



Uka Tarsadia University

Department of Mechanical, Automobile, and Mechatronics Engineering, C G Patel Institute of Technology

Two-day workshop

on

"Welding Engineering and NDT Practices"

Date	14 th and 15 th March 2024		
Venue	H-205, CGPIT and CGPIT workshop		
Time	8:30 am to 3:30 pm		
Total Number of Participants	31		
Name of Expert	Expert 1: Mr. Harshit Desai		
	Inspection specialist		
	Owner of Linq Engineering Services, Surat		
	Expert 2: Meet Patel		
	Certifications:		
	1. Certified Welding Inspector (AWS-CWI) (Certificate		
	No.: 24011211)		
	2. ASNT Level-II UT, RT, MPT, LPT, VT (More than 5		
	Years of Experience)		
	3. BARC Level-I		
	Present Work: Partner at M/s. UltraSparc Engineers		
	Technical Manager at M/s. Ultratech Engineers		
	Expert 3: Prof. Kevur Tandel		
	Assistant Professor. Mechanical Engineerin		
	Department		
	Government Engineering College, Dahod		

Event Coordinator	1) Mrs. Palak H. Desai		
	Assistant Professor,		
	Mechanical/Mechatronics/Automobile		
	Engineering Department, CGPIT, UTU		
	2) Mr. Jayeshkumar R. Parekh Assistant Professor,		
	Mechanical/Mechatronics/Automobile		
	Engineering Department, CGPIT, UTU		
Program Objective	To make students aware of industrial welding and NDT		
	practices.		
Program Outline	The workshop was categorized into two sessions for both		
	days. The first session focused on the theory part, and the		
	post-lunch session was a hands-on session. On the first		
	day, students got hands-on knowledge of various NDT		
	practices, and on the second day, they were made aware		
	of SMAW, GTAW, and GMAW welding techniques.		
Program Outcome	The workshop aimed to make students aware of		
	industrial welding and NDT practices. The program was		
	successful in providing students with hands-on		
	knowledge of various NDT practices and welding		
	techniques. The workshop helped in enhancing the		
	students' practical knowledge and skills for their future		
	careers.		

Schedule of Event:

Day 1: 14/3/2024

TIME	CONTENT	
8:30 to 9:30	Registration	
9:30 to 10:00	Inauguration	
	Lecture-I:	
	Speaker: Mr. Harshit Desai	
	Inspection specialist	
10:00 to 12:30	Owner of Linq Engineering Services	

12:30 to 1:30	Lunch Break
1:30 to 3:30	Hands-on practice on NDT(MPT, Radiography, UT) methods

Day 2: 15/3/2024

TIME	CONTENT		
	Lecture-I:		
	Speaker: Meet Patel		
	Partner at M/s. UltraSparc Engineers		
9:00 to 11:00	Technical Manager at M/s. Ultratech Engineers		
	Lecture-II:		
	Speaker: Prof. Keyur Tandel		
	Assistant Professor, Mechanical Engineering Department		
11:00 to 1:00	Government Engineering College, Dahod		
1:00 to 2:00	Lunch Break		
2:00 to 3:30	Hand-on practice on SMAW, GTAW and GMAW		

List of Participants:

Sr. No.	Enrollment No.	Name	Branch
			Mechanical
1	202003103510006	Smitkumar Arvindbhai Prajapati	Engineering
			Mechanical
2	202003103510021	Meetkumar Rakeshbhai Patel	Engineering
			Mechanical
3	202003103510040	Kaushal Navneetbhai Chhatraliya	Engineering
			Mechanical
4	202003103510044	Dhruv Mahendrabhai Tatkare	Engineering
			Mechanical
5	202003103510045	Aman Vijay Prajapati	Engineering
			Mechanical
6	202003103510050	Havi Kunal Shah	Engineering
			Mechanical
7	202003103510061	RAJ RAMESHCHANDRA TANDEL	Engineering
			Mechanical
8	202003103510219	Snehashis Ashish Saha	Engineering
		HARSHALKUMAR JITENDRABHAI	Mechanical
9	202103103520006	PRAJAPATI	Engineering

		BHAVINKUMAR KIRITBHAI	Mechanical
10	202103103520051	MISTRY	Engineering
			Mechanical
11	202103103520053	Dhir Sanjaybhai Desai	Engineering
			Mechanical
12	202103103520055	A Chaudhari Anand	Engineering
			Mechanical
13	202103103520060	Tarpan Rameshbhai Modi	Engineering
			Mechanical
14	202103103520061	Nishil Nishil Shah Shah	Engineering
	000100100500105		Mechanical
15	202103103520107	Sahil Devangbhai Jogi	Engineering
10	202102102520100		Mechanical
16	202103103520109	ADITYA KALPESH PAREKH	Engineering
17	202102102510144	Amura Datal	Mechanical
1/	202103103310144	Aryan Pater	Machanical
10	202102102510261	Shashank Dahit	Engineering
10	202105105510201		Machanical
10	202203103520006	Mistry Cherag	Engineering
17	202203103320000		Mechanical
20	202203103520007	MEET TANK	Engineering
20	202203103320007		Mechanical
21	202203103520013	Tigar Bhanupratap Dhananiay Rai	Engineering
			Mechanical
22	202203103520020	NISHITH VIMALKUMAR GANDHI	Engineering
			Mechanical
23	202203103520026	Viraj Amar Desai	Engineering
			Mechanical
24	202203103520063	Kunal Rajesh Salunae	Engineering
			Mechanical
25	202203103520067	PENTAKOTA LEELA SAI RAM ANIL	Engineering
			Mechanical
26	202203103520075	PUROHIT LALIT BHAGVATILAL	Engineering
27	202202102520000		Mechanical
27	202203103520098	Bhatia Brijesh Atulkumar	Engineering
20	202202102520110	771 1 337 1	Mechanical
28	202203103520119	Knush Wadia	Engineering
20	202203102520129	DATEL RRIESH DD AV ACUDUAI	Engineering
29	202203103320138		Machanical
30	202203103520143	Mihir Modi	Fngineering
50			Mechanical
31	202203103510459	Harsh Chhatraliya	Engineering
V 1	202203103310139		Lingineering

Introduction:

The Department of Mechanical, Automobile, and Mechatronics Engineering organized a twoday workshop on Welding Engineering and NDT Practices for B. Tech Mechanical Engineering students. The workshop was designed to provide participants with an in-depth understanding of welding engineering principles and techniques, as well as an understanding of nondestructive testing methods that are necessary for ensuring the quality and integrity of welds.

Objective and Significance:

This workshop aimed to:

- Provide participants with a solid understanding of welding processes and metallurgy.
- Introduce participants to various Non-Destructive Testing methods, including visual inspection, ultrasonic testing, radiography, and magnetic particle testing, enabling them to assess weld quality effectively.
- Offer participants hands-on experience through practical demonstrations and exercises, allowing them to apply welding techniques and NDT methods under the guidance of experienced instructors.
- Provide a platform for networking and knowledge sharing among participants, industry experts, and academician, fostering collaboration and exchange of best practices in welding engineering and NDT.

The workshop strives to boost the proficiency and skill set of individuals engaged in welding engineering and non-destructive testing practices.

Key Highlights:

- Students acquired knowledge of welding engineering concepts and techniques.
- They developed familiarity with diverse welding procedures and their practical uses.
- They got proficiency in utilizing NDT techniques for evaluating weld quality.
- Also, got capable to accurately interpret NDT outcomes and prepare comprehensive reports.
- And, got opportunities to connect with industry specialists and fellow attendees.

Summary of Discussions:

The two-day workshop on Welding Engineering and NDT Practices fostered insightful discussions and knowledge exchange among participants, industry experts, and academician. Key topics covered during the workshop included welding engineering principles, various

welding processes, Non-Destructive Testing (NDT) methods, and their significance in ensuring weld quality and integrity.

Overall Success and Impact:

The workshop also provided valuable insights, practical skills, and networking opportunities for participants to enhance their proficiency in welding engineering and NDT practices. The discussions underscored the importance of continuous learning and collaboration in ensuring the quality, safety, and competitiveness of industries reliant on welded components.

Pictures:



Session 1 on NDT by Harshit Desai







Session 2 on welding processes by Meet Patel



Session 3 on welding metallurgy by Prof. Keyur Tandel



Hands-on session on welding practices



Valedictory session

Conclusion:

The two-day workshop on Welding Engineering and NDT Practices served as a comprehensive platform for participants to deepen their understanding of welding processes, metallurgy, and Non-Destructive Testing methodologies. The workshop fostered an environment conducive to interactive learning, where participants engaged in discussions, practical demonstrations, and hands-on exercises.

Report Prepared by: Palak H. Desai Date: 27th March 2024 Signature of Head of Department