



Department of Mechanical Engineering
Academic Year 2024 – 2025 (Even Semester)
Details of Programme Organized

Sl. No.	Contents	Details
01.	Title of the programme	Various Welding Processes Used in Thermal Power Boiler Manufacturing
02.	Programme Theme	Engineering The Path To Industrial Success
03.	Programme Type	Half day Guest Lecture
04.	Details of resource person	Dr.K.Devakumaran, Senior Manager, Methods Welding, Advanced Technology and Product, BHEL Ltd, Trichy.
05.	Mode & Venue / Platform	Mechanical Seminar Hall
06.	Date & Duration	January 25 th 2025 & 2 Hrs
07.	No. of Student Participants	38
08.	No. of Faculty Participants	-
09.	No. of External Participants	NA
10.	Expenditure amount (if any)	NA
11.	Social Media URL	https://www.instagram.com/p/DFKc3RHPs-b/?igsh=dzBzenp0MHU5c2Rm
12.	Video URL (if any)	-

13. Poster:

**RAMCO INSTITUTE OF TECHNOLOGY**

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NAAC Accredited with 'A+' Grade & An ISO 9001: 2015 Certified Institution
NBA Accredited UG Programs: CSE, EEE, ECE and MECH

PRESENTED BY
RIT MECHANIZO

INDUSTRIAL LECTURE ON
VARIOUS WELDING PROCESS USED IN
THERMAL POWER BOILER MANUFACTURING



DATE & TIME
25 JANUARY 2025,
2.30PM TO 4.00PM

CHIEF GUEST
DR.K.DEVAKUMARAN,
SENIOR MANAGER
METHODS WELDING, ADVANCED TECHNOLOGY PRODUCT
BHARAT HEAVY LIMITED, TRICHY

ENGINEERING THE PATH TO INDUSTRIAL SUCCESS.

STUDENT COORDINATOR
M.SELVAM , III YEAR MECH
S. YUVAMANOJKUMAR, III YEAR MECH

SUSTAINABLE DEVELOPMENT GOALS

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

FACULTY COORDINATOR
DR.G.PRABU RAM,
AP(SR.GR)/MECHANICAL

PATRON
DR.S.RAJAKARUNAKARAN
VICE PRINCIPAL AND
HEAD/MECH

CHIEF PATRON
DR.L.GANESAN
PRINCIPAL

  @ritmechrjpm

 mechanical-rit

 RIT MECHANICAL

 mech@ritrjpm.ac.in


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RIT MECHANIZO PRESENTS

**Industrial Lecture on
Various welding process used in
Thermal Power Boiler
Manufacturing**




Chief Guest
 Dr. K.Devakumaran
 Senior Manager
 Methods Welding, Advanced Technology Product
 Bharat Heavy Limited, Trichy

Engineering the path to Industrial success.


25 January 2025


2.30PM to 4.30PM







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 mechanical-rit


 RIT MECHANICAL


 mech@ritrjpm.ac.in

14.Event Overview:

The Department of Mechanical Engineering, in association with **RIT MECHANIZO**, successfully organized an **Industrial Lecture** on **January 25, 2025**. The session focused on "**Various Welding Processes Used in Thermal Power Boiler Manufacturing**", providing students with essential knowledge about industrial welding techniques.

The lecture was conducted by an **industry expert**, who provided insights into various welding processes used in the fabrication of thermal power boilers. The session aimed to bridge the gap between theoretical knowledge and industrial applications, preparing students for real-world engineering challenges.

15.Topics Covered:

1. **Weldability:** Understanding the factors that influence the ease with which materials can be welded while ensuring structural integrity.
2. **Types of Welding Processes:** Overview of different welding methods used in industrial applications.
3. **Metal Inert Gas (MIG) Welding:** Explanation of the gas metal arc welding (GMAW) process, its advantages, and applications in power plant equipment.
4. **Tungsten Inert Gas (TIG) Welding:** Detailed discussion on the precision and control offered by TIG welding for high-quality joints.
5. **Submerged Arc Welding (SAW):** Exploration of SAW techniques, their efficiency, and their role in large-scale boiler fabrication.
6. **Boiler Manufacturing:** Insight into how advanced welding processes contribute to the fabrication of thermal power boilers, ensuring durability, efficiency, and safety.

16.Participation:

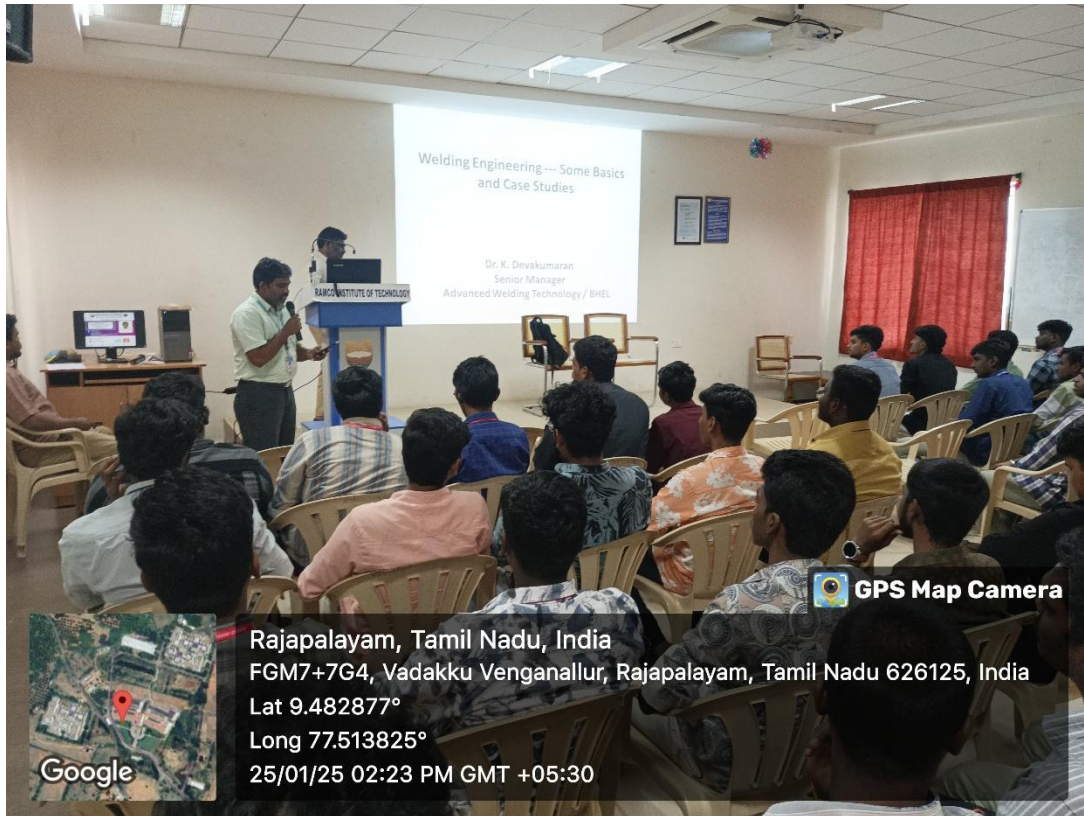
Students from 1st, 2nd, 3rd, and 4th year Mechanical Engineering actively participated in the Industrial Lecture on "Various Welding Processes Used in Thermal Power Boiler Manufacturing." Their enthusiastic involvement made the session highly interactive and insightful, enhancing their understanding of advanced welding techniques and industrial applications.

17.Certification:

Online participation certificates were provided to all attendees of the Industrial Lecture on "Various Welding Processes Used in Thermal Power Boiler Manufacturing."



18.Image.





RIT Mechanizo Faculty Coordinator

HOD(MECH)

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