

### A DAILY NEWSLETTER

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#### **STUDENT ACHIEVEMENT**



#### CERTIFICATE OF COMPLETION

Presented to

#### Akshaya V

For successfully completing a free online course Python for Non-Programmers



Provided by
Great Learning Academy

(On October 2023)

Akshaya. J, I year student (BME), Department of Science and Humanities has completed the online course on **Python Basic Programs** offered by Great Learning Academy in the month of October 2023.

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#### **FACULTY ACHIEVEMENT**

JMEPEG

https://doi.org/10.1007/s11665-023-08898-y

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ORIGINAL RESEARCH ARTICLE

# Response Surface Methodology and Mayfly Optimization for Predicting the Properties of Cold-Sprayed AA2024/ Al<sub>2</sub>O<sub>3</sub> Coatings on AZ31B Magnesium Alloy

Ashokkumar Mohankumar (6), Thirumalaikumarasamy Duraisamy, Vignesh Packkirisamy, and Deepak Sampathkumar

Submitted: 14 August 2023 / Revised: 5 October 2023 / Accepted: 14 October 2023

Magnesium (Mg) alloys are used more often today in the automotive and aviation industries. Owing to their many beneficial characteristics, such as higher thermal conductivity, greater strength, lower density and weight, etc., magnesium alloys tend to corrode when employed in particular moist regions, and their poor wear characteristics may reduce their lifespan. To deal with such challenges, a surface coating technique was used on the AZ31B Mg alloy with AA2024/Al<sub>2</sub>O<sub>3</sub> coating powder through a cold spray process. The porosity, corrosion, and wear rate of the deposited Mg alloy are investigated. Box–Behnken designs (BBD) are used to plan the experimental investigation. The results were verified using the Mayfly optimization technique in MATLAB 2021, which relies on a hybrid deep belief network, and also through the BBD-response surface methodology (RSM) in Design Expert 11. The metal matrix composite coating has a minimal porosity, corrosion rate, and wear loss of 0.52%, 1.35 mm/year, and 0.52 mg, experimentally. As a process of the proces

esigns, cold spray, corrosion, mayfly rosity, wear dampening capabilities and noise reduction delivered by their electromagnetic insulation, magnesium alloys have supplanted plastics in the electronics sector (Ref 6-8). The poor wear characteristics of magnesium alloys, however, may reduce the durability of their life when used in specific humid regions. By depositing a coating on the Mg alloy, the worst corrosion and

Dr. Deepak Sampathkumar, Assistant Professor, Department of Mechanical & Automation Engineering has Published a Research Article entitled "Response Surface Methodology and Mayfly Optimization for Predicting the Properties of Cold-Sprayed AA2024/ Al2O3 Coatings on AZ31B Magnesium Alloy", Journal of Materials Engineering and Performance (JMEPEG), Wiley and Springer Nature, in the Web of Science Journal –SCI, Impact Factor: 2.3, Published on 2<sup>nd</sup> November 2023.

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#### **FACULTY PARTICIPATION**



Dr. S. Shunmugakani, Associate Professor, Department of Science and Humanities (Chemistry) has participated in the **International conference (Online Mode) on Functional Nanomaterials and Nanodevices** organized by Faculty of Allied Health Sciences, Chettinad Academy of Research and Education, Kelambakkam, Chennai on 26<sup>th</sup> September 2023.

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#### **FACULTY PARTICIPATION**



Dr. S. Swathi, Assistant Professor, Department of Science and Humanities (Physics) has presented research thesis entitled **Investigation of Polyurethane-Graphene and Chitosan-Silver-Graphene Nanocomposites using Small Neutron Scattering and Broadband Dielectric Spectroscopy** in the International Conference on Advanced Energy Materials and Energy Storage (ICAEMES-2023) organized by Department of Chemistry, School of Basic Sciences, VISTAS, Chennai, held on 12<sup>th</sup> & 13<sup>th</sup> October 2023.

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#### Certificate of Registration for a UK Design

Design number: 6319705

Grant date: 24 October 2023

Registration date: 18 October 2023

This is to certify that,

pursuance of and subject to the provision of Registered Designs Act 1949, the sign of which a representation or specimen is attached, had been registered of the date of registration shown above in the name of

Mr. VENGATESHWARAN MASILAMANI, Dr. JAYANTHI SAMPATH,

Dr. SRIVIDHYA ELANGOVAN, Mr. AMANDEEP SINGH, Ms. UMA DEVI

GUNASEGARAN, Ms. HEMA RAMACHANDRAN, Mr.AROCKIA RAJ ABRAHAM

SOLAR BASED AUTOMATED RAILWAY TRACK INSPECTION T

International Design Classification: Version: 14-2023 Class: 12 MEANS OF TRANSPORT OR HOISTING Subclass: 02 HANDCARTS, WHEELBARROWS

Adam Walins

Adam Williams
Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office
The attention of the Proprietor(s) is drawn to the important

"Mrs. Umadevi , Assistant Professor in the Department of Computer Science and Engineering, has published a patent article on 'SOLAR BASED AUTOMATED RAILWAY TRACK INSPECTION TROLLEY', for her remarkable work in the field of innovation under the 'Certificate of Registration for a UK Design' granted on 24th October 2023.

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#### CERTIFICATE OF COMPLETION

Presented to

#### Mangaladass M

For successfully completing a free online course

Data Visualization With Power BI



Provided by

Great Learning Academy

(On October 2023)

To verify this certificate visit verify mygreatlearning.com/VYWKWZBI

MangaladassM, II year student, Department of Computer Science and Engineering has completed an online certificate in **Data Visualisation with Power BI** organized by Great Learning on October 2023.

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#### CERTIFICATE OF COMPLETION

Presented to

S.Balaji

For successfully completing a free online course Python for Machine Learning

Provided by

Great Learning Academy

(On October 2023)

To verify this certificate visit verify mygreatlearning.com/GJQHIPE

Balaji S, II year student, Department of Computer Science and Engineering, has completed an online certificate in **Python for Machine Learning** organized by Great Learning on October 2023.

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### **CERTIFICATE**

**OF ACHIEVEMENT** 

This certificate is presented to

**GOKUL D** 

for successfully completing a Course about

#### **Game Development**

Course Start Date: 2023-09-26

Certified No.

1107205593











2023-10 - 01 Date

Gokul D, II year student, Department of Computer Science and Engineering has completed a course certificate in **Game Development** organized by mindluster on October 2023.

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#### CERTIFICATE OF COMPLETION

Presented to

#### S. Krishnakumar

For successfully completing a free online course Probability for Data Science

Provided by

Great Learning Academy

(On October 2023)



o verify this certificate visit verify mygreatlearning.com/HKMOWJDV

Krishnakumar S, II year student, Department of Computer Science and Engineering has completed an online certificate in **Probability for Data Science** organized by Great Learning on October 2023.

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Harshnee N, II year student of the Department of Computer Science and Engineering, has completed an online certificate in **Python for Machine Learning** organized by Great Learning on October 2023

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### **CLASS COMMITTEE MEETING**













Class committee meeting was conducted for IInd,IIIrd and IV year students. Portion coverage and problems faced by the students were discussed in the meeting. The meeting was chaired by Dr.P.Murugan, Head of Department and was attended by subject handling faculty members.

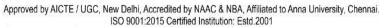
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### **CLASS COMMITTEE MEETING**





The First Class Committee Meeting for I year students for odd semester. 2023-24 has been conducted 01.11.2023 at the Physics laboratory by the Department of Science and Humanities. Dr. Arul Kulandaivel, HoD headed the meetings for all the first year classes (Sections : A - K). The students were asked to represent their respective classes by giving feedback regarding the teaching and learning process. After discussing with the students, in order to meet the expectations of them, the HoD and the Class Committee Chairman have given various suggestions for the faculty members such as, giving notes & question banks, revising the topics if necessary, solving model university question papers, giving activities, giving home tests for the slow learners, conducting periodical slip tests, intense practices for slow learners, general queries etc.. The Head also insisted the faculty members to attain minimum 84% as a target during IATs, University examinations.



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#### **GALLERY**











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#### PARENTS TEACHERS MEETING



A Parents-Teachers meeting was held on November 2<sup>nd</sup> & 3<sup>rd</sup> in the department of biomedical engineering, The HOD, Class In charge, and subject handling faculty addressed the parents with their suggestions on their ward's academic performance and placements.

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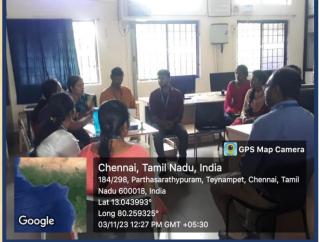
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#### **CLASS COMMITTEE MEETING**





Department of Electronics and Communication Engineering has conducted first class committee meeting for II Year students discussed syllabus coverage, students and faculty feedback with Dr. N.V.S. Sree Rathna Lakshmi, Professor/Head and all subject handling faculties.

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#### PARENT-TEACHERS MEETING



Dr.P.Murugan, Associate Professor and Head discussed with parents of III<sup>rd</sup> year student regarding his academic progress and preparedness for university examinations. Mr.N.Arunodhaya, class in-charge sharing his suggestions about their ward's improvement for the performance in the university examinations.

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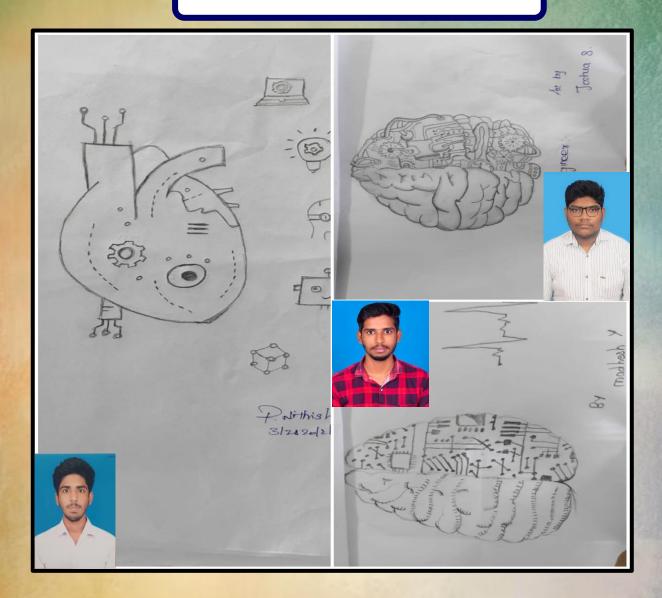


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A small activity was conducted in Department of biomedical engineering by our faculty on the topic "DODDLE ART RELATED TO BIOMEDICAL" on 28<sup>th</sup> October. The students of final year took part and expressed their talents.

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### STUDENT REPOSITORY



K. U. Kamalapriya (CSE), I year student, the Department of Science and Humanities, has depicted the drawing of cat mandela Art.

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