



INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

ACTIVITY NAME:

“Expert Session on Basics of Quality Concepts”

DATE OF ACTIVITY: 26TH May, 2023

ACTIVITY COORDINATOR: Mr. Vipin Patel



ACTIVITY REPORT

Academic Year -2022-2023

Session: Jan – June 2023

Name of Event: **Expert Session on Quality Concepts**Date of Event: **26 May 2026,**Topic: **Quality Concepts**Organizing Dept.: **ME**Event Coordinator: **Mr. Vipin Patel**Name of Partner / co-organizer (If Industry is involved): **QCFI, ECV, Pithampur**Contact No.: **9826041884**Email Id: **ecvpithampur@gmail.com**

Details of Participants:

| No. of Institutes Participated | No. of Students Participated | Department | No. of Industry Representative | Remark if any |
|--------------------------------|------------------------------|-------------------------|--------------------------------|---------------|
| | | CSE/IT/EC/ME/CM/ES H | | |
| 01 | 52 | ME | 01 | |

HOD
(ME)

Principal

Opposite Indian Institute of Management, Rau - Pithampur Rd, Rau, Indore, M.P. 453331
Toll Free: 1800 103 3069

APPROVAL LETTER

Date: 19/05/2023

To,

The Principal
Indore Institute of Science and Technology
Indore

Subject: Approval for Expert Session on Quality Concepts

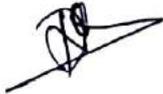
Respected sir,

We are planning an expert Session for ME students on Quality Concepts on 26/05/2023. It will be a 2 Hr. lecture for which the expert has been invited from QCFI,ECV, Pithampur. Kindly approve the same.

Thanking You

Yours faithfully

Mr. Vipin Patel,
Assistant Professor
Mechanical Engineering Department
IIST Indore


HOD (ME)

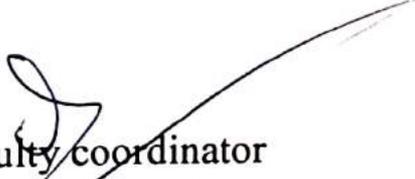

Principal

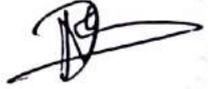


Date: 23/05/2023

NOTICE

This is to inform all the 2nd & 3rd Year Mechanical Engineering students that an expert session is being organized on 26th May 2023 on Quality Concepts. It is mandatory for all students to attend the same.


Faculty coordinator
Mr. Vipin Patel


HOD
ME

Opposite Indian Institute of Management, Rau - Pithampur Rd, Rau, Indore, M.P. 453331

Toll Free: 1800 103 3069



CONTENTS

| S.No. | TOPIC |
|-------|---|
| 1 | Definitions and Concepts |
| 2 | Understanding Variation Defining Quality |
| 3 | Fundamentals of Process Control Cause and Effect |
| 4 | Basic Quality Improvement Tools |
| 5 | Pareto Charts Run Charts and Control Charts Scatter Plots |
| 6 | Check Sheets Box Plots Histograms Cause & Effect Diagram |
| 7 | Query Solving |

Opposite Indian Institute of Management, Rau - Pithampur Rd, Rau, Indore, M.P. 453331

Toll Free: 1800 103 3069



OBJECTIVES & OUTCOMES

OBJECTIVES

1. To learn about Basic Terminology of Quality
2. To learn about Variation and defining Quality
3. To learn about Fundamentals of Process Ctrl
4. To know Basic Quality Improving Tools
5. To learn Cause and effect diagram.

OUTCOMES

- 1.1 Explain Definitions and Concepts
- 2.1 Understanding the Variation
- 2.2 Defining Quality
- 3.1 Fundamentals of Process Control
- 4.1 Basic Quality Improvement Tools
- 4.2 Pareto Charts
- 4.3 Run Charts and Control Charts
- 4.4 Check Sheets
- 4.5 Box Plots
- 4.6 Histograms
- 4.7 Scatter Plots
- 5.1 Explain Cause & Effect Diagram



INDUSTRY PROFILE

Quality Circle Forum of India was registered as a non-profit and non-political organization under AP Public Society's Act On 31st December 1982. QCFI is recognized as the institution representing the Quality Circle Movement In India and has represented the country in several international forums. The organization has successfully implemented Quality concepts under the TQM umbrella across several industry verticals who have experienced a phenomenal enhancement of their work processes and productivity after implementation of Quality Concept Tools.

QCFI represents India in the 14 nation International Committee that has been set up for organizing International conventions on Quality Concept Circle, annually. To date, QCFI has organized three International convention in India. In addition, chapter convention and National convention are held every year where members present case studies and technical papers are discussed by leading Quality Concept Practitioners. In-house Training and Orientation Programs is QCFI's main strengths and has conducted numerous such training programs effectively. These in-house programs are based on Quality Circles integrated with TQM and related concepts.



Department of Mechanical Engineering
LIST OF PARTICIPANTS

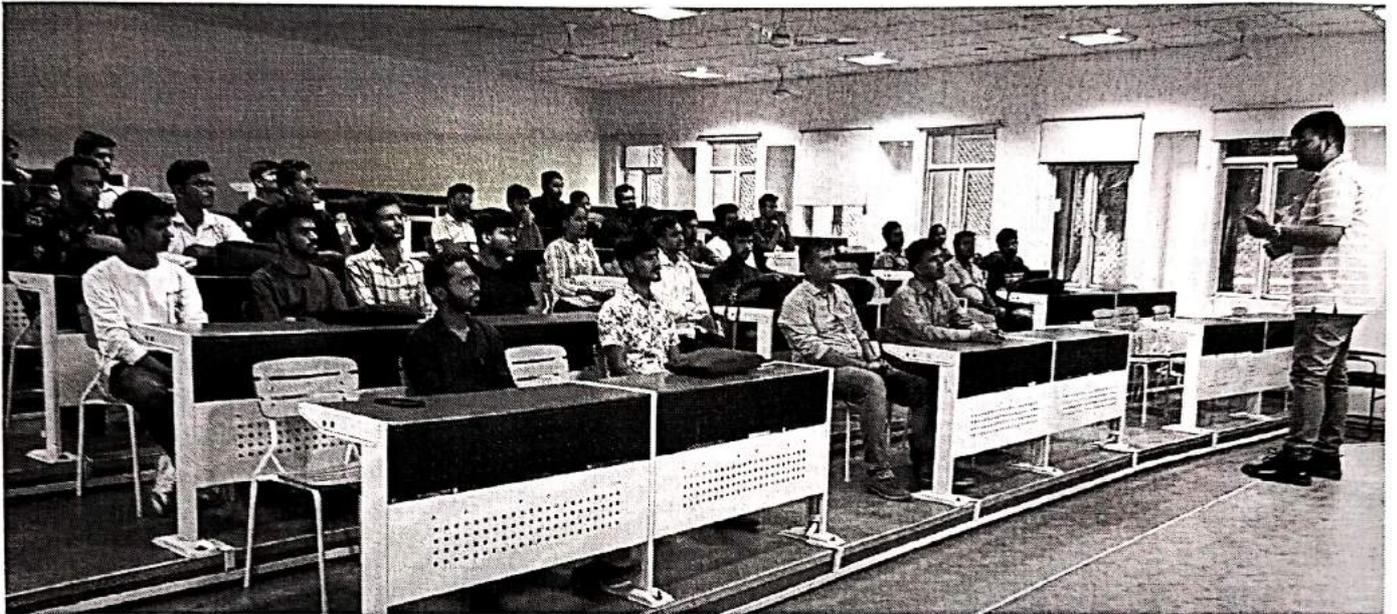
| | | | | | |
|----|-------------------------------|--------------|----|--------------------------|--------------|
| 1 | ABHINESH ANURAGI | 0818ME211001 | 28 | NITEESH KUMAR SAKET | 0818ME211030 |
| 2 | ABHISHEK PURI | 0818ME211002 | 29 | NITIN KUSHWAH | 0818ME211031 |
| 3 | ADITYA DUKARIYA | 0818ME211004 | 30 | PRAJJWAL PAL | 0818ME211032 |
| 4 | ADITYA YADAV | 0818ME211005 | 31 | RAJ AMOLE | 0818ME211033 |
| 5 | AKASH PANDAGRE | 0818ME211006 | 32 | ROHAN KUMAR | 0818ME211034 |
| 6 | ARSHAD SHAIKH | 0818ME211008 | 33 | ROHIT PANDORJA | 0818ME211035 |
| 7 | ARYAN NARVARIYA | 0818ME211009 | 34 | SANDEEP BALODIYA | 0818ME211037 |
| 8 | ASMIT VERMA | 0818ME211010 | 35 | SATYABRAT MISHRA | 0818ME211038 |
| 9 | AVADHESH PRATAP SINGH HADA | 0818ME211011 | 36 | SHUBHAM KOTHARE | 0818ME211039 |
| 10 | CHIRAG SARSONIYA | 0818ME211012 | 37 | SUNIL DHOTE | 0818ME211040 |
| 11 | DEEPTI VERMA | 0818ME211013 | 38 | TANISH SHARMA | 0818ME211041 |
| 12 | DEV PANWAR | 0818ME211014 | 39 | UJJAWAL PATIDAR | 0818ME211042 |
| 13 | DHANESH BAWANYA | 0818ME211015 | 40 | VASU NAGAR | 0818ME211043 |
| 14 | FAIZAN MANSURI | 0818ME211016 | 41 | VINAYAK RAJBHAR | 0818ME211044 |
| 15 | GAGAN PATIDAR | 0818ME211017 | 42 | YASHWARDHAN CHOUDHARY | 0818ME211045 |
| 16 | GOURAV MISHRA | 0818ME211018 | 43 | YUVANSH SHAH | 0818ME211046 |
| 17 | HARSHIT JAGTAP | 0818ME211019 | 44 | CHIRAG SHINDHVE | 0818ME221004 |
| 18 | HARSHIT KADAM | 0818ME211020 | 45 | ABHIJEET CHANGAL | 0818ME221001 |
| 19 | JAY BARANIYA | 0818ME211021 | 46 | VEDANSH PATIDAR | 0818ME221011 |
| 20 | KAMAL PARIHAR | 0818ME211022 | 47 | KARTIK PATIDAR | 0818ME221008 |
| 21 | KEVANSINGH KAMLIYA | 0818ME211023 | 48 | ALOK CHOUHAN | 0818ME221002 |
| 22 | KRISH SHRIWAS | 0818ME211024 | 49 | DEVENDRA PARWAR | 0818ME221005 |
| 23 | KUNAL JOSHI | 0818ME211025 | 50 | KARAN SOLANKI | 0818ME221007 |
| 24 | MAHESH JADHAV | 0818ME211026 | 51 | VANSHRAJ CHOUHAN | 0818ME221D01 |
| 25 | MOHIT NAGVANSHI | 0818ME211027 | 52 | HARSH MISHRA | 0818ME221D02 |
| 26 | NAMAN TAMRAKAR | 0818ME211028 | | | |
| 27 | NIKHIL BEDI | 0818ME211029 | | | |

Opposite Indian Institute of Management, Rau - Pithampur Rd, Rau, Indore, M.P. 453331

Toll Free: 1800 103 3069



PHOTO



Opposite Indian Institute of Management, Rau - Pithampur Rd, Rau, Indore, M.P. 453331

Toll Free: 1800 103 3069



EVENT FEEDBACK FORM

| S.No. | |
|-------|--|
| 1. | The trainer was having complete knowledge of the subject <input type="radio"/> Strongly agree <input type="radio"/> Agree <input type="radio"/> Partially agree <input type="radio"/> Disagree <input type="radio"/> Don't know |
| 2. | The trainer was well-prepared for the sessions <input type="radio"/> Strongly agree <input type="radio"/> Agree <input type="radio"/> Partially agree <input type="radio"/> Disagree <input type="radio"/> Don't know |
| 3. | The content of the training was useful. <input type="radio"/> Strongly agree <input type="radio"/> Agree <input type="radio"/> Partially agree <input type="radio"/> Disagree <input type="radio"/> Don't know |
| 4. | The content of the training was well-planned. <input type="radio"/> Strongly agree <input type="radio"/> Agree <input type="radio"/> Partially agree <input type="radio"/> Disagree <input type="radio"/> Don't know |
| 5. | The Content delivery by the trainer was excellent. <input type="radio"/> Strongly agree <input type="radio"/> Agree <input type="radio"/> Partially agree <input type="radio"/> Disagree <input type="radio"/> Don't know |
| 6. | The knowledge and skills gained from the training helped me in improve my skills. <input type="radio"/> Strongly agree <input type="radio"/> Agree <input type="radio"/> Partially agree <input type="radio"/> Disagree <input type="radio"/> Don't know |
| 7. | The technical aspects covered were of advanced level <input type="radio"/> Strongly agree <input type="radio"/> Agree <input type="radio"/> Partially agree <input type="radio"/> Disagree <input type="radio"/> Don't know |
| 8. | The training has met the stated objectives fully. <input type="radio"/> Strongly agree <input type="radio"/> Agree <input type="radio"/> Partially agree <input type="radio"/> Disagree <input type="radio"/> Don't know |
| 9. | I would be interested in attending more training programmes like this <input type="radio"/> Strongly agree <input type="radio"/> Agree <input type="radio"/> Partially agree <input type="radio"/> Disagree <input type="radio"/> Don't know |
| 10. | Are you satisfied with this event <input type="radio"/> Strongly Satisfied <input type="radio"/> Satisfied <input type="radio"/> Partially Satisfied <input type="radio"/> Unsatisfied <input type="radio"/> Don't know |

Opposite Indian Institute of Management, Rau - Pithampur Rd, Rau, Indore, M.P. 453331

Toll Free: 1800 103 3069



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE

DEPARTMENT OF MECHANICAL ENGINEERING

EXPERT SESSION ON QUALITY CONCEPTS 26/05/2023

ATTENDANCE

| S.no. | Name of the student | Enrollment Number | Signature | S.no. | Name of the student | Enrollment Number | Signature |
|-------|----------------------------|-------------------|-------------------|-------|-----------------------|-------------------|-------------------------|
| 1 | ABHINAV ANURAGI | 0818ME211001 | <i>Abhinav</i> | 28 | NITESH KUMAR SAKET | 0818ME211030 | <i>Nitesh</i> |
| 2 | ABHISHEK PURI | 0818ME211002 | <i>Abhishek</i> | 29 | NETIN KUSHWAH | 0818ME211031 | <i>Netin</i> |
| 3 | ADITYA DUKARIYA | 0818ME211004 | <i>Aditya</i> | 30 | PRAJWAL PAI | 0818ME211032 | <i>Prajwal</i> |
| 4 | ADITYA YADAV | 0818ME211005 | <i>Aditya</i> | 31 | RAJANOLI | 0818ME211033 | <i>Rajanoli</i> |
| 5 | AKASH PANDAURE | 0818ME211006 | <i>Akash</i> | 32 | ROHAN KUMAR | 0818ME211034 | <i>Rohan</i> |
| 6 | ARSHAD SHAIKH | 0818ME211008 | <i>Arshad</i> | 33 | ROHIT PANDORIA | 0818ME211035 | <i>Rohit</i> |
| 7 | ARYAN NARVARIYA | 0818ME211009 | <i>Aryan</i> | 34 | SANDEEP BALODIYA | 0818ME211037 | <i>Sandeep</i> |
| 8 | ASMIT VERMA | 0818ME211010 | <i>Asmit</i> | 35 | SATYABRAT MISHRA | 0818ME211038 | <i>Satyabrat Mishra</i> |
| 9 | AVADHESH PRATAF SINGH HADA | 0818ME211011 | <i>Avadhesh</i> | 36 | SHUBHAM KOTHARE | 0818ME211039 | <i>Shubham</i> |
| 10 | CHIRAG SARSONIYA | 0818ME211012 | <i>Chirag</i> | 37 | SUNIL DHOTI | 0818ME211040 | <i>Sunil</i> |
| 11 | DEEPTI VERMA | 0818ME211013 | <i>Deepti</i> | 38 | TANISH SHARMA | 0818ME211041 | <i>Tanish</i> |
| 12 | DEV PANWAR | 0818ME211014 | <i>Dev</i> | 39 | UJJWAL PATIDAR | 0818ME211042 | <i>Ujjwal</i> |
| 13 | DHANESH BAWANYA | 0818ME211015 | <i>Dhanesh</i> | 40 | VANU NAGAR | 0818ME211043 | <i>Vanu</i> |
| 14 | FAIZAN MANSURI | 0818ME211016 | <i>Faizan</i> | 41 | VINAYAK RAJHAR | 0818ME211044 | <i>Vinayak</i> |
| 15 | GAGAN PATIDAR | 0818ME211017 | <i>Gagan</i> | 42 | YASHWARDHAN CHOUDHARY | 0818ME211045 | <i>Yashwardhan</i> |
| 16 | GOURAV MISHRA | 0818ME211018 | <i>Gourav</i> | 43 | YUVANSHI SHAH | 0818ME211046 | <i>Yuvanshi</i> |
| 17 | HARSHIT JAGTAP | 0818ME211019 | <i>Harshit</i> | 44 | CHIRAG SHINDHIVE | 0818ME221004 | <i>Chirag</i> |
| 18 | HARSHIT KADAM | 0818ME211020 | <i>Harshit</i> | 45 | ABHISHEK CHANGAL | 0818ME221001 | <i>Abhishek</i> |
| 19 | JAY BARANIYA | 0818ME211021 | <i>Jay</i> | 46 | VEDANSHI PATIDAR | 0818ME221011 | <i>Vedanshi</i> |
| 20 | KAMAL PARIHAR | 0818ME211022 | <i>Kamal</i> | 47 | KARTIK PATIDAR | 0818ME221008 | <i>Kartik</i> |
| 21 | KEVANSINGH KAMLIYA | 0818ME211023 | <i>Kevansingh</i> | 48 | ALOK CHOULHAN | 0818ME221002 | <i>Alok</i> |
| 22 | KRISH SHRIWAS | 0818ME211024 | <i>Krish</i> | 49 | DEVENDRA PARWAR | 0818ME221005 | <i>Devendra</i> |
| 23 | KUNAL JOSHI | 0818ME211025 | <i>Kunal</i> | 50 | KARAN SOLANKI | 0818ME221007 | <i>Karan</i> |
| 24 | MAHESH JADHAV | 0818ME211026 | <i>Mahesh</i> | 51 | VANSHIKAT CHOULHAN | 0818ME221001 | <i>Vanshikat</i> |
| 25 | MOHIT NAGVANSHI | 0818ME211027 | <i>Mohit</i> | 52 | HARSH MISHRA | 0818ME221002 | <i>Harsh</i> |
| 26 | NAMAN TAMBAKAR | 0818ME211028 | <i>Naman</i> | | | | |
| 27 | NIKHIL BEDI | 0818ME211029 | <i>Nikhil</i> | | | | |

MR. VINAY PATEL

FACULTY COORDINATOR





Opposite Indian Institute of Management, Rau - Pithampur Rd, Rau, Indore, M.P. 453331
Toll Free: 1800 103 3069

| S.No. | Strongly Agree | Agree | Neutral | Partially Agree | Disagree | Count | Total |
|-------|----------------|-------|---------|-----------------|----------|-------|-------|
| Q.1 | 34 | 11 | 7 | 0 | 0 | 52 | 235 |
| Q.2 | 32 | 14 | 6 | 0 | 0 | 52 | 234 |
| Q.3 | 28 | 15 | 9 | 0 | 0 | 52 | 227 |
| Q.4 | 42 | 5 | 2 | 0 | 0 | 52 | 236 |
| Q.5 | 38 | 10 | 4 | 0 | 0 | 52 | 242 |
| Q.6 | 37 | 8 | 7 | 0 | 0 | 52 | 238 |
| Q.7 | 28 | 19 | 5 | 0 | 0 | 52 | 231 |
| Q.8 | 34 | 10 | 8 | 0 | 0 | 52 | 234 |
| Q.9 | 42 | 9 | 1 | 0 | 0 | 52 | 249 |
| Q.10 | 37 | 8 | 7 | 0 | 0 | 52 | 238 |
| | 5 | 4 | 3 | 2 | 1 | | |

QUESTION WISE FEEDBACK REPORT

EVENT SUMMARY

An expert lecture on Quality was organized by Department of Mechanical Engineering on 26/05/2023 11 am onwards at Seminar Hall III. The topic for the expert Session was Quality Concepts. The expert for the session was Mr. Abhishek Jain, Quality Head, ECV Ltd. Pithampur.

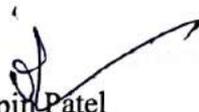
The session started with the floral welcome of the guest by HOD Mechanical Engineering Dr. D.V.Singh. Dr. Keshav Patidar, Principal, IIST brief the students on the importance of Quality Ctrl in product development. After this Mr. Abhishek started the session by introduction to Quality.

He thoroughly explained the Basics of quality ctrl. The terms like variation, Quality, Process ctrl, cause & effect were firstly discussed. After a short break quality improvement tools were explained by the expert. After this he went on to cover the cause and effect diagram.

The students got benefited in the form of gaining the knowledge on Quality Concepts.

At the end of the session Mr. Abhishek answered all the queries asked by the students. The Vote of thanks was given by Faculty Coordinator Mr. Vipin Patel.

Faculty Coordinator



Mr. Vipin Patel

Assistant Professor,

ME Dept., IIST



PO/PSO/PEO MAPPING

| S.No. | Name of Activity | Type | PO/PSO/PEO Mapping |
|-------|------------------------------------|----------------|--------------------|
| 1. | Expert Session on Quality Concepts | Expert Session | PO2,PO4,PSO2,PEO1 |

Opposite Indian Institute of Management, Rau - Pithampur Rd, Rau, Indore, M.P. 453331
Toll Free: 1800 103 3069

