

IGNITE 2023



A DAILY NEWSLETTER

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Principal, ACT

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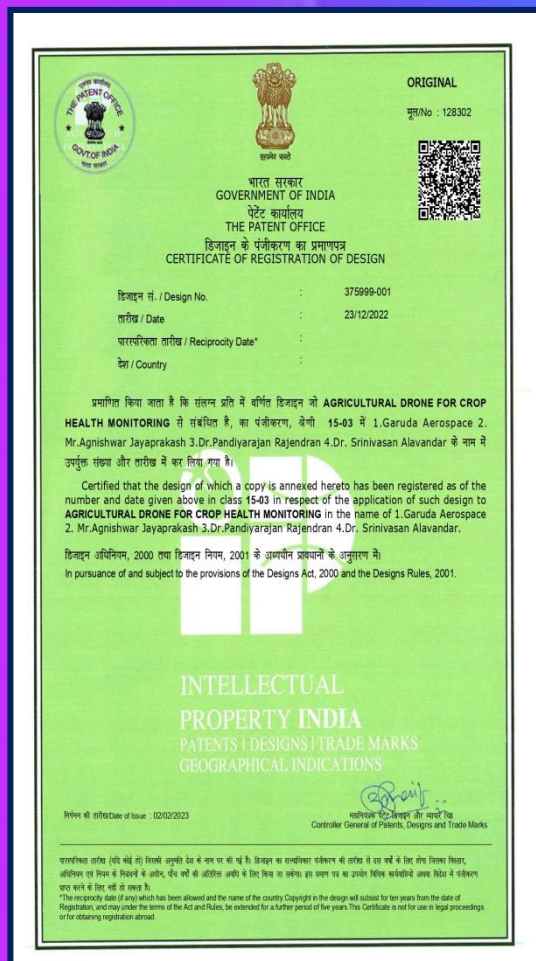
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INDIAN DESIGN PATENT GRANTED



Indian Design Patent has granted a patent for **Agricultural Drone for Crop Health Monitoring** designed by Mr. Agnishwar Jayaprakash, Founder & CEO, Garuda Aerospace Pvt. Ltd and Vice Chairman, Agni College of Technology, Dr. Srinivasan Alavandar, Principal, Agni College of Technology and Dr. Pandiyarajan Rajendran, Head, Department of MHT.

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PLACEMENT DIVISION

Placement & Training Cell
Welcome Recruiter
e-con Systems India Pvt Ltd
DESIGNATION: GET
Department: B.Tech. (CSE, IT, ECE, EEE & EIE)
Batch: 2023

0000 07th Feb 2023 09.00 am Auditorium, Ground floor, Convention Centre



The final year shortlisted students from the department of CSE, IT, ECE, EEE & MHT have attended **Preplacement Talk and Second Round Interview** conducted by **e-con Systems India Pvt Ltd, Chennai** on 7th February 2023

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ASSOCIATION INAUGURATION



The Department of Electronics and Communication Engineering inaugurated its Students Association in the presence of the Chief Guest Mr Muhammed Ilyas, CEO, IT Expert Training, Dr. Srinivasan Alavandar, Principal, ACT, Dr N V S Sree Rathna Lakshmi, Professor and Head, ECE and the faculty members with a promising aspiration to promote technical activities and programmes for the students on 6th February 2023.

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WEBINAR

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A+ NAAC

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Counselling Code **1316**

Proudly Inaugurates

Student Association & Workshop on Industry 4.0

"ELECTROSAPIENZ"
2022 - 2023

Resource Person
Mr. MUHAMMED ILYAS
CEO
IT EXPERT TRAINING

06th Feb 2023 09.30 AM to 12.30 PM Seminar Hall

Co ordinators
Dr.R.Muthalagu
Mrs.D.Maheswari

Prof & HoD/ECE
Dr. N.V.S. Sree Rathna Lakshmi

Principal
Dr. Srinivasan Alavandar

The Department of Electronics and Communication Engineering organized a **Webinar** on **INDUSTRY 4.0** on 6th February 2023. The Chief Guest Mr Muhammed Ilyas, CEO, IT Expert Training shared his profound ideas on the evolution of the Industry 4.0 and its fantabulous applications in the field of automation and cyber security industries.

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STUDENT ACHIEVEMENT



Sree Ram. U, IV year student, Department of Information Technology has completed all the courses in the learning path **Fertilizers Recommendation System for Disease Prediction** powered by IBM Developer Skills Network offered by ICT Academy on 9th November 2022.

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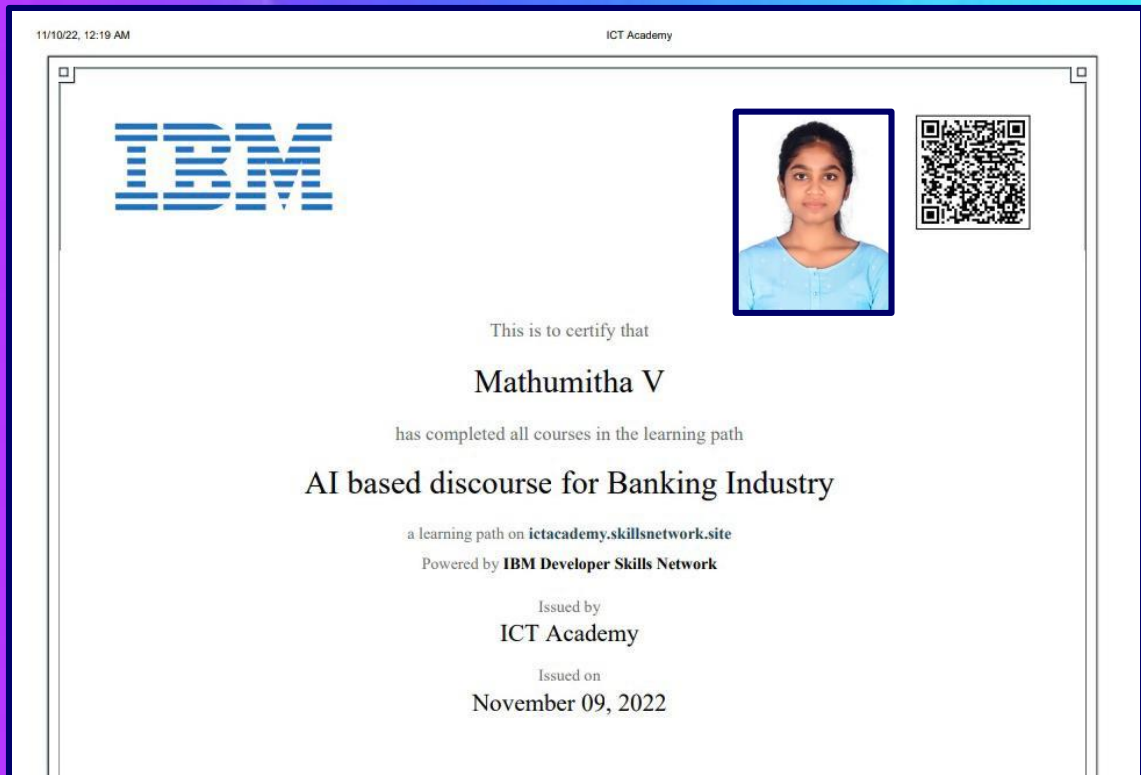
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STUDENT ACHIEVEMENT



Mathumitha. V, IV year student, Department of Information Technology has completed all the courses in the learning path **AI based discourse for Banking Industry** powered by IBM Developer Skills Network offered by ICT Academy on 9th November 2022.

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STUDENT ACHIEVEMENT



CERTIFICATE OF COMPLETION

Presented to

GINNI SINHA

For successfully completing a free online course
Database Management System

Provided by
Great Learning Academy
(On February 2023)

To verify this certificate visit verify.mygreatlearning.com/QXOWLFYO



CERTIFICATE OF COMPLETION

Presented to

Balamanikandan M

For successfully completing a free online course
Database Management System

Provided by
Great Learning Academy
(On February 2023)

Ginni Sinha and Balamanikandan.M, II year students, Department of Computer Science and Engineering have completed the online course on **Database Management System** organised by Great Learning Academy on 6th February 2023.

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STUDENT ACHIEVEMENT



A. Jaya Sudan and Gowthaman, I year student (MHT), Department of Science and Humanities have completed the online course on **Cyber Security Threats** offered by Great Learning Academy in in the month of December 2022.

STUDENT PARTICIPATION



B. Meganathan, Varinder Kumar Mourya and V. Kumudh Prabha, III year students, Department of Aerospace Engineering have participated in the workshop on **Space Technology and Its applications** conducted by Indian Institute of Remote Sensing and ISRO on 30th January 2023.

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FACULTY ACHIEVEMENT

MOLECULAR PHYSICS e2173964
https://doi.org/10.1080/00268976.2023.2173964

Taylor & Francis
Taylor & Francis Group

RESEARCH ARTICLE

Check for updates

Synthesis, spectroscopic profiling, biological evaluation, DFT, molecular docking and mathematical studies of 3,5-diethyl-2r,6c-diphenylpiperidin-4-one picrate

S. Bharanidharan ^a, S. Savithiri ^b, G. Rajarajan ^{c,d}, P. Sugumar ^e and A. Nelson ^f

^aDepartment of Physics, Panimalar Engineering College, Chennai, India; ^bDepartment of Chemistry, Kings Engineering College, Sriperumbudur, Chennai, India; ^cDepartment of Chemistry, Annamalai University, Chidambaram, India; ^dDepartment of Chemistry, Bharathiar University, Coimbatore, India; ^eDepartment of Physics, Agni College of Technology, Thalambur, Chennai, India; ^fDepartment of Mathematics, Panimalar Engineering College, Chennai, India

ABSTRACT

The title compound 3,5-diethyl-2r,6c-diphenylpiperidin-4-one picrate (**3,5-DEDPPP**) have been synthesised and characterised by elemental analysis, FT-IR, Mass, 1D NMR (¹H and ¹³C), UV-Vis., and Fluorescence spectral techniques. The title compound had been optimised utilising DFT method with B3LYP/6-311++G(d,p) level of theory. First order hyperpolarisability calculation was used to determine the non-linear optical behaviour of the title molecule. The calculation of the Lewis (bonding) and Non-Lewis (anti-bonding) structural types was done to explore the intra-molecular charge transfer within the molecule. The ICT and bioactivity of the molecule are significantly influenced by the decrease of the HOMO-LUMO energy gap value. The nucleophilic and electrophilic active sites of the molecule are predicted by the MEP surface analysis. *Escherichia coli*, *Bacillus subtilis*, *Vibrio cholerae*, as well as fungi such *Candida albicans*, *Aspergillus niger*, and *Trichophyton rubrum*, were tested for the **3,5-DEDPPP** bacterial activity. To establish information about the molecular interactions between protein and this novel compound theoretically, docking studies were carried out

ARTICLE HISTORY

Received 20 December 2022
Accepted 24 January 2023

KEYWORDS

Spectral; biological; DFT; molecular docking; 1-harmonic colouring



Dr. P. Sugumar, Assistant Professor, Department of Science and Humanities (Physics) has published a research paper on **Synthesis, Spectroscopic profiling, biological evaluation, DFT, molecular docking and mathematical studies of 3,5-diethyl 2r, 6c-diphenylpiperidin- 4-one picrate in Molecular Physics** with Impact Factor 1.91.

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FACULTY PARTICIPATION



Mr. T. Srinivasan and R. Arivazhagan, Assistant Professors, Department of Mechatronics Engineering have participated in an International Webinar on **Innovative Processing Techniques for Composite Materials for Engineering Applications** organized by Saveetha School of Engineering, Chennai held on 6th January 2023.

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