

IGNITE 2022

A DAILY NEWSLETTER



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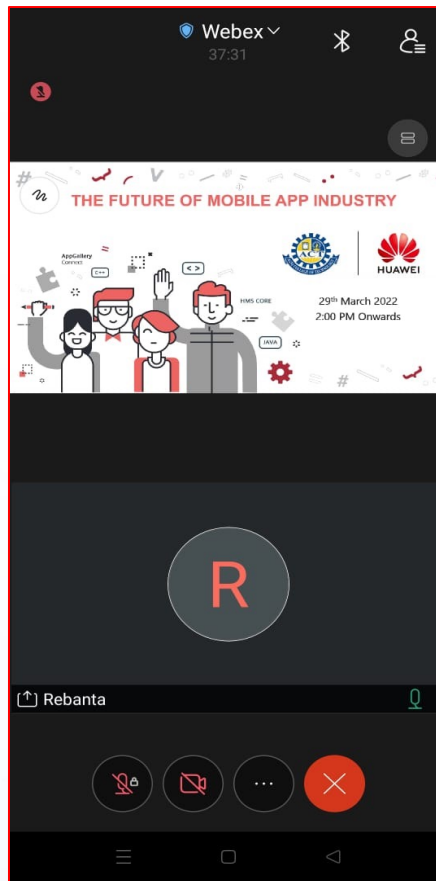


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Webinar - HUAWEI



A 5 week Mobile App Development Webinar is organized by Huawei Telecommunication. It is an awareness Programme for both students and faculty members of all the departments. All have participated actively and enthusiastically to utilize the expertise in the mobile app development which is the emerging trend in the global scenario.

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GUEST LECTURE



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HOW TO BUILD CAREER IN BIOMEDICAL ENGINEERING

Guest Lecture
Mr. M. AYYAPPADAS
Program Director, Skill Biomed,
Founder & Director, Harvey Biomedical,
Bangalore.

Other accompanying Persons
Mrs. R.B. SOUNDHARYA DEVI Program Manager, Skill Biomed, Tamilnadu.
Mr. HARISH KRISHNA HR manager, Skill Biomed, Tamilnadu.

Date : 29th March 2022 Time : 10.00am to 12.00 noon



Department of Biomedical Engineering organized a guest lecture on **How to Build Career in Biomedical Engineering** was held on 28th March 2022 at in seminar hall. The Lecture was given by Mr. Ayyappadas, Program Director, Skill Biomed, Founder & Director Harvey Biomedical, Bangalore. This session was an eye opener for career development of the students.

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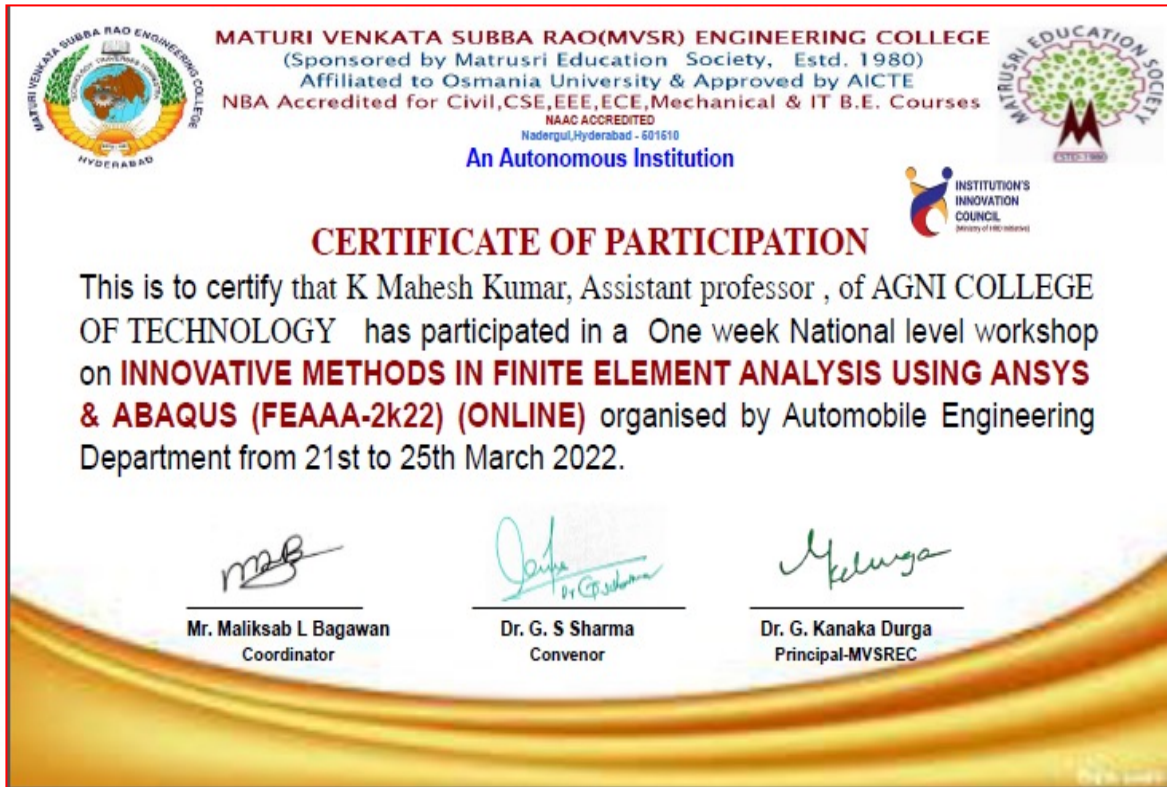
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FACULTY PARTICIPATION



K. Mahesh Kumar, AP, Department of MAE had participated in a one week National level Online Workshop on **INNOVATIVE METHODS IN FINITE ELEMENT METHODS USING ANSYS & ABACUS - FEAAA-2K22** organized by the Department of Automobile, MVSR Engineering College Chennai from 21st to 25th March 2022.

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PROJECT REVIEW



In the Department of Electrical and Electronics Engineering, Project Review was conducted for the Final year students in the presence of Dr. A. Kalaimurugan, HoD /EEE, Dr. N. Kamalakannan and Project Coordinator Mr. R. PraveenKumar.

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FACULTY PARTICIPATION



Mr Ohm Shankar S and Mrs Maheswari D, Assistant Professors, Department of Electronics and Communication Engineering had participated and successfully completed a 5 day FDP on “Hands on Workshop on Software Defined Radios” as an initiative by “Training and Learning” (ATAL) organized by Academy, AICTE.

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FACULTY PARTICIPATION



Mr. K. Aruloli and Mr. M. Subash, Assistant Professors from the Department of Electrical and Electronics Engineering had participated in a five day online Faculty Development Programme on **Contemporary Trends in IoT and Blockchain** from 15.03.2022 to 19.03.2022

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FACULTY PARTICIPATION



Mr. K. Aruloli, Assistant Professor from the Department of Electrical and Electronics Engineering has participated in the online Training Programme on **Solar Power Electronics and Alternate Energy Sources** conducted by NITTR from 07.03.2022 to 11.03.2022

FACULTY ACHIEVEMENT



Dr. S. Bharanidharan, Senior Assistant Professor, Department of Science and Humanities (PHYSICS) was awarded with a certificate of excellence in reviewing International Journal of Research and Reports in Gynaecology.

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FACULTY ACHIEVEMENT

MOLECULAR PHYSICS e2053219
https://doi.org/10.1080/00268976.2022.2053219

RESEARCH ARTICLE

Synthesis and characterisation of formohydrazide derivatives as potential antimicrobial agents: molecular docking and DFT studies

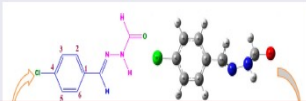
S. Gunavathi^a, R. Venkateswaramoorthi^a, K. Arulvani^a and S. Bharanidharan^b

^aDepartment of Chemistry, PGP College of Arts and Science, Namakkal, India; ^bDepartment of Physics, Agni College of Technology, Chennai, India

ABSTRACT
A novel series of formohydrazide derivatives (3a-3j) were synthesised and characterised by FT-IR, ¹H and ¹³C NMR spectral techniques. The geometrical parameters of compound 3d were calculated by using the DFT method B3LYP/6-311++G(d,p) basis set. The title molecule's dipole moment, polarizability, and first-order hyperpolarizability were calculated and interpreted. The HOMO-LUMO transition occurs when a molecule undergoes intra-molecular charge transfer. The reactive sites of the molecule are studied using the Molecular Electrostatic Potential (MEP) surface. In addition, using the DFT/B3LYP/6-311++G(d,p) level of theory, the Mulliken atomic charges of carbon, nitrogen, oxygen, chlorine, and hydrogen atoms were determined. The compounds 3a-j were tested for their in vitro antibacterial activity against five bacterial strains viz., Gram-Positive bacteria species *Enterococcus faecalis*, *Staphylococcus aureus* and Gram-Negative bacteria species *Escherichia coli*, *Klebsiella pneumoniae* and *Pseudomonas aeruginosa*. The tested antimicrobial activities of the compounds were compared with the standard drug of Ciprofloxacin for bacteria and Ketocanazole for fungal. The compounds 3c, 3d and 3e showed excellent antifungal activities than the standard fungal strains. Molecular docking analysis was used to investigate the interaction of the title compound with a target protein.

ARTICLE HISTORY
Received 30 January 2022
Accepted 8 March 2022

KEYWORDS
Formohydrazide derivatives; spectral studies; DFT; biological activity; molecular docking



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Check for updates

Dr. S. Bharanidharan, Senior Assistant Professor, Department of Science and Humanities (PHYSICS) has published an article entitled **Synthesis and Characterisation of Formohydrazide Derivatives as Potential Antimicrobial Agents: Molecular Docking and DFT Studies** in Molecular Physics on 22nd March 2022.

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