A Report on

GTU Sponsored &ISTE Approved
One Week Faculty Development Program (FDP) on

"Advancement in welding & Non-Destructive Testing" 18th November to 23rd November 2019

ORGANIZED BY

MECHANICAL ENGINEERING DEPARTMENT

TAPI DIPLOMA ENGINEERING COLLEGE, SURAT

Event Convener

Mr. Jayesh D. Ramani (HOD-MED.TDEC)

Event Coordinator

Dr. Chirag R. Sanghani (Sr. Lecturer- MED, TDEC)

Event Co-COORDINATORS

Mr. Jayesh V. Savaj (Lecturer- MED, TDEC)

Mr. Vishal J. Rana (Lecturer- MED, TDEC)

OBJECTIVES OF FDP

- To expose industry based welding methodologies (standard procedure, welder's specification, defects, testing, etc.) to the participants to prepare them for dissemination of new and emerging technologies, perhaps as content beyond syllabus, to their students by case studies.
- To make participants aware about the current research & development trends in the field of welding like advanced welding techniques, challenges in welding, etc. with the help of expert's knowledge. So, they can use this information in their further study or research work.
- To enrich participants with various non-destructive testing methods for welding by theory and practical demonstration.
- To familiarize the participants with the use of simulation tool in welding by hands on session on welding process simulation in ANSYS software.

SCHEDULE OF FACULTY DEVELOPMENT PROGRAM

	TAPI DIPLOMA ENGINEERING COLLEGE, SURAT MECHANICAL ENGINEERING DEPARTMENT SCHEDULE OF FACULTY DEVELOPMENT PROGRAM (FDP) "ADVANCEMENT IN WELDING & NON DESTRUCTIVE TESTING"			
	MON	(DAY (18/11/2019)		VENUE
930 AM TO 1015 AM	M REGISTRATION & BREAKFAST			WORKSHOP
10.15 AM TO 11.00 AM		INAUGURAL CEREMONY		T- 7
1100 AM TO 1230 PM	LECTURE	DR. V.J. BADHEKA (PDPU)	ADVANCED WELDING TECHNIQUES	5-23
1230 PM TO 130 PM		LUNCH BREAK	(FCHNIQCES	WORKSHOP
130 PM TO 230 PM	LECTURE	DR. V.J. BADIJEKA (PDPU)	WELDING DEFECTS	5-23
230 PM TO 245 PM		TEA BREAK		S- 22
2.45 PM TO 5.00 PM	THEORY & PRACTICAL SESSION	MR. HEMANT DESAI (DIIS)	DVE PENETRATION TEST	T- 7
	TUE	SDAY (19/11/2019)		
1000 AM TO 1030 AM		BREAKFAST	And the Will Street Street	WORKSHOP
1030 AM TO 1200 PM	LECTURE	MR. NIKHIL SABHAYA (TCR ADVANCED)	BOILER INSPECTION	\$- 23
1200 PM TO 100 PM	LEATER.	LUNCH BREAK	BOLER II-SPECTION	WORKSHOP
100 PM TO 230 PM	THEORY & PRACTICAL SESSION	MR HEMANT DESAL (DIIS)	LILTRASONIC TEST	T-7
	THEORY & PRACTICAL SESSION	TEA BREAK	CEROGONIC TEST	
2:30 PM TO 2:45 PM			T	5- 22
245 PM TO 500 PM	THEORY & PRACTICAL SESSION	MR. HEMANT DESAL (DIIS)	MAGNETIC PARTICLE TEST	T- 7
	WEDN	ESDAY (20/11/2019)		
1000 AM TO 1930 AM		BREAKFAST		WORKSHOP
10 10 AM TO 12:00 PM	LECTURE	MR MADHAV PISPATIKAR (WELMET TECH)	WELDING INSPECTION & WPS- POR	S- 23
12:00 PM TO 1:00 PM		LUNCH BREAK		WORKSHOP
100 PM TO 230 PM	LECTURE	MR PRATIK GANDHI (L&T, HAZIRA)	TITANIUM WELDING	S- 21
230 PM TO 245 PM		TEA BREAK	•	5- 22
2 45 PM TO 5 00 PM	LECTURE	MR. K. L. PANDEY (LINCOLN ELECTRIC)	PARAMETERS AFFECTING SUBMERGED ARC WELDING	8-23
	THUE	RSDAY (21/11/2019)	A STATE OF THE STA	
10.00 AM TO 10.30 AM		BREAKFAST		WORKSHOP
10 30 AM TO 12 00 PM	LECTURE	PROF Y S CHOUPARE (TDEC)	ART OF LIVING	S- 23
12:00 PM TO 1:00 PM		LUNCH BREAK		WORKSHOP
100 PM TO 500 PM	VISIT	ADVANCED WELDING LABORATORY (SYNT)	REF. DR. V. D. KALYANKAR	SVNIT
	700			400 M
FRIDAY (22/11/2019) 1000 AM TO 1010 AM BREAKFAST				
		1	I	WORKSHOP
10 30 AM TO 12 00 PM	LECTURE	DR. V. D. KALYANKAR (SVNIT)	CHALLENGES IN WELDING	5- 23
1200 PM 10 100 PM		LENCH BREAK	I	WORKSHOP
100 PM TO 230 PM	LICTURE	DR. V. D. KALYANKAR (SVNTT)	TESTING OF WELDED PARTS	5-23
230 PM TO 245 PM		TEA BREAK	r	5- 21 217 B
2 45 PM TO 500 PM	PRACTICAL SESSION	MR. DIXIT MISTRY (SOPAN INSTITUTE)	SIMULATION OF WELDING	TROPER BUILDING
	SATU	RDAY (23/11/2019)		
MA 0 CUI OT MA 0001		BREAKTAST		WORKSHOP
10 30 AM TO 12 30 PM	PRACTICAL SESSION	MR. DIXIT MISTRY (SOPAN INSTITUTE)	SIMULATION OF WELDING	217/B. Decises in Tipovi
1230 PM TO 130 PM		LUNCTI BREAK	Manage and an unit	WORKSHOP
130 PM TO 300 PM	LECTURE	DR. AMIT ARORA (IIT GN)	MODELING OF WELDING PROCESS	8- 23
100 PM TO 130 PM	EXAM			5- 23
330 PM TO 345 PM		TEA BREAK VALIDICTORY FUNCTION		

Day 1 (18/11/2019)

Inauguration Program



Inauguration of FDP by **Dr. Atul Shah** (Chief Guest), **Dr. Kanubhai Mavani** (Trustee- STBS Trust), **Shri K.D.Vaghani** (Tresurer – STBS Trust), Hon. Guest **Shri Amit Joshi** (Manager-HR, L&T), **Dr. Nanak J. Pamnani** (Principal-SSASIT) and **Prof. Y.S.Choupare** (Principal-TDEC)



Session 1: Dr. V.J.Badheka (PDPU) delivered expert lecture on "Advanced Welding Techniques"

Session 2: Dr. V.J.Badheka (PDPU) delivered expert lecture on "Welding Defects"

Session 3: Theory and Practical session conducted by Mr. Hemant Desai on "Dye Penetration Test

Day 2 (19/11/2019)



Session 1: Mr. Nikhil Sabhaya (TCR Advanced Engineering Pvt. Ltd.) delivered expert lecture on "Boiler Inspection"

Session 2: Theory and Practical session on "Ultrasonic test" and "Magnetic Particle test" by Mr. Hemant Desai (Desai Industrial Inspection Service)

Day 3 (20/11/2019)



Session 1: Mr. Madhav Pispatikar (Welmet Tech.) delivered an expert lecture on WPS & PQR.

Session 2: An expert lecture on Titanium Welding by Mr. Pratik Gandhi (L&T-Hazira)

Session 3: Mr. K.L.Pandey (Lincon Electric) delivered lecture on Parameters affecting on SAW.

Day 4 (21/11/2019)



Session 1: Prof. Y.S.Choupare (Principal-TDEC) delivered expert lecture on "Art of Living"

Session 2 & 3: Theory & Practical (with hands-on) session in "Advanced Welding Laboratory"

(SVNIT).

Day 5 (22/11/2019)



Session 1: Expert Lecture on "Challenges in Welding" delivered by Dr. V.D.Kalyankar Session 2: Expert Lecture on "Testing of Welded Parts" delivered by Dr. V.D.Kalyankar Session 3: Practical Hands-on session on "Simulation of Welding" by Mr. Dixit Mistry.

Day 6 (23/11/2019)



Session 1: Practical hand-on session by Mr. Mahek Mistry on "Simulation of Welding"
Session 2: An expert lecture on "Modeling of Welding Process" delivered by Dr.Amit Arora (IIT-GN)

Valedictory Function



Chief Guest Prof. K.M.Bhavsar (Chairman-ISTE, Gujarat Section), Guest of honor Prof. Bhasker Bhatt (SMC-ISTE, Gujarat Section) awarded certificate to Participants, Convener, Coordinator and Co-coordinator of FDP.

Total 26 participants are actively participated in this FDP. Out of that 15 participants are belongs to from other reputed institutes. This FDP is very fruitful to the participants and indirectly to the students. We received very much positive response from all the invited guests and participants.

Report Prepared By

Mr. Jayesh V. Savaj

Mr. Vishal J. Rana

Report Submitted to

ISTE and GTU