# CERTIFICATION COURSE ON **IMPORTANCE OF NDT IN QUALITY & ENERGY SECTOR** (2022-23) SEM-II

# ADITYA COLLEGE OF ENGINEERING

Approved by AICTE, Permanently Affiliated to JNTUK, Accredited by NBA & NAAC
Recognized by UGC under Sections 2(f) and 12(B) of UGC Act, 1956
Aditya Nagar, ADB Road, Surampalem - 533 437, E.G.Dist., Ph: 99631 76662.


Date: 10-02-2023

From,

The Head of the department,

Mechanical Engineering,

Aditya College of Engineering,

Surampalem.

To

The Principal,

Aditya college of Engineering,

Surampalem.

Sir,

**Sub:** Seeking permission to conduct certification course on "Importance of NDT in Quality & Energy Sector" for the academic year 2022-23 – Reg.

We would like to conduct certification course on "Importance of NDT in Quality & Energy Sector" for IV B.Tech mechanical engineering students from 20-02-2023 to 24-02-2023 to bridge the gap between industry and academics and make students globally competitive and employable. The course will be handled by Mr. D. Satish Trainer VIDAL NDT and Mr. M Premkumar Reddy, Assistant professor, ME Department, ACOE. In this regard I request you to grant the permission to conduct the said course.

Thanking you,

Yours sincerely

HOD ME

Head of the Department
Mechanical Engineering
Aditya College of Engineering
SURAMPALEM-533 437

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DEPARTMENT OF MECHANICAL ENGINEERING

## CIRCULAR

Date: 13.02.2023

All the IV B.TECH students are hereby informed that a new course titled, "Importance of NDT in Quality & Energy Sector " will be organized by the department of mechanical engineering to bridge the gap between industry and academics and make students globally competitive and employable. Contact classes are scheduled to conduct from 20th February 2023 to 24th February 2023 and interested students are required to register with the Head of the department, ME on or before 18.02.2023.

Complete details and course structure will be displayed in department notice board.

HOD ME

Head of the Department
Mech
Aditya College of Engineering
SURAMPALEM-533 437

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## Department of Mechanical Engineering

### Certification course on Importance of NDT in Quality & Energy Sector

### Resource Person Profile


**Name:** Mr. D Satish

**Designation:** Trainer

**Organization:** Vidal NDT

**Email-Id:** satish@vidalndt.com

**Phone No:** 8886082111


**Qualification:** M.Tech

**Experience:** 6

### Resource Person Profile


**Name:** Mr. M Premkumar Reddy

**Designation:** Assistant Professor

**Organization:** Aditya college of Engineering

**Email-Id:** premkumar_bse@acoe.edu.in

**Phone No:** 9000524255


**Qualification:** M.Tech

**Experience:** 6

## Certification course on

## Importance of NDT in Quality & Energy Sector

**20th February to 24th February 2023**

# ADITYA COLLEGE OF ENGINEERING

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## Department of MechanicalEngineering


### ABOUT THIS COURSE

This course aims to provide participants with a comprehensive understanding of the significance of Non-Destructive Testing (NDT) in the quality and energy sectors. The course will cover various NDT techniques, their applications, and their role in ensuring the integrity, safety, and efficiency of structures and components in these industries.

### About ADITYA COLLEGE OF ENGINEERING

Aditya College of Engineering(ACOE) was established in the year 2008. It is a top ranked institution in engineering education in terms of academics & placements. The college offers UG programs in EEE, ECE, ME, CSE & PT and PG programs in MBA&M.Tech (PE, PID, VLSID, ES, and CSE). ACOE is situated in a serene, scenic, Wi-Fi enabled campus in Surampalem (between Kakinada and Rajahmundry in East Godavari District of Andhra Pradesh)

### Course Objective

- Understand the Fundamental Principles of NDT.
- Evaluate NDT Applications in Quality Assurance.
- Examine NDT's Role in the Energy Sector.
- Apply Advanced NDT Techniques.

**Who Should Attend:** IV B.Tech Students of ACOE.

**Duration:** Five Days (30 hours).

| Date | Course Outline and Schedule |
|---|---|
| 20-02-2023 | Introduction to NDT, Basic Principles of NDT |
| 21-02-2023 | Applications of NDT in Quality Assurance |
| 22-02-2023 | NDT in the Energy Sector |
| 23-02-2023 | Advanced NDT Techniques |
| 24-02-2023 | Regulatory Compliance and Safety in NDT, Case Studies Conduct Exam and Issue Certificate. |

**For More Details Contact:**
Dr. D.V.S.S.S.V PRASAD,
Professor, ME Dept.
ACOE, Surampalem
Mobile: 9492508781.

**Convener:**
Dr. Y.K.S.Subba Rao,
Professor, HOD, ME Dept.
ACOE, Surampalem
Mobile: 7989315140.

**Venue:** E-Classroom, 2nd Floor, James Watt Bhavan,
Aditya College of Engineering, Surampalem

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## DEPARTMENT OF MECHANICAL ENGINEERING

## CERTIFICATION COURSE ON Importance of NDT in Quality & Energy Sector
## ( 20th February To 24th February 2023)

### Schedule

| S.No | Date | Time | Schedule |
|---|---|---|---|
| 1 | 20.02.2023 | 9:30 AM to 11:30AM | Introduction to NDT |
| | | 11:30AM to 11:45AM | Tea Break |
| | | 11:45AM to 01:15PM | Overview of different NDT methods (Radiography, Ultrasonics, Magnetic Particle Testing, etc.) |
| | | 01:15PM to 02:00PM | Lunch Break |
| | | 02:00PM to 04:15 PM | Selection criteria for specific applications |
| 2 | 21.02.2023 | 9:30 AM to 11:30AM | Applications of NDT in Quality Assurance , NDT in manufacturing processes |
| | | 11:30AM to 11:45AM | Tea Break |
| | | 11:45AM to 01:15PM | Quality control and assurance through NDT |
| | | 01:15PM to 02:00PM | Lunch Break |
| | | 02:00PM to 04:15 PM | Case studies and real-world examples |
| 3 | 22.02.2023 | 9:30 AM to 11:30AM | Role of NDT in the oil and gas industry |
| | | 11:30AM to 11:45AM | Tea Break |
| | | 11:45AM to 01:15PM | NDT applications in power generation |
| | | 01:15PM to 02:00PM | Lunch Break |
| | | 02:00PM to 04:15 PM | Inspection and maintenance in the energy sector |
| 4 | 23.02.2023 | 9:30 AM to 11:30AM | Phased Array Ultrasonics, Guided Wave Testing |
| | | 11:30AM to 11:45AM | Tea Break |
| | | 11:45AM to 01:15PM | Eddy Current Testing, Advanced Radiographic Techniques |
| | | 01:15PM to 02:00PM | Lunch Break |
| | | 02:00PM to 04:15 PM | International standards and regulations, Safety protocols in NDT |
| 5 | 24.02.2023 | 9:30 AM to 11:30AM | Ethical considerations in NDT practices, Analysis of real-world case studies |
| | | 11:30AM to 11:45AM | Tea Break |
| | | 11:45AM to 01:15PM | Hands-on exercises with NDT equipment |
| | | 01:15PM to 02:00PM | Lunch Break |
| | | 02:00PM to 04:15 PM | Q&A sessions<br>Conduct exam & issue certificate |

COORDINATOR

HOD-ME

Head of the Department
Mechanical Engineering
Aditya College of Engineering
SURAMPALEM-533 437

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## Department of Mechanical Engineering

### Importance of NDT in Quality & Energy Sector – ME22301
### Academic Year 2022-23

**COURSE OBJECTIVES:**

- Understand the Fundamental Principles of NDT.
- Evaluate NDT Applications in Quality Assurance.
- Examine NDT's Role in the Energy Sector.
- Apply Advanced NDT Techniques.

**Module 1: Introduction to NDT** Definition and significance of NDT, Historical background, Evolution and advancements in NDT technology

**Module 2: Basic Principles of NDT**

Overview of different NDT methods (Radiography, Ultrasonics, Magnetic Particle Testing, etc.), Principles and working mechanisms of each method, Selection criteria for specific applications

**Module 3: Applications of NDT in Quality Assurance**

NDT in manufacturing processes, Quality control and assurance through NDT, Case studies and real-world examples

**Module 4: NDT in the Energy Sector** Role of NDT in the oil and gas industry, NDT applications in power generation, Inspection and maintenance in the energy sector

**Module 5: Advanced NDT Techniques** Phased Array Ultrasonics, Guided Wave Testing, Eddy Current Testing, Advanced Radiographic Techniques

**Module 6: Regulatory Compliance and Safety in NDT, Case Studies and Practical Exercises** International standards and regulations, Safety protocols in NDT, Ethical considerations in NDT practices, Analysis of real-world case studies, Hands-on exercises with NDT equipment, Q&A sessions.

**COURSE OUTCOMES:**

- Demonstrate Proficiency in Basic NDT Techniques.
- Apply NDT Principles to Quality Assurance Practices.
- Evaluate NDT Applications in Energy Sector Integrity.
- Utilize Advanced NDT Techniques in Practical Scenarios.

**Course curriculum prepared by** : Mr. D Satish, Trainer, Vidal NDT & Mr. M Premkumar Reddy, Assistant Professor, ME Dept, ACOE

COORDINATOR HOD ME PRINCIPAL

PRINCIPAL
Aditya College of Engineering
SURAMPALEM - 533 437

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## Department of Mechanical Engineering

### List of ME Students Enrolled in Importance of NDT in Quality & Energy Sector Certification Course

| S.NO | Regd.No | Student Name | YEAR/ Branch | Name of The Course |
|---|---|---|---|---|
| 1 | 19MH1A0301 | AGOOR MONYLOBI DENG DHONG | IV ME | Importance of NDT in Quality & Energy Sector |
| 2 | 19MH1A0302 | KAKULA CHETHAN HARSHA VARDHAN | IV ME | Importance of NDT in Quality & Energy Sector |
| 3 | 19MH1A0303 | LALAM SIVA PRASAD | IV ME | Importance of NDT in Quality & Energy Sector |
| 4 | 19MH1A0304 | MD ABDULLAH AL MAMUN | IV ME | Importance of NDT in Quality & Energy Sector |
| 5 | 19MH1A0305 | MONYWAL ELIJAH KUCH ABEL | IV ME | Importance of NDT in Quality & Energy Sector |
| 6 | 20MH5A0301 | AFTAB A ALAM | IV ME | Importance of NDT in Quality & Energy Sector |
| 7 | 20MH5A0302 | AKULA SRINIVAS | IV ME | Importance of NDT in Quality & Energy Sector |
| 8 | 20MH5A0303 | ANDE VEERAKUMAR | IV ME | Importance of NDT in Quality & Energy Sector |
| 9 | 20MH5A0304 | BALLA PREM GANAPATHI | IV ME | Importance of NDT in Quality & Energy Sector |
| 10 | 20MH5A0305 | BARRE DEEPAK VARMA | IV ME | Importance of NDT in Quality & Energy Sector |
| 11 | 20MH5A0306 | BOCHULA PHANI BHUSHAN | IV ME | Importance of NDT in Quality & Energy Sector |
| 12 | 20MH5A0307 | BOSETTI SATYA SAI RAM | IV ME | Importance of NDT in Quality & Energy Sector |
| 13 | 20MH5A0308 | CHINTALA MANOJ RAM | IV ME | Importance of NDT in Quality & Energy Sector |
| 14 | 20MH5A0309 | CHOUDALLA TEJA MADHU KRISHNASUDHEER | IV ME | Importance of NDT in Quality & Energy Sector |
| 15 | 20MH5A0310 | DASARI CHANDRA SHEKHAR | IV ME | Importance of NDT in Quality & Energy Sector |
| 16 | 20MH5A0311 | DESILINKA KRISHNARJUNAPRASAD | IV ME | Importance of NDT in Quality & Energy Sector |
| 17 | 20MH5A0312 | DONE SRI DATTA SAI GANGADHAR | IV ME | Importance of NDT in Quality & Energy Sector |
| 18 | 20MH5A0313 | GANDIKOTA NANI LOVA VARA PRASAD | IV ME | Importance of NDT in Quality & Energy Sector |

| S.NO | Regd.No | Student Name | YEAR/ Branch | Name of The Course |
|---|---|---|---|---|
| 19 | 20MH5A0314 | GANDIPADALA VIJAYA MOULI | IV ME | Importance of NDT in Quality & Energy Sector |
| 20 | 20MH5A0315 | GANJI SINGA SAI RAM | IV ME | Importance of NDT in Quality & Energy Sector |
| 21 | 20MH5A0316 | GEDDAM NAGENDRA | IV ME | Importance of NDT in Quality & Energy Sector |
| 22 | 20MH5A0317 | GOPI HARSHAVARDHAN | IV ME | Importance of NDT in Quality & Energy Sector |
| 23 | 20MH5A0318 | GORLU SUDHEER | IV ME | Importance of NDT in Quality & Energy Sector |
| 24 | 20MH5A0319 | GUBBALA SAI SURESH | IV ME | Importance of NDT in Quality & Energy Sector |
| 25 | 20MH5A0320 | JILAKARRA RAVI KUMAR | IV ME | Importance of NDT in Quality & Energy Sector |
| 26 | 20MH5A0321 | KALAGA UDAY HARSHIT | IV ME | Importance of NDT in Quality & Energy Sector |
| 27 | 20MH5A0322 | KAMIDI KEERTHI VENKATA DURGA PRASAD | IV ME | Importance of NDT in Quality & Energy Sector |
| 28 | 20MH5A0323 | KARRI VENKATA SIVA DURGA | IV ME | Importance of NDT in Quality & Energy Sector |
| 29 | 20MH5A0324 | KODURI SURYA NAGA DURGA VARA PRASAD | IV ME | Importance of NDT in Quality & Energy Sector |
| 30 | 20MH5A0325 | KOKA KRISHNA KIREETUDU | IV ME | Importance of NDT in Quality & Energy Sector |
| 31 | 20MH5A0326 | KOMMURU SIVAJI | IV ME | Importance of NDT in Quality & Energy Sector |
| 32 | 20MH5A0327 | KOPPISETTI CHANDU SAI VENKATA GANESH | IV ME | Importance of NDT in Quality & Energy Sector |
| 33 | 20MH5A0328 | KOPPISETTI LIKHITH VENKAT VINAY | IV ME | Importance of NDT in Quality & Energy Sector |
| 34 | 20MH5A0329 | TUMMURI LEELA SATISH | IV ME | Importance of NDT in Quality & Energy Sector |
| 35 | 20MH5A0330 | KOTTANA YASODA KRISHNA | IV ME | Importance of NDT in Quality & Energy Sector |
| 36 | 20MH5A0331 | MOYILA BALAKRISHNA | IV ME | Importance of NDT in Quality & Energy Sector |
| 37 | 20MH5A0332 | NARALA PRASANTH | IV ME | Importance of NDT in Quality & Energy Sector |
| 38 | 20MH5A0333 | PAPPU RAVISHANKAR | IV ME | Importance of NDT in Quality & Energy Sector |
| 39 | 20MH5A0334 | PATTETI BALU | IV ME | Importance of NDT in Quality & Energy Sector |
| 40 | 20MH5A0335 | VALLABHANI J V D L VINAYAK | IV ME | Importance of NDT in Quality & Energy Sector |

| S.NO | Regd.No | Student Name | YEAR/ Branch | Name of The Course |
|---|---|---|---|---|
| 41 | 20MH5A0336 | PEDDIREDDY HARI PRASAD REDDY | IV ME | Importance of NDT in Quality & Energy Sector |
| 42 | 20MH5A0337 | PERLA VIKRAM | IV ME | Importance of NDT in Quality & Energy Sector |
| 43 | 20MH5A0338 | POKALA Y R V BHADRA RAMA AMBIKAKUMAR | IV ME | Importance of NDT in Quality & Energy Sector |
| 44 | 20MH5A0339 | POLAVARAPU BALAGANGA PARVATHI ESWARRAO | IV ME | Importance of NDT in Quality & Energy Sector |
| 45 | 20MH5A0340 | PONNADA CHAITANYA | IV ME | Importance of NDT in Quality & Energy Sector |
| 46 | 20MH5A0341 | RAMBOTHU SAI ARAVIND | IV ME | Importance of NDT in Quality & Energy Sector |
| 47 | 20MH5A0342 | ROUTHU MANIKANTA | IV ME | Importance of NDT in Quality & Energy Sector |
| 48 | 20MH5A0343 | SEELAM YESURAJU | IV ME | Importance of NDT in Quality & Energy Sector |
| 49 | 20MH5A0344 | SESETTI SRINUVASU | IV ME | Importance of NDT in Quality & Energy Sector |
| 50 | 20MH5A0345 | SIRIPALLI RAMAKRISHNA | IV ME | Importance of NDT in Quality & Energy Sector |
| 51 | 20MH5A0346 | TANARI SRIDHAR | IV ME | Importance of NDT in Quality & Energy Sector |
| 52 | 20MH5A0347 | TEKI VEERA VENKATA THAMMANNA DORA | IV ME | Importance of NDT in Quality & Energy Sector |
| 53 | 20MH5A0348 | TELAGAMSETTY JYOTHI SIVA ADITYA | IV ME | Importance of NDT in Quality & Energy Sector |

COORDINATOR

HOD ME

Head of the Department
Mechanical Engineering
Aditya College of Engineering
SURAMPALEM-533 437

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## DEPARTMENT OF MECHANICAL ENGINEERING

### "Certification Course on Importance of NDT in Quality & Energy Sector" Attendance Sheet

| S.NO | ROLL NO | NAME | YEAR | ATTENDANCE | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Day-1 | Day-2 | Day-3 | Day-4 | Day-5 |
| | | | | 20.02.2023 | 21.02.2023 | 22.02.2023 | 23.02.2023 | 24.02.2023 |
| 1 | 19MH1A0301 | AGOOR MONYLOBI DENG DHONG | IV ME | | | | | |
| 2 | 19MH1A0302 | KAKULA CHETHAN HARSHA VARDHAN | IV ME | K. vardhan | K. Vardhan | K. Vardhan | K. Vardhan | K. vardhan |
| 3 | 19MH1A0303 | LALAM SIVA PRASAD | IV ME | L.S. Prasad | LS Prasad | L.S. Prasad | LS Prasad | L.S Prasad. |
| 4 | 19MH1A0304 | MD ABDULLAH AL MAMUN | IV ME | Md. mamun | Md. mamun | Md. Mamun | Md. Mamun | Md. Mamun |
| 5 | 19MH1A0305 | MONYWAL ELIJAH KUCH ABEL | IV ME | | | | | |
| 6 | 20MH5A0301 | AFTAB A ALAM | IV ME | Aftab | Aftab | Aftab | Aftab | Aftab |
| 7 | 20MH5A0302 | AKULA SRINIVAS | IV ME | A srinivas | A.srinivas | A.Srinivas | A.Srinivas | A Srinivas |
| 8 | 20MH5A0303 | ANDE VEERAKUMAR | IV ME | | | | | |
| 9 | 20MH5A0304 | BALLA PREM GANAPATHI | IV ME | B. Gan | B Gan | B. Gan | B Gan | B. Gan |
| 10 | 20MH5A0305 | BARRE DEEPAK VARMA | IV ME | B.D Va | BD Varma | BD Varma | BD Varma | BD Va |
| 11 | 20MH5A0306 | BOCHULA PHANI BHUSHAN | IV ME | B.P. bhushan | B.P. bhushan | B.P. bhushan | B.P. bhushan | B.P. bhushan |
| 12 | 20MH5A0307 | BOSETTI SATYA SAI RAM | IV ME | B Sai ram | B. sairam | B. sairam | B. sai ram | B. sai ram |
| 13 | 20MH5A0308 | CHINTALA MANOJ RAM | IV ME | | | | | |

| S.NO | ROLL NO | NAME | YEAR | ATTENDANCE | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Day-1 | Day-2 | Day-3 | Day-4 | Day-5 |
| | | | | 20.02.2023 | 21.02.2023 | 22.02.2023 | 23.02.2023 | 24.02.2023 |
| 14 | 20MH5A0309 | CHOUDALLA TEJA MADHU KRISHNASUDHEER | IV ME | | | | | |
| 15 | 20MH5A0310 | DASARI CHANDRA SHEKHAR | IV ME | | | | | |
| 16 | 20MH5A0311 | DESILINKA KRISHNARJUNAPRASAD | IV ME | | | | | |
| 17 | 20MH5A0312 | DONE SRI DATTA SAI GANGADHAR | IV ME | | | | | |
| 18 | 20MH5A0313 | GANDIKOTA NANI LOVA VARA PRASAD | IV ME | | | | | |
| 19 | 20MH5A0314 | GANDIPADALA VIJAYA MOULI | IV ME | | | | | |
| 20 | 20MH5A0315 | GANJI SINGA SAI RAM | IV ME | | | | | |
| 21 | 20MH5A0316 | GEDDAM NAGENDRA | IV ME | | | | | |
| 22 | 20MH5A0317 | GOPI HARSHAVARDHAN | IV ME | | | | | |
| 23 | 20MH5A0318 | GORLU SUDHEER | IV ME | | | | | |
| 24 | 20MH5A0319 | GUBBALA SAI SURESH | IV ME | | | | | |
| 25 | 20MH5A0320 | JILAKARRA RAVI KUMAR | IV ME | | | | | |
| 26 | 20MH5A0321 | KALAGA UDAY HARSHIT | IV ME | | | | | |
| 27 | 20MH5A0322 | KAMIDI KEERTHI VENKATA DURGA PRASAD | IV ME | | | | | |
| 28 | 20MH5A0323 | KARRI VENKATA SIVA DURGA | IV ME | | | | | |
| 29 | 20MH5A0324 | KODURI SURYA NAGA DURGA VARA PRASAD | IV ME | | | | | |
| 30 | 20MH5A0325 | KOKA KRISHNA KIREETUDU | IV ME | | | | | |
| 31 | 20MH5A0326 | KOMMURU SIVAJI | IV ME | | | | | |

| S.NO | ROLL NO | NAME | YEAR | ATTENDANCE | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Day-1 | Day-2 | Day-3 | Day-4 | Day-5 |
| | | | | 20.02.2023 | 21.02.2023 | 22.02.2023 | 23.02.2023 | 24.02.2023 |
| 32 | 20MH5A0327 | KOPPISETTI CHANDU SAI VENKATA GANESH | IV ME | | | | | |
| 33 | 20MH5A0328 | KOPPISETTI LIKHITH VENKAT VINAY | IV ME | | | | | |
| 34 | 20MH5A0329 | TUMMURI LEELA SATISH | IV ME | | | | | |
| 35 | 20MH5A0330 | KOTTANA YASODA KRISHNA | IV ME | | | | | |
| 36 | 20MH5A0331 | MOYILA BALAKRISHNA | IV ME | | | | | |
| 37 | 20MH5A0332 | NARALA PRASANTH | IV ME | | | | | |
| 38 | 20MH5A0333 | PAPPU RAVISHANKAR | IV ME | | | | | |
| 39 | 20MH5A0334 | PATTETI BALU | IV ME | | | | | |
| 40 | 20MH5A0335 | VALLABHANI J V D L VINAYAK | IV ME | | | | | |
| 41 | 20MH5A0336 | PEDDIREDDY HARI PRASAD REDDY | IV ME | | | | | |
| 42 | 20MH5A0337 | PERLA VIKRAM | IV ME | | | | | |
| 43 | 20MH5A0338 | POKALA Y R V BHADRA RAMA AMBIKAKUMAR | IV ME | | | | | |
| 44 | 20MH5A0339 | POLAVARAPU BALAGANGA PARVATHI ESWARRAO | IV ME | | | | | |
| 45 | 20MH5A0340 | PONNADA CHAITANYA | IV ME | | | | | |
| 46 | 20MH5A0341 | RAMBOTHU SAI ARAVIND | IV ME | | | | | |
| 47 | 20MH5A0342 | ROUTHU MANIKANTA | IV ME | | | | | |
| 48 | 20MH5A0343 | SEELAM YESURAJU | IV ME | | | | | |
| 49 | 20MH5A0344 | SESETTI SRINUVASU | IV ME | | | | | |

| S.NO | ROLL NO | NAME | YEAR | ATTENDANCE | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Day-1 | Day-2 | Day-3 | Day-4 | Day-5 |
| | | | | 20.02.2023 | 21.02.2023 | 22.02.2023 | 23.02.2023 | 24.02.2023 |
| 50 | 20MH5A0345 | SIRIPALLI RAMAKRISHNA | IV ME | | | | | |
| 51 | 20MH5A0346 | TANARI SRIDHAR | IV ME | | | | | |
| 52 | 20MH5A0347 | TEKI VEERA VENKATA THAMMANNA DORA | IV ME | | | | | |
| 53 | 20MH5A0348 | TELAGAMSETTY JYOTHI SIVA ADITYA | IV ME | | | | | |

COORDINATOR

HOD-ME

Head of the Department
Mechanical Engineering
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## Department of Mechanical Engineering

Academic Year: 2022-23

CERTIFICATION COURSE - **Importance of NDT in Quality & Energy Sector**

ANSWER ALL MCQs

Duration: 45 Minutes

30X1=30Marks

1. What does NDT stand for?
    a. Non-Damaging Testing
    b. Non-Destructive Testing
    c. Non-Discriminatory Testing
    d. Non-Dangerous Testing

2. Which of the following is a basic principle of NDT?
    a. Breaking the specimen to analyze its components
    b. Examining materials without causing damage
    c. Measuring the temperature of the specimen
    d. Ignoring defects in the material

3. In the context of NDT, what does the acronym UT stand for?
    a. Ultrasonic Testing
    b. Underwater Testing
    c. Unstable Testing
    d. Uniform Testing

4. NDT is crucial in the quality sector for:
    a. Identifying defects without damaging the material
    b. Promoting material destruction for analysis
    c. Speeding up manufacturing processes
    d. Ignoring material flaws

5. What role does NDT play in the energy sector?
    a. Enhancing employee productivity
    b. Reducing energy consumption
    c. Ensuring the structural integrity of components
    d. None of the above

6. Which NDT technique is commonly used for detecting surface cracks and discontinuities?
    a. Radiography
    b. Ultrasonic Testing
    c. Magnetic Particle Testing
    d. Liquid Penetrant Testing

7. Phased Array Ultrasonics is an example of:
    a. Basic NDT technique
    b. Advanced NDT technique
    c. Conventional Radiography
    d. Liquid Penetrant Testing

8. NDT techniques contribute to:
    a. Reducing safety measures
    b. Ensuring structural integrity
    c. Increasing defects in materials
    d. Decreasing manufacturing costs

9. What is the primary goal of NDT in quality assurance?
    a. To damage materials for analysis
    b. To ensure the quality of materials without causing harm
    c. To ignore defects in materials
    d. To speed up manufacturing processes

10. What does MPI stand for in NDT?
    a. Magnetic Particle Inspection
    b. Material Property Investigation
    c. Mechanical Product Inspection
    d. Microscopic Particle Interaction

11. In NDT, which technique involves the use of X-rays or gamma rays to inspect the internal structure of materials?
    a. Ultrasonic Testing
    b. Radiography
    c. Magnetic Particle Testing
    d. Liquid Penetrant Testing

12. Which NDT method is suitable for detecting surface and subsurface defects in ferrous materials?
    a. Ultrasonic Testing
    b. Radiography
    c. Magnetic Particle Testing
    d. Liquid Penetrant Testing

13. What is the purpose of guided wave testing in NDT?
    a. Detecting surface cracks
    b. Inspecting internal structures
    c. Examining welds
    d. Testing material conductivity

14. Which NDT technique is effective for detecting flaws in welds and inspecting heat-affected zones?
    a. Radiography
    b. Ultrasonic Testing
    c. Magnetic Particle Testing
    d. Eddy Current Testing

15. The primary focus of NDT in the energy sector is to:
    a. Decrease safety standards
    b. Increase energy consumption
    c. Ensure the integrity of critical infrastructure
    d. Ignore structural issues

16. How does NDT contribute to preventing failures in the energy sector?
    a. By increasing defects in materials
    b. By ignoring structural issues
    c. By identifying defects before they lead to failures
    d. By speeding up manufacturing processes

17. Which of the following is an ethical consideration in NDT practices?
    a. Ignoring safety protocols
    b. Complying with international standards and regulations
    c. Using NDT for destructive purposes
    d. Avoiding regulatory compliance

18. What is the purpose of liquid penetrant testing in NDT?
    a. Identifying defects on the surface of materials
    b. Examining internal structures
    c. Testing material conductivity
    d. Inspecting welds

19. Which organization provides international standards for NDT practices?
    a. National Aeronautics and Space Administration (NASA)
    b. International Organization for Standardization (ISO)
    c. World Health Organization (WHO)
    d. United Nations Educational, Scientific and Cultural Organization (UNESCO)

20. Why is NDT essential for maintaining quality in manufacturing processes?
    a. To ignore defects in materials
    b. To increase manufacturing costs
    c. To ensure the reliability and safety of products
    d. To expedite manufacturing processes

21. In NDT, what is the purpose of Eddy Current Testing?
    a. Detecting surface cracks
    b. Inspecting internal structures
    c. Examining welds
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22. What is the significance of NDT in quality control?
    a. To increase defects in materials
    b. To expedite manufacturing processes
    c. To ensure the quality and reliability of products
    d. To avoid regulatory compliance

23. Which NDT method is suitable for inspecting complex geometries and composite materials?
    a. Radiography
    b. Ultrasonic Testing
    c. Magnetic Particle Testing
    d. Phased Array Ultrasonics

24. How does NDT contribute to safety in the quality and energy sectors?
    a. By ignoring safety protocols

b. By increasing defects in materials
c. By identifying and addressing potential hazards
d. By avoiding ethical considerations

25. What is the primary objective of NDT in the energy sector?
    a. To decrease energy consumption
    b. To expedite manufacturing processes
    c. To ensure the structural integrity of components
    d. To ignore safety standards

26. Which NDT technique involves the use of a magnetic field to detect surface and subsurface defects?
    a. Radiography
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27. What is the role of NDT in preventing catastrophic failures in the energy sector?
    a. By increasing defects in materials
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28. In the context of NDT, what does PT stand for?
    a. Phased Testing
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    a. By increasing defects in materials
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    c. By ensuring the reliability and safety of products
    d. By avoiding ethical considerations

30. Which of the following is a key benefit of NDT in the quality and energy sectors?
    a. Increasing manufacturing costs
    b. Ignoring safety standards

c. Identifying defects without causing damage

d. Avoiding compliance with international standards

ANSWERKEY:

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1.b | 2.b | 3.a | 4.a | 5.c | 6.c | 7.b | 8.b | 9.b | 10.a |
| 11.b | 12.c | 13.b | 14.d | 15.c | 16.c | 17.b | 18.a | 19.b | 20.c |
| 21.d | 22.c | 23.d | 24.c | 25.c | 26.c | 27.c | 28.b | 29.c | 30.c |

HOD ME

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Aditya Nagar, ADB Road, Surampalem - 533 437, E.G.Dist., Ph: 99631 76662.


Department of Mechanical Engineering

Academic Year: 2022-23

CERTIFICATION COURSE- Importance of NDT in Quality & Energy Sector

ROLL NUMBER: 20MH5A0311

YEAR & SEM: IV - II

26/30

ANSWER ALL MCQs

Duration: 45 Minutes

30X1=30Marks

1. What does NDT stand for?
   a. Non-Damaging Testing
   b. Non-Destructive Testing
   c. Non-Discriminatory Testing
   d. Non-Dangerous Testing

2. Which of the following is a basic principle of NDT?
   a. Breaking the specimen to analyze its components
   b. Examining materials without causing damage
   c. Measuring the temperature of the specimen
   d. Ignoring defects in the material

3. In the context of NDT, what does the acronym UT stand for?
   a. Ultrasonic Testing
   b. Underwater Testing
   c. Unstable Testing
   d. Uniform Testing

4. NDT is crucial in the quality sector for:
   a. Identifying defects without damaging the material
   b. Promoting material destruction for analysis
   c. Speeding up manufacturing processes
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5. What role does NDT play in the energy sector?
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**CERTIFICATION COURSE on** Importance of NDT in Quality & Energy Sector
From 20th February to 24th February, 2023, during Academic Year: 2022-23

## Feedback Form

Please take a moment to complete this feedback form. Your comments will assist us to improve future Certification Courses.

SCALE: 1-STRONGLY AGREE; 2-AGREE; 3-NEUTRAL; 4-DISAGREE; 5-STRONGLY DISAGREE ;

| | 1 2 3 4 5 | Comments |
|---|---|---|
| 1. The Pre-Course administration was appropriate and informative. | ✓ | |
| 2. The Course was scheduled at a suitable time | ✓ | |
| 3. The Course facilities and location were appropriate and satisfactory | ✓ | |
| 4. The Course Schedule was presented in a clear and organized manner. | ✓ | |
| 5. The presenter responded to questions an informative, appropriate and satisfactory manner. | ✓ | |
| 6. Handouts/slides (if provided) were clear and useful. | ✓ | |
| 7. Overall, the session was informative and valuable. | ✓ | |
| 8. In what ways could this Course have been improved to better suit your needs? | ✓ | |
| 9. Would you recommend this session to a Friend? | Yes ☑ No ☐ | |
| 10. Please suggest any other Courses that would be useful to Your Academics and Carrier | Solid works | |
| 11. Other comments | Good. | |

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| 4. The Course Schedule was presented in a clear and organized manner. | ☑☐☐☐ | |
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Good.

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11. Other comments

Session was good & Informative.

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## Department of Mechanical Engineering

### Certification Course on NDT in Quality & Energy Sector

### Marks Report

| S.NO | Regd.No | Student Name | Marks (30) | Result |
|---|---|---|---|---|
| 1 | 19MH1A0301 | AGOOR MONYLOBI DENG DHONG | 26 | Pass |
| 2 | 19MH1A0302 | KAKULA CHETHAN HARSHA VARDHAN | 25 | Pass |
| 3 | 19MH1A0303 | LALAM SIVA PRASAD | 28 | Pass |
| 4 | 19MH1A0304 | MD ABDULLAH AL MAMUN | 29 | Pass |
| 5 | 19MH1A0305 | MONYWAL ELIJAH KUCH ABEL | 25 | Pass |
| 6 | 20MH5A0301 | AFTAB A ALAM | 26 | Pass |
| 7 | 20MH5A0302 | AKULA SRINIVAS | 27 | Pass |
| 8 | 20MH5A0303 | ANDE VEERAKUMAR | 28 | Pass |
| 9 | 20MH5A0304 | BALLA PREM GANAPATHI | 28 | Pass |
| 10 | 20MH5A0305 | BARRE DEEPAK VARMA | 30 | Pass |
| 11 | 20MH5A0306 | BOCHULA PHANI BHUSHAN | 26 | Pass |
| 12 | 20MH5A0307 | BOSETTI SATYA SAI RAM | 24 | Pass |
| 13 | 20MH5A0308 | CHINTALA MANOJ RAM | 28 | Pass |
| 14 | 20MH5A0309 | CHOUDALLA TEJA MADHU KRISHNASUDHEER | 29 | Pass |
| 15 | 20MH5A0310 | DASARI CHANDRA SHEKHAR | 25 | Pass |
| 16 | 20MH5A0311 | DESILINKA KRISHNARJUNAPRASAD | 26 | Pass |
| 17 | 20MH5A0312 | DONE SRI DATTA SAI GANGADHAR | 24 | Pass |
| 18 | 20MH5A0313 | GANDIKOTA NANI LOVA VARA PRASAD | 25 | Pass |
| 19 | 20MH5A0314 | GANDIPADALA VIJAYA MOULI | 25 | Pass |
| 20 | 20MH5A0315 | GANJI SINGA SAI RAM | 26 | Pass |
| 21 | 20MH5A0316 | GEDDAM NAGENDRA | 27 | Pass |
| 22 | 20MH5A0317 | GOPI HARSHAVARDHAN | 28 | Pass |
| 23 | 20MH5A0318 | GORLU SUDHEER | 29 | Pass |
| 24 | 20MH5A0319 | GUBBALA SAI SURESH | 26 | Pass |
| 25 | 20MH5A0320 | JILAKARRA RAVI KUMAR | 27 | Pass |
| 26 | 20MH5A0321 | KALAGA UDAY HARSHIT | 26 | Pass |
| 27 | 20MH5A0322 | KAMIDI KEERTHI VENKATA DURGA PRASAD | 24 | Pass |
| 28 | 20MH5A0323 | KARRI VENKATA SIVA DURGA | 28 | Pass |
| 29 | 20MH5A0324 | KODURI SURYA NAGA DURGA VARA PRASAD | 29 | Pass |
| 30 | 20MH5A0325 | KOKA KRISHNA KIREETUDU | 28 | Pass |
| 31 | 20MH5A0326 | KOMMURU SIVAJI | 30 | Pass |
| 32 | 20MH5A0327 | KOPPISETTI CHANDU SAI VENKATA GANESH | 25 | Pass |
| 33 | 20MH5A0328 | KOPPISETTI LIKHITH VENKAT VINAY | 25 | Pass |
| 34 | 20MH5A0329 | TUMMURI LEELA SATISH | 24 | Pass |

| 35 | 20MH5A0330 | KOTTANA YASODA KRISHNA | 28 | Pass |
|---|---|---|---|---|
| 36 | 20MH5A0331 | MOYILA BALAKRISHNA | 28 | Pass |
| 37 | 20MH5A0332 | NARALA PRASANTH | 26 | Pass |
| 38 | 20MH5A0333 | PAPPU RAVISHANKAR | 24 | Pass |
| 39 | 20MH5A0334 | PATTETI BALU | 28 | Pass |
| 40 | 20MH5A0335 | VALLABHANI J V D L VINAYAK | 30 | Pass |
| 41 | 20MH5A0336 | PEDDIREDDY HARI PRASAD REDDY | 29 | Pass |
| 42 | 20MH5A0337 | PERLA VIKRAM | 30 | Pass |
| 43 | 20MH5A0338 | POKALA Y R V BHADRA RAMA AMBIKAKUMAR | 28 | Pass |
| 44 | 20MH5A0339 | POLAVARAPU BALAGANGA PARVATHI ESWARRAO | 26 | Pass |
| 45 | 20MH5A0340 | PONNADA CHAITANYA | 30 | Pass |
| 46 | 20MH5A0341 | RAMBOTHU SAI ARAVIND | 28 | Pass |
| 47 | 20MH5A0342 | ROUTHU MANIKANTA | 24 | Pass |
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| 49 | 20MH5A0344 | SESETTI SRINUVASU | 26 | Pass |
| 50 | 20MH5A0345 | SIRIPALLI RAMAKRISHNA | 30 | Pass |
| 51 | 20MH5A0346 | TANARI SRIDHAR | 29 | Pass |
| 52 | 20MH5A0347 | TEKI VEERA VENKATA THAMMANNA DORA | 26 | Pass |
| 53 | 20MH5A0348 | TELAGAMSETTY JYOTHI SIVA ADITYA | 25 | Pass |

HOD ME

Head of the Department
Mechanical Engineering
Aditya College of Engineering
SURAMPALEM-533 437

VIDAL NDT

TRAINING • TESTING • THIRD PARTY INSPECTION • TALENT HR

Ministry of MSME, Govt. of India

AS PER ASNT

# WORKSHOP CERTIFICATE

This is to certify that

Mr/~~Ms~~ AGOOR MONYLOBI DENG DHONG

of College

ADITYA COLLEGE OF ENGINEERING

has participated in value added workshop

organized by Department of Mechanical Engineering

| | |
|---|---|
| TITLE | IMPORTANCE OF NDT IN QUALITY & ENERGY SECTOR<br>1. ABOUT NON-DESTRUCTIVE TESTING.<br>2. DIFFERENT TYPES OF NDT AND THEIR IMPORTANCE.<br>3. CAREER AND FIELD OPPORTUNITIES IN NDT. |
| DATE | 20-2-2023 to 24-2-2023 |
| DURATION | 05 days |

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NAME : VIDAL NDT

Vidal NDT
Director Signature

Head of the Department
Mechanical Engineering
Aditya College of Engineering

College
H.O.D. Signature

VIDAL NDT

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Ministry of MSME, Govt. of India

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# WORKSHOP CERTIFICATE

This is to certify that

Mr/~~Ms~~ BARRE DEEPAK VARMA

of College

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| TITLE | IMPORTANCE OF NDT IN QUALITY & ENERGY SECTOR<br>1. ABOUT NON-DESTRUCTIVE TESTING.<br>2. DIFFERENT TYPES OF NDT AND THEIR IMPORTANCE.<br>3. CAREER AND FIELD OPPORTUNITIES IN NDT. |
| DATE | 20-02-2023 to 24-02-2023 |
| DURATION | 05 days |

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Director Signature

Head of the Dept. (Civil, Mechanical Engineering)
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Mr/~~Ms~~ GANDIPADALA VIJAYA MOULI

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Mr/~~Ms~~ AKULA SRINIVAS

of College

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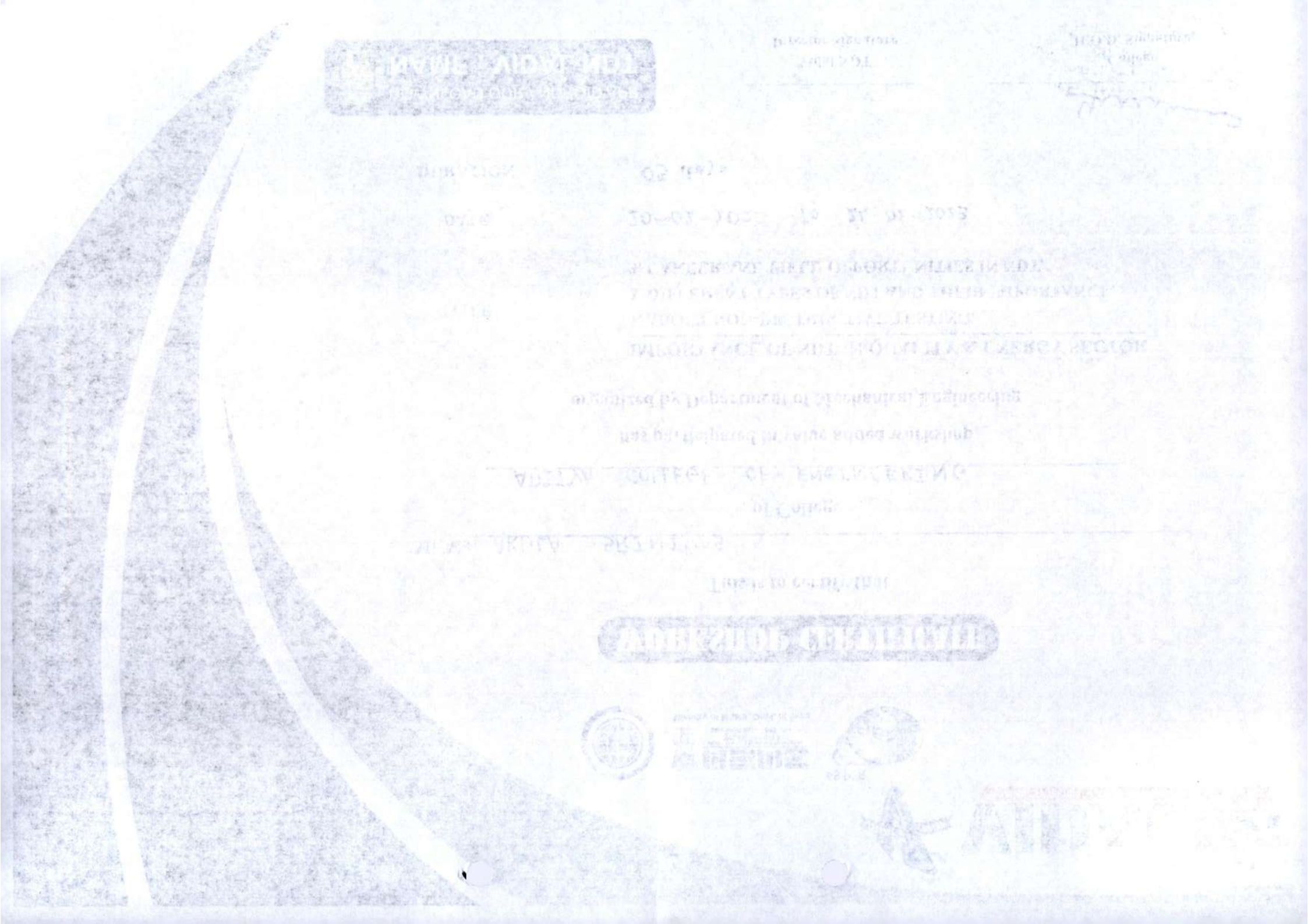

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Mr/~~Ms~~ DONE SRI DATTA SAI GANGADHAR

of College

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Director Signature

Head of the Department
Mech... Engg
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Recognized by UGC under section 2(f) of UGC Act 1956
Ph: (0884) 2326224, 99631 76662, Email: office@acoe.edu.in, Website: www.acoe.edu.in

Surampalem.
24.02.2023

From
The Principal,
Aditya College of Engineering,
Surampalem.

To
D Satish,
Trainer,
VIDAL NDT,
Vijayawada.

Sub: - Appreciation for your presentation in the certification course organized- Reg.

Sir,

Please accept our sincere appreciation for the outstanding presentation you made to the certification course of "Importance of NDT in Quality & Energy Sector". It was very interesting to hear about your experience teaching skills. Thank you so much for sharing your time and experiences with us.

It seems everyone I talk wants me to express appreciation for your inspiring presentation in the Certification Course organized. Your years of research, your depth of understanding of user interfaces, and your ability to present the subject in such an interesting way produced one of the most memorable days in our group's history. Thanks again for a truly memorable presence. We hope you can join us again.

PRINCIPAL

PRINCIPAL
Aditya College of Engineering
SURAMPALEM - 533 437

# ADITYA COLLEGE OF ENGINEERING

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Recognized by UGC under Sections 2(f) and 12(B) of UGC Act, 1956
Aditya Nagar, ADB Road, Surampalem - 533 437, E.G.Dist., Ph: 99631 76662.


## Department of Mechanical Engineering

## Academic year 2022-23

| | |
|---|---|
| Name of the Course: | ME22301 – Importance of NDT in Quality & Energy Sector |
| Name of the Instructor: | Mr. D Satish |
| Year/Branch: | IV -ME |
| Duration of the Course: | 30 Hours (20.02.2023 to 24.02.2023) |

### SUMMARY OF THE EVENT:

The course was inaugurated on 20.02.2023 at 9:30.AM by our respectable Principal and HOD-ME. As per the course plan session was started and went smooth for the remaining days and training session was successfully completed.

### ASSESSMENT MODE:

| | | | |
|---|---|---|---|
| No of students enrolled: | 53 | Schema of Exam: | Offline |
| No of students appeared: | 53 | No of Students Passed: | 53 |

Date of Exam: 24.02.2023

### OUTCOMES:

The Course was mainly intended for improving the skills of the ME Students. The Program is successful in achieving the following outcomes.

- Demonstrate Proficiency in Basic NDT Techniques.
- Apply NDT Principles to Quality Assurance Practices.
- Evaluate NDT Applications in Energy Sector Integrity.
- Utilize Advanced NDT Techniques in Practical Scenarios.

COORDINATOR

HOD

Head of the Department
Mechanical Engineering
Aditya College of Engineering
SURAMPALEM-533 437

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