INDIAN INSTITUTION OF INDUSTRIAL ENGINEERING, RGIT



IIIE- student Chapter at Rajiv Gandhi Institute of technology, Andheri(West)-Mumbai aims to spread awareness among the students of the institute about the current trends of the industries and to develop the required skills and qualities among the students so as to make them efficient and industry ready.

Founded in 1957, the **Indian Institution of Industrial Engineering** is a non-profit organization for the profession of Industrial Engineering in India consisting of members specialized in the areas of Work Study, 0 & M., Production Planning & Control, Materials Management, Value Engineering, PERT/CPM, Operations Research, Computer Sciences, Financial Management, Statistical Quality Control etc. and other emerging disciplines. It has been espousing and contributing to Productivity, Quality movement and Cost Competitiveness and other emerging needs of Undertakings in the country during the last five decades.

Faculty Advisor: Dr.. Nitin Panaskar

Program Outcomes (PO) Engineering Graduates will be able to:

- PO1 Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO2 Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3 Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- PO4 Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
- PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO9** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO11 Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- PO12 Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

(UG Program - NBA- Accredited; PG in Heat Power and Ph.D. Technology)

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INDIAN INSTITUTION OF INDUSTRIAL ENGINEERING

INDEX IIIE EVENTS LIST 2021-2022



Sr. No.	Event Name	Date	Speaker
1	INDUSTRY 4.0: SCOPE CHALLENGES IN INDIAN LANDSCAPE	5 th April 2022	Prof. Amitkumar Patil, Assistant Professor, RGIT, Mumbai
2	SEMINAR ON RESUME WRITING AND CV BUILDING	23 rd February 2022	Mr. Vineeth, Senior HR Manager at Verzeo pvt ltd.
3	CASE STUDY COMPETITION ON 'TOTAL QUALITY MANAGEMENT'	23 th April 2022	Industry participants

Dr. N.J. Panaskar Coordinator

MANJARA CHARITABLE TRUST RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI



Indian Institution of Industrial Engineering RGIT Student Chapter

INDUSTRY 4.0: SCOPE CHALLENGES IN INDIAN LANDSCAPE

5th April 2022, Seminar Hall, RGIT

A seminar was conducted by IIIE with collaboration with SWE (Society of women engineers) on INDUSTRY 4.0. The speaker of the seminar was Mr. Amit Patil. He is the assistant professor here at Rajiv Gandhi institute. Mr. Amit Patil holds a master degree in Industrial engineering and has a sound knowledge on the upcoming trends in the industry. The seminar commenced at 11.00 am in the Seminar Hall. The seminar was of 1.00-hour duration. Mr. Panaskar, Mr. Amol Mangrulkar, & Mr. Nilesh Shahapure were also present during the seminar also contributed and gave valuable insights on recent trends of Industry 4.0. Mr. Amit shared with the students, the scope and challenges of adopting INDUSTRIAL REVOLUTION 4.0 here in India. He also added, mere core knowledge of any engineering subject won't be relevant in the coming times and SPECIALIZATION in one of the fields is need of hour, not only in terms of job prospects but also the industrial need. The emerging fields of AI, ML, Data science were also given the equal importance and how these fields will shape the future of Indian Industry. The speaker also added that how Germany pioneered this 4th Industrial revolution and propagation of the same in the world. The industry 4.0 has laid the foundation of the Fifth industrial revolution which will be adopted in the near future.









Vision

To create competent technical professionals in Mechanical Engineering with ethical behaviour and environment consciousness.

Mission

- 1. To provide contemporary and cutting-edge technical education in Mechanical Engineering.
- To provide an ambience which nurtures research ideas in futuristic domains of Mechanical Engineering.
- 3. To initiate project based learning and practical exposures in the area of Mechanical Engineering.
- 4. To direct faculties in research and consultancy / advisory roles.
- 5. To establish strong linkages with well-known national and international technical institutes.
- 6. To promote the culture of imbibing environmental care and eco-friendly designs.
- 7. To become a department of aspiration & choice.

Program Educational Objectives (PEOs)

PEO1: To prepare the stakeholder to exhibit leadership qualities with demonstrable attributes in lifelong learning to contribute to the societal needs.

PEO2: To make ready the stakeholder to pursue higher education for professional development.

PEO3: To help the stakeholder to acquire the analytical and technical skills, knowledge, analytical ability attitude and behavior through the program.

PEO4: To prepare the stakeholders with a sound foundation in the mathematical, scientific and engineering fundamentals.

PEO5: To motivate the learner in the art of self-learning and to use modern tools for solving real life problems and also inculcate a professional and ethical attitude and good leadership qualities.

PEO6: To prepare the stake holder to able to Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

Program Specific Outcomes (PSOs)

PSO1:Successful Career and Entrepreneurship: Graduates will be able to understand the social-awareness and environmental wisdom along with ethical responsibility to have a successful career and to sustain passion and zeal for real-world applications using optimal resources as an entrepreneur.

PSO2: Hobbies and Career: Graduates have nurtured their hobbies which are useful in their specific chosen career.









SEMINAR ON RESUME WRITING AND CV BUILDING'

DATE: 23RD FEBRUARY 2022 TIMING: 6.00-7.00 PM

The seminar on Resume writing and CV improvement was conducted by Mr. Vineeth, senior HR manager at Verzeo pvt ltd. The seminar was conducted in the ONLINE mode on google meet platform. The event helped students to gain valuable insights on HOW TO BUILD A GREAT RESUME, its various layouts, the accepted structure of the resume, WHAT DO HR'S look for in the candidate's profile while applying for a specific position. Mr. Vineeth also threw light on the recent trends in the today's job market and specializing in particular field of interest is key to get the job one has always desired. The extra-curricular activities and internship experience also play an important role in cracking the HR or the technical round of the job interview process. The seminar ended with Mr.Vineeth resolving various doubts and queries regarding the topic and giving appreciated advice for writing a great resume to the students.



TOTAL QUALITY MANAGEMENT CASE STUDY COMPETITION

About TQM Case Study Competition

The competition is based on improvement in Productivity through application of Total Quality Management techniques. The competition is aimed at promoting innovation and augmenting productivity at work. Any industry/ organization engaged in manufacturing or service can participate in the competition by sending a case study of Total Quality Management undertaken by the organization.

The case study can be in any area of the company where improvement of productivity has been achieved by implementation of Total Quality Management techniques. All the relevant details of the results achieved should be supported and authorized by the organization.

Objectives

- Create awareness on the importance of total Quality Management in achieving economic growth.
- Recognize efforts of Companies who have achieved excellence in total quality management.
- Emphasize the fact that quality and productivity enhancements have high impact on sustainability and future growth of the economy.

Contents

Topics includes Six Sigma, Customer focus, Leadership, People involvement, Process approach, Systematic approach to management, System Integration, Continual improvement, Factual Approach to Decision Making, Supplier Relations, Communications, Process Improvement & any other topic related to Total Quality Management.

TQM Case study Presentation Topic: Continual improvement over thimble tapping time to get it's sustainability on field

Company Name: M/S Chakradhar Industries LLP, Vasai East

Presenters:

- 1. Shivaan Munsif
- 2. Kunal Bhoir
- 3.Akash Shelar
- 4. Pranit Sovilkar

TOTAL QUALITY MANAGEMENT CASE STUDY COMPETITION



MANJARA CHARITABLE TRUST RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI (Permanently Affiliated to University of Mumbai)

Department of Mechanical Engineering

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NSTITUTION'S

INNOVATION

COUNCIL

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Dr. N.J. Panaskar IIIE Convenor