

# The Agenda

Newsletter.....

From the Departments of Science and Humanities  
(APPLIED CHEMISTRY, APPLIED MATHEMATICS, APPLIED PHYSICS &  
HUMANITIES AND SOCIAL SCIENCES)

**SvCE** | Sri Venkateswara  
College of  
Engineering



**லாப் 10 கல்வூரிகள் சென்னை மண்டலம்**

- 1 இந்திய தொழில்நுட்பக் கழகம் (ஐஐடி), சென்னை
- 2 அண்ணா பல்கலைக்கழகம், சி.இ.ஐ. கேம்பல், சின்சு, சென்னை
- 3 அண்ணா பல்கலைக்கழகம், எம்.ஐ.டி கேம்பல், குரோம்பேட்டை, சென்னை
- 4 சிவ சுப்ரமணிய நாடார் பொறியியல் கல்லூரி (SSN), கரையாக்கம், காஞ்சிபுரம்
- 5 **ஸ்ரீ வெங்கடேஸ்வரா பொறியியல் கல்லூரி, ஸ்ரீ பெரும்புத்தூர், காஞ்சிபுரம்**
- 6 SRM இன்ஸ்டிடியூட் ஆப் சயின்ஸ் & டெக்னாலஜி, காட்டான்சூரத்தூர், சென்னை
- 7 அண்ணா பல்கலைக்கழகம், ஏ.சி.டி கேம்பல், சின்சு, சென்னை
- 8 சத்யா கிரேடிடேட் ஆப் சயின்ஸ் & டெக்னாலஜி, சென்னை
- 9 சென்னை கிரேடிடேட் ஆப் டெக்னாலஜி (CIT), குன்றத்தூர், சென்னை
- 10 ராஜா கமி பொறியியல் கல்லூரி, தண்டலம், காஞ்சிபுரம்

**தமிழகத்தின் லாப் இன்ஜினீயரிங் கல்வூரிகள் ஆனந்த விகடன்**



# MAY HIGHLIGHTS

## NPTEL

Dr. G. Baskar, Completed a NPTEL online and certified in the ELITE category.

## Certificate of appreciation

Dr. S. Anandhavelu, received this honour for having an H-index of 15 on the SVCE-Faculty Research Day 2023

## DRDO Grant Received

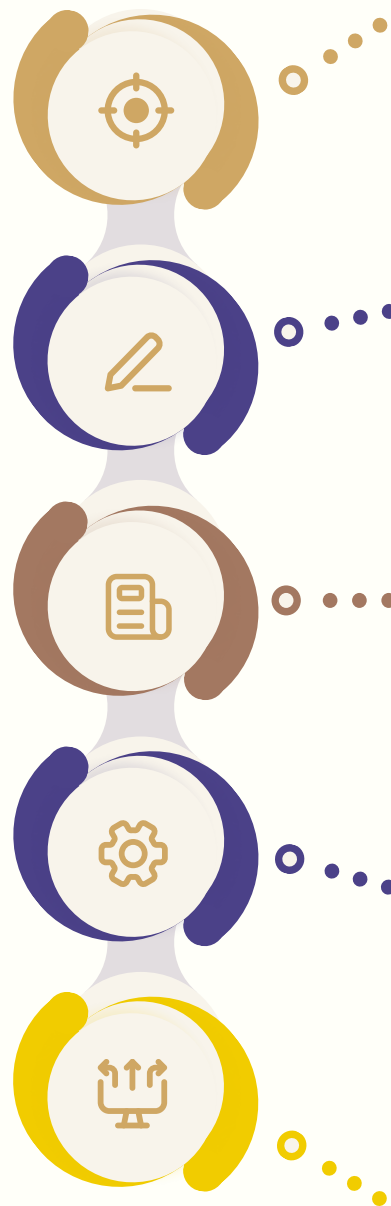
Dr.R.Muthucumaraswamy, PI and Dr.A.Subbu alias Suba, Co-PI received an amount of **Rs. 1,06,375/-** towards the first Installment of Grant- In-Aid for DRDO sponsored Project

## Long Service Award

Dr.B.Thilaka, Professor has received Long Service Award for her **25** years of service at SVCE.

## Patent published

Dr.T.Senthilnathan published a design Patent entitled "Wind and Solar power charging station" on 23.5.2023





# Applied Chemistry

## NPTEL

Dr. G. Baskar, Assistant Professor, Department of Applied Chemistry, Completed a four credit course (12 weeks) "Leadership and Team Effectiveness" conducted by NPTEL online and certified in the ELITE category.



### NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**DR G BASKAR**

for successfully completing the course

#### Leadership and Team Effectiveness

with a consolidated score of **70 %**

  
Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT Madras



(Jan-Apr 2023)

Roll No: NPTEL23MG28583341203

Duration of NPTEL course : 12 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams. This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24<sup>th</sup> July 2018, similar to other refresher / orientation courses. F.No. AICTE / RIFD / FDP through MOOCs / 2017-18



### Elite NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

**DR G BASKAR**

for successfully completing the course

#### Leadership and Team Effectiveness

with a consolidated score of **70 %**

Online Assignments	24.69/25	Proctored Exam	45/75
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Total number of candidates certified in this course: **4685**

  
Prof. Sanjeev Manhas  
Coordinator, Continuing Education Centre  
IIT Roorkee

Jan-Apr 2023  
(12 week course)

  
Prof. Priti Maheshwari  
NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



Roll No: NPTEL23MG28583341203

To validate the certificate



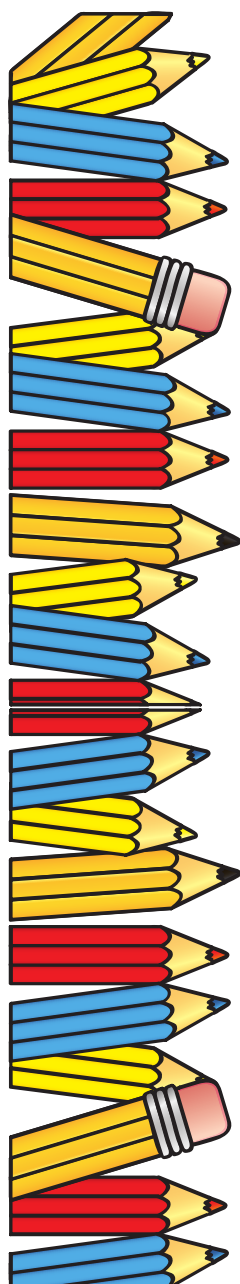
No. of credits recommended: 3 or 4



# Applied Chemistry

## CERTIFICATE OF APPRECIATION

The "Certificate of Appreciation for Top H-index SVCE Faculty" has been awarded to Dr. S. Anandhavelu, Assistant Professor, Department of Applied Chemistry. He received this honour for having an H-index of 15 on the SVCE-Faculty Research Day 2023 from Dr. C. Umarani, Director of Research at Anna University.



**SVCE** | Sri Venkateswara  
College of  
Engineering

Autonomous - Affiliated to Anna University  
Pennalur, Sriperumbudur, Tamil Nadu | [www.svce.ac.in](http://www.svce.ac.in)



### CERTIFICATE OF APPRECIATION

The Management of Sri Venkateswara College of Engineering, Pennalur, Sriperumbudur, would like to

Congratulate Dr./Mr./Ms./Prof. S. Anandhavelu Designation Assistant Professor

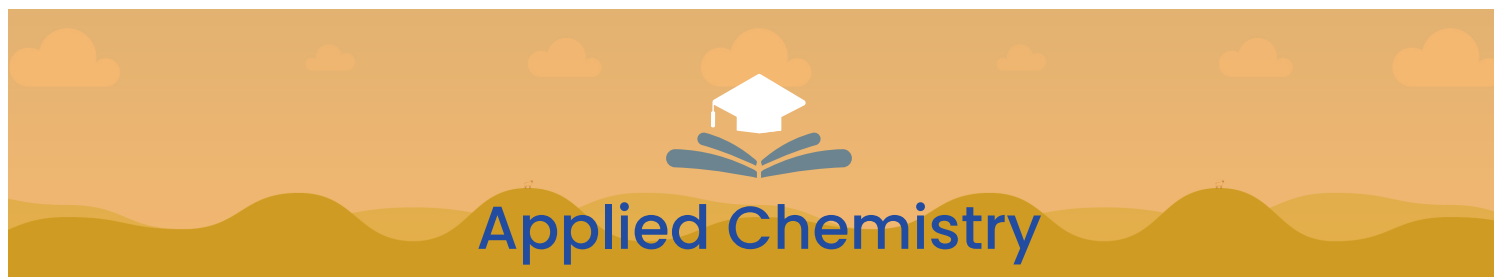
working in the Department of Chemistry for his/her contribution on receiving a Grant/

Publication / Book-Chapter / Patent-Titled h-index : 15 , i10-index : 21 and overall

Citations : 829

  
DEAN (RESEARCH)

  
PRINCIPAL



## APPOINTED AS AN EDITOR

Dr. S. Anandhavelu, Assistant Professor, Department of Applied Chemistry, has been appointed as an editor for a book titled: Sulphur dioxide chemistry and environmental impact. Publisher: INTECH Open Science Open Mind, London.

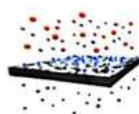
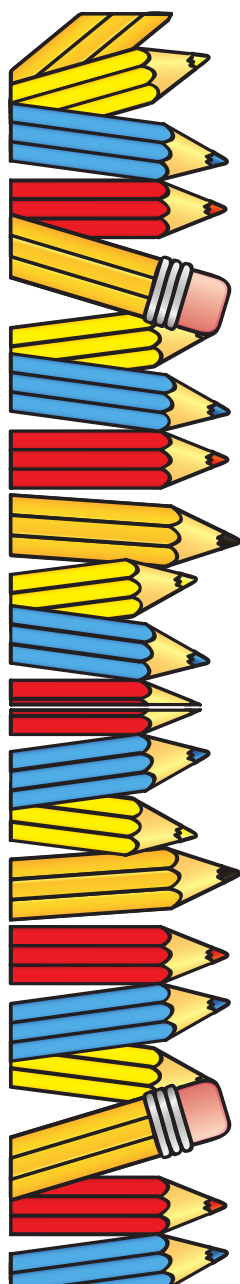




# Applied Chemistry

## FDP ATTENDED

Dr. Stanly S Associate Professor, Assistant Head of the Department, Department of Applied Chemistry, Participated in One day FDP on “Modern Applications of Nanofibres and Nanomembranes” conducted by Department of Chemistry in association with Institution’s Innovation Council, Rajalakshmi College on 4th May 2023



MODERN APPLICATIONS OF  
NANOFIBRES AND  
NANOMEMBRANES  
04.05.2023



Rajalakshmi  
Institutions

## CERTIFICATE OF PARTICIPATION

This is to certify that Dr./Mr./Ms. *S. Stanly*  
*Associate Professor*  
of *Sri Venkateswara College of Engineering*  
has participated in the One Day Faculty Development Programme on  
**MODERN APPLICATIONS OF NANOFIBRES AND NANOMEMBRANES**  
conducted by the Department of Chemistry in association with  
Institution's Innovation Council, Rajalakshmi Engineering College  
on 4<sup>th</sup> May 2023.

*V. Vasumathi*  
Dr. V. Vasumathi  
Head of the Department

*M. Muthusamy*  
Dr. M. Muthusamy  
Dean-H&S

*S.N. Murugesan*  
Dr. S.N. Murugesan  
Principal





# Applied Chemistry

## CERTIFICATE OF APPRECIATION

Dr. M. Thirumalaikumar Assistant Professor, Department of Applied Chemistry presented a paper entitled “Polycyclic Aromatic Hydrocarbons” and was awarded Third Place in Faculty Research Day 2023 on 26 th May 2023.





## LONG SERVICE AWARD

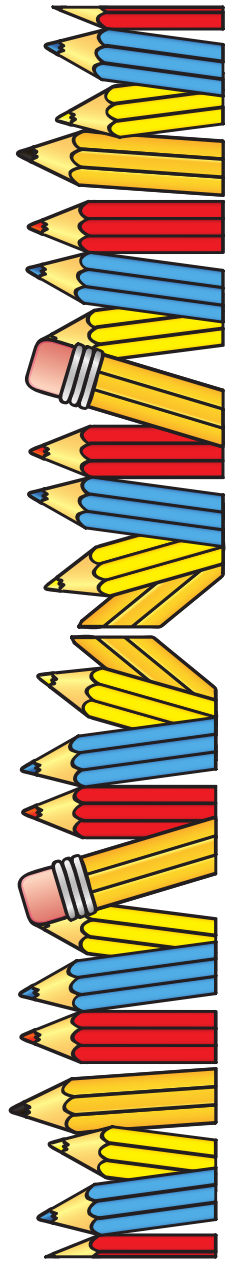
Dr.B.Thilaka, Professor has received Long Service Award for her 25 years of service at SVCE.

## FDP ATTENDED

Dr.B.Thilaka, Professor, attended 5-day FDP on “Recent Trends in Graph Theory”, organized by Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai, 8 – 12 May 2023.

## PAPER PUBLISHED

A paper titled “Machine Learning the Happiness of Human Beings”, by Dr.J.Vijayarangam, has got published in Journal of the Asiatic Society of Mumbai, vol. XCVI, no.14, 2023, 45-51.



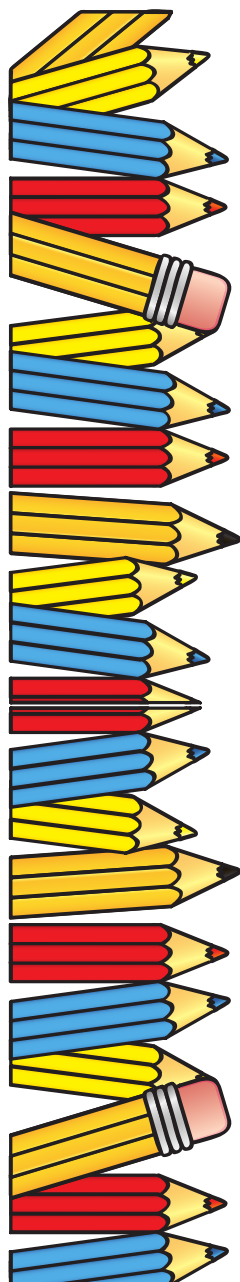




# Applied Mathematics

## BOOK CHAPTER PUBLISHED

Dr.B.Thilaka, B.Poorani and S.Udayabaskaran, published a book chapter titled Performance Analysis of an M/M/2 Queue with Partially Active Server Subject to Catastrophe in : Gunasekaran, A., Sharma, J.K., Kar, S. (eds) Applications of Operational Research in Business and Industries. Lecture Notes in Operations Research. Springer, Singapore. [https://doi.org/10.1007/978-981-19-8012-1\\_16](https://doi.org/10.1007/978-981-19-8012-1_16).



### Chapter 16 Performance Analysis of an M/M/2 Queue with Partially Active Server Subject to Catastrophe



B. Thilaka, B. Poorani, and S. Udayabaskaran

**Abstract** An M/M/2 queue with the server operating in three modes—maintenance mode, sleep mode (no server is available), and active mode (partially active state where only a single server is available and fully active state where both servers are available for service) subject to catastrophe is considered. Catastrophes occur in both the sleep and active mode. Customer impatience is allowed only when the server is in the sleep mode. The objective of the paper is to determine the performance measures of the system. The transient and steady-state probabilities of the system, the steady-state performance measures are derived.

**Keywords** Catastrophe · Sleep mode · Maintenance mode · Transient and steady-state probabilities

#### Introduction

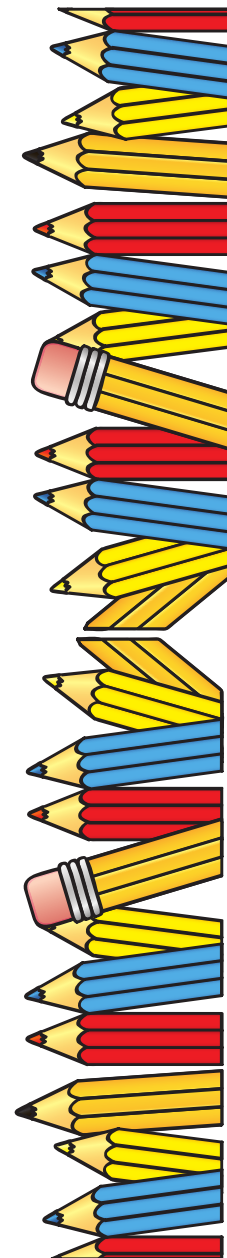
Multi-server queueing systems play a significant role in addressing various issues in production management, traffic control, computer and communication networks. In communication networks, multiple servers are used to reduce traffic congestion and improve server performance. Multi-server queueing models may deal with homogeneous servers as well as heterogeneous servers. A transient analysis of an M/M/2 queueing system was studied by Krishna Kumar and Madheswari [1], Krishna Kumar

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Department of Mathematics, KCG College of Technology, Chennai 600097, Tamil Nadu, India  
e-mail: poorani.b1980@gmail.com

S. Udayabaskaran  
Department of Mathematics, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science  
and Technology, Chennai 600062, Tamil Nadu, India

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A. Gunasekaran et al. (eds.), *Applications of Operational Research in Business  
and Industries*, Lecture Notes in Operations Research,  
[https://doi.org/10.1007/978-981-19-8012-1\\_16](https://doi.org/10.1007/978-981-19-8012-1_16)





# Applied Mathematics


## DRDO GRANT RECEIVED (1 ST INSTALLMENT)

Dr.R.Muthucumaraswamy, Principal Investigator and Dr.A.Subbu alias Suba, Co-Investigator, received an amount of Rs. 1,06,375/- towards the first Installment of Grant- In-Aid for DRDO sponsored Project entitled “Numerical Simulation of Heat and Mass Transfer on Nanofluid past a moving semi-infinite vertical plate with Hall currents and Chemical reaction of first order”.



Tel : 011-23902724  
Fax : 011-23902719

All correspondence should be addressed to Director



No.ERIP/ER/202209001/M/01/1813  
**Directorate of ER & IPR**  
Government of India, Ministry of Defence  
Defence Research & Development Orgn.(DRDO)  
DRDO HQrs Annexe,  
5<sup>th</sup> Floor Old LASTE C Building  
Metcalfe House, Delhi-110054

Dated : 15.05.23

The Principal  
Sri Venkateswara College of Engineering  
Pennalur, Sriperumbudur Taluk - 602117, Tamil Nadu

Sub : RELEASE OF 1st INSTALLMENT OF GRANTS-IN-AID FOR DRDO SPONSORED PROJECT ENTITLED “Numerical Simulation of heat and mass transfer on nanofluid past a moving semi-infinite vertical plate with hall currents and chemical reaction of first order”.

- Please refer our Sanction letter No ERIP/ER/202209001/M/01/1813 dated 28.11.2022.
- As per our record, an amount of Rs.106375/- (Rupees One Lakh Six Thousand Three Hundred Seventy Five only) has been transferred to your account through **NEFT** mode towards the payment of 1st installment of the Grants-In-Aid. An official receipt of the payment may please be sent immediately for our records and confirmation.  
**UTR No. :- SBIN223118346150 dated 28.04.23**

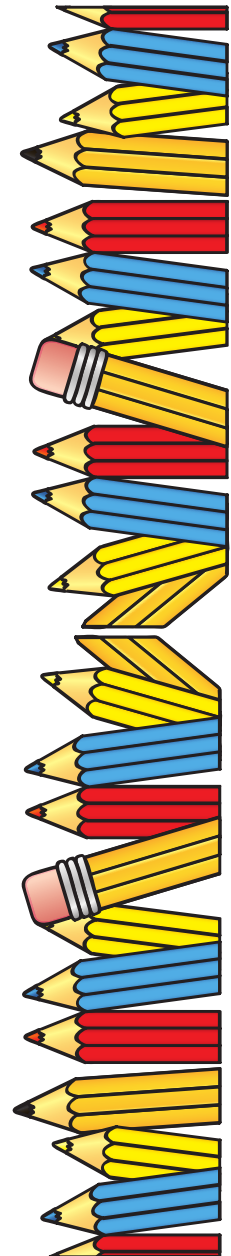
➔ **The Project duration for the subject project is – 28.04.23 to 27.04.26**  
Expenditure incurred before or after above duration will have to be borne by Grantee Institute

**Instructions for Strict compliance**

- The splitting-up of amount of Release should be shown in the relevant accounts in such a manner so that it should not exceed the Head-wise and Year-wise Sanctioned Cost of particular installment.
- The expenditure under any Head should not exceed from the Head-wise Grand Totals of Sanctioned Cost. Any over and above expenditure will not be borne by DRDO and has to be borne by the Grantee Institute.
- A separate Saving Bank should be maintained for the Interest earned on DRDO released funds. This must be included in the expenditure account & UC. The amount of interest portion may preferably be refunded either through :
  - issuance of eMRO in favour of PCDA, R AND D, NEW Delhi – UNITS
  - Or
  - Demand Draft in favour of CDA(R&D), New Delhi. (in case of technical error in EMRO)
- The release of further grant is subject to Refund of Interest Earned from previous release.

Appointment of staff shall be as per rules and regulations of the grantee institution and selection proceedings, joining report and qualification of selected candidates be sent to this office. Govt regulation be followed, as applicable.

Funds under Equipments head have been allocated and released for 1<sup>st</sup> year duration only. You are advised to procure all approved equipments in the 1<sup>st</sup> year duration.







## WORKSHOPS/FDPS/CONFERENCES PARTICIPATED

01

Dr.T.Senthilnathan, Assistant Professor Department of Applied Physics participated in the Webinar on Hydrogen fuel system conducted by Imperial Society of Innovative Engineers (ISIEINDIA) on 24-05-2023



02

Dr.T.Senthilnathan, Assistant Professor Department of Applied Physics participated in the Webinar on Technology Talks conducted by Indian Institution of Engineers (INDIA), Kalpakkam Chapter on 25-05-2023



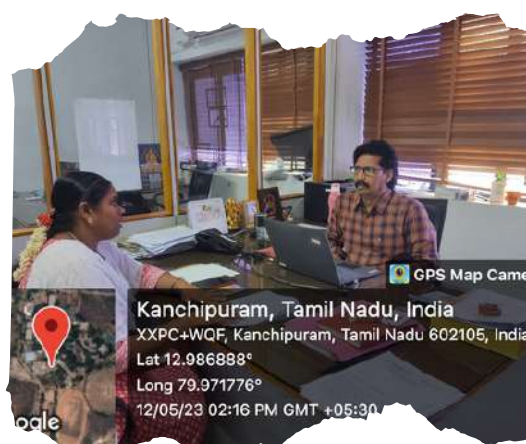


## Applied Physics

Ms. G.Bharathy, Assistant Professor, Department of Applied Physics presented paper entitled “Molecular Interaction and Biological Evaluations of Ethyl 4-hydroxy-3-methoxycinnamate” and was awarded Second Place in Faculty Research Day 2023 on 26 th May 2023.



Ms. G.Bharathy, Assistant Professor Department of Applied Physics Participated in “Audit training for IQAC coordinators for the IAAA on 10th May 2023” and carried out IAAA Audit in Academic, administrative and Finance section, SVCE.





## Humanities and Social Sciences

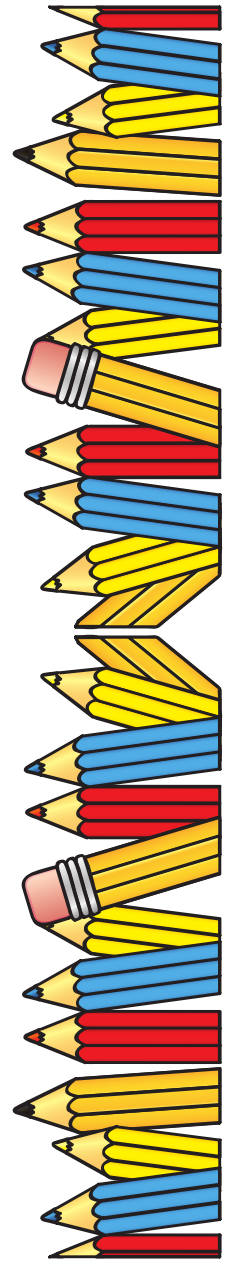
### WORKSHOPS/FDPS/CONFERENCES PARTICIPATED

**01**

Dr.Murugavel.T attended the Online international teachers' training program on "Mind- mapping for Educators" by Ms. Tuba Kizilkan on 29th April 2023 organized under the aegis of IMS Language and Literature Club, Noida, India in collaboration with Language and Literature Club.

**02**

Ms.Anichamalar and Mr.Shrihari.S attended an International Level Special Lecture on "The Corporate War on Science: From Tobacco to Silicon Valley by Noam Chomsky on 3rd May 2023 organized by the Department of English, St Berchmans College, Changanacherry.



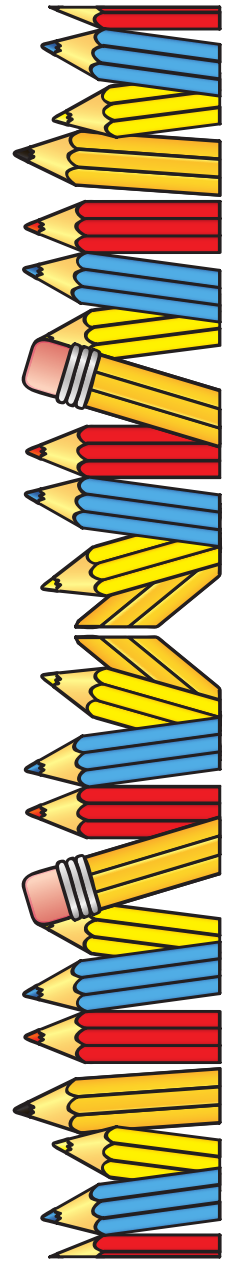
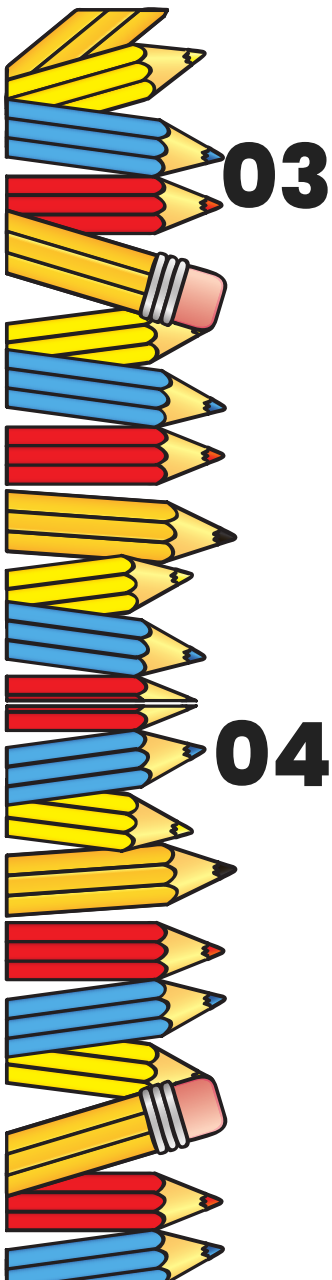


## Humanities and Social Sciences

### WORKSHOPS/FDPS/CONFERENCES PARTICIPATED

Dr.Iyuswariya Lakshmi. M.V., Dr.Bhargavi.S and Ms.Sandhiya Devi. G attended two FDPs and a Workshop. A Three-day Virtual FDP on “Recent Trends in Language and Literature” from May 3rd May 2023 till 5th May 2023 organized by PSG College of Arts and Science. An eight-day FDP on “Outcome Based Education “from 10th May 2023 till 17th May 2023. They attended a two-day Virtual Workshop on “Trending Teaching Techniques for Effective Learning” from 25th May 2023 till 26th May 2023 organized by Hi Tech Edu Tech Institute, Karnataka.

Dr.Iyuswariya Lakshmi and Dr.Bhargavi.S attended a seven-day virtual workshop on “Research Methods and Techniques” from 4th May 2023 till 10th May 2023 organized by Ramanand Arya DAV College, Mumbai.



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 & HEAD**  
**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**

**SRI VENKATESWARA COLLEGE OF ENGINEERING**  
**CHENNAI - BENGALURU HIGHWAYS**  
**SRIPERUMBUDUR (OFF CHENNAI) TK. - 602 117**  
**TAMIL NADU, INDIA**

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