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 2019-20

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.	Advance pipe stress analysis
2	Course on Plumbing
3	Engineer your career

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PRINCIPAL
CITY ENGINEERING COLLEGE
Kanakapura Main Road, Bangalore-560061

CITY ENGINEERING COLLEGE

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

Near Metro Station, Doddakallasandra
Bangalore – 560 062.

Value Added Course on
Advance Pipe Stress Analysis

Date: 07-10-19 to 11-10-19
Venue : Seminar Hall

Organized by
Department of Mechanical Engineering
City Engineering College
Bangalore-560062

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

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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.

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About the Department of Mechanical Engineering

The Department of Mechanical Engineering was established in 2005with 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

Shri Chetan K

Construction Industry Development Academy, Bangalore

Convener

Dr. S. Karunakara

Professor and Head,
Department of Mechanical Engineering.

Coordinator

Mr. Veeresh Naik

Assistant Professor,
Department of Mechanical Engineering.

About Advance Pipe Stress Analysis

Advanced pipe stress analysis is a testing method that uses specialized software and techniques to evaluate the structural integrity and performance of piping systems under various operating conditions. It can help engineers understand how piping systems respond to different loads, such as pressure, temperature, weight, and fluid. This information can help engineers assess the flexibility and stiffness of pipes, and identify potential risks of fatigue and failure. Advanced pipe stress analysis can also help engineers provide design recommendations and documentation.

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Department of Mechanical Engineering

Course on Advance Pipe Stress Analysis

Course Content

Module-1 Basic Stress Concept Role of Stress Engineer, Basic Stress Strain Theories

Module-2 Basic Engineering concepts required for stress analysis Theories of failure Concept of stress Range Theory of load case generation

Module-3 Different types & functions of Pipe support Design system for Sustain, Expansion & Occasional Loading Support Span Calculations Preparing stress Critical line list

Module-4 WRC-107 analysis WRC-297 nozzle flexibility PSV force calculation/ Slug force Stress System formation Storage Tank-pump system modelling Column-heat exchanger model Rupture disk calculation Overview of Critical Systems viz. : Turbine; Pump; Column, Air Fine Cooler etc

Module-5 Spring design & Modelling in Caesar II Bellow Design & Modelling in Caesar II Overview of API 610 Equipment Modelling Pipe Rack Caesar II Model Flange Leakage Stress Intensification Factor

Course Coordinator

Mr. Veeresh Naik
Assistant Professor
Department of Mechanical Engineering

HOD

Dr.S.Karunakara
HOD
Department of Mechanical Engineering

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CITY ENGINEERING COLLEGE

Department of Mechanical Engineering

Course on Advance Pipe Stress Analysis

Course Objectives

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

1. Get familiarising with the tools and equipment.
2. Gain knowledge about tools, equipment & material used in piping work.
3. Gain knowledge about different types of pipes and fittings.
4. Acquire knowledge about skills how to install various types of WCs with flushing cistern, wash basin, sink etc. & their connection with water supply line.

Course Outcomes

The students will be able to:

1. Use of various plumbing tools and equipment while doing plumbing work.
2. Install and repair water supply/waste water drainage line and sanitary fittings and fixtures.
3. Various safety rules related to plumbing work.
4. Timely rectification of the problem/issue.
5. Negotiation skills.

Course Coordinator

Mr. Veeresh Naik
Assistant Professor
Department of Mechanical Engineering

HOD

Dr.S.Karunakara
HOD
Department of Mechanical Engineering

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Doddakallasandra, Bangalore-560061

Department of Civil Engineering

Course on Plumbing

Brochure

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Convenor

Dr. Thippeswamy H N
Professor and Head, Civil Engineering Department, CEC

Coordinator

Mr. Vinay Kumar S N
Assistant Professor Dept. of Civil Engineering, CEC

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About the Civil Engineering Department

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.

Expert Speakers for the Program

Shri K.L. Mohan Rao

Chairman,

Skill Development Builders Association of India.

President,

Construction Industry Development Academy,

Bangalore

About Plumbing

A Plumbing value-added course is designed to helps the student to have an understanding of how Plumbing Engineer supports the Civil Engineer for the plumbing systems outside the building including storm water, sewer, natural gas, fire suppression water, domestic water, irrigation water, and other special water and waste systems.

This course aims to get familiarising with the tools and equipment, gain knowledge about tools, equipment & material used in plumbing work, gain knowledge about different types of pipes and fittings, acquire knowledge about skills how to install various types of WCs with flushing cistern, wash basin, sink etc. & their connection with water supply line.

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CITY ENGINEERING COLLEGE
Doddakallasandra, Bangalore-560061

Department of Civil Engineering

Course on Plumbing

Course Content

Module 1: Introduction to Plumbing, Role of Plumber & its activities, various Plumbing fixtures & layout systems & Basics symbol of Plumbing Drawing.

Module 2: Classification of material required for internal and external plumbing work, Measurement of length, angle, internal and external diameter of a pipe section and fittings & Demonstration of using plumb bob and spirit level.

Module 3: Introduction to tools used in Plumbing, Use of different types of plumbing tools & safety equipment for any fitting & Safety measures while using tools.

Module 4: Introduction to different type of pipes and their use, Handling and fitting of pipes of all types & Types of pipe joints and its importance.

Module 5: Visit to Plumbing Industry.

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

Dr. Thippeswamy H N
HOD
Department of Civil Engineering

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Department of Civil Engineering

Course on Plumbing

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Assistant Professor
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HOD
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Engineer Your Career

VALUE ADDED COURSE

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Department of Computer Science and Engineering

Value Added Course on Engineer Your Career

Syllabus

Module 1: Resume Writing and Personal Branding (6 hours)

Resume Writing

- Importance of a well-crafted resume
- Structure and components of a professional resume
- Tailoring resumes for different job profiles

Personal Branding and Online Presence

- Building a personal brand
- Leveraging LinkedIn and other professional networks
- Creating a strong online presence

Module 2: Aptitude and Technical Test Preparation (6 hours)

Quantitative Aptitude

- Key topics: arithmetic, algebra, geometry, and data interpretation
- Problem-solving techniques
- Practice questions and solutions

Logical Reasoning

- Key topics: puzzles, sequences, analogies, and syllogisms
- Strategies for efficient problem-solving
- Practice questions and solutions

Technical Test Preparation

- Understanding the format of technical tests
- Reviewing core engineering subjects
- Practice questions and solutions

Module 3: Soft Skills and Group Discussions (6 hours)

Communication Skills

- Importance of effective communication in the workplace

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- Verbal and non-verbal communication
- Public speaking and presentation skills

Group Discussions

- Purpose and format of group discussions
- Techniques for effective participation
- Practice sessions with real-time feedback

Module 4: Interview Techniques and Mock Interviews (6 hours)

Interview Preparation

- Types of interviews: HR, technical, behavioral
- Common interview questions and how to answer them
- Researching the company and the role

Mock Interviews

- Conducting mock interviews with industry professionals
- Real-time feedback and improvement tips
- Developing confidence and reducing interview anxiety

Module 5: Professional Etiquette and Career Planning (6 hours)

Professional Etiquette

- Workplace etiquette and professional behavior
- Dressing for success
- Networking and relationship building

Career Planning and Goal Setting

- Identifying career goals and aspirations
- Creating a career roadmap
- Continuous learning and professional development

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Course Outcomes:

- Develop a professional resume and strong online presence
- Enhance aptitude and technical test-taking skills
- Improve communication skills and group discussion techniques
- Master interview techniques and gain confidence through mock interviews
- Understand professional etiquette and plan for a successful career

Co-Ordinator
Mr. Laxmi M C

Mr. Vivekavardhana Reddy
HOD

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