# IGNITE 2022



### A DAILY NEWSLETTER

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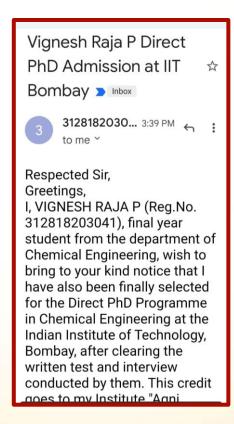


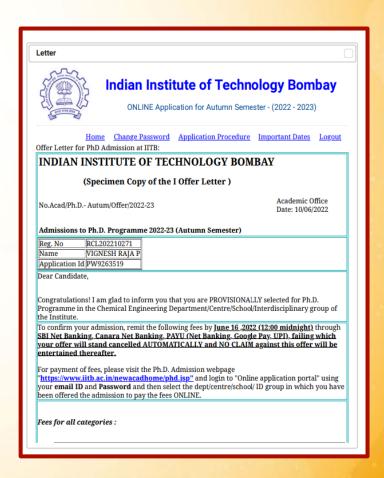






#### STUDENT ACHIEVEMENT





Vignesh Raja. P, final year student, Department of Chemical Engineering has got the opportunity to enter INDIAN INSTITUTE OF SCIENCE, EDUCATION AND RESEARCH, BHOPAL for the Direct Ph.D in Chemical Engineering after clearing the written **test and final round interview.** He has received the confirmation mail and Offer Letter for the course. Agni takes pride in you.

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#### **DARKATHON 2022**







S. Gibson, K. Abishek amd S. Akash, III year students, Department of CSE have participated in Darkathon 2022 on **the title Advanced Drugsites Crawler organised by Narcotics Control Bureau of India.** The team has been shortlisted into the Grand Finale of Darkathon 2022. The team was guided by Dr. Ishwarya M V, AP, Department of CSE.

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#### STUDENTS INTERNSHIP



V. SABAREESHWARAN, A. KARTHIKEYAN, K. DASHVANTHRAJ and M. SATHISH, IV year students, Department of Mechatronics have undergone an **internship in Electrical Mobility.** They have worked on the project FULL ELECTRIC TWO WHEELER SCOOTER in LEAP Industries, Chennai.

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### STUDENT ACHIEVEMENT IN **PLACEMENT**





Santhosh Raj M, IV year student, Department of CSE got TCS with the dream package placed in Rs.60,000/month after clearing TCS **Digital** Examination held on 7th May 2022.

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#### **FACULTY ACHIEVEMENT**



Dr. S. Bharanidharan, Senior Assistant Professor, Department of Science and Humanities (Physics) has received an Excellence Certificate for his contribution towards reviewing the Journal of Advances in Medicine and Medical Research.

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#### **FACULTY PARTICIPATION**

purushothaman paneerselvam to me ▼	Wed, 1 Jun, 14:24 (8 days ago)	☆	4	:
From: Isabel Escobar <ol> <li>6: Fri, 27 May 2022, 6:59 am</li> <li>Subject: Thank you for reviewing - Environmental Progress</li> <li>7: <a able="" acid="" and="" appreciate="" appreciated.<="" authors="" be="" blended="" characteristics="" ci="" critical="" effort="" engine="" experimental="" fatty="" for="" fuel".="" fueled="" function.="" greatly="" have="" href="mailto:reviewing-between:review-new-months-align: review-new-months-align: review-new-m&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;26-May-2022&lt;br&gt;Environmental Progress &amp; Sustainable Energy: EP-22-306&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Dear Mr. Purushothaman,&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td colspan=5&gt;Thank you for reviewing the manuscript " important="" investigation="" is="" journal,="" millettia="" non-fatty="" not="" of="" oil="" our="" pinnata="" pinus="" review="" service="" success,="" taken="" task="" td="" that="" the="" this="" time="" to="" very="" we="" which="" with="" without="" would="" you="" your=""></a></li></ol>				
I hope that you will consider publishing your work in our journal, and will look forward to your support in future reviews. Thank you for your assistance.				
Martin Abraham Editor, EP&SE				

Mr. P. Purushothaman, Assistant Professor, Department of Mechanical Engineering was greatly appreciated by the Journal of Environmental Progress & Sustainable Energy for reviewing the manuscript on 27<sup>th</sup> May 2022.

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#### STUDENT INTERNSHIP



Sabarish Manikandan A, II year student, Department of Mechatronics Engineering has completed a 3 month training and internship at Vaayusastra Aerospace Private Limited, RTBI, IIT Madras Research Park, Kanagam, Taramani, Chennai.

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#### **FACULTY PARTICIPATION-WEBINAR**



Mr. Vikas Godara, Assistant Professor, Department of Mechatronics Engineering has participated in the IEI Technical Webinar on Climate Change in the Arctic Beyond organised by West Bengal State Center of the Institution of Engineers.

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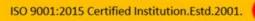
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#### **FACULTY PUBLICATION**

of Ceramic Processing Research, Vol. 23, No. 3, pp. 1–9 (2022) Received in revised form, Accepted) org/10.36410/jcpr.2022.23.3.1

Optimization of  $\mathrm{CO}_2$  laser welding process parameters on cupronickel alloys using multi-objective techniques

S. Karthick\*\*, V. Paramasivans\*, B. Prabu\*, P. Ganeshan\*, K. Raja\*, V. Mohanavel\* and K. Aruf\* Department of Mechanical Engineering, RVS School of Engineering and Technology, Dindigal-62409, Tamil Nadu, India Department of Mechanical Engineering, EVSA College of Engineering and Technology, Dindigal-624622, Tamil Nadu, India Department of Mechanical Engineering, Christian College of Engineering and Technology, Oddarcharum - 624619, Tamil

Department of Mechanicat Engineering, Curroum sources of serge-cialah, India Department of Mechanical Engineering, Sealu Institute of Technology, Virudhunagar - 036113, Tamil Nadu, India Department of Mechanical Engineering, University College of Engineering Dindigal - 634622, Tamil Nadu, India Department of Mechanical Engineering, Bharath University, Chemnal - 600 073, Tamil Nadu, India Department of Mechanical Engineering, Agni College of Technology, Chemnal - 600 130, Tamil Nadu, India

Optimization of process parameters for welding cupromiced alloys using CO, later welding process was investigated in this study. Later Ream Welding (LBW) process, is one of the beneficial techniques for airplane fixtuding. Turbine mote study, Later Ream Welding (LBW) process, is one of the beneficial techniques for airplane fixtuding. Turbine mote morphometers are most up of supersible pocases of in high specific, low heat input, high hear focus high power density, and low constraint. Single CO, LBW process, welding can be done on a wide range of materials, especially alloys which are difficult to well by conventional welding process. This investigation focuses on optimizing the LBW process parameters for exponential alloys utilizing multi criteria decision making (MCDM) methodology and TOFSIS analysis. The input parameters like later power, welding appear, welding appear and welding current are preferred as the fundamental part is enhance the welding, welded norts. Welding is not well in the parameters well as the process of the process of the parameters were overall Multilogively function. Among the experiments, the best unchannel and properties were observed in welding made with the parameters like Welding current (900 W), Welding angel (90°), Welding paged (Lamminnia) and Laser power (20 W). This investigation stress to reveal the letter process parameters, mechanical properties and energy consumption of CO). LBW welded elements of cupronicled alloy.

Introduction

The advantages of laser beam welding include low and precise heat input, a restricted heat affected zone, and little distortion. High-speed welding can also be used to automate the process. When compared to other welding techniques, laser welding offers various potential benefits, including deeper penetration, faster welding speed, high precision, deperpendability, efficiency, and productivity. Due to their mechanical qualities, dissimilar metals such as Austernitie stainless steel and low carbon steel are commonly used in power generating applications [1-4]. The use of different metal combinations allows for a more versalite product design by maximizing the use of each material. Intricate structures and complex joints of thin to their metals and so be used with laser beam welding. High power welding processes has

become popular in industrial manufacturing in recent years due to their numerous advantages, including minor shape distortions, reduced heat affected zone (IAZ) size, faster welding speed associated with high pertentations, and a high 'depth to width ratio' for the internation of the preparation, ability to well near heat-sensitive elements (e.g. electronic circuits), and presence of a minimum amount of proroity and contaminants [5-8]. Cupronickel alloys are one of the finest materials which are having wide range of applications in recent industrial and manufacturing sectors majorly in marine applications. The practical applications of the considered alloys, encourages the researchers and academicinats to investigate their characteristics under various conditions [9-12]. Welding of cupronickel alloys gained more attention among research practitioners. However, unexpected failures for cupronickel alloys gained more attention among research practitioners. However, unexpected failures become more common in welding operations which might be due the impact of various factors like the type of welding, welding operations which might be due the impact of various factors like the type of welding, welding environment and its process parameters. Welding of cupronickel alloys with gas

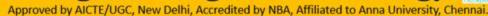
Dr.Arul Kulandaivel, ASP, Department of Mechanical Engineering has published a research article **Optimization of CO2 Laser Welding Process Parameters** Cupronickel Alloys using multi-objective **Techniques** in the Journal of Ceramic Processing Research. SCI- Annexture-I.

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#### **FACULTY PARTICIPATION**











Mr. Manikandan, Dr. Ishwarya, Ms. Maharasi, Ms. Ishwariya Franklin, Mr. Bargunan, APs, Department of Computer Science and Engineering have participated in the Impact Lecture Series Phase II webinar organised by Institutions Innovation Council, SGC on 10th June 2022.

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### STUDENT REPOSITORY



Hariprasath. D, First year student, Department of jni Science and Humanities has portrayed a **spectacular** and colourful paper art of a girl.

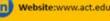
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#### STUDENT REPOSITORY



Keerthika. N, I year student, Department of Science and Humanities showcased her talent by **portraying the pencil sketch of a girl.** 

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#### **STUDENT REPOSITORY**



Gayathri R, II year student, Department of Civil Engineering has portrayed a **pencil sketch of a tearful and curious eye.** 

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