

(AUTONOMOUS)

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An ISO 9001:2015 Certified Institution

Pothavarappadu (V), Agiripalli (M), Eluru District, A.P., India, Pin: 521 212 URL: www.nriit.edu.in, email: principal@nriit.edu.in, Mobile: + 91 8333882444



A short Report on Orientation Programme

for the students of I B.Tech 2022 -23 Batch

On 28th September 2022

Introduction

NRI Institute of Technology has welcomed the newcomers to the campus with extended arms to receive them with care and concern. A long-awaited day has finally arrived for the students who aspire to be engineers of the future times. The students have come to the portals of the NRIIT with much enthusiasm to pursue their graduation in B.Tech in their preferred branches.

Highlights of Orientation

The orientation for the students of 2022-23, First B.Tech, was organized on 28th September 2022.

The programme went on in two sessions.

Forenoon Session: ECE, CSE, AMIL, CSD, CSM

Afternoon Session: IT, Mechanical, Civil, EEE

Venue: College Seminar Hall, Block-1

People Presided:

Principal

Academic Director

Placement Director

HoD of FED

HoDs of respective departments.

Orientation Proceedings

The Principal addressed the students informing them about the general discipline, examination pattern.

The HoD of FED addressed the students and parents and assured them about successful education on the campus of NRIIT.

All the Heads of respective departments also addressed them about their respective departments.

The programme ended with the National anthem.

Then the students were asked to attend the classes.









FED HOD

n.O.D. Dept. of Basic Sciences & Humanities
M.R.I. Institute of Technology
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DEPARTMENT OF MECHANICAL ENGINEERING

List of Short-Term Courses & Workshops Organized for the A.Y. 2021-2022

S.	Name of the Topic	Date-	Resource Person with	No. of	PO, PSO
No.		Month-Year	Destination, Company	Students	Mapping
1	Applications of Non- Destructive Techniques in Various Industries and Its Importance	2 – 5 March, 2022	Mr. G. Vijay Kumar, Managing Director, VIDAL NDT, Vijayawada	133	PO1, PO2, PO3, PO4, PO5, PO10, PO12, PSO1, PSO2, PSO3

ordinator

Head, Mechanical Department NRI Institute of Technology POTHAVARAPPADU (VIII) Agiripalli (Mdl), Krishna Dist.



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DEPARTMENT OF MECHANICAL ENGINEERING

Date: 20-02-2022.

To

Mr. G. Vijay Kumar Managing Director VIDAL NDT Vijayawada

Respected Sir,

On behalf of the Department of Mechanical Engineering, I would like to invite you to deliver a series of expert lectures for workshop titled in your specialized area, Non-Destructive Techniques Applied in Industries, for the benefit of our Mechanical Engineering students during the proposed period 2 – 5 March, 2022.

I will be very thankful to you for assisting us with this task and I hope you will again be involved in future activities.

HEAD OF THE DEPARTMENT
Head, Mechanical Department
Head, Mechanical Department
RI Institute of Technology
NRI Institute of Technology
POTHAVARAPPADU (Vill)
Agiripalli (Mdl), Krishne Disc.



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Ref No: NRIIT/ME/WS or STC/Circular/01/A.Y. 2021-2022

Date: 25-02-2022

CIRCULAR

Sub: A Workshop Titled "Applications of Non-Destructive Techniques in Various Industries and Its Importance" during 2nd – 5th March, 2022 by Department of Mechanical Engineering – Reg.

This is to inform that the Department of Mechanical Engineering is organizing a Workshop on "Applications of Non-Destructive Techniques in Various Industries and Its Importance" during 2nd – 5th March, 2022 for all the students and faculty members of Department of Mechanical Engineering.

Speaker

Mr. G. Vijay Kumar, Managing Director, VIDAL NDT, Vijayawada

Date & Time :

2nd – 5th March, 2022 at 10AM

Venue

ME Seminar Hall

All the faculty members and students of other departments, who are interested in the above Workshop, are also invited to attend the same.

Coordinator

Head, Mechanical Department IRI Institute of Technology POTHAVARAPPADU (VIII) airipalli (Mdl), Krishna Dis

DEPARTMENT OF MECHANICAL ENGINEERING

Workshop on "Applications of Non-Destructive Techniques in Various Industries and Its Importance"

Dt: 07-03-2022.

A workshop on "Applications of Non-Destructive Techniques in Various Industries and Its Importance" has been organized by the department of mechanical engineering during the period 2 – 5 March, 2022 for four days. Mr. G. Vijay Kumar, Managing Director, VIDAL NDT, Vijayawada is delivered talk.

Testing methods that do not compromise the structural integrity of the parts being tested are called **non-destructive tests (NDT)**.

NDT is used to test the quality of components and machine condition before or during their active use. Non-destructive testing is used for condition assessment and quality control in a wide range of industries, which include (but are not limited to):

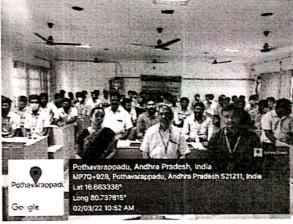
- Aerospace testing castings
- Automotive to test the durability of piston heads
- Manufacturing to test the quality of components before it goes into production
- Medical devices to test the durability and composition of stents
- Military and defense ballistics testing and analysis
- Packaging to test the structure and chances of leakage for packages
- Marine industries to identify corrosion
- Power generation to test welding-related defects
- Waste management to identify redeemable metals in waste
- Petrochemical industry to test pipelines used to transport oil

Top 5 industries where NDT is used

The non-destructive Testing (NDT) market continues to prove that it is a technology that is well worth investing in for a wide variety of industries. Part of the reason for its growing popularity among technicians and engineers in these fields is that it saves companies millions

of dollars in repair costs. Let's take a look at some of the other big industries where the application of NDT is evident.









Photos taken during workshop

- Aerospace & Defense: Of course, the aerospace & defense industry is one of the most consistent users of NDT technologies including the use of ultrasonic testing equipment. This is because items such as airframe structures need to be able to be tested for strength and wear and tear as they are under great pressure when in use. The smallest breach in materials which ultrasonic testing can reveal can result in the loss of cargo, assets and human life.
- Biomedical & Medical Devices: The application of NDT in biomedical & medical devices is very big. This is the one industry that laymen most associate with NDT such as ultrasounds, x-rays, etc. Obviously where the human body is involved technicians want to do as little harm as possible when diagnosing diseases.
- Civil and Heavy Construction: As structures have gotten bigger and bigger so too has
 the need for certain materials to be able to withstand great stresses. NDT makes sure

that the materials that go into constructing buildings, bridges, damns, etc., can withstand those stresses and that they last for generations.

- Oil and Gas Industry: Ultrasonic technologies, as well as radiography, is used in this
 industry to inspect the internal structure of equipment in order to detect welds,
 cracks, voids and other types of material or structural defects.
- Primary Metals & Mining: The products that are produced by this industry support
 countless other industries including our own. Thus, failure to properly gauge the
 strength of certain materials can have seismic reverberations.

Additionally, the applications of NDT can be found in the following industries:

- Power Generation
- Chemicals
- Mining
- Automotive
- Maritime

Benefits of NDT

Without NDT, you couldn't be sure your materials, products, and equipment will
achieve their design requirements or their expected life. Undetected defects and flaws
usually result in expensive repairs or replacements and can place your company's
employees in unsafe conditions. Consider the loss of revenue due to an unplanned
plant shutdown when equipment fails. Even more important, a catastrophic failure
can have a devastating impact from which some companies never recover.

NDT primarily covers the following:

- Prevent accidents and reduce costs
- Improve product reliability
- Meet regulations and requirements
- Manage assets and resources

Coordinator

HOD-ME

Itead, Mechanical Department

NRI Institute of Technology

POTHAVARAPPADU(VIII)

Aghipalli (Mdl), Krishna Dist.

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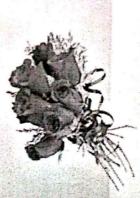


A Four-Day Workshop

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APPLICATIONS OF NON DESTRUCTIVE TECHNIQUES IN VARIOUS INDUSTRIES AND IT'S IMPORTANCE

(For B Tech., Mechanical Students on 2nd to 5th March-2022)



FORMULA LON LON TO THE PARTY OF In Association with:

Organized by:





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Workshop/Short-Term Course Feedback Form

Name of the Program: Application of non-destructive technique in various industries and its importance.

Please respond to the following statements by using the 4-point rating scale to indicate the extent to which you agree or disagree with each statement. Please circle the number that applies.

4 = Strongly Agree; 3 = Agree; 2 = Disagree; 1 = Strongly Disagree

S No	Statement	ng	and the state of t		
1	The program objectives were stated clearly and met.	3	3	2	1
2	The program was well organized.	4	3	2	1
3	The information and/or skills presented were relevant and useful.	4	3	2	1
4	The presenter provided adequate time for questions and answered them satisfactorily.	4	(3)	2	1
5	This workshop increased my knowledge and skills	4	3	2	1

Remarks, if any:

It helps to improve our skill.	

Head, Mechanical Department NRI Institute of Technology POTHAYARAPPADU(Vill) Agiripalli (Mdl), Krishna Dist.

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Workshop/Short-Term Course Feedback Form

Name of the Program: Applications of Mon-Destactive Techniques in vosious industries and Its Importance

Date: 5/3/22

Please respond to the following statements by using the 4-point rating scale to indicate the extent to which you agree or disagree with each statement. Please circle the number that applies.

2 = Disagree; 1 = Strongly Disagree 4 = Strongly Agree; 3 = Agree;

S No	Statement		Rat	ing	
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Remarks, if ar	ıy:				
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Workshop/Short-Term Course Feedback Form

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Name of the Program:	and it's	importance			

Date: 05/03/22

Please respond to the following statements by using the 4-point rating scale to indicate the extent to which you agree or disagree with each statement. Please circle the number that applies.

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Remarks, if any:

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