



K. RAMAKRISHNAN
COLLEGE OF TECHNOLOGY
SAMAYAPURAM - TRICHY



DEPARTMENT OF
MECHANICAL ENGINEERING

In Association With



The Institution of
Engineers (India)

ORGANIZED

WEBINAR

ON

ADVANCED METAL JOINING TECHNIQUES

DATED: 02.04.2021

NO. OF STUDENTS PARTICIPATED: 137

ABOUT WEBINAR:

The Department of Mechanical Engineering, k.Ramakrishnan College of Technology organized an webinar on “**Advanced Metal Joining Techniques**” on 02nd April 2021, Friday through MS Team platform. The resource person was Dr.M.P.Prabakaran – Assistant Professor – Erode Sengunthar Engineering College, Erode. The event started with welcome address. Resource person emphasized the importance of Metal Joining techniques with specific examples in the case of manufacturing industry. The lecture started around 11.00 AM and ended around 12.15 PM. The lecture was received with admiration by the students and they also found the contents appropriate. The event ended with honorarium and vote of thanks.

Topics Covered:

DIFFERENT JOINING TECHNIQUES:

Classification welding - Categories of welding process – Arc Welding – Gas Metal Arc Welding (GMAW) – Gas Tungsten Arc Welding (GTAW) – Resistance Welding, Different types of resistance welding – Oxy Fuel Gas Welding (OFW) – Fusion Welding Process, Electron Beam Welding (EBW), Laser Beam Welding (LBW), Thermit Welding, (TW), Solid State Welding (SSW), Friction Stir Welding (FSW), Ultrasonic Welding (USW) – Welding defects – Iron Carbon Phase diagram – Weld zone – Microstructure study.

RESOURCE PERSONS:

S.No	NAME	DESIGNATION	ORGANIZATION
1	Dr.M.P.Prabakaran	Assistant Professor	Erode Sengunthar Engineering College, Erode, Tamilnadu

Profile of the Resource Person



Dr.M.P.Prabakaran is Associate professor of Mechanical Engineering Department at Erode Sengunthar College of Engineering, Erode. He has a Ph.D in Laser Welding process from Anna University, Chennai. He has 7 year experience in teaching. He has more 20 publications to his credit in top journals. He is also on the International Editorial Boards of International journal of Non-Metallic Material Science, reviewer of Journal of the Brazilian Society of Mechanical Sciences and Engineering (Springer) and Advances in Materials and Processing Technologies (Taylor & Francis). He has a associate member of Universal Association of Mechanical and Aeronautical Engineers (UAMAE) under Senior Member category, Member of the International Association of Engineers (IAENG) and Member of Hong Kong Society of Mechanical Engineers (HKSME).

Co-Ordinator:

S.No	NAME	DESIGNATION	ORGANIZATION
1	Mr.T.Rajkumar	Assistant Professor	K.Ramakrishnan College of Technology, Samayapuram

Co - Coordinator:

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DEPARTMENT OF MECHANICAL ENGINEERING
Proudly Presents
In Association With
The Institution of Engineers (India)
WEBINAR ON
ADVANCED METAL JOINING TECHNIQUES

Resource Person:
Dr.M.P.Prabakaran
Assistant Professor,
Dept. of Mechanical Engg.,
Erode Sengunthar Engg College
Erode
Date: 02-04-2021
Timing: 11:00 am - 12:00 pm

MS teams
*E - Certificate will provided to the all participants

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G.Arunkumar
Co-ordinators

Mr.G.Navannethakrishnan
HoD/Mech

Dr.K.V.Shriram
Dean

Dr.S.Kuppusamy
Executive Director

Dr.K.Ramakrishnan
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EVENT INVITATION:

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DEPARTMENT OF MECHANICAL ENGINEERING
In Association with
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CORDIALLY INVITES YOU
WEBINAR ON
ADVANCED METAL JOINING TECHNIQUES

RESOURCE PERSON
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Assistant Professor - Mech
Erode Sengunthar Engineering College, Erode
DATE:- 02-04-2021 TIME:- 11.00 am

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SESSION PHOTOS

01:36:58

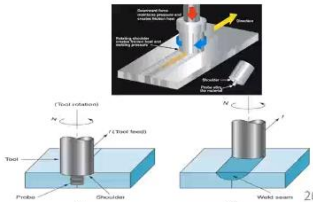
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Friction Stir Welding (FSW)

SSW process in which a rotating tool is fed along a joint line between two workpieces, generating friction heat and mechanically stirring the metal to form the weld seam.

- Distinguished from FRW because heat is generated by a separate wear-resistant tool rather than the parts.
- Applications: butt joints in large aluminum parts in aerospace, automotive, and ship-building.



Dr.M.P.Prabakaran (Guest) 02-04-2021

Participants

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Presenters (2)

- KRCT-II-MECH-A Organizer
- Dr.M.P.Prabakaran (Guest)

Attendees (116)

- Harish Kumar G S (Guest)
- keshavan (Guest)
- "Prajwal (Guest)"
- A. Karthick (Guest)
- aadhic roshan (Guest)

hari venkatesha Rai D... Dr.M.P.Prabakaran (Guest) Mohamedsalman A

01:16:50

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Classification of Welding

Welding Process

- Gas Welding
 - 1. Oxy-acetylene
 - 2. Air-Acetylene
 - 3. Oxy-Hydrogen
- Resistance Welding
 - 1. Butt
 - 2. Spot
 - 3. Seam
 - 4. Projection
- Arc Welding
 - 1. Carbon arc
 - 2. Metal arc
 - 3. Plasma arc
 - 4. Gas Metal Arc (MIG)
 - 5. Gas Tungsten Arc (TIG)
- Newer Welding
 - 1. Electron beam
 - 2. Laser
- Solid State Welding
 - 1. Friction
 - 2. Ultrasonic
 - 3. Diffusion
 - 4. Explosive

Dr.M.P.Prabakaran (Guest) 02-04-2021 4

+94 MK RK PC HH K

Rajeshkarthick Kr Padmanaban C.G Amarnaath G hari venkatesha Rai D... Dr.M.P.Prab...

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