



RAMCO INSTITUTE OF TECHNOLOGY

North venganallur Village, Rajapalayam - 626 117
Approved by AICTE, New Delhi, Affiliated to Anna University, NAAC, NBA
Accredited and ISO 9001:2015 Certified Institution



Department of Mechanical Engineering

Date: 08.11.2021

Report – Guest Lecture on “Impacts of Robotics Technology in Industry”

Date: 29.10.2021

Time: 02.30 PM To 04.00PM

Venue: First Year Mechanical Class Room

Convenor :

1. Mr.Ramar, AP/Mechanical

Faculty Coordinators:

1. Mr.S. Kathiravan, AP/Mechanical
2. Mr.P. Pavithran, AP/Mechanical

Student Coordinators:

1. Mr.S.Santhosh / IV-Mech – student chairman.
2. Mr.R.Madhavakannan / IV Mech – student vice chairman.
3. Mr.S.Jehaveerapandiyan / III Mech – Student program chair.

RIT-Mechanizo, Department of Mechanical Engineering organized a Intra disciplinary Extension Lecture Series ELS01 on “**Impact of Robotics Technology in Industry**” on 29.10.2021, 02.00PM to 4.00PM. Mr.R.Dinesh, III Year Mechanical, delivers a guest lecture. Totally 54 Participant attended the lecture. We have allotted last 15 few minutes for questionnaire session and resource person cleared the participant’s doubts and shared his experience. Mr.S.Jehaveerapandihyan delivered the Vote of thanks and we got 15 feedbacks from the participants and they have mentioned topic was very useful to enrich their technical knowledge and requested to conduct more guest lectures like this.

Topics discussed:

- Abstract of the internship
- IOT (Internet Of Things)
- Thing works
- Implementation
- Dashboard generation
- Creating thing template
- Final visualization of MIG welding

Brochure Sample:



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in association with
RIT MECHANIZO

Intra Disciplinary Extension Lecture Series- ELS01 Impact of Robotics Technology in Industry



Who can attend?

- 1 year Mechanical Engineering Students

Student Coordinators

Mr.S.Santhosh, IV-Mech, Student Chairman
Mr.R.Madhavakannan, IV-Mech, Student Vice-Chairman
Mr.S.Jehaveerapandiyan, III-Mech, Student Program Chair

FACULTY COORDINATOR(S)

Mr.S.Kathiravan, AP/Mech
Mr.P.Pavithran, AP/Mech

CONVENOR

Mr.M.Ramar, AP/Mech

PATRON

Dr.S.Rajakarunakaran
Vice Principal and Head /Mech

CHIEF PATRON

Dr.L.Ganesan
Principal



MR. R. DINESH

III year Mechanical
RIT, RJPM

OCT29, 2021
2:30 PM TO 4:00 PM

For queries kindly contact us

Ph: 6369105815, 9384194633

Email : mech@ritrjpm.ac.in

<https://www.ritrjpm.ac.in/>

rit@ritrjpm.ac.in

/ramco_rajapalayam /Ramco Rajapalayam

Glimpse(s):



IITD-AIA Foundation for SMART MANUFACTURING
"A SAMARTH UDOOD INITIATIVE"



Approved by AICTE, New Delhi & Affiliated to Anna University
Accredited by NAAC & An ISO 9001: 2015 Certified Institution
NBA Accredited UG Programs: CSE, EEE, ECE and MECH

FSM ONLINE INTERNSHIP

Robotic Welding Parameters Correlation and Dashboard Generation

Dinesh R

B.E | Mechanical Engineering,
Ramco Institute of Technology,
Rajapalayam, Tamil Nadu – 626117

Under the Mentorship Of
Rajesh Bhatt

Activate Windows
Go to Settings to activate Windows.

PROBLEM FOUND

- Bring the robotic welding system on the dashboard using an open-source platform.
- Understand and represent the welding process parameters on the dashboard for a plant supervisor.



IMPLEMENTATION

- To segregate the parameters according to the user role given in the PDF (WeldCubeConnect-TPSi_API-Description_OPC-UA).
- The user role that I took have segregated a MIG welding parameter according to the user role was,
 - Production operator
 - Plant supervisor



Chart for Total_no_of_welds and Power Generated

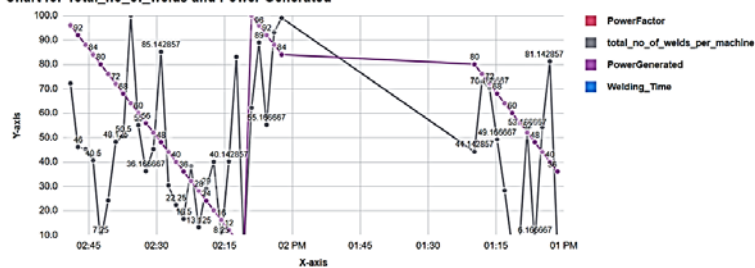
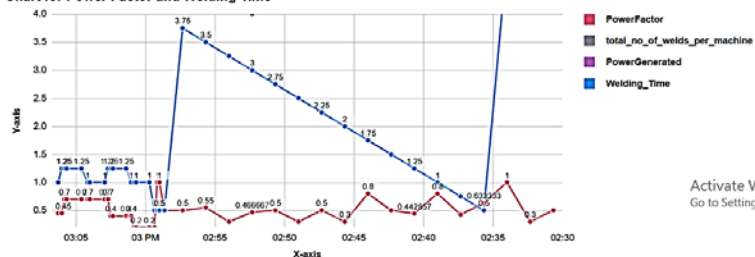



Chart for Power Factor and Welding Time



Activate Windows
Go to Settings to activate Windows.




Attendance Proof:



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Department of Mechanical Engineering
RIT MECHANIZO



Date: 29.10.2021

Intra Disciplinary Extension Lecture Series ELS01 on "Impact of Robotics Technology in Industry"

SL.NO	REGISTER NO	NAME	YEAR / SECTION	SIGNATURE
1.		R. Harish Krishnan	I st / MECH	R. Harish Krishnan
2.		N. Balakumar	I st / mech	N. Balakumar
3.		K. Karthikeyan	I st / mech	K. Karthikeyan
4.		M. Senthil Kumar	I st / mech	M. Senthil Kumar
5.		K. Pavan Shankar	I st / Mech	K. Pavan
6.		V. Harish k	I st / Mech	V. Harish k
7.		R. K. RAMNATH SARGURU	I st / mech	R. K. Ramnath
8.		U. Ram Kumar	I st / mech	U. Ram Kumar
9.		M. Karthikeyan	I st / mech	M. Karthikeyan
10.		S. Suresh	I st / mech	S. Suresh
11.		A. Balaji	I st / Mech	A. Balaji
12.		C. Pal Pradi	I st / Mech	C. Pal Pradi
13.		L. SadaVana Kumar	I st / mech	L. SadaVana Kumar
14.		M. Prabhukumar	I st / mech	M. Prabhukumar
15.		R. Krishna	I st / Mech	R. Krishna
16.		R.S. Bhuvanesh	I st / Mech	R.S. Bhuvanesh
17.		S. Sankar Ganesh	I st / Mech	S. Sankar Ganesh
18.		A. Sathish Kumar	I st / mech	A. Sathish Kumar
19.		R. Sathish	I st / mech	R. Sathish
20.		S. Saravanan Kumar	I st / mech	S. Saravanan Kumar
21.		P. Anandhan	I st / MECH	P. Anandhan
22.		Judharshan R	I st / Mech	Judharshan R
23.		Rajan Mohan deen	I st / mech	Rajan Mohan deen
24.		M. Mohamed Imrul	I st / mech	M. Mohamed Imrul
25.		K. Varun	I st / Mech	K. Varun
26.		F. Mohamed Rasath	I st / mech	F. Mohamed Rasath
27.		M. Subbiah Selvam	I st / MECH	M. Subbiah Selvam
28.		R. Sri Sabari Venkatesh	I st / MECH	R. Sri Sabari Venkatesh
29.		P. Ganesh Kumar	I st / MECH	P. Ganesh Kumar
30.		V. Suresh Kumar	I st / MECH	V. Suresh Kumar
31.		J. Ganesh Kumar	I st / Mech	J. Ganesh Kumar
32.		M. Surya Prakash	I st / Mech	M. Surya Prakash
33.		V. Sateesh Bherathi	I st / Mech	V. Sateesh Bherathi
34.		T. Mohan	I st / Mech	T. Mohan
35.		K. Jeyan Prakash	I st / Mech	K. Jeyan Prakash
36.		S. Jeyarajan Prakash	I st / Mech	S. Jeyarajan Prakash
37.		M. Ananthiyar	I st / MECH	M. Ananthiyar
38.		N. Gurusankar	I st / Mech	N. Gurusankar
39.		A. Kodiappan	I st / mech	A. Kodiappan

40.	M. Bhuvaneshwari	I st / Mech	m. Bhuvaneshwari
41.	M. Divyanshi	I st / mech	M. Divyanshi
42.	B. Ranji	I st / mech	A. Ranji
43.	S. Balaji	I st / mech	S. Balaji
44.	M. Pragna Suresh	I st / mech	M. Pragna
45.	B. Vignesh	I st / mech	B. Vignesh
46.	R. Divya	I st / mech	R. Divya
47.	P. Simranpreeth	I st / mech	P. Simranpreeth
48.	H. Nivetha	I st / mech	H. Nivetha
49.	R. Madhavan	I st / mech	R. Madhavan
50.	H. Shebinanthan	I st / Mech	H. Shebinanthan
51.	R. Sriharan	I st / mech	R. Sriharan
52.	S. Divyapreet	I st / Mech	S. Divyapreet
53.	N. Kishan	I st / Mech	N. Kishan
54.	S. Arjun	I / Mech	S. Arjun
55.			
56.			
57.			
58.			

Feedback:

RAMCO INSTITUTE OF TECHNOLOGY Department of Mechanical Engineering

Intra Disciplinary Extension Lecture Series Feedback Form

(Please fill-up the form to help us improve and maintain the quality of the programme)

Name of the Participant (Optional) : *M. Bhuvaneshwari*
Title of Programme / Course attended : **Impact of Robotics Technology in Industry**
Date and Venue : 28.10.2021
Name of the Resource Person / Speaker : Mr. R. Dinesh, III Year Mechanical

(Please ✓ in appropriate box)

a. How do you feel about the programme / course content?

Very Good Good Satisfactory Poor

b. How do you rate the lecture sessions / presentations? (if relevant)

Very Good Good Satisfactory Poor

c. How do you rate the practical sessions? (if relevant)

Very Good Good Satisfactory Poor

d. How do you rate the interactive sessions? (if relevant)

Very Good Good Satisfactory Poor

e. How do you rate the quality of course material given to you? (if relevant)

Very Good Good Satisfactory Poor

f. How do you rate the usefulness of programme in improving your skills?

Very Good Good Satisfactory Poor

g. To what extent you have improved your knowledge / skills after attending the programme?

85-95% 75-85% 50-75% 25-50%

h. How do you rate the timely communication in all aspects of the programme? (if relevant)

Very Good Good Satisfactory Poor

i. How do you rate the overall arrangement and conduct of the programme / course?

Very Good Good Satisfactory Poor

j. Whether the contents discussed were relevant to the topics planned? *Yes / No*

k. Would you like to have another programme by the same Resource person? *Yes/ No*

l. Name the specific topic or session, which you liked most: *IOT*

m. Any specific feedback: *It's very useful to our placement.*

Date: *9.11.2021*

Signature of Participant: *M. Bhuvaneshwari*

RAMCO INSTITUTE OF TECHNOLOGY
Department of Mechanical Engineering

Intra Disciplinary Extension Lecture Series Feedback Form

(Please fill-up the form to help us improve and maintain the quality of the programme)

Name of the Participant (Optional) : *N. Guzu Sankar*
Title of Programme / Course attended : **Impact of Robotics Technology in Industry**
Date and Venue : 28.10.2021
Name of the Resource Person / Speaker : Mr. R. Dinesh, III Year Mechanical

(Please ✓ in appropriate box)

a. How do you feel about the programme / course content?

Very Good Good Satisfactory Poor

b. How do you rate the lecture sessions / presentations? (if relevant)

Very Good Good Satisfactory Poor

c. How do you rate the practical sessions? (if relevant)

Very Good Good Satisfactory Poor

d. How do you rate the interactive sessions? (if relevant)

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Very Good Good Satisfactory Poor

j. Whether the contents discussed were relevant to the topics planned? Yes / No

k. Would you like to have another programme by the same Resource person? Yes / No

l. Name the specific topic or session, which you liked most: *IOT.*

m. Any specific feedback: *It's very useful to our placement.*

Date: *9.11.2021*

Signature of Participant: *N. Guzu Sankar*

RAMCO INSTITUTE OF TECHNOLOGY
Department of Mechanical Engineering

Intra Disciplinary Extension Lecture Series Feedback Form

(Please fill-up the form to help us improve and maintain the quality of the programme)

Name of the Participant (Optional) :
Title of Programme / Course attended : **Impact of Robotics Technology in Industry**
Date and Venue : 28.10.2021
Name of the Resource Person / Speaker : Mr. R. Dinesh, III Year Mechanical

(Please ✓ in appropriate box)

a. How do you feel about the programme / course content?

Very Good Good Satisfactory Poor

b. How do you rate the lecture sessions / presentations? (if relevant)

Very Good Good Satisfactory Poor

c. How do you rate the practical sessions? (if relevant)

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d. How do you rate the interactive sessions? (if relevant)

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Very Good Good Satisfactory Poor

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h. How do you rate the timely communication in all aspects of the programme? (if relevant)

Very Good Good Satisfactory Poor

i. How do you rate the overall arrangement and conduct of the programme / course?

Very Good Good Satisfactory Poor

j. Whether the contents discussed were relevant to the topics planned? Yes / No

Yes / No

k. Would you like to have another programme by the same Resource person? Yes / No

Yes / No

l. Name the specific topic or session, which you liked most: **MOTIVATIONAL PROGRAMME**

m. Any specific feedback: **It's very useful programme,**

Date: **9/11/21**

I. Sarathana Kumar
Signature of Participant:

RAMCO INSTITUTE OF TECHNOLOGY
Department of Mechanical Engineering

Intra Disciplinary Extension Lecture Series Feedback Form

(Please fill-up the form to help us improve and maintain the quality of the programme)

Name of the Participant (Optional) : *R. Sridharan*
Title of Programme / Course attended : **Impact of Robotics Technology in Industry**
Date and Venue : 28.10.2021
Name of the Resource Person / Speaker : Mr. R. Dinesh, III Year Mechanical

(Please ✓ in appropriate box)

a. How do you feel about the programme / course content?

Very Good Good Satisfactory Poor

b. How do you rate the lecture sessions / presentations? (if relevant)

Very Good Good Satisfactory Poor

c. How do you rate the practical sessions? (if relevant)

Very Good Good Satisfactory Poor

d. How do you rate the interactive sessions? (if relevant)

Very Good Good Satisfactory Poor

e. How do you rate the quality of course material given to you? (if relevant)

Very Good Good Satisfactory Poor

f. How do you rate the usefulness of programme in improving your skills?

Very Good Good Satisfactory Poor

g. To what extent you have improved your knowledge / skills after attending the programme?

85-95% 75-85% 50-75% 25-50%

h. How do you rate the timely communication in all aspects of the programme? (if relevant)

Very Good Good Satisfactory Poor

i. How do you rate the overall arrangement and conduct of the programme / course?

Very Good Good Satisfactory Poor

j. Whether the contents discussed were relevant to the topics planned? Yes / No

k. Would you like to have another programme by the same Resource person? Yes / No

l. Name the specific topic or session, which you liked most: *IOT*

m. Any specific feedback:

Date: *9/11/21*

R. Sridharan
Signature of Participant:

RAMCO INSTITUTE OF TECHNOLOGY
Department of Mechanical Engineering

Intra Disciplinary Extension Lecture Series Feedback Form

(Please fill-up the form to help us improve and maintain the quality of the programme)

Name of the Participant (Optional) : *M. Sruya Prabash.*
Title of Programme / Course attended : **Impact of Robotics Technology in Industry**
Date and Venue : 28.10.2021
Name of the Resource Person / Speaker : Mr. R. Dinesh, III Year Mechanical

(Please ✓ in appropriate box)

a. How do you feel about the programme / course content?

Very Good Good Satisfactory Poor

b. How do you rate the lecture sessions / presentations? (if relevant)

Very Good Good Satisfactory Poor

c. How do you rate the practical sessions? (if relevant)

Very Good Good Satisfactory Poor

d. How do you rate the interactive sessions? (if relevant)

Very Good Good Satisfactory Poor

e. How do you rate the quality of course material given to you? (if relevant)

Very Good Good Satisfactory Poor

f. How do you rate the usefulness of programme in improving your skills?

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85-95% 75-85% 50-75% 25-50%

h. How do you rate the timely communication in all aspects of the programme? (if relevant)

Very Good Good Satisfactory Poor

i. How do you rate the overall arrangement and conduct of the programme / course?

Very Good Good Satisfactory Poor

j. Whether the contents discussed were relevant to the topics planned? Yes / No

Yes / No

k. Would you like to have another programme by the same Resource person? Yes / No

Yes / No

l. Name the specific topic or session, which you liked most:

Internet of Things.

m. Any specific feedback:

Date: *9/11/21.*

M. Sruya Prabash.
Signature of Participant: