

IGNITE 2022



A DAILY NEWSLETTER

Editor in Chief

Dr. Srinivasan Alavandar
Principal, ACT

Editors

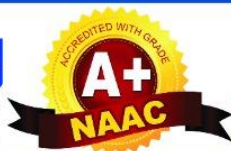
Ms. Mary Surya Kala, ASP - S&H
Ms. A. S. Swathi, AP - S&H
Mokeshwar. P, Student - AI&DS

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WISHES



Agni College
of Technology

Happy Birthday to you

Chairperson Mam

Happy birthday
and best wishes
to our leader who
supports us,
encourages us,
and gives us the
focus and
inspiration that
we need to
succeed!



**BHAVANI
JAYAPRAKASH**

Agni staff members along with the students wishing the **Chairperson** a very happy and splendid year ahead with bliss and ecstasy. We love you mam!

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INAUGURATION

**Garuda**
aerospace

Honourable Minister of Youth & Sports

SHRI ANURAG SINGH THAKUR JI

- INAUGURATES 1ST DRONE SKILLING & TRAINING CONFERENCE
- VIRTUAL DRONE UNIVERSITY
- HOISTING THE DRONE YATRA

**Date:** 6th December**Time:** 11am**Venue:** Garuda Aerospace

– Agni College of Technology

– Old Mahabalipuram Road, Thalambur Rd, Chennai, Tamil Nadu 600130

500 DISTRICTS | 1,000 COLLEGES | 10,000 STUDENTS

Honourable Minister for Youth & Sports, Shri Anurag Singh Thakur Ji has inaugurated the 1st Drone Skilling and Training Conference, Virtual Drone University and Flagged off the Drone Yatra on 6th December 2022 hosted by Garuda Aerospace along with Agni College of Technology in the college premises.

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FACULTY ACHIEVEMENT

MOLECULAR PHYSICS e2144520
<https://doi.org/10.1080/00268976.2022.2144520>



RESEARCH ARTICLE



3,5-Diethyl-2r,6c-di(4-chlorophenyl)piperidin-4-one picrate: synthesis, spectral, biological, DFT, ADME and molecular docking studies

S. Savithiri , S. Bharanidharan , G. Rajarajan , P. Sugumar and M. Arockia Doss

^aDepartment of Chemistry, Kings Engineering College, Sriperumbudur, Chennai, India; ^bDepartment of Physics, Panimalar Engineering College, 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 Chemistry, St. Joseph University, Dimapur, India

ABSTRACT

By using spectral methods, the 3,5-diethyl-2r,6c-di(4-chlorophenyl)piperidin-4-one picrate (DED-CPP) molecule was synthesised and characterised by FT-IR, NMR (¹H and ¹³C), UV-Vis and Fluorescence spectral techniques. The molecular structure was optimised using the density functional theory (DFT) method with B3LYP/6-311++G(d,p) basis set. The dipole moment, polarisability and first-order hyperpolarisability demonstrate the good nonlinear optical (NLO) feature of the title molecule. Natural bonding orbital (NBO) analysis was used to determine the electron densities of donor (i) and acceptor (j) bonds as well as the hyperconjugative interaction energy ($E^{(2)}$). In highest occupied molecular orbital (HOMO) and lowest unoccupied molecular orbital (LUMO) calculations, the smaller energy gap value was discovered. The Mulliken atomic charges of the carbon, nitrogen, chlorine and oxygen atoms were calculated at the same level of theory. The thermodynamic properties of the title compound were calculated at different temperatures in gas phase. The synthesised compound DEDCPP was screened for its antibacterial activity against *Escherichia coli*, *Bacillus subtilis* and *Vibrio cholerae* and antifungal activity against *Candida albicans*, *Aspergillus niger* and *Trichophy-*

ARTICLE HISTORY

Received 26 September 2022



Dr. P. Sugumar, Assistant Professor, Department of Science and Humanities (Physics) has published a research article on **3,5-Diethyl-2r,6c-di(4-chlorophenyl)piperidin-4 one picrate: synthesis, spectral, biological, DFT, ADME and molecular docking studies in Molecular Physics** with the impact factor 1.92.

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Volume 272

In progress • February 2023

About the journal

International Journal for Light and Electron Optics

Optik publishes articles on all subjects related to light and electron optics and offers a survey on the state of

FEEDBACK



Dr. Ishwarya M. V, Assistant Professor, Department of Computer Science and Engineering has been selected as a **Reviewer** for **SCI Elsevier Open Access Journal Optik** on 5th December 2022.

FACULTY PARTICIPATION



COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY, COCHIN-682022



Certificate of Participation

The DPIIT-IPR Chair Professor at the Inter University Centre for IPR Studies (IUCIPRS), CUSAT Cochin and the DPIIT-IPR Chair Professor at the Andhra University Visakhapatnam, are pleased to jointly certify that

Prof./Dr./Mr./Ms. Swathi Chenna

Affiliation

Agni College of Technology

has attended the Online Intellectual Property (IP) Webinar entitled
"IPR: KEY FOR ACADEMIC AND INDUSTRIAL EXCELLENCE"
delivered by Prof.(Dr.) Hanumanthu Purushotham on 1-12-2022.



For the DPIIT-IPR Chairs



Mrs. Swathi Chenna, Assistant Professor, Department of Chemical Engineering has participated in a **Webinar** on **IPR: Key for Academic and Industrial Excellence** conducted by Cochin University of Science and Technology, Cochin in the month of December 2022.

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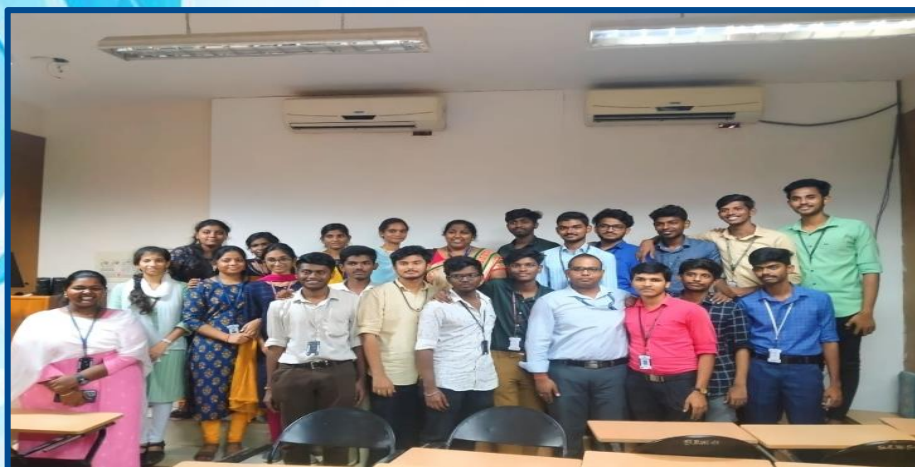
INDUSTRIAL VISIT



The Department of Computer Science and Engineering has arranged an **Industrial Visit** to **Imarticus Learning**. II year B section students were accompanied by two faculty members on 5th December 2022.

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INDUSTRIAL VISIT



The Department of AI&DS has arranged an **Industrial Visit** to **Sansbound Solutions Pvt. Ltd** for the II year students and were accompanied by two faculty members on 5th December 2022.

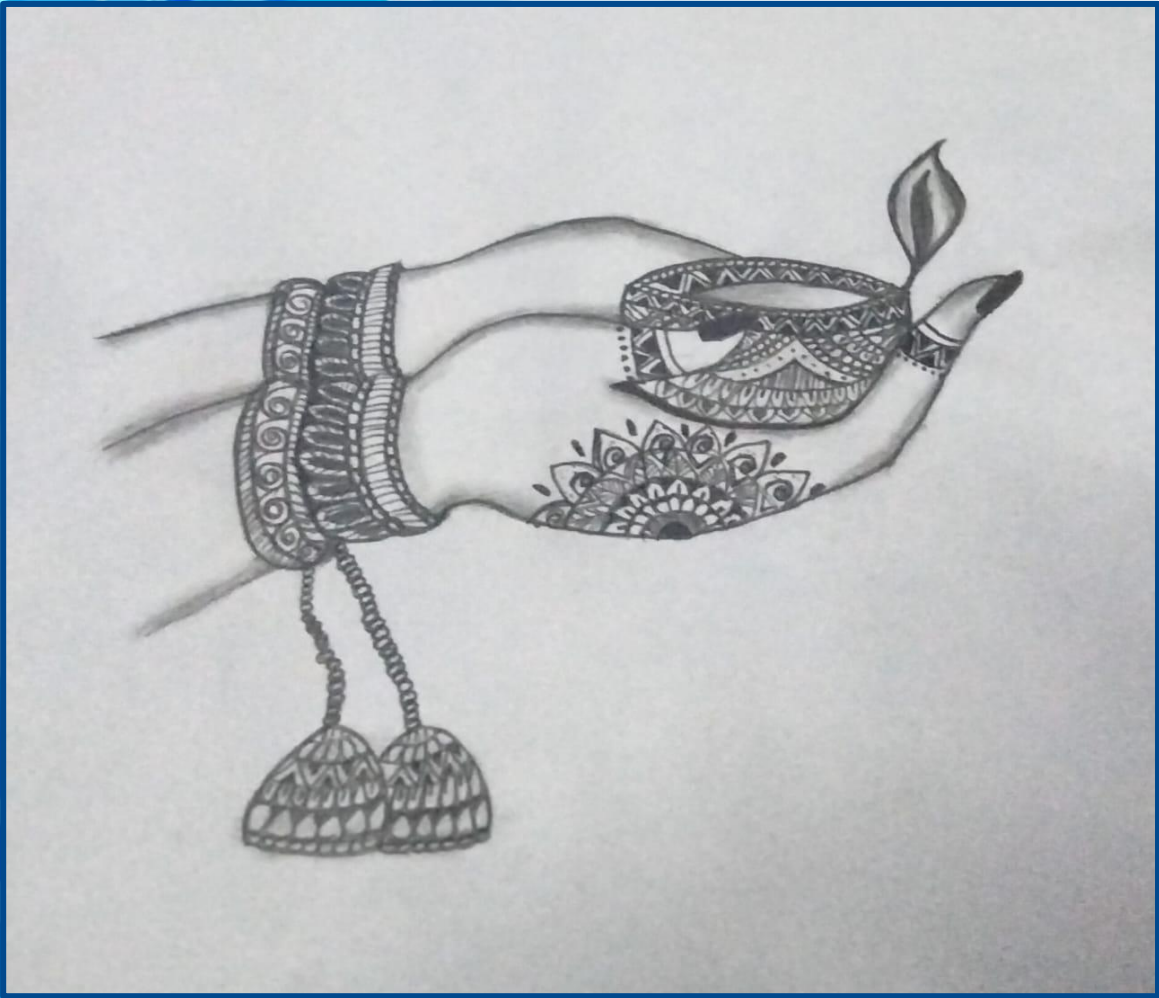
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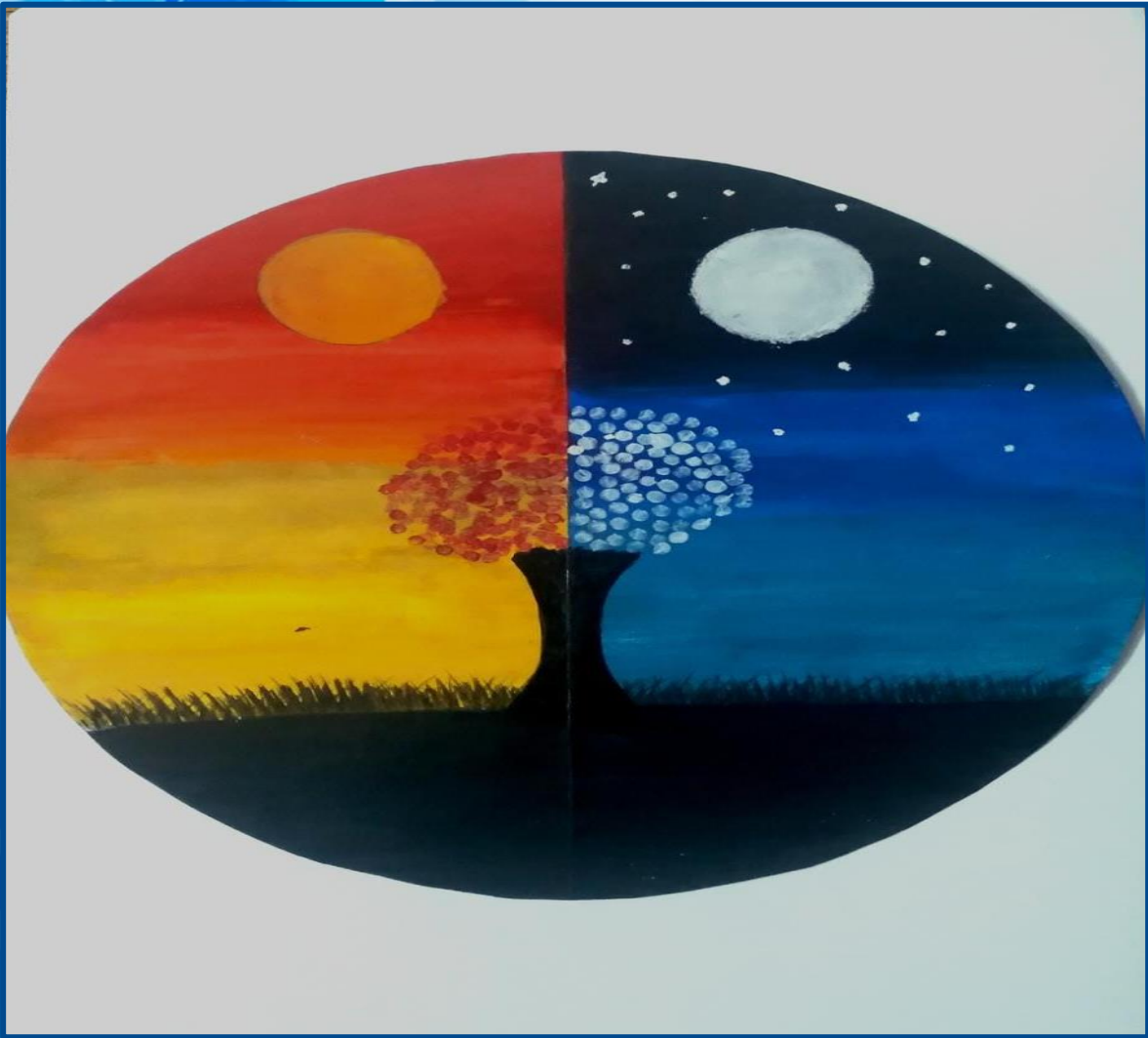


STUDENT REPOSITORY



Rajeswari V, II year student, Department of Electronics & Communication Engineering has portrayed a beautiful art of **Kaarthigai Lamp** on the occasion of **Kaarthigai Deepam**.

STUDENT REPOSITORY



Samyuktha, I year student, Section D, Department of Science and Humanities has captured the beauty of **Dawn & Dusk** through her vivid **Painting**.

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STUDENT REPOSITORY



G. Karunya Helan Mary, I year student, Section F, Department of Science and Humanities has depicted the **Beauty of Nature.**

FACULTY REPOSITORY



Ms Chithra P, Assistant Professor, Department of Electronics and Communication Engineering has created a beautiful **Mandala Art**.

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