

EAST WEST INSTITUTE OF TECHNOLOGY

Affiliated to VTU Belagavi, Approved by AICTE, New Delhi
Recognized by Govt.of Karnataka

DEPARTMENT OF MECHANICAL ENGINEERING

Organizing a webinar on

“RECENT TRENDS IN PRODUCTION TECHNOLOGY”

On

Date: 27th to 28th July 2020

Time: 10AM-12PM

Resource persons

Day-1

Session 1: 10AM-12PM

Mr. Sadhasivam M

Expertise in : Additive manufacturing
& molten salt synthesis
NIT Tiruchy, TamilNadu

**Topic: Molten salt synthesis-
An Overview**

Day-2

Session 2: 10AM-12PM

Dr. K Tejonandha Babu

Assistant professor, KHIT,
Department of Mechanical engineering
Andhra pradesh

**Topic: Current trends in friction stir
welding: An Overview**

Platform: Zoom Meetings

Webinar Link: <https://forms.gle/omTv5Mqs9uHRVC8b8>

Presided by

Smt. Rashmi Ravikiran

Chairperson, EWGI

Sri. Tejas Kiran

Secretary, EWGI

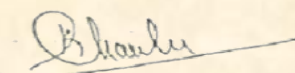
K Channakeshavalu


Principal, EWIT

Dr. Maruthi B H

HOD, ME department

**Cordial invitation to all Hod, staff and students
Department of mechanical engineering
All are welcome.**


Principal & Director
East West Institute of Technology
Bengaluru - 560 091


H.O.D.
Dept. of Mechanical Engineering
E.W.I.T., Bengaluru - 560 091

EAST WEST INSTITUTE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING

Date: 22/07/20

CIRCULAR

The Department of Mechanical Engineering is conducting “*recent trends in production technology*” on *27th to 28th July 2020* in East West Institute of Technology. All faculty members and students are here by informed to attend the program compulsorily.



H.O.D.
Dept. of Mechanical Engineering
E.W.I.T., Bengaluru - 560 091



Principal & Director
East West Institute of Technology
Bengaluru - 560 091



Sadhasivam M


Project Officer at
IIT-Madras
Correlative Microscopy
Grain Boundary Studies
Atom Probe Tomography
Magnetic Materials
Metal matrix composites

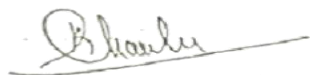
GET MY OWN PROFILE

	All	Since 2018
Citations	23	22
h-index	3	3
i10-index	0	0
	1 article	1 article
	not available	available

Based on funding mandates

TITLE	CITED BY	YEAR
<p>The effect of Al addition on solid solution strengthening in CoCrFeMnNi: Experiment and modelling J Kumar, A Linda, M Sadhasivam, KG Pradeep, NP Gurao, K Biswas Acta Materialia 238, 118208</p>	8	2022
<p>Ratcheting behavior of non-equiatomic TRIP dual-phase high entropy alloy F Bahadur, M Sadhasivam, KG Pradeep, NP Gurao, K Biswas Materialia 24, 101512</p>	3	2022
<p>Investigation on mechanical and tribological behaviour of titanium diboride reinforced martensitic stainless steel M Sadhasivam, N Mohan, SR Sankaranarayanan, SPK Babu Materials Research Express 7 (1), 016545</p>	3	2020
<p>Synthesis and characterization of TiB₂ reinforced AISI 420 stainless steel composite through vacuum induction melting technique M Sadhasivam, SR Sankaranarayanan, SPK Babu Materials Today: Proceedings 22, 2550-2558</p>	3	2020
<p>Revealing the Localization of NiAl-Type Nano-Scale B₂ Precipitates Within the BCC Phase of Ni Alloyed Low-Density FeMnAlC Steel M Saha, MB Ponnuchamy, M Sadhasivam, C Mahata, G Vijayaragavan, ... JOM 74 (8), 3181-3190</p>	2	2022
<p>Optimization of process parameters of Al-10% Cu compacts through powder metallurgy T Pravin, M Sadhasivam, S Raghuraman Applied Mechanics and Materials 813, 603-607</p>	2	2015
<p>Enhanced mechanical and thermal properties of AISI 420/TiB₂ composites fabricated by liquid metallurgy route M Sadhasivam, VKS Jain</p>	1	2021


 H.O.D.
 Dept. of Mechanical Engineering
 E.W.I.T., Bengaluru - 560 091


 Principal & Director
 East West Institute of Technology
 Bengaluru - 560 091

Composites Communications 23, 100550

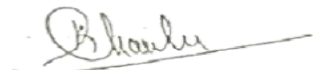
**Determination of Mechanical Properties on Aluminium with 5% Copper
Powder Metallurgy Route Compacts through Equal Channel Angular Pressing**

1 2015

M Sadhasivam, T Pravin, S Raghuraman
Applied Mechanics and Materials 813, 161-165




H.O.D.
Dept. of Mechanical Engineering
E.W.I.T., Bengaluru - 560 091



Principal & Director
East West Institute of Technology
Bengaluru - 560 091

TITLE	CITED BY	YEAR
<p>Accelerated Phase Growth Kinetics During Interdiffusion of Ultrafine-grained Ni and Sn</p> <p>B Yadav, NK Chaitanya, M Sadhasivam, J Joardar, K Guruvidyathri, ... Journal of Alloys and Compounds, 169690</p>		2023
<p>The effect of Si addition on the structure and mechanical properties of equiatomic CoCrFeMnNi high entropy alloy by experiment and simulation</p> <p>J Kumar, A Linda, M Sadhasivam, KG Pradeep, NP Gurao, K Biswas Materialia 27, 101707</p>		2023
<p>Nanoarchitectonics of self-assembled chessboard-like structures by recurrent phase separation and coalescence of nano domains in CoFeMn oxide</p> <p>AS Pal, AKL Das, K Gururaj, M Sadhasivam, KM Knowles, MI Ahmad, ... Acta Materialia 242, 118423</p>		2023
<p>Enhancing the coercivity of Nd-Cu-diffused Nd-Fe-B permanent magnets by Nb-assisted grain boundary pinning</p> <p>MB Siva Kumar, D Prabhu, M Sadhasivam, B Manjusha, ... Materials Research Letters 10 (12), 780-787</p>		2022
<p>INVESTIGATION ON MECHANICAL PROPERTIES OF BANANA FIBER REINFORCED POLYPROPYLENE COMPOSITES</p> <p>VKS Jain, M Sadhasivam, T Raghavendra, S Salyan, KKS Bharadwaj AIJR Abstracts, 110</p>		2021
<p>A new approach to synthesize nano-yttrium boride particle through metallothermic reduction process</p> <p>M Sadhasivam, LJ Berchmans, GK Meenashisundaram, ... Journal of Mining and Metallurgy, Section B: Metallurgy 56 (1), 77-87</p>		2020


 H.O.D.
 Dept. of Mechanical Engineering
 E.W.I.T., Bengaluru - 560 091


 Principal & Director
 East West Institute of Technology
 Bengaluru - 560 091

BIO DATA

Name: Dr. K. Tejonadha Babu

Designation: Associate Professor

Qualification: B.Tech, M.Tech (NIT Trichy), Ph.D(NIT Trichy)

Email-ID: tejonadhababu@gmail.com



Other Details

Reserach Interests: Welding Engineering, Metal Forming

Date of Joining: 20-01-2020

Teaching Experience: 05 Years

Research Experience: 06 Years

No. of M. Tech Projects guided: NIL


Membership of Professional bodies: NIL

Journals

1. International: (08)

- Tejonadha Babu, K., S. Muthukumaran, C. Sathiya Narayanan, and C. H. Bharat Kumar (2019) Analysis and characterization of forming behavior on dissimilar joints of AA5052-O to AA6061-T6 using underwater friction stir welding. Surf. Rev. and Lett. 27, 1950121. (SCI)
- TejonadhaBabu, K., S. Muthukumaran, and C. H. Bharat Kumar (2019) The Role of Material Location on the First Mode of Metal Transfer and Weld Formation in Dissimilar Friction Stir Welded Thin Sheets. Trans India. Inst. Met. 72,1589-1592. (SCI)
- TejonadhaBabu, K., S. Muthukumaran, C. Sathiya Narayanan, and C. H. Bharat Kumar (2019) A study on the influence of underwater friction stir welding on microstructural, mechanical properties and formability in 5052-O aluminum alloys. Mater. Sci. Forum.968, 27-33. (Scopus)/li>


H.O.D.
Dept. of Mechanical Engineering
E.W.I.T., Bengaluru - 560 091


Principal & Director
East West Institute of Technology
Bengaluru - 560 091


- TejonadhaBabu, K., S. Muthukumaran, and C. H. Bharat Kumar (2018) A Study on Grain Size, Mechanical Properties and First Mode of Metal Transfer in Underwater Friction Stir Welded AA5052-O. Key. Eng. Mater. 775, 466-472. (Scopus)
- TejonadhaBabu, K., S. Muthukumaran, C. Sathiya Narayanan, and C. H. Bharat Kumar (2019) Improvement in mechanical and metallurgical properties of friction stir welded 6061-T6 aluminium alloys through cryogenic treatment Mater. Sci. Forum. 969, 490-495. (Scopus)
- TejonadhaBabu, K., S. Muthukumaran (2014) Mechanical, Metallurgical Characteristics and Corrosion Properties of Friction Stir Welded AA6061-T6 Using Commercial Pure, Procedia Materials Science.
- TejonadhaBabu, K., S. Muthukumaran (2014) Effect of R-DFSW on mechanical properties of commercial pure aluminum. Procedia Materials Science, 5 (2014) 795-801

Conferences

1. International: (06)

- TejonadhaBabu, K (2018) Presented a poster in the international conference on advanced materials and manufacturing processes for strategic sectors (ICAMPS 2018) organized by the IIM, Trivandrum chapter, Trivandrum.
- TejonadhaBabu, K., S. Muthukumaran, C. Sathiya Narayanan (2017) A Study on the influence of underwater friction stir welding on microstructural, mechanical properties, and formability in 5052-O aluminum alloys. International conference on recent innovations in production engineering (RIPE 2017), Anna University, Chennai
- TejonadhaBabu, K., S. Muthukumaran, and C. Chandrababu Naidu (2015) Improvement of mechanical and metallurgical properties of underwater friction stir welded 5052 aluminium alloys. International conference on advances in cutting, welding, and surfacing. CIT, Coimbatore, India
- TejonadhaBabu, K., S. Muthukumaran, C. Sathiya Narayanan (2015) Improvement of mechanical and metallurgical properties of underwater friction stir welded dissimilar aluminium alloys 5052-6061. NMD AMT 2015, Coimbatore, India.
- TejonadhaBabu, K., S. Muthukumaran (2014) comparative study of microstructure and mechanical properties of AA5052 and AA6061 aluminium alloys welded by TIG and friction stir welding process. ICFP-2014, IISC Bangalore
- TejonadhaBabu, K., S. Muthukumaran (2014) Microstructure and mechanical


 H.O.D.
 Dept. of Mechanical Engineering
 E.W.I.T., Bengaluru - 560 091


 Principal & Director
 East West Institute of Technology
 Bengaluru - 560 091

properties of Bobbin tool friction stir welded commercial pure aluminum., international conference on metallurgical and materials processes, products, and applications. OPJIT, Raigarh

Seminar & Workshops Attended: (10)

- Five-day international workshop on Advancements in welding technology (AWT), by Dept of MME, NIT Trichy (2018)
- Workshop on Recent advances in solidification thermodynamics and studying hot cracking in fusion welding by NIT Trichy and University of Leicester UK (2017)
- Workshop on Nurturing IPR and Technology Transfer (NITT) organized by the dept of MME, NIT TRICHY (2017)
- One day workshop on Intellectual Property rights awareness (IPRA) by NIT Trichy and Patent office, southern region, GoI (2016)
- One day workshop on Prediction, Prevention and Post Analysis of Engineering Failures by Society for Failure Analysis, Tiruchirappalli chapter, NIT Trichy (2014).
- Workshop on Titanium Matrix Composites by Dept. of MME IIT Madras (2013)
- Two-day workshop on surface modification of structural materials (SMSM) by the dept of MME, NIT Trichy (2013)
- Two-day TEQUIP-II sponsored workshop on Advancements in welding technology (AWT-2013) by Dept of MME, NIT Trichy (2013)
- Two-day workshop on Welding Research Today: Challenges and Opportunities (WRT-2012) by Dept. of MME, IIT Madras (2012).
- Workshop on Rural development: Role on renewable energy services by CEESAT, NIT Trichy (2008)

List of FDP's Attended: (05)

- Attended Online Faculty Development Programme on Emerging Technologies in Mechanical Engineering organized by VEMU INSTITUTE OF TECHNOLOGY from 26-05-2020 to 30-05-2020
- Attended Online Faculty Development Programme on Auto CAD organized by APSSDC from 18-05-2020 to 30-05-2020
- Attended Online Faculty Development Programme on Solid Edge organized by APSSDC from 1-06-2020 to 13-06-2020
- Attended Online Faculty Development Programme on Contemporary Developments in Manufacturing Processes, Sustainable Manufacturing and Industrial Technologies organized by PRAGATI ENGINEERING COLLEGE from 09-06-2020 to 13-06-2020


H.O.D.
Dept. of Mechanical Engineering
E.W.I.T., Bengaluru - 560 091


Principal & Director
East West Institute of Technology
Bengaluru - 560 091

- Attended Online Faculty Development Programme on Research Opportunities and Challenges in Manufacturing Sector organized by Shri Vithal Education & Research Institutes College of Engineering, Pandharpur from 01-06-2020 to 06-06-2020

Guest Lectures Delivered/Acted as Resource Person: (3)

- Delivered talk on "Recent Developments and Research Progress in Friction Stir Welding: An Overview" as resource person in national level online FDP, organized by SVIST Tirupati
- Delivered talk on "Friction Stir Welding of similar and dissimilar thin aluminum sheets" as resource person in national level online FDP, organized by KHIT Guntur


Books Published/Edited: (NIL)

Books Chapters Contributed: (1)

- Chapter titled "Hard facing Alloy Powders" has been accepted for publication in Bentham Science, Book titled: "Laser Surface Treatments for Tribological Applications" (accepted)

Reviewer/Session Chair: (NIL)

Achievements & Awards: (NIL)


H.O.D.
Dept. of Mechanical Engineering
E.W.I.T., Bengaluru - 560 091


Principal & Director
East West Institute of Technology
Bengaluru - 560 091

EAST WEST INSTITUTE OF TECHNOLOGY

Department of mechanical Engineering

Registration Through Registration link

Webinar: Recent trends in Production technology

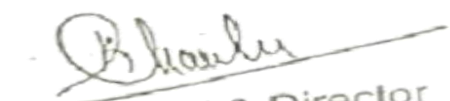
Date: 27-28 July 2020

MODE: Online

Timings: 10 Am-12 Pm

	Timestamp	USN	NAME	CURRENT SEM	STUDENT ACTIVE MOBILE NO	STUDENT ACTIVE EMAIL-ID
1	2020/07/26 10:23:48 am GMT+5:30	1EW19ME014	Kiran.A	8	6362849938	kirankiran86954@gmail.com
2	2020/07/26 10:24:10 am GMT+5:30	1EW19ME019	MEGHANA R	8	9980444387	meghanargowada@gmail.com
3	2020/07/26 10:24:20 am GMT+5:30	1EW20ME410	Hitesh D	8	9620189174	hitesh82964@gmail.com
4	2020/07/26 10:24:23 am GMT+5:30	1EW19ME037	VARUN K	8	9980319766	appuvarun00@gmail.com
5	2020/07/26 10:24:53 am GMT+5:30	1EW19ME010	Harsha.S	8	6360647848	harsha3kan@gmail.com
6	2020/07/26 10:25:08 am GMT+5:30	1EW20ME427	Rahul singh	8	7275469137	rahulsingh889636@gmail.com
7	2020/07/26 10:25:35 am GMT+5:30	1EW20ME446	Yogesh M	8	9886632831	yogeshmdalave@gmail.com
8	2020/07/26 10:25:38 am GMT+5:30	1EW20ME441	Sujay M	8	9591865615	sujaymurali2621@gmail.com
9	2020/07/26 10:26:23 am GMT+5:30	1ew18me036	Nitesh M	8	9611862298	drawingadda@gmail.com
10	2020/07/26 10:27:25 am GMT+5:30	1EW18ME026	Madhu G	8	9845176396	madhu2562000@gmail.com


H.O.D.
Dept. of Mechanical Engineering
E.W.I.T., Bengaluru - 560 091


Principal & Director
East West Institute of Technology
Bengaluru - 560 091

EAST WEST INSTITUTE OF TECHNOLOGY

Department of mechanical Engineering

Registration Through Registration link

Webinar: Recent trends in Production technology

Date: 27-28 July 2020

MODE: Online

Timings: 10 Am-12 Pm

11	2020/07/26 10:28:53 am GMT+5:30	1EW20ME404	K Bharath kumar	8	9845324392	Bharathmech15019@gmail.com
12	2020/07/26 10:29:19 am GMT+5:30	1EW19ME005	CHIRANTH KADAMBA P	8	9972485531	chiranthkadambakp@gmail.com
13	2020/07/26 10:30:13 am GMT+5:30	1EW19ME015	KISHORE NAIK K	8	9739592240	kishornaik6502@gmail.com
14	2020/07/26 10:32:40 am GMT+5:30	1EW18ME051	Rakshith M	8	9901152619	rakshiththejas@gmail.com
15	2020/07/26 10:35:17 am GMT+5:30	1ew20me439	Siddanagouda patil	8	7259988247	siddupatil468@gmail.com
16	2020/07/26 10:35:19 am GMT+5:30	1EW19ME028	Rangraju R	8	9980207574	rangraju.ranga@gmail.com
17	2020/07/26 10:35:39 am GMT+5:30	1EW20ME401	Akilesh S	8	9480895819	akileshappu14@gmail.com
18	2020/07/26 10:37:02 am GMT+5:30	1EW20ME406	CHAKRADHAR PS	8	8660912717	chakradharmithun0330@gmail.com
19	2020/07/26 10:38:58 am GMT+5:30	1EW19ME026	RAKESH.M	8	9483922814	rakeshrocky5500@gmail.com
20	2020/07/26 10:39:07 am GMT+5:30	1EW19ME016	Libhas Rai	8	-9842122024	bhawi968@gmail.com
21	2020/07/26 10:39:13 am GMT+5:30	1EW19ME023	Rahul H Kadam	8	8088192112	rahulhkadam77@gmail.com
22	2020/07/26 10:41:27 am GMT+5:30	1EW20ME431	S SUNADH	8	9449340089	Sunadhchinni0007@gmail.com


H.O.D.
Dept. of Mechanical Engineering
E.W.I.T., Bengaluru - 560 091


Principal & Director
East West Institute of Technology
Bengaluru - 560 091

EAST WEST INSTITUTE OF TECHNOLOGY

Department of mechanical Engineering

Registration Through Registration link

Webinar: Recent trends in Production technology

Date: 27-28 July 2020

MODE: Online

Timings: 10 Am-12 Pm

23	2020/07/26 10:41:55 am GMT+5:30	1ew20me432	Sanjay tk	8	9902044939	sanjaytk23@gmail.com
24	2020/07/26 10:42:35 am GMT+5:30	1ew19me006	Darshan B	8	9538100443	darshandarshu7777@gmail.com
25	2020/07/26 10:44:48 am GMT+5:30	1EW19ME009	Diwakar Vishwakarma	8	9845064212	diwakarvishwakarma7996@gmail.com
26	2020/07/26 10:45:10 am GMT+5:30	1EW20ME405	Bharath s	8	8722056141	abharath21@gmail.com
27	2020/07/26 10:46:52 am GMT+5:30	1EW20ME425	Puneeth K	8	9972326913	msdpuneeth@gmail.com
28	2020/07/26 10:46:59 am GMT+5:30	1EW17ME116	Ullas Nagammanavar	8	9535036445	ullasmn27@gmail.com
29	2020/07/26 10:47:07 am GMT+5:30	1EW20ME442	Sujith ks	8	9663979946	sujisujith685@gmail.com
30	2020/07/26 10:47:28 am GMT+5:30	1ew20me424	Prashanth BN	8	9620565219	prashanthbn03@gmail.com
31	2020/07/26 10:51:57 am GMT+5:30	1EW20ME401	Akilesh S	8	9480895819	akileshappu14@gmail.com
32	2020/07/26 10:54:09 am GMT+5:30	1EW20ME418	Manoj V	8	8722646979	manojv8008@gmail.com
33	2020/07/26 10:54:23 am GMT+5:30	1EW20ME429	Ramesh Rawal S	8	9108697533	rameshrawalamith@gmail.com
34	2020/07/26 11:00:30 am GMT+5:30	1EW20ME419	Manu G H	8	9980873170	manumanojgh25@gmail.com


H.O.D.
Dept. of Mechanical Engineering
E.W.I.T., Bengaluru - 560 091


Principal & Director
East West Institute of Technology
Bengaluru - 560 091

EAST WEST INSTITUTE OF TECHNOLOGY

Department of mechanical Engineering

Registration Through Registration link

Webinar: Recent trends in Production technology

Date: 27-28 July 2020

MODE: Online

Timings: 10 Am-12 Pm

35	2020/07/26 11:08:45 am GMT+5:30	1EW20ME436	SHASHANK R	8	9916950907	suryashashu01@gmail.com
36	2020/07/26 11:12:38 am GMT+5:30	1EW20ME428	Ramesh R	8	8431685143	rameshrockz20ramesh12345@gmail.com
37	2020/07/26 11:17:26 am GMT+5:30	1EW20ME434	Sharif Hossain	8	9862279590	sharifhossain7423626@gmail.com
38	2020/07/26 11:27:56 am GMT+5:30	1EW19ME024	Rakesh B G	8	9742280207	rakeshraj9845@gmail.com
39	2020/07/26 11:30:49 am GMT+5:30	1EW20ME413	KRISHNA R	8	9590314338	krishnar1118@gmail.com
40	2020/07/26 11:32:42 am GMT+5:30	1EW20ME423	PRAJWAL	8	9449549479	prajwalrajamma96@gmail.com
41	2020/07/26 12:17:28 pm GMT+5:30	1EW19ME039	T U SAIKIRTHI	8	8277366303	tusaikirthi2207@gmail.com
42	2020/07/26 1:27:44 pm GMT+5:30	1ew20me445	Vishwas kr	8	9060098646	Vishwas260401@gmail.com
43	2020/07/26 1:46:32 pm GMT+5:30	1EW20ME443	VIGNESH STANIC V	8	7483635481	Vigneshviggi12@gmail.com
44	2020/07/26 2:05:19 pm GMT+5:30	1ew20me414	Kruthik d gowda	8	9845243014	dkruthikgowda123@gmail.com
45	2020/07/26 2:49:07 pm GMT+5:30	1ew20me435	Shashank k	8	8088445001	shashank.karigowda@gmail.com
46	2020/07/26 2:49:14 pm GMT+5:30	1ew19me001	Basavaraju c	8	9108819892	basavarajc903@gmail.com


H.O.D.
Dept. of Mechanical Engineering
E.W.I.T., Bengaluru - 560 091


Principal & Director
East West Institute of Technology
Bengaluru - 560 091

EAST WEST INSTITUTE OF TECHNOLOGY

Department of mechanical Engineering

Registration Through Registration link

Webinar: Recent trends in Production technology

Date: 27-28 July 2020

MODE: Online

Timings: 10 Am-12 Pm

47	2020/07/26 2:49:47 pm GMT+5:30	1EW20ME430	Ravi tej p	8	9686722264	Ravitej742@gmail.com
48	2020/07/26 2:50:00 pm GMT+5:30	1EW20ME403	Basavaraju S	8	9741455086	basavarajus08@gmail.com
49	2020/07/26 2:50:14 pm GMT+5:30	1EW20ME408	Deekshith AO	8	9902761632	deekshithdeekshith677@gmail.com
50	2020/07/26 2:50:39 pm GMT+5:30	1EW19ME032	Sahana s jakaraddi	8	6360944269	Sahanajakaraddi88@gmail.com
51	2020/07/26 2:51:35 pm GMT+5:30	1ew19me034	Shashank g r	8	8152991455	shashankgr845@gmail.com
52	2020/07/ 26 2:51:44 pm GMT+5:30	1EW20ME400	ABHISHEK R	8	6361272418	Akashabhishek004@gmail.com
53	2020/07/26 2:52:07 pm GMT+5:30	1EW19ME025	Rakesh G	8	9206456462	rakevara2000@gmail.com
54	2020/07/26 2:53:22 pm GMT+5:30	1EW18ME025	M R Deepu	8	9902749765	deepumr2754@gmail.com
55	2020/07/26 2:53:40 pm GMT+5:30	1EW20ME420	Moulikrishna c	8	9448925720	moulikrishna.c001@gmail.com
56	2020/07/26 2:53:52 pm GMT+5:30	1EW19ME031	Ruthik B N	8	7090710739	ruthikarn23@gmail.com
57	2020/07/26 2:54:26 pm GMT+5:30	1EW20ME409	HEMANTH R	8	9845738972	appuhemanthr@gmail.com
58	2020/07/26 3:15:34 pm GMT+5:30	1EW19ME030	RITESH J NAIK	8	8088227251	naikritesh342@gmail.com


H.O.D.
Dept. of Mechanical Engineering
E.W.I.T., Bengaluru - 560 091


Principal & Director
East West Institute of Technology
Bengaluru - 560 091

EAST WEST INSTITUTE OF TECHNOLOGY

Department of mechanical Engineering

Registration Through Registration link


Webinar: Recent trends in Production technology

Date: 27-28 July 2020

MODE: Online

Timings: 10 Am-12 Pm

59	2020/07/26 3:24:03 pm GMT+5:30	1EW20ME426	Puneeth kumar S	8	9620754002	puneethkumarspuneeth951@gmail.com
60	2020/07/26 3:25:59 pm GMT+5:30	1EW19ME020	Nisarga S	8	9620917282	nisargasj2019@gmail.com
61	2020/07/26 3:31:09 pm GMT+5:30	1EW20ME438	SHIVAKUMAR B	8	9740626227	kumarkarthika.814@gmail.com


H.O.D.
Dept. of Mechanical Engineering
E.W.I.T., Bengaluru - 560 091


Principal & Director
East West Institute of Technology
Bengaluru - 560 091

EAST WEST INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING
SNAP SHOT OF WEBINAR PHOTOS
Topic: Recent Trends In Production Technology

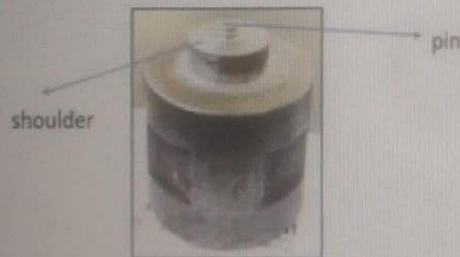



H.O.D.
Dept. of Mechanical Engineering
E.W.I.T., Bengaluru - 560 091

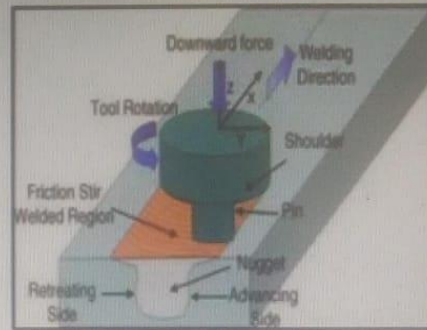

Principal & Director
East West Institute of Technology
Bengaluru - 560 091

Introduction

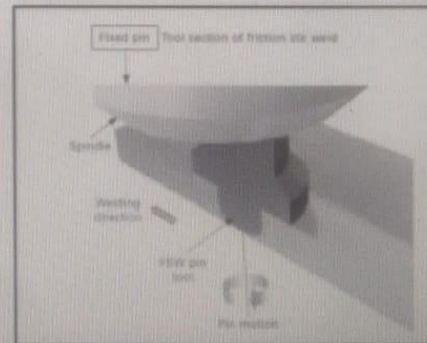
- The pin is forced into the plates at the joint until shoulder contacts the plates
- A downward forging pressure from the shoulder helps to prevent the expulsion of softened material
- Plasticizes a metal around the pin and the immediate material under the shoulder
- As tool is moved forward, material is forced to flow from the leading edge to the trailing edge of the tool



FSW Tool



Schematic drawing of friction stir welding.




EAST WEST INSTITUTE OF TECHNOLOGY

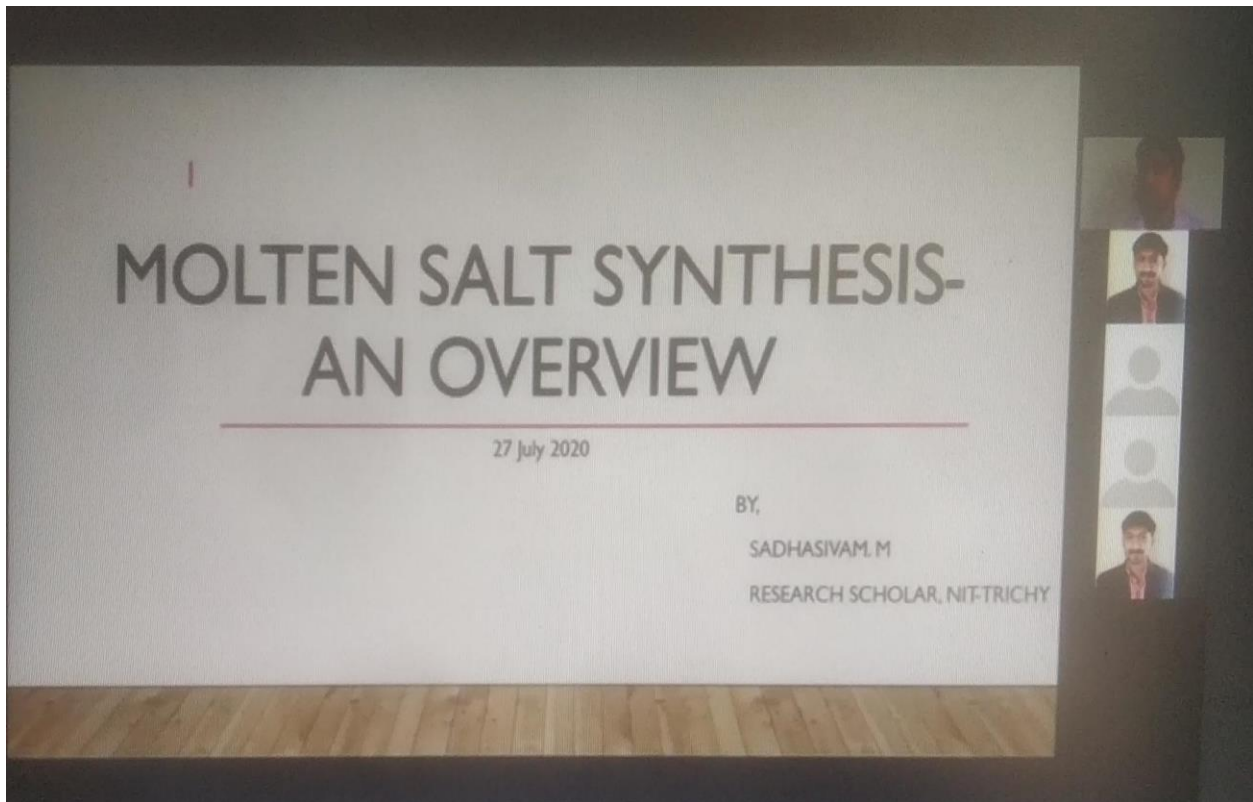
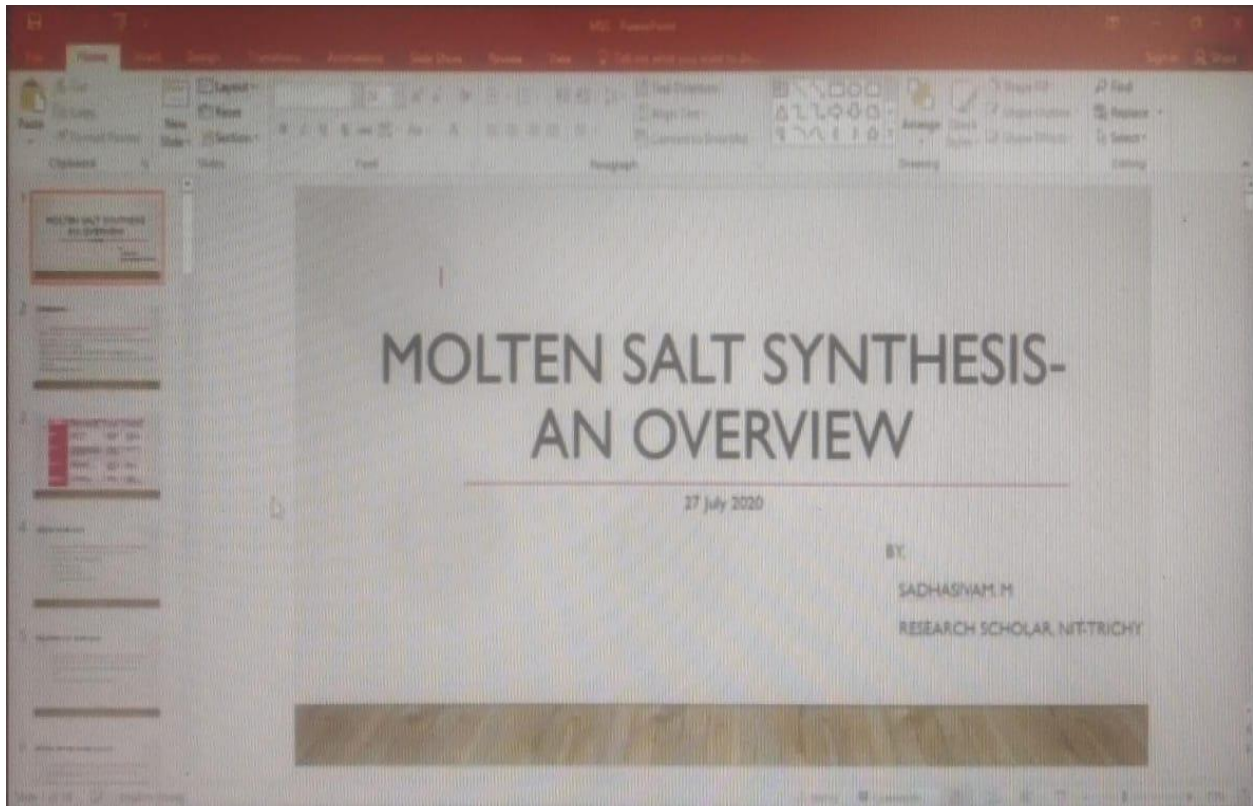
East West Institute of Technology established in 2001 with the prime motto to serve the best quality based technical education and the campus is advantageously located in a well-known green city of Bengaluru and has an extensive vicinity of 20 acres of land surrounded with congenial and pleasant learning atmosphere.

EWIT has always stood for discipline and the molding of character of its students. Our college prides itself in imparting best part of education by providing a strong foundation for the holistic education. East West Institute of Technology stands testimony to the high professional standard aimed for and achieved by the EWIT.




H.O.D.
Dept. of Mechanical Engineering
E.W.I.T., Bengaluru - 560 091


Principal & Director
East West Institute of Technology
Bengaluru - 560 091




H.O.D.
Dept. of Mechanical Engineering
E.W.I.T., Bengaluru - 560 091


Principal & Director
East West Institute of Technology
Bengaluru - 560 091

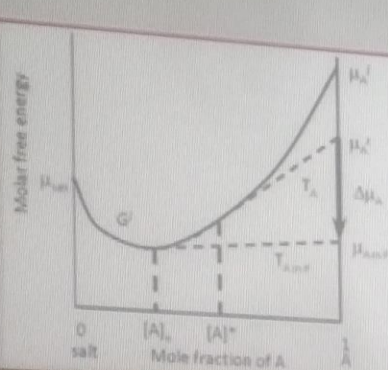
ROLE OF MOLTEN SALTS

4

- to increase the reaction rate and lower the reaction temperature
- to increase the degree of homogeneity
- to control particle size
- to control particle shape
- to control the agglomeration state

REPRESENTATION OF SUPERSATURATION PHENOMENA

13




H.O.D.
Dept. of Mechanical Engineering
E.W.I.T., Bengaluru - 560 091


Principal & Director
East West Institute of Technology
Bengaluru - 560 091

REACTION RATE

14

- Molten salts increase the reaction rate, and the product formation is completed at lower temperatures than that in solid state reaction
- In the molten salt synthesis, the surfaces of the reactant particles are covered with melt and they become available to the reaction
- In the molten salt, the mobility of the species ranges from 10^{-5} to 10^{-9} $\text{cm}^2 \text{sec}^{-1}$ which is fairly larger than the mobility in the solid state reaction





TEM AND SAED

34

- The TEM image ensures the average particle size in the range of 45-60 nm.
- The bright spots in selected area electron diffraction (SAED) pattern confirm the crystallization of the yttrium boride product.
- The elongation of the bright spot indicates mechanical working or the deformation in the form of ball milling
- The SAED pattern illustrates bragg spot at the planes corresponding (2 1 0), (2 1 1), (0 0 2) and (0 0 3) coincides with the d-spacing of the XRD results.
- The first ring, second ring and the third ring have the equivalent d-spacing of $\sim 3.200 \text{ \AA}$, $\sim 2.40 \text{ \AA}$ and $\sim 0.190 \text{ \AA}$ respectively and it corresponds to (2 1 0), (2 1 1) and (0 0 2) reflection planes respectively of YB_4 phase.
- The fourth ring with equivalent d-spacing of $\sim 1.38 \text{ \AA}$ corresponds to (0 0 3) reflection plane and it matches with XRD results for YB_4 phase.




H.O.D.
Dept. of Mechanical Engineering
E.W.I.T., Bengaluru - 560 091


Principal & Director
East West Institute of Technology
Bengaluru - 560 091

EAST WEST INSTITUTE OF TECHNOLOGY
Department of mechanical Engineering
Feed back status

Webinar: Recent trends in Production technology

Date: 27-28 July 2020

MODE: Online

Timings: 10 Am-12 Pm

	Timestamp	USN	NAME	SEM	Feed Back Session 1	Feedback Session 2
1	2020/07/28 10:22:32 am GMT+5:30	1EW20ME446	Yogesh M	8	Excellent	good
2	2020/07/28 10:23:11 am GMT+5:30	1EW20ME441	Sujay M	8	Good	Excellent
3	2020/07/28 10:24:17 am GMT+5:30	1ew18me036	Nitesh M	8	Excellent	Excellent
4	2020/07/28 10:24:19 am GMT+5:30	1EW18ME026	Madhu G	8	Excellent	Excellent
5	2020/07/28 10:24:59 am GMT+5:30	1EW20ME404	K Bharath kumar	8	Excellent	Excellent
6	2020/07/28 10:25:18 am GMT+5:30	1EW20ME403	Basavaraju S	8	Excellent	average
7	2020/07/28 10:25:35 am GMT+5:30	1EW20ME408	Deekshith AO	8	Excellent	Excellent
8	2020/07/28 10:25:40am GMT+5:30	1EW19ME032	Sahana s jakaraddi	8	Excellent	Excellent
9	2020/07/28 10:26:26 am GMT+5:30	1ew19me034	Shashank g r	8	Excellent	Excellent
10	2020/07/28 10:27:25 am GMT+5:30	1EW20ME400	ABHISHEK R	8	Excellent	Excellent
11	2020/07/28 10:28:43 am GMT+5:30	1EW19ME025	Rakesh G	8	Excellent	Excellent


H.O.D.
Dept. of Mechanical Engineering
E.W.I.T., Bengaluru - 560 091


Principal & Director
East West Institute of Technology
Bengaluru - 560 091

EAST WEST INSTITUTE OF TECHNOLOGY
Department of mechanical Engineering
Feed back status

Webinar: Recent trends in Production technology

Date: 27-28 July 2020

MODE: Online

Timings: 10 Am-12 Pm

12	2020/07/28 10:29:49 am GMT+5:30	1EW19ME005	CHIRANTH KADAMBA P	8	Excellent	average
13	2020/07/28 10:30:13 am GMT+5:30	1EW19ME015	KISHORE NAIK K	8	Excellent	Excellent
14	2020/07/28 10:32:40 am GMT+5:30	1EW18ME051	Rakshith M	8	Excellent	Excellent
15	2020/07/28 10:35:17 am GMT+5:30	1EW18ME025	M R Deepu	8	Excellent	Excellent
16	2020/07/28 10:35:19 am GMT+5:30	1EW20ME420	Moulikrishna c	8	Excellent	Excellent
17	2020/07/28 10:35:39 am GMT+5:30	1EW19ME031	Ruthik B N	8	Excellent	good
18	2020/07/28 10:36:02 am GMT+5:30	1EW20ME409	HEMANTH R	8	Excellent	Excellent
19	2020/07/28 10:38:58 am GMT+5:30	1EW19ME030	RITESH J NAIK	8	good	Excellent
20	2020/07/28 10:39:07 am GMT+5:30	1EW20ME426	Puneeth kumar S	8	Excellent	Excellent
21	2020/07/28 10:39:13 am GMT+5:30	1EW18ME025	M R Deepu	8	Excellent	Excellent
22	2020/07/28 10:41:28 am GMT+5:30	1EW20ME431	S SUNADH	8	Excellent	Excellent
23	2020/07/28 10:41:50 am GMT+5:30	1ew20me432	Sanjay tk	8	Excellent	Excellent


H.O.D.
 Dept. of Mechanical Engineering
 E.W.I.T., Bengaluru - 560 091


Principal & Director
 East West Institute of Technology
 Bengaluru - 560 091

EAST WEST INSTITUTE OF TECHNOLOGY
Department of mechanical Engineering
Feed back status

Webinar: Recent trends in Production technology

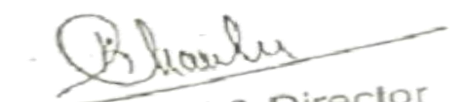
Date: 27-28 July 2020

MODE: Online

Timings: 10 Am-12 Pm

24	2020/07/28 10:43:36am GMT+5:30	1EW20ME429	Ramesh Rawal S	8	Excellent	good
25	2020/07/28 10:44:28 am GMT+5:30	1EW20ME419	Manu G H	8	Excellent	Excellent
26	2020/07/28 10:45:20 am GMT+5:30	1EW20ME436	SHASHANK R	8	Excellent	Excellent
27	2020/07/28 10:46:42 am GMT+5:30	1EW20ME425	Puneeth K	8	Excellent	Excellent
28	2020/07/28 10:46:49 am GMT+5:30	1EW17ME116	Ullas Nagammanavar	8	Excellent	Excellent
29	2020/07/28 10:47:17 am GMT+5:30	1EW20ME442	Sujith ks	8	Excellent	Excellent
30	2020/07/28 10:47:28 am GMT+5:30	1ew19me006	Darshan B	8	Excellent	average
31	2020/07/28 10:52:47 am GMT+5:30	1EW19ME009	Diwakar Vishwakarma	8	Excellent	Excellent
32	2020/07/28 10:54:09 am GMT+5:30	1EW20ME405	Bharath s	8	Excellent	Excellent
33	2020/07/28 10:55:23 am GMT+5:30	1ew20me424	Prashanth BN	8	Excellent	Excellent
34	2020/07/28 11:00:30 am GMT+5:30	1EW20ME401	Akilesh S	8	Excellent	Excellent
35	2020/07/28 11:08:45 am GMT+5:30	1EW20ME418	Manoj V	8	good	Excellent


H.O.D.
 Dept. of Mechanical Engineering
 E.W.I.T., Bengaluru - 560 091


Principal & Director
 East West Institute of Technology
 Bengaluru - 560 091

EAST WEST INSTITUTE OF TECHNOLOGY
Department of mechanical Engineering
Feed back status

Webinar: Recent trends in Production technology

Date: 27-28 July 2020

MODE: Online

Timings: 10 Am-12 Pm

36	2020/07/28 11:12:38 am GMT+5:30	1EW20ME413	KRISHNA R	8	Excellent	Excellent
37	2020/07/28 11:13:26 am GMT+5:30	1EW20ME423	PRAJWAL	8	Excellent	good
38	2020/07/28 11:27:56 am GMT+5:30	1EW19ME039	T U SAIKIRTHI	8	Excellent	Excellent
39	2020/07/28 11:30:49 am GMT+5:30	1ew20me445	Vishwas kr	8	Excellent	Excellent
40	2020/07/28 11:32:42 am GMT+5:30	1EW20ME428	Ramesh R	8	Excellent	Excellent
41	2020/07/28 12:27:28 pm GMT+5:30	1EW20ME434	Sharif Hossain	8	good	Excellent
42	2020/07/28 1:27:44 pm GMT+5:30	1EW19ME024	Rakesh B G	8	Excellent	average
43	2020/07/28 1:46:32 pm GMT+5:30	1EW20ME443	VIGNESH STANIC V	8	Excellent	Excellent
44	2020/07/28 2:05:19 pm GMT+5:30	1ew20me414	Kruthik d gowda	8	Excellent	Excellent
45	2020/07/28 2:49:07 pm GMT+5:30	1ew20me435	Shashank k	8	Excellent	Excellent
46	2020/07/28 2:49:14 pm GMT+5:30	1ew19me001	Basavaraju c	8	Excellent	Excellent
47	2020/07/28 2:49:47 pm GMT+5:30	1EW20ME430	Ravi tej p	8	Excellent	good


H.O.D.
 Dept. of Mechanical Engineering
 E.W.I.T., Bengaluru - 560 091


Principal & Director
 East West Institute of Technology
 Bengaluru - 560 091

EAST WEST INSTITUTE OF TECHNOLOGY
Department of mechanical Engineering
Feed back status

Webinar: Recent trends in Production technology

Date: 27-28 July 2020

MODE: Online

Timings: 10 Am-12 Pm

48	2020/07/28 2:50:00 pm GMT+5:30	1ew20me439	Siddanagouda patil	8	Excellent	Excellent
49	2020/07/28 2:50:24 pm GMT+5:30	1EW19ME028	Rangraju R	8	Excellent	Excellent
50	2020/07/28 2:50:39 pm GMT+5:30	1EW20ME401	Akilesh S	8	Excellent	Excellent
51	2020/07/28 2:51:35 pm GMT+5:30	1EW20ME406	CHAKRADHAR PS	8	Excellent	Excellent
52	2020/07/ 28 2:51:44 pm GMT+5:30	1EW19ME026	RAKESH.M	8	Excellent	Excellent
53	2020/07/28 2:52:17 pm GMT+5:30	1EW19ME016	Libhas Rai	8	Excellent	good
54	2020/07/28 8:53:22 pm GMT+5:30	1EW19ME014	Kiran.A	8	Excellent	Excellent
55	2020/07/28 2:53:40 pm GMT+5:30	1EW19ME019	MEGHANA R	8	Excellent	good
56	2020/07/28 2:53:52 pm GMT+5:30	1EW20ME410	Hitesh D	8	Excellent	Excellent
57	2020/07/28 2:54:26 pm GMT+5:30	1EW19ME037	VARUN K	8	Excellent	Excellent
58	2020/07/28 3:15:44 pm GMT+5:30	1EW19ME010	Harsha.S	8	Excellent	Excellent
59	2020/07/28 3:22:03 pm GMT+5:30	1EW20ME427	Rahul singh	8	Good	Excellent


H.O.D.
 Dept. of Mechanical Engineering
 E.W.I.T., Bengaluru - 560 091


Principal & Director
 East West Institute of Technology
 Bengaluru - 560 091

EAST WEST INSTITUTE OF TECHNOLOGY
Department of mechanical Engineering
Feed back status


Webinar: Recent trends in Production technology

Date: 27-28 July 2020

MODE: Online

Timings: 10 Am-12 Pm

60	2020/07/28 3:24:59 pm GMT+5:30	1EW19ME020	Nisarga S	8	good	Excellent
61	2020/07/28 3:31:09 pm GMT+5:30	1EW20ME438	SHIVAKUMAR B	8	good	Excellent


H.O.D.
Dept. of Mechanical Engineering
E.W.I.T., Bengaluru - 560 091


Principal & Director
East West Institute of Technology
Bengaluru - 560 091

EAST West institute of technology

Department of Mechanical Engineering

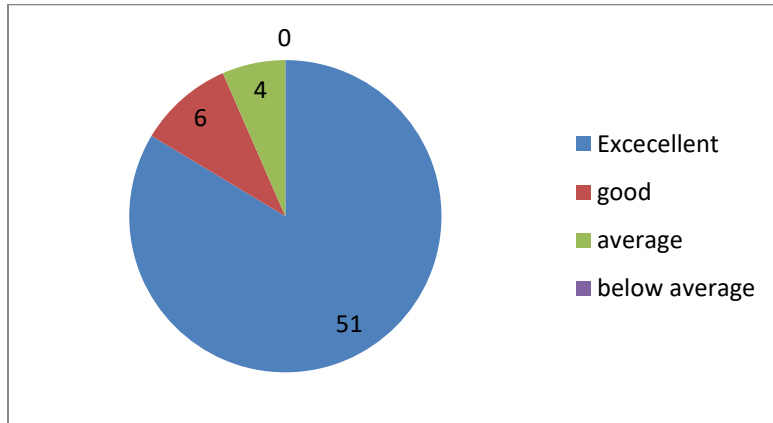
Feedback Analysis

Topic: “**RECENT TRENDS IN PRODUCTION TECHNOLOGY**”

Speaker: Mr Sadhasivam

Feedback taken on Day 1, session 1

Total responses: 61

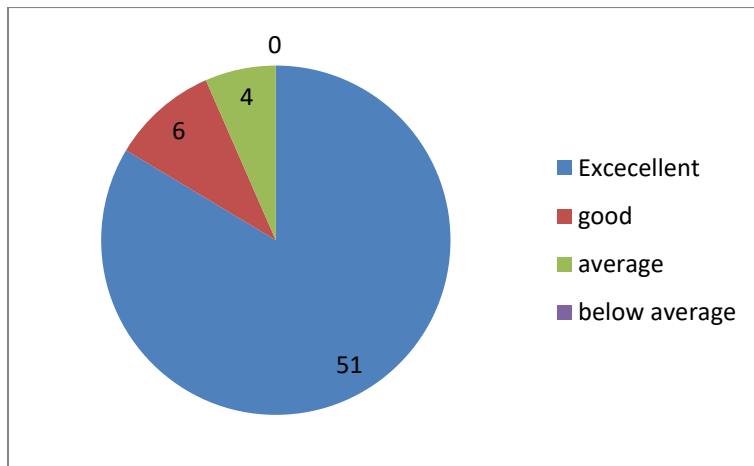



Topic: “**RECENT TRENDS IN PRODUCTION TECHNOLOGY**”

Speaker: Dr K Tejonandha babu

Feedback taken on Day 2, session 2

Total responses: 61




H.O.D.
Dept. of Mechanical Engineering
E.W.I.T., Bengaluru - 560 091


Principal & Director
East West Institute of Technology
Bengaluru - 560 091



INSTITUTE OF
TECHNOLOGY

EAST WEST INSTITUTE OF TECHNOLOGY

(Affiliated to VTU Belagavi, Approved by AICTE, New Delhi)

Magadi road, anjananagar, Bengaluru560091

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

EWIT/MED/RTPT2020/01

This is to certify that Prof./Mr./Mrs. Mr. SADHASIVAM M has delivered a talk in the virtual Webinar Organized by Department of Mechanical Engineering, East west Institute of Technology, Bengaluru-91 on the topic "**RECENT TRENDS IN PRODUCTION TECHNOLOGY**" during 27th –28th July 2020.

MANJUNATH O
Assistant Professor
Co-coordinator

H.O.D.
Dept. of Mechanical Engineering
E.W.I.T., Bengaluru - 560 091

Dr. MARUTHI B H
Prof. & Head

Principal & Director
East West Institute of Technology
Bengaluru - 560 091

Dr. K CHANNAKESHAVULU
Principal



INSTITUTE OF
TECHNOLOGY

EAST WEST INSTITUTE OF TECHNOLOGY

(Affiliated to VTU Belagavi, Approved by AICTE, New Delhi)

Magadi road, anjananagar, Bengaluru560091

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

EWIT/MED/RTPT2020/02

This is to certify that Prof./Mr./Mrs. **Dr. K TEJONANDHA BABU** has delivered a talk in the virtual Webinar Organized by Department of Mechanical Engineering, East west Institute of Technology, Bengaluru-91 on the topic "**RECENT TRENDS IN PRODUCTION TECHNOLOGY**" during 27th –28th July 2020.

MANJUNATH O
Assistant Professor
Co-ordinator

H.O.D.
Dept. of Mechanical Engineering
E.W.I.T., Bengaluru - 560 091

Dr. MARUTHI B H
Prof. & Head

Principal & Director
East West Institute of Technology
Bengaluru - 560 091

Dr. K CHANNAKESHAVULU
Principal

East West Institute of technology
Department of Mechanical engineering
REPORT on “Recent trends in production technology”

The program initiated with a welcome speech by HOD Dr. Maruthi B H, HOD advised the students to attend all such Technical talk programs.

Production in mechanical is broad range of field which increases the GDP of the country. In joining process variety of welding processes involves to join two or more metals. Welding is stronger joint, it finds the application in automobile, aerospace and construction industry.

Frictional stir welding uses the friction as heat generation to join metals.

It is used for fabricating structures like airframes, thin alloy skins, fuel tanks in the aerospace industry due to its high weld quality and geometry accuracy, for lightweight construction in the automotive industry and to build heavy-duty tanks, railway wagons, and coaches for railway.

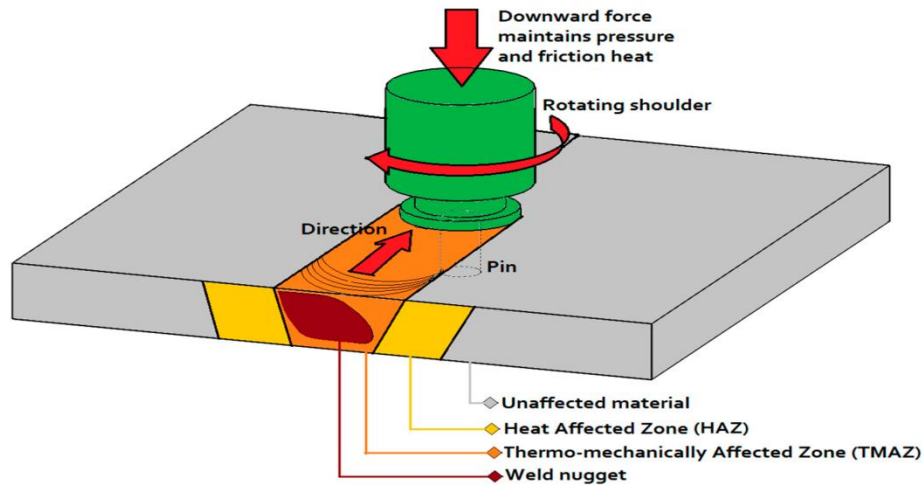
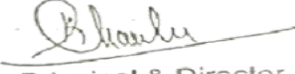


Fig: friction stir welding

Also a Molten salt synthesis is a modification of the powder metallurgical method. Salt with a low melting point is added to the reactants and heated above the melting point of the salt. The molten salt acts as the solvent. Molten salts have been used as additives to enhance the rates of solid state reactions for a long time.

All 62 students and faculty members from Mechanical Engineering attended the program. The program was concluded with the vote of thanks by coordinator Mr. Manjunath O.


H.O.D.
Dept. of Mechanical Engineering
E.W.I.T., Bengaluru - 560 091


Principal & Director
East West Institute of Technology
Bengaluru - 560 091