Department of Computer Science and Engineering

A Report on Value Added Course on Quantitative Mastery for Engineers

A five days' Value Added Course on **"Quantitative Mastery for Engineers"** *was* successfully conducted in the city engineering college, from 24-05-2021 to 28-05-2021 by Department of Computer Science and Engineering. The course sessions received an overwhelming response from participants.

This course is a dynamic and intensive program designed to enable participants be well-equipped to foster a culture of innovation, generate creative solutions to challenges, and contribute effectively to the development of innovative ideas in diverse professional and personal settings.

Day 1: Foundations of Mathematics

On the first day, participants were introduced to the fundamentals of quantitative aptitude. The session covered topics such as number systems, basic arithmetic operations, and powers and roots. Activities included practice problems and group discussions to strengthen the participants' grasp of these foundational concepts.
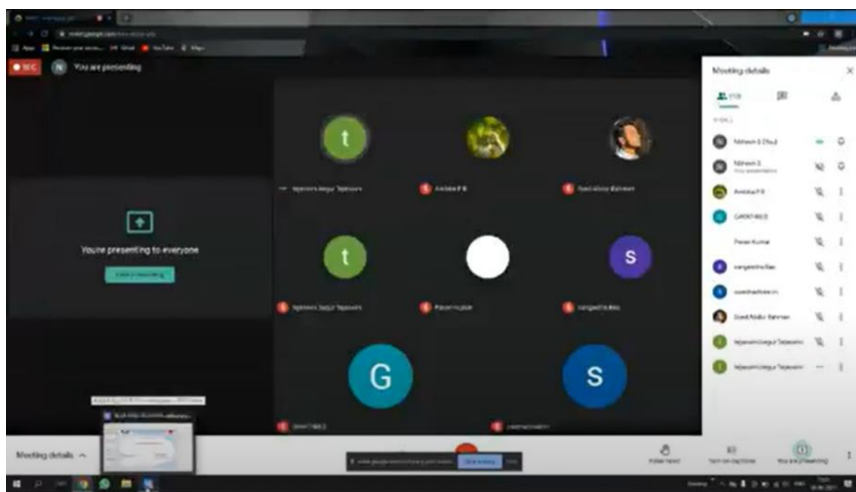

FIG 3: SCREENSHOT OF SESSION

Day 2: Algebra and Equations

The second day delved into algebraic expressions, linear equations, and quadratic equations. In interactive problem-solving sessions, participants applied these concepts to real-world scenarios. Factorization techniques were explored, providing a solid foundation for more complex problem-solving.

Day 3: Geometry and Mensuration

Geometry and mensuration were the focus of day three, where participants engaged in problem-solving exercises related to triangles, quadrilaterals, circles, and cylinders. Practical

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applications of rectangular coordinates and mensuration concepts, including area and volume calculations, were explored.

Day 4: Data Interpretation and Statistics

The fourth day was dedicated to data interpretation techniques, graphs, and charts. Participants also delved into statistical measures such as central tendency and dispersion. The session included hands-on activities for interpreting data patterns and understanding probability.

Day 5: Advanced Topics and Mock Test

On the final day, participants explored advanced topics such as time, speed, and distance, as well as ratio and proportion. The day concluded with a comprehensive mock test, allowing participants to apply their knowledge and skills. A review session provided valuable insights for improvement.

Throughout the five-day intensive workshop, participants actively engaged in problem-solving activities, group discussions, and mock tests. The course successfully equipped engineering students with a robust understanding of quantitative aptitude, enhancing their abilities to tackle various challenges in academic assessments and real-world engineering scenarios.

Coordinator   **Mr. Vivekavardhana Reddy**   **Dr.V S Ramamurthy**
Mr. Girisha G A   **HOD**   **PRINCIPAL**

Department of Computer Science and Engineering

Value Added Course on Quantitative Mastery for Engineers

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.
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

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Department of Computer Science and Engineering

A Report on Value-Added Course on "Business Writing Skills"

A five-day Value-Added Course on **Business Writing Skills** was organised by the Department of Computer Science and Engineering from 26/4/2021 to 30/4/ 2021 for Computer Science and Engineering students in the Project Laboratory. **Mr. Sharath B S, Senior Program Manager, Last Mile Quality, Amazon Development Center, Bangalore** was the resource person.

Day 1:

Session 1: Introduction to Business Writing

On the first day, participants were introduced to the fundamentals of effective business writing. They learned about the importance of clarity, conciseness, and coherence in communication. Practical exercises and examples were provided to enhance understanding.

Session 2: Understanding the Audience

The second session focused on the crucial aspect of tailoring writing to specific audiences. Participants engaged in activities to identify different audience types and practiced adapting their writing styles accordingly.

Session 3: Basics of Grammar and Punctuation

The third session delved into the essential elements of grammar and punctuation in business writing. Common mistakes were highlighted, and participants were guided through exercises to reinforce proper usage.
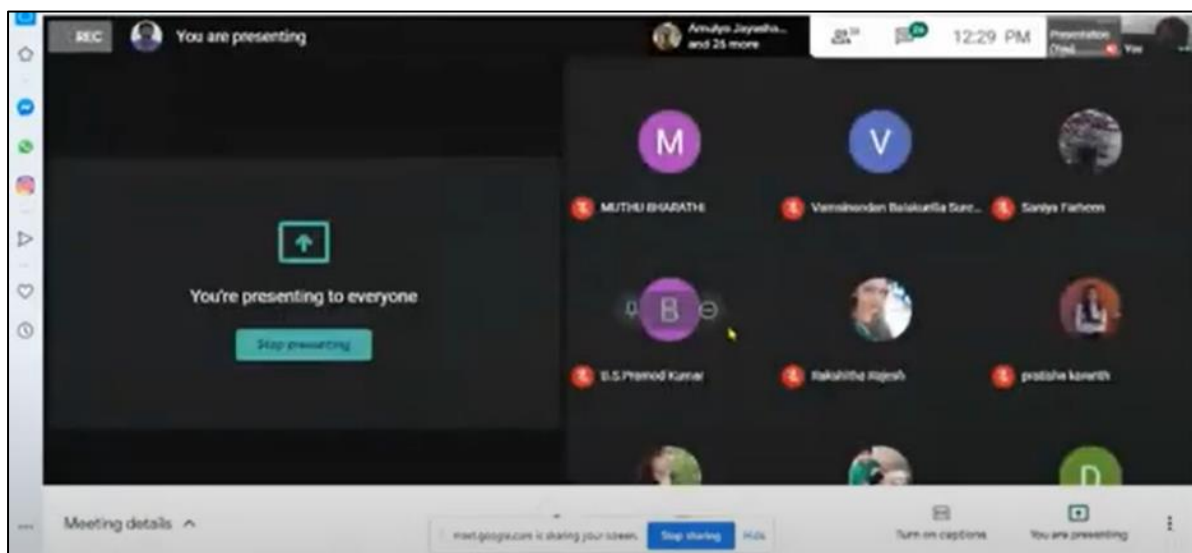

FIG 2: SCREENSHOT OF THE SESSION

Day 2:

Session 1: Structure and Organization

Day two commenced with an exploration of effective document structure and organization. Participants learned about the importance of logical flow, headings, and subheadings in creating coherent business documents.

Session 2: Professional Email Writing

The second session focused on the nuances of professional email writing. Participants were provided with practical tips and examples to enhance their email communication skills in a business context.

Session 3: Writing Reports and Proposals

Participants spent the third session mastering the art of crafting comprehensive reports and proposals. The session covered the necessary components, formatting guidelines, and strategies for producing impactful business documents.

Day 3:

Session 1 : Business Letters and Memos

Day three kicked off with a deep dive into the conventions of business letters and memos. Participants learned the appropriate formats and styles for various professional communication scenarios.

Session 2: Editing and Proofreading Techniques

The second session of the day focused on refining writing through effective editing and proofreading. Practical exercises allowed participants to apply techniques for catching errors and improving overall writing quality.

Session 3 : Writing for Different Platforms

Participants explored the diversity of writing platforms in the business context during the third session. This included social media, blogs, and other digital communication tools. Best practices for adapting writing styles to different platforms were discussed.

Day 4:

Session 1: Developing a Business Writing Style

On the fourth day, participants engaged in activities aimed at helping them develop their unique business writing style. The session focused on cultivating a professional tone while maintaining authenticity.

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Session 2: Handling Sensitive Topics

The second session addressed the delicate task of addressing sensitive topics in business writing. Participants learned strategies for navigating challenging subjects while maintaining professionalism.

Session 3: Case Studies and Real-world Applications

Day four concluded with the application of learned skills through case studies and real-world examples. Participants analyzed and critiqued various business documents to reinforce their understanding of effective writing practices.

Day 5:

Session 1: Review and Q&A

The final day began with a comprehensive review of key concepts covered throughout the course. Participants had the opportunity to ask questions and seek clarification on any topics.

Session 2: Writing Workshop

The second session allowed participants to put their skills to the test in a writing workshop. Feedback was provided on individual writing samples, and participants had the chance to refine their work based on the lessons learned.

Session 3: Course Conclusion and Certification

The course concluded with a wrap-up session where participants received certificates of completion. Final insights and tips for continued improvement in business writing were shared, providing a comprehensive conclusion to the 30-hour program.

In this comprehensive 5-day business writing skills course, participants immersed themselves in a dynamic learning experience, progressing from foundational principles to advanced techniques. Through a carefully crafted curriculum, they honed their abilities in various business writing genres, including emails, reports, and letters. The course culminated in a hands-on writing workshop, empowering participants to apply their newfound skills and receive personalized feedback for continued professional growth.

Coordinator   **Mr. Vivekavardhana Reddy**   **Dr. V S Ramamurthy**
Mrs Archana Bhat   **HOD**   **PRINCIPAL**

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Department of Computer Science and Engineering

Value Added Course on Business Writing Skills

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.

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

DEPARTMENT OF BASIC SCIENCE
ONLINE CERTIFICATE COURSE

A five-day Certificate Course on **Leadership Skills** was organized by the Department of Basic Science from 2nd to 6th Mar 2021 for First year students by Prof. Jyothi P HOD**, Mathematics. The schedule for a five-days course on Leadership Skills for Personal & Professional Productivity covered key topics.

Day 1: The event began with a formal inaugural function by **Principal CEC and HOD's of Basic Science** were present during the inauguration. The program began by seeking the blessings of Almighty with invocation and lighting of lamp. Principal advised the students to utilize the benefits of the course completely. **Prof. Jyothi madam** Welcomed the resource person and gave a course overview. Later the session was handed over to the speaker.
    On the first day, introduction of fundamental differences between Leadership Skills.Participants learned about the various roles and responsibilities that distinguish leaders from managers, emphasizing the unique qualities and skills required for each.

Day 2: The second day explored different leadership styles, such as autocratic, democratic, laissez-faire, and transformational. The session focused on understanding the characteristics of eachstyle and identifying situations where each is most effective.

Day 3: The third day focused on motivation theories, including Maslow's Hierarchy of Needs and Herzberg's Two Factor Theory. Participants discussed how these theories can be applied to motivate teams and improve workplace satisfaction**.**

Day 4: The fourth day, participants learned about the decision-making process, starting fromdefining the problem to evaluating the outcomes. Emphasis was placed on making informedand inclusive decisions to lead teams effectively**.**

Day 5: On the final day, the focus was on ethical leadership, discussing what it means to lead ethicallyand how to align behavior and decisions with ethical standards. Case studies were uses to illustrate real-world ethical dilemmas**.**

    Throughout the intensive 5-day course, participants engaged in a structured and rigorous curriculum that effectively enhanced their skills. This structure ensures that participants gain acomprehensive understanding of essential Leadership Skills concepts over the course of the program.

		Principal City Engineering College, Bangalore-560 061
Coordinator	HOD	Principal
Mrs. Sunitha N	Dr. K. Sujatha	Dr. Ramamurthy
Department of Chemistry	Department of Physics	CEC, Bangalore

Department of Basic Science

Certificate course on Leadership Skills

Course Objectives

The course objectives are

- Gain a comprehensive understanding of key leadership theories, principles andpractices.
- Enhance verbal and non-verbal communication skills essential for effective Leadership Skills.
- Learn techniques for building, leading, and motivating high-performance teams.
- Develop critical thinking and decision-making skills necessary for effective Leadership Skills.
- Develop the ability to lead and manage in diverse and multicultural environments.

Course Outcomes

The students will be able to:

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

Coordinator	HOD	Principal
Mrs. Sunitha N	Dr. K. Sujatha	Dr. Ramamurthy
Department of Chemistry	Department of Physics	CEC, Bangalore

Principal
City Engineering College,
Bangalore-560 061

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CITY ENGINEERING COLLEGE
Kamakapura Main Road, BANGALORE - 560 061

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Department of Computer Science and Engineering

A Report on Add-on Course "Software Testing with Selenium"

A five-day Add-on Course on **Software Testing with Selenium** was organised by the Department of Computer Science and Engineering from 9th to 14th Nov 2020 for Computer Science and Engineering students. Mr. Aravind B S,Senior Quality Lead ,ThoughtFocus was the resource person.

The schedule for a five-day Value Added Course on software Testing with Selinium covered key topics and allow for hands-on activities.

Day 1:

On the first day, participants were introduced to Selenium, an open-source testing framework for web applications. The session covered the basics of Selenium, its architecture, and the various components that make it a powerful tool for automated testing.

In the afternoon session, participants learned how to set up their Selenium environment. This included installing necessary tools and configuring the Selenium WebDriver for different browsers. Practical demonstrations were provided to ensure everyone had a functional testing environment by the end of the day.

FIG 3: SCREENSHOT OF SESSION

Day 2:

The focus of the first session of Day 2 was on locators in Selenium. Participants gained a deep understanding of different locator strategies such as ID, Name, XPath, CSS, and more. Practical exercises allowed participants to practice using these locators to identify and interact with elements on web pages.

Participants delved into handling various web elements like buttons, text boxes, dropdowns, and more in the afternoon session. The session covered techniques for interacting with these elements using Selenium WebDriver, enabling participants to perform actions such as clicking, typing, and selecting.

Day 3:

On the third day, participants learned about Selenium WebDriver commands and how to perform actions on web elements. The session included hands-on exercises to reinforce the concepts and provided a solid foundation for writing effective automation scripts.

The afternoon session focused on synchronization strategies in Selenium to handle dynamic web pages. Participants explored implicit and explicit waits, ensuring that their automation scripts could adapt to various loading times and dynamic content.

Day 4:

On fourth day, participants learned how to handle alerts, pop-ups, and frames in Selenium. Practical examples were used to demonstrate how to switch between frames, accept or dismiss alerts, and handle different types of pop-ups encountered during web testing.

The fourth day included an introduction to TestNG, a testing framework for Java that is widely used with Selenium. Participants explored the features of TestNG and learned how to integrate it with Selenium for effective test case management and reporting.

Day 5:

Participants were introduced to the Page Object Model (POM) design pattern.

They learned how to structure their automation code using POM to enhance maintainability and readability. The session concluded with a recap of key concepts and a discussion on best practices for Selenium testing.

In the five-day Selenium testing course, participants were introduced to the fundamentals of Selenium, including its architecture and environment setup. By the end of the course, attendees had acquired a comprehensive skill set in Selenium testing, equipping them to effectively automate web applications and implement best practices in their testing projects.

CO-Ordinator   **Mr. Vivekavardhana Reddy**   **Dr. V S Ramamurthy**
Mrs. Laxmi M C   **HOD**   **PRINCIPAL**

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Department of Computer Science and Engineering

Add-on Course "Software Testing with Selenium"

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

Co-Ordinator
Mr. Laxmi M C

            Mr. Vivekavardhana Reddy
            HOD

Department of Applied Science & Humanities

Certificate course on Communication Proficiency

A five-day Certificate Course on Communication Proficiency was organized by the Department of Basic Science from 5th to 9th Oct 2020 for first year students Online by Dr. K Sujatha is a HOD of Physics Department, Bengaluru was the resource person.

The schedule for a five-day Certificate Course on Communication Proficiency covered key topics.

Day 1: The event began with a formal inaugural function. Dr. S Karunakara, Principal CEC, HOD of Mathematics, Physics & Chemistry were present online during the inauguration. The program began by seeking the blessings of Almighty withinvocation. Principal advised the students to utilize the benefits of the course completely. Dr. Jyothi P Welcomed the resource person and gave a course overview. Later the session was handed over to the speaker & he explained about Introduction to Public Speaking, Self - Assessment of current speaking skills & Speech Preparation and Organization.

Day 2: Planning and Scheduling Day two was dedicated to Developing Content and Supporting Material, Delivery Techniques & Engaging the Audience.

Day 3: The third day aimed at Handling Nervousness and Building confidence, Positive visualization and Mental Preparation & Impromptu Speaking.

Day 4: The fourth day provided an overview of Story Telling and Narrative Development, Final Speech Preparation & Managing Time and Pacing.

Day 5: The final day was about Final Presentation and Course Wrap Up, Final Speech Presentation & Future Opportunities for Public Speaking Practice.

Participants shared their experiences and insights, fostering a collaborative learning environment. The course concluded with a summary of key takeaways, a final Q&A session, and a feedback and evaluation segment to gather participants' input on the course.

Coordinator	HOD	Principal
Prof. Nagashree G	Dr. K. Sujatha	Dr. Ramamurthy

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Department of Basic Science

Online Certificate course on Communication Proficiency

Course Objectives:

- Equip you with the skills necessary to work in a team and develop soft skills to communicate efficiently and articulate yourself clearly.

- Determine the best speaking style for different types of speaking occasions.

- Improve your speaking skills, help you be a more critical thinker, fine-tune your verbal and nonverbal communication skills, and help you overcome public speaking anxiety.

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	HOD	Principal
Prof. Nagashree G	Dr. K. Sujatha	Dr. Ramamurthy

![City Engineering College logo]

CITY
ENGINEERING COLLEGE
Doddakallasandra, Bangalore-560061
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DEPARTMENT OF CIVIL ENGINEERING

REPORT OF COURSE ON POLLUTION CONTROL AND ENVIRONMENTAL LAWS IN INDIA

The Department of Civil Engineering, City Engineering College organized the course on **"Pollution Control and Environmental Laws in India"** by Sri D.R. Kumaraswamy, Senior Environmental Officer, Enviro Care Cell, Karnataka State Pollution Control Board, Bangalore from 7th to 11th September 2020 in Seminar Hall, 4th Floor, Department of Civil Engineering. Mrs. Vidyadhare, Asst. Prof., Department of Civil Engineering welcomed the speaker and audience. Dr. Thippeswamy, H. N., Prof. and Head, welcomed the speaker by presenting the medicinal plant to the speaker. Ms. R.V. Gayathri, Asst. Prof., Department of Civil Engineering introduced the speaker. Sri D.R. Kumaraswamy explained the remedial measurements in controlling the pollution. He also emphasized the following points:
➢ How to maintain our surrounding by cleaning as a citizen of India.
➢ How environmental laws are implemented.
➢ How to creating the awareness among public by educated people to maintain safe environment. The faculty members and students of our department were present.

Dr. Thippeswamy, H.N., Prof and Head gave vote of thanks.

Fig:1 Dr. Thippeswamy, H. N., Prof. and Head, welcomed the speaker by presenting the medicinal plant.

Fig:2 Speaker addressing Students

Fig:3 Students listening to Speaker

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

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CITY ENGINEERING COLLEGE
Kanakapura Main Road, BANGALORE - 560 061

Dr. Thippeswamy H N
HOD
Department of Civil Engineering

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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

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

Dr. Thippeswamy H N
HOD
Department of Civil Engineering

DEPARTMENT OF MECHANICAL ENGINEERING

REPORT OF COURSE ON ENERGY AND ENVIRONMENT

The Department of Mechanical Engineering, City Engineering College organized the course on "**Energy and Environment**" by Sri D.R. Kumaraswamy, Senior Environmental Officer, Enviro Care Cell, Karnataka State Pollution Control Board, Bangalore from 7th to 11th September 2020 in Seminar Hall, Department of Mechanical Engineering. Mr. Sampath HP, Asst. Prof., Department of Mechanical Engineering welcomed the speaker and audience. Dr. S.Karunakara., Prof. and Head, welcomed the speaker by presenting the medicinal plant to the speaker. Mr.Veeresh Naik, Asst. Prof., Department of Mechanical Engineering introduced the speaker. Sri D.R. Kumaraswamy explained the remedial measurements in controlling the pollution. He also emphasized the following points:

➢ How to maintain our surrounding by cleaning as a citizen of India.
➢ How environmental laws are implemented.
➢ How to creating the awareness among public by educated people to maintain safe environment. The faculty members and students of our department were present.

Dr.S.Karunakara., Prof and Head gave vote of thanks.

Fig:1 Speaker addressing Students

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.

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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	**HOD**
Mr. Sampath HP	Dr.S.Karunakara
Assistant Professor	HOD
Department of Mechanical Engineering	Department of Mechanical Engineering