

THE AGENDA



Newsletter.....

FROM THE DEPARTMENTS OF SCIENCE AND HUMANITIES

(APPLIED CHEMISTRY, APPLIED MATHEMATICS, APPLIED PHYSICS & HUMANITIES AND SOCIAL SCIENCES)

SRI VENKATESWARA COLLEGE OF ENGINEERING
SRIPERUMBUDUR - 602117 TAMILNADU, INDIA

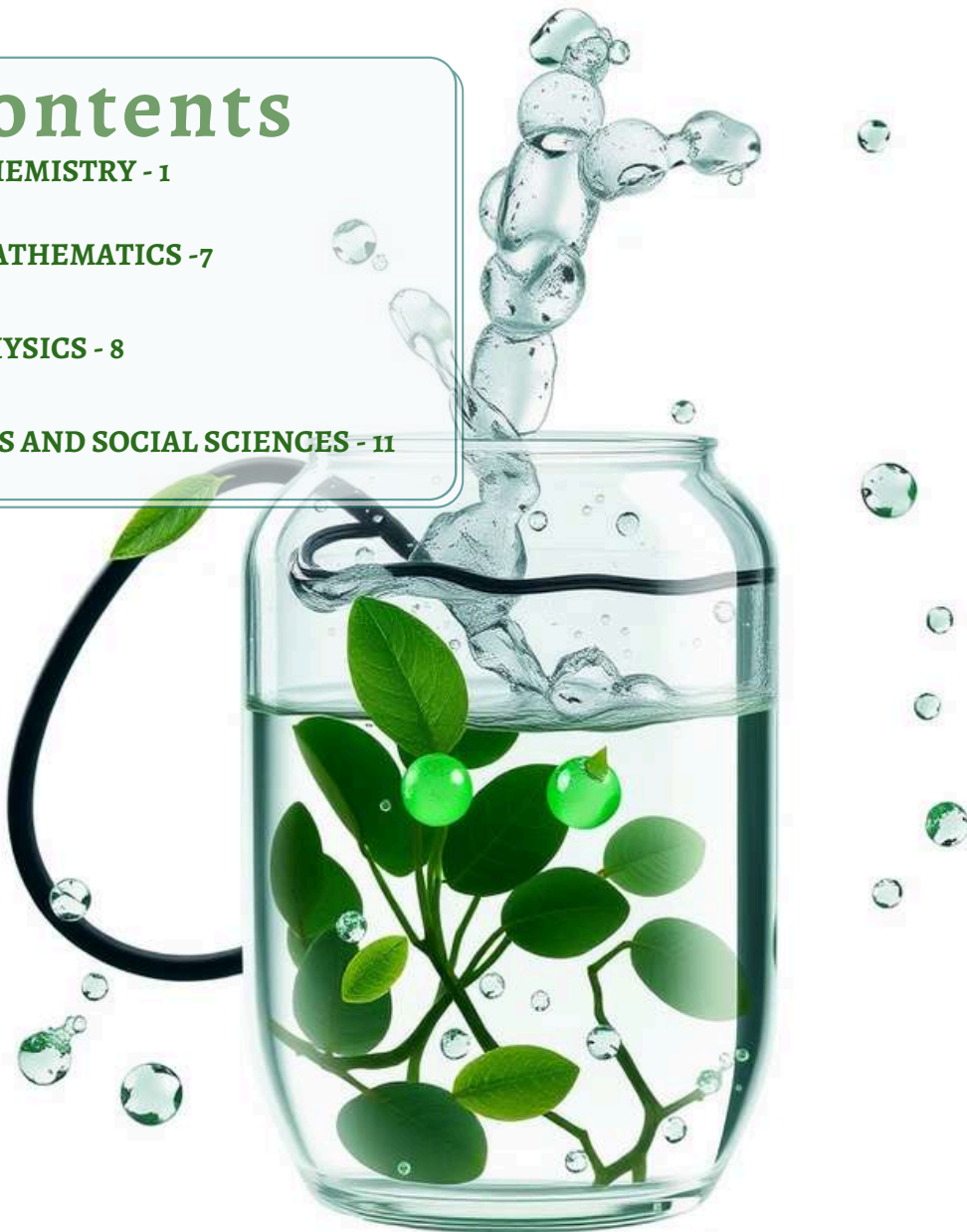
Contents

APPLIED CHEMISTRY - 1

APPLIED MATHEMATICS -7

APPLIED PHYSICS - 8

HUMANITIES AND SOCIAL SCIENCES - 11





H2Next is a leading manufacturer of hydrogen generators and related components, has solidified its commitment to sustainable energy by signing a Memorandum of Understanding (MOU) with SVCE - Entrepreneurship Promotion and Incubation Center (EPIC). The event took place on August 23, 2024, and featured distinguished speakers and industry experts.

Key Points from the Ceremony:

Collaboration for a Greener India: The MOU aims to foster collaboration between H2Next and SVCE EPIC in promoting renewable energy solutions and decarbonizing India's energy landscape.

Research and Development: The partnership will focus on joint research projects, technology development, and knowledge sharing in the field of hydrogen generation and related technologies.

Entrepreneurship and Innovation: SVCE EPIC will provide a platform for budding entrepreneurs to explore opportunities within the hydrogen industry, supported by H2Next's expertise.

Training Initiative: Dr. N. Nachiappan, Associate Professor of the Department of Applied Chemistry, along with Assistant Coordinators Dr. S. Ananda Babu and Dr. S. Anandhavelu, will lead a training program focused on refurbishing electrolyzers and fuel cells. This initiative, tied to the Department of Applied Chemistry & Chemical Engineering, will run from August 2024 to August 2026, with a training fee of INR 1,00,000 under the startup incubation program.



Speakers and Their Contributions

- Dr. S. Ilaiyavel: Welcomed attendees and emphasized the MOU's significance for sustainable development.
- Mr. V. Senthil Velan: Discussed SVCE EPIC's role in fostering innovation and entrepreneurship.
- Dr. S. Ganesh Vaidyanathan: Highlighted the importance of industry-academia partnerships in addressing global energy challenges.
- Dr. M. Sivanandham: Provided insights on hydrogen as a clean energy solution.
- Dr. N. Nachiappan: Outlined the MOU's objectives and its potential to advance research and development.
- Dr. G. Baskar: Introduced the chief guest.
- Mr. S. Subramanian: Delivered a keynote address, sharing H2Next's vision for the hydrogen industry.
- Dr. R. Muthucumaraswamy: Presented research on relevant topics.
- Dr. S. Ananda Babu: Offered a vote of thanks to all participants.

ATTENDED WORKSHOP AT SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

Dr. G. Devasagayam, Professor attended the FDP organized by the Department of Mechanical Engineering at SRM Institute of Science and Technology (SRMIST), Kattankulathur. The workshop, titled "Recent Advances in Energy Research for Sustainable Development," was held from the 5th to the 10th of August, 2024.

PROGRESS MONITORING CUM FEEDBACK AND IMPACT EVALUATION VISIT



APPLIED CHEMISTRY

Dr. Stanly S, Professor and Head, Department of Applied Chemistry nominated as the Mentor Institution Expert Member by IIC SVCE for "Progress Monitoring cum Feedback and Impact Evaluation Visit" for Adhiparasakthi College of Pharmacy and delivered lecture session on "Entrepreneurship and Innovation as a Career Opportunity" held on 1st August 2024.

IIC SVCE ORGANIZES BOOT CAMP

"Recent Trends in Science and Technology" at the ATAL Lab, Subramania Sastriar Higher Secondary School, Arni, on August 23, 2024. The event aimed to raise awareness among school students about the latest advancements in materials science, renewable energy, and sustainability.



Dr. M. Thirumalaikumar delivered presentation, highlighting a comparison between renewable and non-renewable energy sources, encouraging students to consider sustainable alternatives for a greener future.

IIC SVCE CONDUCTS ORIENTATION SESSION



On 1st August 2024, the IIC SVCE organized an orientation session on Innovation and Entrepreneurship at the ATAL Lab of Subramania Sastriar Higher Secondary School, Arni. The session aimed to raise awareness about innovation and entrepreneurship among school students.

Dr. M. Thirumalaikumar provided an introduction to Intellectual Property Rights (IPR), highlighting its significance in fostering innovation.

IIC SVCE ORGANIZES BOOT CAMP

APPLIED CHEMISTRY

Dr. S. Ananda Babu, and Dr. S. Ilayavel, conducted Training and Boot Camp; Mentor-Mentee Experts meet events as part of the ATAL School activities under the IIC, SVCE. He delivered an engaging lecture to the students of Government Girls Higher Secondary School (GHSS), Cheyyar, Tiruvannamalai District, Tamil Nadu, on 30th August 2024.



MOU SIGNINGS FOR MECHANICAL ENGINEERING DEPARTMENT

Dr. G. Baskar Associate Professor as IIC member assisted the Department of Mechanical Engineering in signing of MoUs between SVCE and Thirumala Press Components (P) Ltd, Chennai and between Plugzmart, IIT MIC, Chennai.



VISIT FUEL CELL LAB UNDER IIC 6.0 MENTOR-MENTEE SCHEME

On August 6th, 2024, representatives from SCSVMV (Deemed to be University), Kanchipuram, visited the Fuel Cell Laboratory as part of the IIC 6.0 Mentor-Mentee Scheme. During the visit, Dr. N. Nachiappan, Associate Professor, and Dr. S. Ananda Babu, Assistant Professor, provided an explanation of the various facilities available at the lab.

ANNUAL CONVENTION FOR CHEMISTRY AND CHEMICAL ENGINEERING, ORGANIZED BY BIS - 23 RD AND 24 TH AUGUST.

Dr. Stanly S, Professor and Head, Applied Chemistry participated in the "Annual Convention for Chemistry and Chemical Engineering, organized by BIS New Delhi at Dharamshala on 23 rd and 24 th August. The convention offered comprehensive insights into various Indian Standards, particularly highlighting those pertinent to Chemical Engineering and the Chemical Industry.



GUEST LECTURE FACILITATED

Dr. G. Baskar, Associate Professor, facilitated a guest lecture for the Department of Chemical Engineering on the topic "Career and Research Prospects for Chemical Engineers." The guest speaker, Dr. Ir. Prasaanth Ravi Anusuyadevi, a Postdoctoral Researcher and Materials Scientist at TU Delft (Delft University of Technology), The Netherlands, provided valuable insights into the opportunities available in the field of chemical engineering, focusing on both career development and research advancements.



1 On August 19, 2024, Dr. G. Devasagayam, Professor, facilitated a team visit to Ultramarine and Pigments Limited (UPL), a leading company in the pigments and surfactants industry. The visit aimed to gain a deeper understanding of UPL's operations, particularly in the surfactant section, and to explore potential collaborative opportunities between the two institutions.

The team, comprising Dr. Stanly S., Dr. G. Devasagayam, Dr. M. Thirumalaikuar, and Dr. T. Balusamy, received an insightful tour of the Surfactant Process Unit, led by Mr. Sivakumar, Deputy Manager of Production at UPL. The visit was highly beneficial, offering valuable insights into UPL's processes and laying the groundwork for potential future partnerships between UPL and Sri Venkateswara College of Engineering.



2 Dr M Thirumalaikumar and Dr G Baskar represented SVCE in the inauguration of new laboratory facilities in the Indian Rubber Materials Research Institute, Sri City, Andhra Pradesh.



3 Dr. S. Anandhavelu, Assistant Professor, successfully completed a two-day visit to the Biome Analytical Laboratory, Karakudi from August 1 to August 2, 2024. During the visit, he gained valuable insights into the laboratory's advanced instrumentation, analytical techniques, and quality control procedures.

1 Dr S Selvakumar, Assistant Professor, attended 5 Days National Level Online IKS Workshop on "Vedic Mathematics: Formulas, Calculation & Applications", conducted by A.C.T. Academy, Kerala, from 8/8/2024 to 12/8/2024 .

2 Dr. K.Vijayalakshmi , Dr.R. Umadevi and Ms. Visalakshi Subramanian, Assistant Professors, attended one week FDP on "Exploring New Horizons in Mathematical Research", organized by PG and Research Department of Mathematics, V. O. Chidambaram College, Thoothukudi from 19.08.2024 to 24.08.2024 (online).

EVENT ORGANIZED:

Dr. B.Saravanan, Assistant Professor, organised Essay Writing competition on Innovations Driving Sustainable Development in India: A Vision for the Next 25 Years; as part of the 78th Independence Day Celebrations (Quarter-IV IIC Celebration Activity) held on 13th August 2024.

BOARD OF STUDIES MEMBER:

Dr.R Muthucumaraswamy, Professor & Head, attended BoS meeting at Department of Science and Humanities, RMK College of Engineering and Technology, Chennai on 13/8/2024.

WORKSHOPS/FDPS/ CONFERENCES PARTICIPATED

APPLIED PHYSICS

1

Ms. G. Bharathy, Assistant Professor, Department of Applied Physics, participated in a four-day National Seminar on "Enrichment of Engineering Education through Effective Implementation of NEP 2020," organized by Vardaman College of Engineering, Hyderabad, from July 29 to August 1, 2024.

2

Dr. S. Sampath Krishnan, Professor, along with Ms. G. Bharathy, Dr. T. Senthilnathan, Dr. M. Sukumar, and Dr. A. Saravanan, Assistant Professors, Department of Applied Physics, participated in a workshop on "Molecular Modelling of Nanomaterials and Biomolecules" organized by the PG & Research Department of Physics, Holy Cross College (Autonomous), Tiruchirappalli, from August 5 to 9, 2024.

3

Dr. T. Senthilnathan, Dr. M. Sukumar, and Dr. A. Saravanan, Assistant Professors, Department of Applied Physics, participated in a five-day Faculty Development Program (FDP) on "Renewable and Non-Renewable Energy Sources and Their Impact on the Current Energy Scenario," organized by the Department of Science and Humanities, Nehru Institute of Technology, Coimbatore, from August 27 to 31, 2024.

4

Ms. G. Bharathy attended a webinar on Synopsys Quantum ATK Software, specifically tailored for battery simulations, on August 31, 2024.

5

Dr. T. Senthilnathan, Assistant Professor, Department of Applied Physics, attended a one-day webinar on "Dynamic Light Scattering-Zeta Potential and Its Applications," organized by the Prof. C.N.R. Rao Research Centre, Avinashilingam Institute for Home Science and Higher Education for Women, on August 24, 2024.

1

Dr. N.R. Sheela Associate Professor and Head, Department of Applied Physics nominated as the Mentor Institution Expert Member by IIC SVCE for "Progress Monitoring cum Feedback and Impact Evaluation Visit" for Adhiparasakthi College of Pharmacy and delivered lecture session on "Entrepreneurship and Innovation as a Career Opportunity" held on 1st August 2024.



2

Dr. N.R. Sheela Associate Professor and Head, Department of Applied Physics ATAL School Coordinator has successfully organized "Training and Bootcamp 'Innovation and Entrepreneurship'" ATAL School Activity, IIC SVCE and delivered the lecture session for the Government Girls Higher Secondary School Children, Sriperumbudur on 14th August 2024.



3

Dr. N.R. Sheela Associate Professor and Head, Department of Applied Physics ATAL School Coordinator has successfully organized "Training and Bootcamp 'Innovation and Entrepreneurship'" ATAL School Activity, IIC SVCE and delivered the lecture session for the Government Girls Higher Secondary School Children, Sriperumbudur on 30th August 2024.



4

On August 1st, 2024, Ms. G. Bharathy, Assistant Professor in the Department of Applied Physics, organized and led a series of events, including a Training and Boot Camp as well as a Mentor-Mentee Experts Meet at Subramania Sastriar Higher Secondary School, Arni. As part of the program, she also delivered an insightful session on "Recent Trends in Science and Technology," engaging students and faculty with the latest advancements in the field.



5

Ms.G.Bharathy, Assistant Professor, Department of Applied Physics conducted Training and Boot Camp; Mentor-Mentee Experts meet events at Subramania Sastriar Higher secondary school, Arni on 23rd August 2024.



FACULTY PUBLICATIONS

Dr.M.Sukumar, Assistant Professor, Department of Applied Physics published a paper entitled, Structural, elemental, morphological, optical, vibrational and magnetic behaviour of Mg²⁺ doped La₂CuO₄ nano particles in the Journal -J Mater Sci: Mater Electron (2024) 35:1512- <https://doi.org/10.1007/s10854-024-13247-3>

EXPERT LECTURES:

Dr.Murugavel Professor & HoD / HSS gave four special lecturers and the details are as follows:

1

Special Lecture on; "From Concrete Jungles to "Green Oasis: An Engineer's Role in Conservation" on 7/8/24 at the Institution Innovation Council, at RMK Engineering College.

2

Special Lecture on " Entrepreneurship and Innovations" on 1/8/2024 at Adhiparasakthi College of Pharmacy, Melmaruvathur as a member of the Progress Monitoring Committee of the IIC - SVCE.

3

Special Lecture on "Butterfly Microhabitats and Their Impact on the Ecosystem" on 8/8/2024 at the Saint Gobain Research Center in Chennai.

4

Special Lecture on " Traits of Entrepreneurs" on 27/8/2024 to the students of " Government Girls Higher Secondary School" at Sriperumbudur

5

Dr.Amutha Charu Sheela / Assistant Professor gave a presentation on "Resource Person for the Seminar on "Innovation and Entrepreneurship as a Career

Opportunity" on 1/8/2024 organized by Institution Innovation Council by SCSVMV.

WORKSHOPS/FDPS PARTICIPATED:

1

Dr.Murugavel, Professor & HoD / HSS, chaired a Paper Presentation session on 8/8/2024 at a Three-Day National Conference on "Interface of Language and Literature with Technology in The ERA of Industry 5.0" from 7/8/2024 to 9/8/2024 organized by SVCE in collaboration with the English Language Teachers' Association of India (ELTAI).

2

Dr.Amutha Charu Sheela / Associate Professor and Dr.Iyuswariya Lakshmi .M. V convened a Three-Day National Conference on Interface of Language and Literature with Technology in The ERA of Industry 5.0" from 7/8/2024 to 9/8/2024 organized by SVCE in collaboration with the English Language Teachers' Association of India (ELTAI).

3

Ms.Anichamalar / Assistant Professor participated in the Virtual Seminar on " Entrepreneurship Skills, Attitude and Behaviour Development" on 10/8/24 organized by The Institution Innovation Council (IC201810371 - IIC SVCE Sriperumbudur) at Sri Venkateswara College of Engineering, Sriperumbudur.

4

Ms. Anichamalar / Assistant Professor, Mr.Shrihari .S / Assistant Professor, Mr.Bharathikumar.S / Assistant Professor, Ms. Siva Prathesha / Assistant Professor, Ms.Ragavi Priya./ Assistant Professor participated in a Three-Day National Conference on the Interface of Language and Literature with Technology in The ERA of Industry 5.0" from 7/8/2024 to 9/8/2024 organized by SVCE in collaboration with the English Language Teachers' Association of India (ELTAI).

WORKSHOPS/FDPS PARTICIPATED:

5

Mr. Bharathikumar.S / Assistant Professor did an online workshop and a quiz. The Details are as follows: An Online Workshop on "Phd Thesis Writing" on 20/8/2024 organized by MGSM's Dadasaheb Dr. Sures G. Patil College, Chopda, Maharashtra in collaboration with Eltai Khandesh Chapter. The Voice of Values, India conducted an online Quiz on " Independence Day- 2024 on 15/8/2024.

6

Ms. Ragavi Priya, Assistant Professor, attended a five-day FDP on "Indian English Literature: Themes, Techniques, and Theories" from 5/8/24 to 9/8/2024, organized by Dr. SNS Rajalakshmi College of Arts and Science, Coimbatore.

The Agenda

newsletter.....

FROM THE DEPARTMENTS OF SCIENCE AND HUMANITIES

(APPLIED CHEMISTRY, APPLIED MATHEMATICS, APPLIED PHYSICS
& HUMANITIES AND SOCIAL SCIENCES)

EDITORIAL TEAM

Dr. G. Devasagayam
Professor
Department of Applied Chemistry

Dr. S. Ananda Babu
Assistant Professor
Department of Applied Chemistry

Dr. A. Subbu alias Suba
Assistant Professor
Department of Applied Mathematics

Dr. T. Senthilnathan
Assistant Professor
Department of Applied Physics

Mr. S. Bharathikumar
Assistant Professor
Department of Humanities and Social Sciences

Dr.S.Stanly
Professor & Head
Department of Applied Chemistry

Contact Us

CAMPUS ADDRESS:

Sri Venkateswara College of Engineering
Post Bag No.1
Pennalur Village
Chennai - Bengaluru Highways
Sriperumbudur (off Chennai) Tk. - 602 117
Tamil Nadu, India

TRUST OFFICE ADDRESS:

Sri Venkateswara Educational and
Health Trust
Address: 1/3A River View Road,
Sector 3, Kotturpuram,
Chennai, Tamil Nadu 600085



acm@svce.ac.in
principal@svce.ac.in
enquiry@svce.ac.in



+91-44-27152000