Material, crafting a clear and engaging message, Ensuring logical flow and coherence in content.

**Module 4:** Advance Speech Techniques, using rhetoric and persuasive techniques to enhance speeches, incorporating multimedia elements to support the message.

**Module 5:** Final Speech Presentation, managing time and pacing during the speech, Refining and polishing the final speech.

#### Course Outcomes

By the end of this course, participants will be able to:

- Develop Techniques to manage and reduce anxiety associated with public speaking
- Gain confidence through repeated practice and constructive.
- Organize speeches with well-defined introduction bodies and conclusions.
- Utilize rhetorical and persuasive techniques to enhance the impact of speeches.

Coordinator  
Prof. Nagashree G

HOD  
Dr. K. Sujatha

Principal  
City Engineering College,  
Bangalore-560 081

ATTESTED COPY



PRINCIPAL  
CITY ENGINEERING COLLEGE  
Hanapura Main Road, BANGALORE - 560 081





Doddakallasandra, Bangalore-560061

**Department of Civil Engineering**  
**Course on Pollution Control and Environmental Laws in India**  
**Brochure**

 <p style="text-align: center;"><b>CITY ENGINEERING COLLEGE</b>          (Approved by AICTE New Delhi &amp; Affiliated by VTU, Belagavi)          Near Metro Station, Doddakallasandra          Bangalore – 560 062.</p> <p style="text-align: center;"><b>Value Added Course on          Pollution Control and          Environmental Laws in India</b></p> <p style="text-align: center;">Date: 07-09-20 to 11-09-20          Venue : Seminar Hall</p> <p style="text-align: center;"><b>Organized by</b>          Department of Civil Engineering          City Engineering College          Bangalore-560062</p> <p style="text-align: center;">www.cityengineeringcollege.ac.in</p>	<p style="text-align: center;"><b>Advisory Committee</b></p> <p style="text-align: center;"><u>Chief Patron</u></p>  <p style="text-align: center;"><b>Dr. K R Paramahansa</b>          MBA, LL.B., Ph.D. (USA), D.Litt,          Honorable Chairman          AMC – City Group of Institutions.</p> <p style="text-align: center;"><u>Patrons</u></p> <p style="text-align: center;"><b>Smt. Geetha Paramahansa</b>          Honorable Vice Chairperson,          AMC – City Group of Institutions.</p> <p style="text-align: center;"><b>Ms. Monica Kalluri</b>          Honorable Vice – President          AMC – City Group of Institutions.</p> <p style="text-align: center;"><b>Mr. Rahul Kalluri</b>          Honorable Executive – President          AMC – City Group of Institutions.</p> <p style="text-align: center;"><b>Dr. V.S. Ramamurthy</b>          Principal, City Engineering college, Bangalore.</p> <p style="text-align: center;"><b>Dr. Jyothi. P</b>          Vice Principal, HOD, Dept of Mathematics, CEC</p> <p style="text-align: center;"><u>Convener</u></p> <p style="text-align: center;"><b>Dr. Thippeswamy H N</b>          Professor and Head, Civil Engineering Department, CEC</p> <p style="text-align: center;"><u>Coordinator</u></p> <p style="text-align: center;"><b>Mr. Vinay Kumar S N</b>          Assistant Professor, Dept. of Civil Engineering, CEC</p>	<p style="text-align: center;"><b>About College</b></p> <p>City Engineering College, Bangalore affiliated to Visvesvaraya Technological University (VTU) is centrally located in Bangalore. The College has expanded over the last 19 years with sophisticated infrastructure as a part of the Institution's commitment to provide higher quality education in the area of Engineering. The highly facilitated landmark building – provides a perfect ambience for creativity and learning. City Engineering College is known for its academic excellence, friendly welcoming atmosphere and community spirit. Over large number of full time students study here in a wide range of programs. It is a center of talented, experienced teachers who inspire and energize the students to achieve the best.</p>
---	--	--

<p style="text-align: center;"><b>About the Civil Engineering Department</b></p> <p>The Department of Civil Engineering was started in the year 2011 with an intake of 60 and further increased to 120 in the year 2014 to impart Quality Technical Education to the aspirants of Civil Engineering. The Department has well stocked library, state of the art Class rooms and Laboratories. The Department has formed Club – RACE - Royal Association of Civil Engineers. The aim of the club is to bridge the gap between Academics and the Industry. RACE in association with the Experts in the Field/ Industry has arranged several programs, workshops, Industrial Visits for the benefit of faculty and the students and to keep them abreast with the latest knowledge and industry challenges.</p>	<p style="text-align: center;"><b>Expert Speakers for the Program</b></p> <p style="text-align: center;"><b>Shri D.R. Kumaraswamy</b>  <b>Retd. Senior Environmental          Officer, Enviro Care Cell,          Karnataka State Pollution          Control Board,          Bangalore</b></p>	<p style="text-align: center;"><b>About Plumbing</b></p> <p>A Pollution Control and Environmental Laws in India value-added course is designed to help the student to have an understanding of the remedial measurements in controlling the pollution. This course aims to provide a basic level understanding of the legislative framework of environmental regulation, its implementation and adjudication, to enable students to identify core environmental issues and legal and institutional responses to them, to introduce the basic concepts and principles of environmental law and to analyse these principles as tools of environmental protection, where the laws and policies fall short, to safeguard and improve the quality of the environment by preventing, controlling, and abating pollution.</p>
---	--	--

ATTESTED COPY

*Skandan*  
 PRINCIPAL  
 CITY ENGINEERING COLLEGE  
 Doddakallasandra Main Road, BANGALORE - 560 061



Doddakallasandra, Bangalore-560061

---

**Department of Civil Engineering**  
**Course on Pollution Control and Environmental Laws in India**  
**Course Content**

**Module 1:** Introduction about pollution, Control measures of pollution & Role of Pollution Control Boards,

**Module 2:** Understanding of the environmental governance structure of the country and their implementation statistics, Learning about laws and rules of waste management.

**Module 3:** Environmental Protection Act, Air act & Water Act.

**Module 4:** Solid Waste and Plastic waste Management rules, Hazardous Waste Management rules & E-waste management rules.

**Module 5:** Overview of the obligations of industry and individuals under various environmental laws and regulations, Role of National Green Tribunal (NGT), environmental courts, Animal welfare, Wildlife & Forest conservation & Criminal Laws, Procedure and Enforcement for abatement of Environment Pollution.

Mr. Vinay Kumar S N  
Course Coordinator  
Assistant Professor  
Department of Civil Engineering

Dr. Thippeswamy H N  
HOD  
Department of Civil Engineering

ATTESTED COPY

PRINCIPAL  
CITY ENGINEERING COLLEGE  
Kanjapura Main Road, BANGALORE - 560 061



Doddakallasandra, Bangalore-560061

## Department of Civil Engineering

### Course on Pollution Control and Environmental Laws in India

#### Course Objectives

After completion of the course, the trainees should be able to:

1. To provide a basic level understanding of the legislative framework of environmental regulation, its implementation and adjudication
2. To enable students to identify core environmental issues and legal and institutional responses to them.
3. To introduce the basic concepts and principles of environmental law and to analyse these principles as tools of environmental protection, where the laws and policies fall short.
4. To safeguard and improve the quality of the environment by preventing, controlling, and abating pollution.

#### Course Outcomes

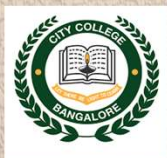
The students will be able to:

1. The primary learning outcome is to sensitize the students towards human activities that adversely affect the environment and the need for regulation of such activities.
2. Students will develop a thorough understanding of practice and procedure followed by various environmental law enforcing agencies/bodies.
3. Students will be able to pursue environmental litigation before the National Green Tribunal and assist the Tribunal as a researcher or in any other capacity.
4. Students will be able to assist industries and projects in obtaining environmental clearance and compliances with other environmental laws.

Mr. Vinay Kumar S N  
Course Coordinator  
Assistant Professor  
Department of Civil Engineering

ATTESTED COPY  
  
PRINCIPAL  
CITY ENGINEERING COLLEGE  
KANDAKALLASANDRA MAIN ROAD, BANGALORE - 560061

Dr. Thippeswamy H N  
HOD  
Department of Civil Engineering



## CITY ENGINEERING COLLEGE

(Approved by AICTE New Delhi & Affiliated by VTU,  
Belagavi)  
Near Metro Station, Doddakallasandra  
Bangalore – 560 062.

### Value Added Course on Energy and Environment

Date: 07-09-2020 to 11-09-2020  
Venue : Seminar Hall

#### Organized by

Department of Mechanical Engineering  
City Engineering College  
Bangalore-560062



[www.cityengineeringcollege.ac.in](http://www.cityengineeringcollege.ac.in)

### Advisory Committee

#### Chief Patron

#### Dr. K R Paramahamsa

MBA, L.L.B., Ph.d. (USA), D. Litt,  
Honorable Chairman  
AMC – City Group of Institutions.

#### Patrons

#### Smt. Geetha Paramahamsa

Honorable Vice Chairperson,  
AMC – City Group of Institutions.

#### Ms. Monica Kalluri

Honorable Vice – President  
AMC – City Group of Institutions.

#### Mr. Rahul Kalluri

Honorable Executive – President  
AMC – City Group of Institutions.

#### Dr. V.S. Ramamurthy

Principal, City Engineering college

#### Dr. Jyothi. P

Vice Principal, HOD,  
Dept of Mathematics, CEC.

### About College

City Engineering College, Bangalore affiliated to Visvesvaraya Technological University (VTU) is centrally located in Bangalore. The College has expanded over the last 19 years with sophisticated infrastructure as a part of the Institution's commitment to provide higher quality education in the area of Engineering. The highly facilitated landmark building – provides a perfect ambience for creativity and learning. City Engineering College is known for its academic excellence, friendly welcoming atmosphere and community spirit. Over large number of full time students study here in a wide range of programs. It is a center of talented, experienced teachers who inspire and energize the students to achieve the best.

## About the Department of Mechanical Engineering

The Department of Mechanical Engineering was established in 2005 with an annual intake of 120 students in the undergraduate Programme. The Department of Mechanical Engineering has state-of-the-art laboratories; these laboratories not only satisfy the curriculum requirements of the students very lucidly but also provide additional facilities to enhance the practical knowledge. The department consists of a team of well qualified teaching staff having Master degrees and Doctorates. The staff members of the Mechanical Department have taken up projects funded by external agencies like KSCST, VGST and VTU. The department received a grant of Rs. 5 Lakh in the year 2019 from VGST to carry out research on Advanced Materials in Green Energy. The Department also has a Research center approved by VTU.

## Expert Speakers for the Program

### **D.R. Kumaraswamy**

Retd. Senior Environmental Officer,  
Enviro Care Cell,  
Karnataka State Pollution Control Board,  
Bangalore

### **Convenor**

### **Dr. S.Karunakara**

Professor and Head, Mechanical  
Engineering Department

### **Coordinator**

### **Mr. Sampath HP**

Professor and Head, Mechanical  
Engineering Department

## About Energy and Environment

Energy and Environment courses cover topics related to energy production, consumption, and environmental impact. They may also address the challenges of energy use and sustainable energy. Some courses may include practical learning on emerging technologies, such as energy auditing, waste water treatment, and air and water pollution control.

Energy and Environment courses typically focus on the intersection of energy production, consumption, and environmental impact. Energy and Environment courses cover a range of topics related to sustainable energy, environmental conservation, and the challenges posed by energy use



## Department of Mechanical Engineering

### Course on Energy and Environment

#### Course Content

**Module 1:** Introduction about pollution, Control measures of pollution & Role of Pollution Control Boards,

**Module 2:** Understanding of the environmental governance structure of the country and their implementation statistics, Learning about laws and rules of waste management.

**Module 3:** Environmental Protection Act, Air act & Water Act.

**Module 4:** Solid Waste and Plastic waste Management rules, Hazardous Waste Management rules & E-waste management rules.

**Module 5:** Overview of the obligations of industry and individuals under various environmental laws and regulations, Role of National Green Tribunal (NGT), environmental courts, Animal welfare, Wildlife & Forest conservation & Criminal Laws, Procedure and Enforcement for abatement of Environment Pollution.

**Course Coordinator**

Mr. Sampath HP  
Assistant Professor  
Department of Mechanical Engineering

**HOD**

Dr.S.Karunakara  
HOD  
Department of Mechanical Engineering



## Department of Mechanical Engineering

### Course on Energy and Environment

#### Course Objectives

After completion of the course, the trainees should be able to:

1. To provide a basic level understanding of the legislative framework of environmental regulation, its implementation and adjudication
2. To enable students to identify core environmental issues and legal and institutional responses to them.
3. To introduce the basic concepts and principles of environmental law and to analyse these principles as tools of environmental protection, where the laws and policies fall short.
4. To safeguard and improve the quality of the environment by preventing, controlling, and abating pollution.

#### Course Outcomes

The students will be able to:

1. The primary learning outcome is to sensitize the students towards human activities that adversely affect the environment and the need for regulation of such activities.
2. Students will develop a thorough understanding of practice and procedure followed by various environmental law enforcing agencies/bodies.
3. Students will be able to pursue environmental litigation before the National Green Tribunal and assist the Tribunal as a researcher or in any other capacity.
4. Students will be able to assist industries and projects in obtaining environmental clearance and compliances with other environmental laws.

**Course Coordinator**

Mr. Sampath HP  
Assistant Professor  
Department of Mechanical Engineering

**HOD**

Dr.S.Karunakara  
HOD  
Department of Mechanical Engineering