



KPR Institute of Engineering
and Technology
(Autonomous)
Avinashi Road, Arasur, Coimbatore - 641 407



INDIAN WELDING SOCIETY (IWS)

ANNUAL REPORT
ACADEMIC YEAR 2022-23

Indian Welding Society

2022 - 2023

VISION

To be a leading global community linking industry, research and academicians for the advancement of welding Science and Material joining.

MISSION

To advance welding and joining through a worldwide network

Long term Goal

- ✚ To promote education, training and qualification in welding in India in parallel with international standards that are globally recognized and accepted.
- ✚ Foster R&D in welding.
- ✚ Promote health & safety in welding.

Short term Goal

- ✚ To facilitate exchange of ideas, information, development work etc. amongst members; by organizing lectures, workshops, seminars, symposia, conferences and development programs; publish periodicals, books, journals, and magazines; and develop software and educational programs, video films and training packages relating to the objectives of the Society.
- ✚ To provide Training and education of rural youth in welding and help them to settle for a quality life.
- ✚ To promote professional exchange of information, experience and advanced training within and among various countries across the globe.
- ✚ To offer flexible class room/distance learning programs in various aspects of welding & related technology that suit to requirements of various levels.

IWS MEMBERS 2022-23**FACULTY MEMBERS:**

S. No.	Name of the Faculty Member	Designation	Department
1	Dr. B.Arulmurugan	ASP	MECH

STUDENT MEMBERS:

S.No	Full Name	Dept	Year	Section
1	DHAYAHARI MOHAN E	ME	II	A
2	AMAL BABU E S	ME	II	A
3	KAVIN PRABHU S	ME	II	A
4	DANUSH PRANAV A S	ME	II	A
5	AHAMED MUYEEZUDEEN M	ME	II	A
6	ANTO MONISH W	ME	II	A
7	DARSHAN G	ME	II	A
8	DERICK ANDROW PRINCE F	ME	II	A
9	BALAJI N	ME	II	A
10	ARUN KUMAR M	ME	II	A
11	HEMACHANDRAN R	ME	II	A
12	BHARANIDHARAN K	ME	II	A
13	JEEVA M	ME	II	A
14	GOKUL R	ME	II	A
15	DHANUSH S	ME	II	A
16	ARUN V	ME	II	A
17	JAIRAM P	ME	II	A
18	KABEESH C	ME	II	A

19	JAYARAMABHARATHI S	ME	II	A
20	ARUN K	ME	II	A
21	BUVANESH B V	ME	II	A
22	GURUPRASAD S	ME	II	A
23	DHANASU S	ME	II	A
24	ANBU RAJA P	ME	II	A
25	JASHWA ARUN KISHORE S	ME	II	A
26	BALAMURUGAN S	ME	II	A
27	KISHORE R	ME	II	B
28	SUDEEP R	ME	II	B
29	SIVA VISAGAN R K	ME	II	B
30	MANJUNATH J P	ME	II	B
31	SUDARSAN T	ME	II	B
32	VISHNU M	ME	II	B
33	SIBI NANDHAN S	ME	II	B
34	ROHITH S	ME	II	B
35	RAMANEEDHARAN K S	ME	II	B
36	NAINA MOHAMED M A	ME	II	B
37	MITHUN N S	ME	II	B
38	MELVIN INFANT M	ME	II	B
39	VISWANATHAN R	ME	II	B
40	RAGUL KUMAR M	ME	II	B
41	SANJAY N	ME	II	B
42	THIRUVASAKAN	ME	II	B

43	PRAVEEN R	ME	II	B
44	THIANESHWARAN K	ME	II	B
45	RAHUL V	ME	II	B
46	VIGNESH M	ME	II	B
47	REVANTH P	ME	II	B
48	RAGHAV G	ME	II	B
49	NELLAI KATHIRAVAN N	ME	II	B
50	RAGA SHAKTHI KANNAN G	ME	II	B
51	VARUN K	ME	II	B
52	Aahash S	ME	III	A
53	Abhinesh S	ME	III	A
54	Arulkumar M	ME	III	A
55	Arun C.D	ME	III	A
56	Arun Prasath K	ME	III	A
57	Asharath A	ME	III	A
58	Athavan P.K	ME	III	A
59	Bavan Rakesh S	ME	III	A
60	Brijith Judes S	ME	III	A
61	Chandranath N.M	ME	III	A
62	Deepak S	ME	III	A
63	Deepak S.R	ME	III	A
64	Dhanushh M.S	ME	III	A
65	Dharani Dharan C	ME	III	A
66	Dharani S	ME	III	A

67	Dhivya Sankar K	ME	III	A
68	Dinesh A	ME	III	A
69	Dinesh Kumar P	ME	III	A
70	Goutham P.D	ME	III	A
71	Idhayaraja S	ME	III	A
72	Jayanth S	ME	III	A
73	Kabilan M	ME	III	A
74	Kathiravan D	ME	III	A
75	Kavin Kishore K	ME	III	A
76	Kavin M	ME	III	B
77	Kaviya P	ME	III	B
78	Krishna Kumar G	ME	III	B
79	Logeshwaran S	ME	III	B
80	Madhan S.P	ME	III	B
81	Madhumithra C	ME	III	B
82	Manoj VK	ME	III	B
83	Mathan Prasath S	ME	III	B
84	Mugilan PST	ME	III	B
85	Narendransriramoo	ME	III	B
86	Nithish P	ME	III	B
87	Premkumar N	ME	III	B
88	Ragul S	ME	III	B
89	Sabaree R	ME	III	B
90	Sabaridharan B	ME	III	B

91	Sam Sundar K	ME	III	B
92	Sanjai M	ME	III	B
93	Santhosh Kumar S	ME	III	B
94	Sathees Kumar B	ME	III	B
95	Sathiya Seelan M	ME	III	B
96	Selvakumar T	ME	III	B
97	Senthil L	ME	III	B
98	Sivaganesh K	ME	III	B
99	Sivanantham S	ME	III	B
100	Sudharsanan D	ME	III	B
101	Vasantha Kumar J	ME	III	B
102	Veeraraghavan V	ME	III	B
103	Vijai Arawindan SP	ME	III	B
104	Vinothkumar M	ME	III	B
105	Vishnu PG	ME	III	B
106	Vivekanandh SR	ME	III	B
107	Aashik M	ME	IV	A
108	Aatish R K	ME	IV	A
109	Akash M K	ME	IV	A
110	Aravindh S R	ME	IV	A
111	Aravinth Pranav R	ME	IV	A
112	Aswin sriram J	ME	IV	A
113	Balanarayanan T	ME	IV	A
114	Bharathwaj P	ME	IV	A

115	Boovasanth S P	ME	IV	A
116	Dilipan N	ME	IV	A
117	Divyasaran S	ME	IV	A
118	Ebinazer A	ME	IV	A
119	Gokilavarshini K	ME	IV	A
120	Gokul M	ME	IV	A
121	Gowtham M	ME	IV	A
122	Hari prasad S	ME	IV	A
123	Harini S V	ME	IV	A
124	Harish S	ME	IV	A
125	Infant Tony Brain G	ME	IV	A
126	Jeevan prasanth S	ME	IV	A
127	Kannan A	ME	IV	A
128	Karthigeyan S	ME	IV	A
129	Keerthan G S	ME	IV	A
130	Kingslin T.J	ME	IV	B
131	Kirubakaran S	ME	IV	B
132	Kishore Kumar K S	ME	IV	B
133	Nivetha R S	ME	IV	B
134	Praveen S	ME	IV	B
135	Pravesh Ahamed R	ME	IV	B
136	Rahul S	ME	IV	B
137	Ramvignesh B	ME	IV	B
138	Sanjeev M S	ME	IV	B

139	Seethapathi L	ME	IV	B
140	Sridhar Sakthivel S	ME	IV	B
141	Sujith S	ME	IV	B
142	Thamarai Selvan S	ME	IV	B
143	Varadharaj K	ME	IV	B

Office bearer for Academic Year - 2022-2023

Position	Student Name	Mobile Number	Class
President	Mr. Ramvignesh B	7411424091	IV Mech B
Secretary	Mr. Keerthan G S	8610408806	IV Mech A
Treasurer	Mr. Manoj V K	8508434728	III Mech B
Vice President	Mr. Dhanush M S	7397195037	III Mech A
Joint Secretary	Mr. Kabilan M	8428688181	III Mech A
Deputy Treasurer	Ms. Madhumithra C	8111089879	III Mech B

Executive Members

Mr. Dinesh Kumar	9087508608	III Mech A
Mr. Dinesh	8056576852	III Mech A
Ms. Dharani S	6380315143	III Mech B
Ms. Kaviya P	6369391591	III Mech B
Mr. Arunathiyan	9566315514	II Mech A
Mr. Arulkumar R	8870074831	II Mech A
Mr. Mithun. S	9790658856	II Mech B
Mr. Solaiyappan. K	9514517161	II Mech B

EVENTS PLAN FOR THE ACY 2022-23

Event No.	Date	Type of Event	Title of the Event
1	23.7.2022	Webinar	Welding Automation
2	21.8.2022 to 26.8.2022	Upskilling- Student internship	Non Destructive Testing
3	24.12.2022	Guest Lecture	Welding of metals used in Aerospace industry
4	3.1.2023	Hands on training	Non Destructive Testing – A Plus NDT Training center
5	04.03.2023	Workshop	Advances in Additive manufacturing

EVENTS ORGANIZED FOR THE ACY 2022-23

Event No.	Date	Title of the Event	No. of Participants
1	30.07.2022	Guest lecture on Need for Welding Automation	66
2	22.8.2022 to 27.8.2022	Upskilling week on Non Destructive Testing	09
3	25.02.2023	Workshop on Blunder software	60
4	10.03.2023 to 13.03.2023	One Credit Course on Introduction to Robotic Welding	29


HoD/MECH

Event No. : 01
Date of the event : **30.07.2022**
Venue/ Platform : IV MECH A - Classroom
Level of the Event : Department Level
Type of Event : Guest Lecture
Title of the Event : Need for Welding Automation
In Association with : IWS
Resource Person 1 : Mr.S.Ramanathan, Technical Project Manager, Kavin Inc., Coimbatore

Convener with dept./ desg. : Dr.B.Arulmurugan AsP/MECH

: Faculty : 04
Research Scholars : 02
No. of Internal Participant (Count) : Students : 64
Others :-

Outcome :

Any other Remark :

Detailed explanation of the Event:

Department of Mechanical Engineering in association with Indian Welding Society organized a Guest lecture on the topic entitled

“Need for Welding Automation” by Mr.S.Ramanathan, Technical Project Manager, Kavin Inc., Coimbatore on 30.07.2022 from 2.00 PM to 3.00PM. Around 70 aspirants had attended the session. The speaker emphasized the need for welding automation and its demand in industries. He also explained the various types of robots, manipulators, controllers used in robotic welding for different application. Further, he interacted with the participants and clarified the doubts raised. The session was vibrant, interactive and very much helpful to the participants.

Poster:

KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")

Department of Mechanical Engineering

Department of Mechanical Engineering
and IWS - Student Chapter of KPRIET
Is organizing a Guest Lecture on

Need for Welding Automation
30 July 2022, 02:00 PM
Venue: Department of Mechanical Engineering

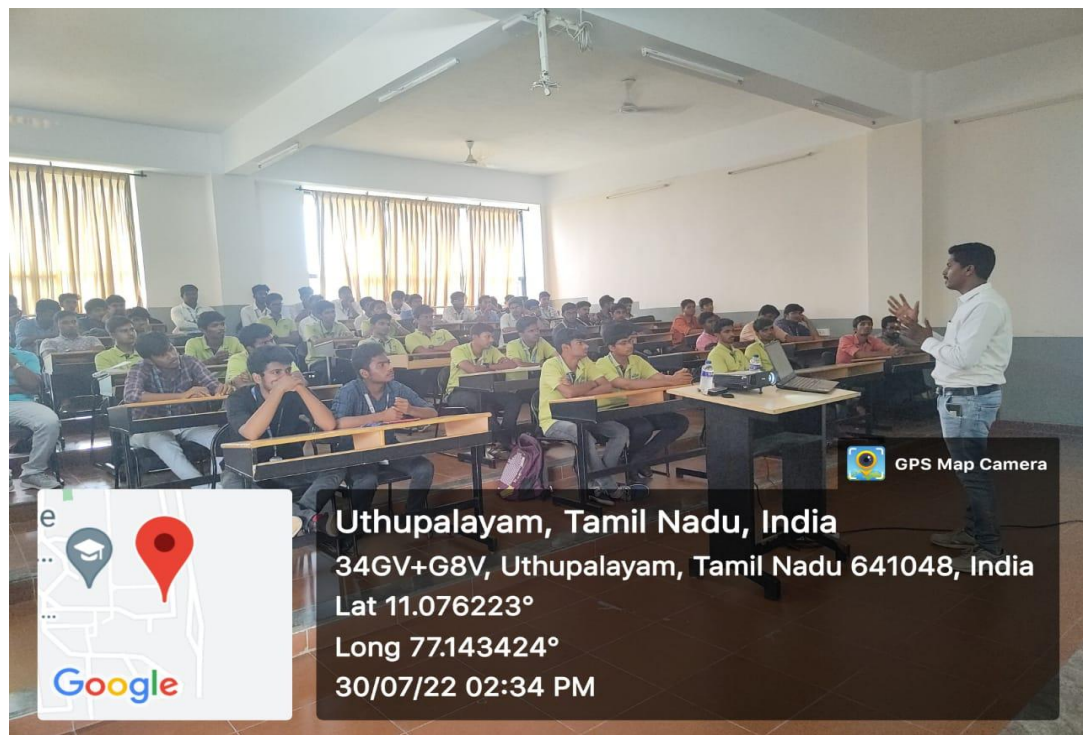
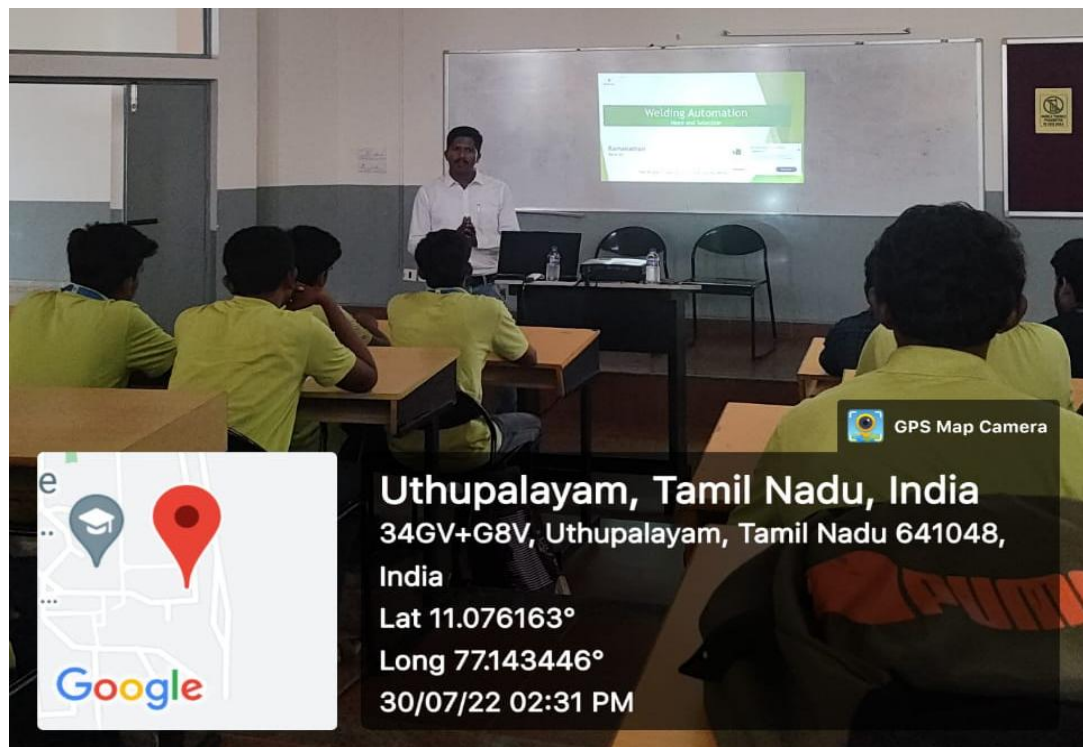
Resource Person:
Mr. S. Ramanathan
Technical Project Manager,
Kavin Inc., Coimbatore.

IWS

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KPRIET supports the Sustainable Development Goals

Photograph:



UPSKILLING ACTIVITY REPORT
ACADEMIC YEAR 2022 - 2023

Title : Hands-on Training on Non Destructive Testing (NDT)	
Duration : 40 Hours	Date: 22 nd Aug 2022 to 27 th Aug 2022
Collaborating Agency: A Plus NDT, Coimbatore, Haasee NDT Inspection, Coimbatore, Cosmic Industrial Lab, Coimbatore Hitech India Equipment, Chennai.	
Venue: A Plus NDT, Coimbatore	
Objective of the event: To get hands-on experience with various automated systems used in industries.	
Details of the speaker	
Name & Address	Topic
1) Mr.S.Raguram, Trainer, A Plus NDT, Coimbatore. Mobile : 8220053888 Email: info.aplusndt@gmail.com	1) Introduction, Different Certifications & Virtual Inspection Method 2) Liquid Penetrant Testing & Ultrasonic Thickness Gauge 3) Ultrasonic Testing & Magnetic Particle Inspection
2) Mr.S.Subramanian, Haasee NDT Inspection and Training Services, Coimbatore. Mobile : 7598282888 Email: info.haaseegroups@gmail.com	Radiographic Testing
3) Mr.R.Ragulnath , Cosmic Industrial Lab, Coimbatore. Mobile : 7019116482 Email: info@cosmiclabs.com	
4) Mr.Uma Shankar, Managing Director, Hitech India Equipment, Chennai. Mobile : 99401 07931 Email: hitechindiaequipments@gmail.com	Career Opportunities in NDT
Budget (Rs.)	Nil
No. of Participant's & Class	09 & II Mech
Description about the course: The Department of Mechanical Engineering in association with A Plus NDT, Coimbatore & Hitech India Equipment, Chennai organized one week upskilling activity for 09 students from II Year Mechanical Engineering. The students were trained in the following topics:	

Day 1: Introduction - Mr.S.Raguram

Fundamentals of and introduction to destructive and non-destructive testing. Scope and limitations of NDT.

Enclosure: (✓ the documents submitted)

Report	Course Authorization	Syllabus	Schedule	Attendance	Assessment Question and answer	Consolidated Mark Statement	Sample Certificate	Sample Feedback	Consolidated Feedback	Any other relevant documents

B. A. 
Coordinator


HOD

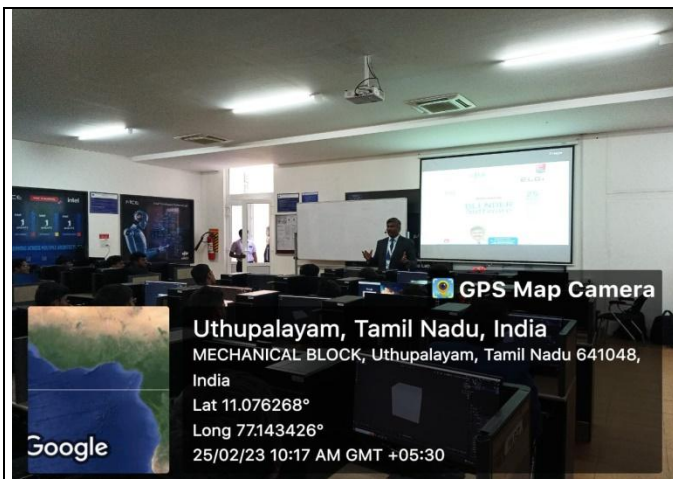
SYNERGY'23

Workshop on Blunder software Report

Date	25.02.2023	Timing	9.30 am to 4 pm
Speaker Name	Dr.B.Somasundaram		
Speaker Designation	Head – Digital transformation		
Company Name	ELGI Equipments Pvt. Ltd.Coimbatore		
Venue	CSE - NMS Lab		
Type of Session	Offline (FN&AN)		
Topic	Workshop on Blunder software		
Moderator Name	Dr.S.Dharani kumar & Dr.B.Arulmurugan		
No. of Participants	60		

Write up / Summary of the session(15 to 20 lines) :

Department of Mechanical Engineering will host a one-day workshop on Blender software in collaboration with the Indian Welding Society student chapter as part of Synergy 2023 on 25.2.2023. Dr.B.Somasundaram, Head – Digital transformation, ELGI Equipment Pvt. Ltd., Coimbatore has consented to be the Chief guest of this event. He gave a brief overview of the Blender software and how it has been used in the industrial sector. He explains how Blender can be used to create animated films, visual effects, art, 3D-printed models, motion graphics, interactive 3D applications, virtual reality, and video games. He briefs about Blender's features include 3D modelling, UV mapping, texturing, digital drawing, raster graphics editing, rigging and skinning, fluid and smoke simulation, particle simulation, soft body simulation, sculpting, animation, match moving, rendering, motion graphics, video editing, and compositing. He also shows an air compressor model that was created using the Blender software. In the afternoon session, participants received hands-on training in areas such as creating realistic 3D objects, customising 3D objects, editing animations for our creations, sculpting models with different brushes, meshing in order to customise it, simulating liquid, and creating own video games. Finally, he discusses internship and job opportunities with ELGI equipment. Students were very engaged and asked many questions about blunder software and benefited from the workshop.



Dr.B.Somasundaram, Head – Digital transformation, ELGI Equipment Pvt. Ltd., briefs the need of Blender software



Dr.B.Somasundaram shows the simulation of model created by Blender software

Event No. : 03

Date of the event : **10.03.2023, 11.03.2023 & 13.03.2023**

Venue/ Platform : IV MECH A - Classroom

Level of the Event : Department Level

Type of Event : Industry oriented One Credit Course

Title of the Event : One Credit Course on Introduction to Robotic Welding

In Association with : IWS

Resource Person 1 : Mr.S.Ramanathan, Technical Project Manager, Kavin Inc., Coimbatore

Convener with dpet./ desg. : Dr.B.Arulmurugan AsP/MECH

	: Faculty	: 01
	Research Scholars	: 01
No. of Internal Participant (Count)	Students	: 27
	Others	:-
Outcome	: Mentioned below	
Any other Remark	: nil	

Detailed explanation of the Event:

Department of Mechanical engineering is organizing Industry oriented One Credit Course on Introduction to Robotic Welding in

association with Indian Welding Society (IWS). Mr.S.Ramanathan, Technical Project Manager Kavin INC., Robotic Technology Center, Coimbatore is the Resouce person for this course. He is going to discuss about following topics Basics of Robotic welding Robot safety Types of Robot application Selection of Robot and axis w.r.to application Selection of Robot accessories w.r.to application Robot teaching – TPC, WOC, Multi end effectors, command logics Hands on training Types of Robot accessories External axis application Usage of simulation software Design of fixtures Application of Robotic add on software and its working principles. The outcome of the events are 1. Students gained knowledge on How robots can be employed in welding application

2. Students gained knowledge on Different types industrial robots

3. Hands on training on "ABB Robot simulation software"

4. Undergone one day skill training in Welding Robots in the industry

5. Earned their One credit through the course "Introduction to obotic welding"

6. 3 Students will undergo 2 weeks internship in Kavin Inc., coimbatore

7. 5 students will involve in product development in association with Kavin Inc., coimbatore

Poster:


KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")

Department of Mechanical Engineering
Is organizing an Industry Oriented One-Credit Course on

Introduction to Robotic Welding

Resource Person
Mr. S. Ramanathan,
Technical Project Manager
Kavin INC., - Automation & Robotic Technology Center,
Coimbatore.

10 & 11 MARCH 2023

Coordinator
Dr. B. Arulmurugan, Associate Professor
Convenor
Dr. S. Ramesh Babu, Professor & Head
Department of Mechanical Engineering.

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Photograph: