FACULTY OF BASIC AND APPLIED SCIENCES NEWSLETTER

June 2021

By **Prof.Dr. V.Rajendran**

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(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

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FACULTY OF BASIC AND APPLIED SCIENCES NEWSLETTER -2021-2022

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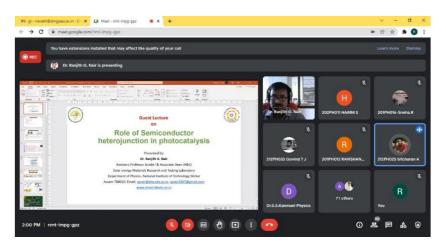
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DEPARTMENT OF PHYSICS

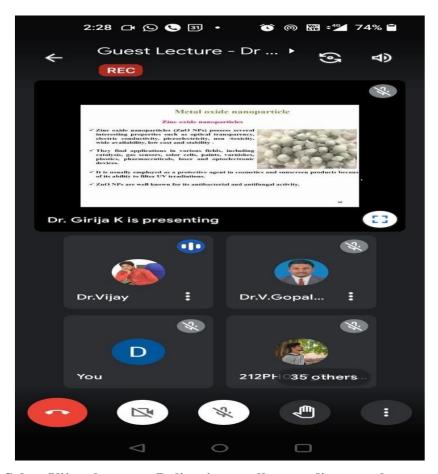
Guest Lectures

The Department of Physics along with Association of Physics "PANORAMA" has conducted a webinar on 30.11.2021 from 2.00 p.m. Dr. Ranjith G Nair, Assistant Professor Grade I, Department of Physics, National Institute of Technology Silchar, Assam- 788010, INDIA, delivered a lecture on the topic "Role of semiconductor heterojunction in solar photo catalysis" through google meet.



Dr. Ranjith G Nair Guest speaker was explaining about the plan of talk.

The Department of Physics along with Association of Physics "PANORAMA" has conducted a Guest lecture on **26.11.2021** from **2.00 p.m. Dr. Sekar Vijayakumar,** Post-Doctoral Research Scientist, Marine College, Shandong University, China, ddelivered a lecture on the topic "Green Nanobiotechnology and its Nanomedical Applications" through google meet. Students got knowledge on green synthesis of nanomaterials, its biotechnology involvement for medical applications



Chief Guest - Dr. Sekar Vijayakumar - Delivering a talk regarding metal nanoparticles through Google meet

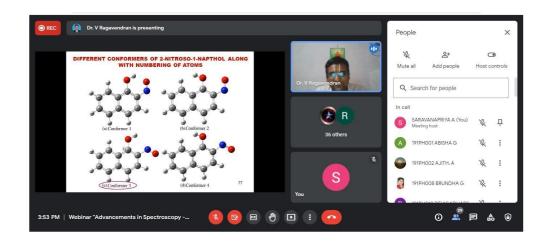
Panorama Association of Dr. N.G.P Arts and Science College, Coimbatore has planned to conduct online webinars to our physics department students. Dr. R. Suresh, Assistant Professor, Department of Physics, Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore acted as a resource person. Sir delivered a lecture on the topic entitled "Academic and Research opportunity in Physics for excellence" on 25.11.2021 at 03.00pm. Students and staff members of our Physics department were participated and interacted well in the session. Basics about the career opportunity after completion of B.Sc. and M. Sc. Physics were explained in a detailed way. Sir has explained about the various opportunity in industry as well as research. Sir has highlighted the higher studies and research opportunities in the field of physics. Students were highly motivated by the resource person to contribute to the society by their productive research works.

Department of Physics, Panorama Association of Dr. N.G.P Arts and Science College, Coimbatore has conduct online webinar and Dr. N. Rajamanickam, NIMS Researcher, Research center for magnetic and spintronics materials acted as a resource person. Guest delivered a lecture on the topic entitled "Nanotechnology in Everyday Life" on 02.06.2021 at 11.00 am. Student and staff members of our Physics department were participated and interacted well in the session. Nanotechnology and their importance in our practical day to day life were explained in a detailed way, with the working principle of the various laboratory instruments that are installed in their research institute. Students were highly motivated by the resource person to do their research in the field of nanotechnology.

Panorama Association of Dr. N.G.P Arts and Science College, Coimbatore has planned to conduct online webinars to our physics department students. Dr. V.Ragavendran, Assistant Professor, Department of Physics, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya University, Kanchipuram acted as a resource person. Sir delivered a lecture on the topic entitled "Advancements in Spectroscopy – A Boon to Modern Scientific World" on 26.11.2021 at 03.00pm. Students and staff members of our Physics department were participated and interacted well in the session. Basics about the spectroscopy and its applications were explained in a detailed way, about the working principle of various spectroscopy techniques and their applications in industry as well as research. Students were highly motivated by the resource person to contribute to the society by their productive research works.



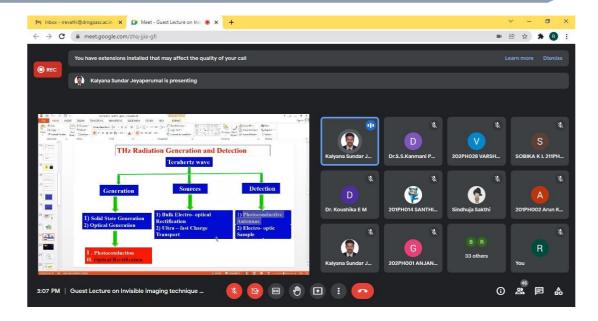
A Lecture on the topic entitled "Nanotechnology in Everyday Life"



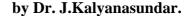
Advancements in Spectroscopy – A Boon to Modern Scientific World by Dr. V.Ragavendran

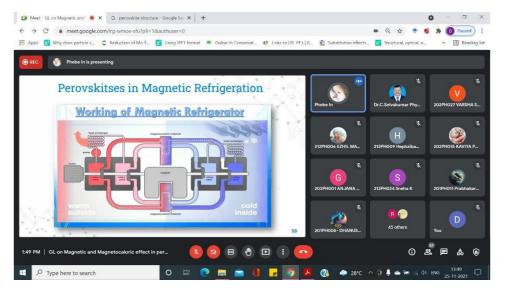
Panorama Association of Dr. N.G.P Arts and Science College, Coimbatore has planned to conduct online webinars to our department young minds due to pandemic situation.

Dr. J Kalyanasundar, Assistant Professor, Department of Physics, Periyar University acted as a resource person. Sir delivered a lecture on the topic entitled "Invisible imaging technique by tetra hertz ray" on 29.11.2021 at 3.00 pm.



A Lecture on "Invisible imaging technique by tetra hertz ray"





Dr. Phebe Kokila described about magnetic refrigeration

The Department of Physics along with Association of Physics "PANORAMA" has conducted a guest lecture on 25.11.2021. **Dr. Phebe Kokila, Research Scholar, SRM University, Chennai** delivered a webinar on the topic "MAGNETIC AND MAGNETOCALORIC EFFECT OF PEROVSKITE MATERIAL", in google meet. Students gained the knowledge about basics of magnetocaloric effect. They also gained knowledge about perovskite materials and the influence of perovskite structure on magnetocaloric property.

Workshop

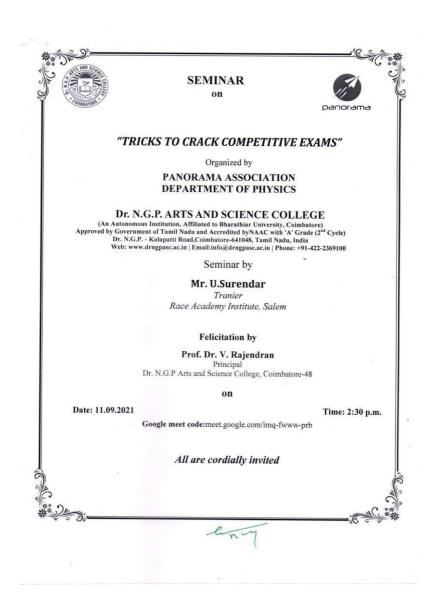


Dr. K. Saravana Kumar interaction with participants

The Department of Physics conducted a "e- Workshop on Phase Identification of Polycrystalline Materials using XRD data in Software's" on 25.09.2021 through google meet. The resource person was Dr. K. Saravana Kumar, Assistant Professor, Department of Physics, Sri S. Ramasamy Naidu Memorial College, Sattur, Tamilnadu – 626203. Various techniques were discussed by Dr. K. Saravana Kumar stepwise. Students were able to understand how to analyze various parameters using the graph.

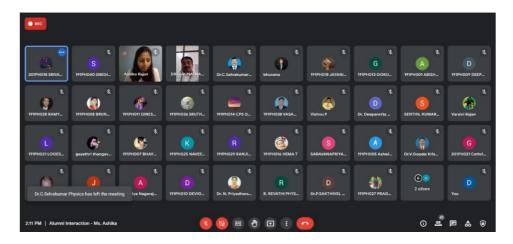
Seminar

The Department of Physics along with Association of Physics "PANORAMA" has conducted a seminar on 11.09.2021 at 2.30 pm. **Mr. U. Surendar, Trainer, Race Academy, Salem** delivered a webinar on the topic "**Tricks to crack Competitive exams**", via in Google meet. Students gained the knowledge about the various exams and simple method to undergo competitive exam. The seminar formed a good base for students to gain knowledge about facing the competitive exams.



Alumni Interaction

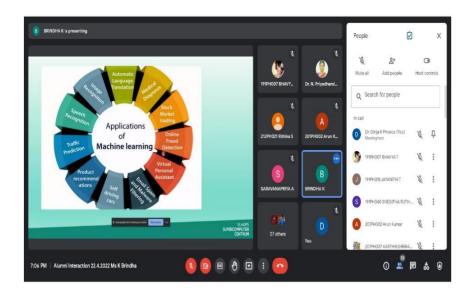
Sl.No	Date	Name	Title
1	13/09/2021	Ms. R. Ashika	Mind your Health
2	23/09/2021	Ms. K. Bhuvaneswari	Make time: How to Focus on what matters everyday
3	22/4/2022	Ms. K. Brindha	Machine Learning for Everyone
4	25/4/2022	Ms. P. Harshini	Difference between a Student and an Aspirant
5	12/6/2022	Alumni meet	2015 to 2018 UG and 2018 to 2019 PG Batch students



Alumni Ms. R. Ashika – Interaction with students through Google meet



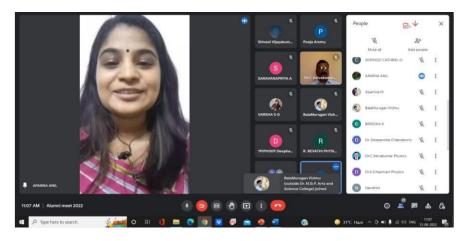
Alumni Mrs. K. Bhuvaneswari's presentation through Google meet



Alumni Ms. K. Brindha's presentation through Google meet



Alumni Ms. P. Harshini Presentation with students



Alumni Ms. Aparna K Anil sharing her memories during college days

Extension Activity

Nearly 38 students of III-year BSc Physics along with 2 faculty members of Physics department of Dr. N. G. P Arts and Science College had done an extension activity of spreading awareness on Environment Safety to the people of Chinna Thadagam village in Coimbatore district on 09.04.2022. The photograph shows our students with localites during the activity. They spread awareness about the basic environmental safety aspects with a notable hike in their scientific knowledge. They also spread information about the handling process of basic wastes.



Date: 09-04-2022 Place: Chinnathadagam

Name: Shree Lalith. G(191ph032), Activity: Awareness on Biodegradable and Nonbiodegradable waste



Date: 09.04.2022

Name: Group III B.Sc. Physics





Date: 09-04-2022 Place: Chinnathadagam
Name:Shree lalith.G(191ph032), Activity: Awareness on Biodegradable and Nonbiodegradable waste



Date: 09.04.2022 Name: Sowndharya.M (191PH034)

Place: Chinnathadagam Activity: Corona Awareness

Students spreading awareness on Environment Safety

Joint Outreach Programme on Remote Sensing & GIS Under Prakriti, ICFRE

The joint outreach Programme was held on May 6 & 7, 2022. Lecture sessions was held at Dr. N.G.P. Arts and Science College, Coimbatore on May 6th. Technical session and Lab visit at IFGTB, Coimbatore on May 7th. Post graduate students and research scholars were the participants. Participants also visited Gass Museum at IFGTB. The following were the resource persons and the title of their talk,

- "Importance of Environment Management"
 Dr. C. Kunhikannan, Director, Institute of Forest Genetics and Tree Breeding, Coimbatore.
- "Application of Remote Sensing & GIS in Natural Resource Management"
 Dr. A. Rajasekaran, Scientist F, Forest Ecology and Climate Change Division, Institute of Forest Genetics and Tree Breeding, Coimbatore
- "Nanoscience and Technology in Forestry Research"
 Dr. N. Senthil Kumar, Scientist F, Chemistry and Bioprospecting Division
 Institute of Forest Genetics and Tree Breeding, Coimbatore

Participants gained knowledge on why we must save our environment, basics of remote sensing, how GIS is used in natural resource management and what type of products are obtained from nature.



Dr. C. Kunhikannan, Director, IFGTB interacting with students



Students getting to know the basics of remote sensing and GIS in the presence of Dr. A. Rajasekaran

Panorama Association of Department of Physics Organized an Orientation Programme on Advanced Technologies and Troubleshooting for Smartphone Services on 28.12.2021.



Problem Solving in Physics

Problem-solving is an essential skill to success in a quantitative course in physics. It will enhance the ability to apply physical principles to specific situations and it is a very powerful form of knowledge. To encourage Grade XII students to face their board exams with confidence, a special class scheduled only on Sundays and was conducted through online mode from Dec-2021 to Mar-2022. More than 80 students from various schools were participated and benefitted out of this program.

Astronomy club events

World Space Week Celebration: 10.10.2021

World Space Week is an international celebration of science and technology, and their contribution to the betterment of human condition. In this regard, the Astronomy club of Dr. N.G.P Arts and Science College initiated to ignite the young minds to explore more about the Space and Astronomical events by conducting online events like Quiz, Essay writing and Drawing Competitions. Quiz Competition was open to all school students from Grades I to XII and was conducted in Tamil/English in online mode on 10th October 2021. Topics were related to Night Sky and India's Space Mission. All the three events were conducted on 10.10.2021. More than 100 Students actively participated and exhibited their latent talents.



World Space Week Celebration – Kids Drawing

Students Cocurricular and Extracurricular activities

Mr. A Lokeshwaran of II B.Sc. Physics has won first prize in drawing competition organized by NGP Fine Arts Association during NGP Fest 2022 on 28th April 2022. Miss. G. Cathrin of II B.Sc. Physics has won the Proficiency Prize during Achievers Day 2022 celebration on 11th May 2022.

Staff Achievement

Five faculty members of the Physics department got Seed money for a startup project.

Mrs. A.Saravanapriya, completed a Project entitled "Production of biogas from biodegradable waste" under TNSCST- Student Project Scheme – 2021-22.

Dr.K.Girija, won First Prize for Poster Presentation entitled "Thin films of β -Ga₂O₃ designed to sense ethanol at room temperature "at World Sensor Congress, Centre for materials for Electronics Technology (C-MET), Thrissur & Centre for Excellence in IoT Sensors on, 8-10 March, 2022

Dr. K. Girija got selected for INSA Visiting Scientist Programme 2022 for FY 2022-23.

Dr S S Kanmani received best work paper award during Research Day 2022.

Dr. S.S.Kanmani, delivered guest lecture entitled "Heterojunction Photocatalysts" on 26.06.2022 in the online FDP on the topic "Exploring the Fabrication Techniques, Characterization and Applications of Functional Materials" conducted by GCT, Coimbatore in association with Alagappa Chettiyar college of Engineering, Karaikudi during 13.06.2022 to 26.06.2022 through an online mode.

Dr. Deepannita Chakraborty received Dr NGPASC Achievers Day award for getting NPTEL elite + silver ranking.

Mrs. A.Saravanapriya, received Fellowship (TNSCST – SPS) Award from Dr. NGP ASC on 11-May-2022.

Our department-based Astronomy club is selected as Best club and received an award among Academic Clubs from Dr. NGP ASC on 11- May-2022.

MoU is signed on 27th October 2021, with New Technologies Mobile service and Training Institute.

Placement - Placed Students 2021-22

PG

Sl.No	Roll no	Name	Company name	No. of offers
1	202PH003	Balaswathi B.	Focus edumatics	1
2	202PH007	Dhivya S	Byjus	1
3	202PH021	Rinisa R	Accenture	1
4	202PH029	Viveka C	Focus edumatics	1

UG

Sl.No	Register Number	Name of the students	Name of the company	No. Of Offers
1	191PH004	Aravinth Kumar A S	Cognizant	1
2	191PH005	Ashwin K	Accenture	1
3	191PH010	Devigadharshini T	Focus Edumatics	1
4	191PH012	Gokul M	Focus Edumatics	1
5	191PH023	Mohavarshini R	Wafe Auxiliary Chemicals Pvt.Ltd	1
6	191PH028	Ramya R	Focus Edumatics	1
7	191PH029	Ranjitha G	Qbbs Company	1
8	191PH030	Rohit Stephen V	Byjus	1
			A.V.P Trust National Matric Hr. Sec School,	
9	191PH033	Siva Vaishnavi N	Tirupur	1
10	191PH034	Sowndharya M	Zolo Stays, Focus Edumatics	2

Publications

Title of the Paper	Name of the Authors	Name of the Journal	Year of Publications	ISSN Number
Polymorphism induced magnetic transitions in Ni(OH)2 nanostructures	V. Gopala Krishnan	Journal of Magnetism and Magnetic Materials	July-1	0304-8853
Molecular Insights on the Dihydrogen Bond Properties of Metal Borohydride Complexes upon Ammonization	A.Saravanapriya	ECS Journal of Solid- State Science and Technology	Sep-2021	2162-8769
Coherently designed sustainable SERS active substrate of Ag/TiO2 hybrid nanostructures for excellent ultrasensitive detection of chlorpyrifos pesticide on the surface of grapes and tomatoes	K. Girija	Journal of Food Composition and Analysis	Dec-21	0889-1575
Plant Mediated synthesis of ZnO and Mn doped ZnO Nanoparticles using Carica Papaya Leaf Extract for Antibacterial applications	N.Priyadharsini	Asian Journal of Applied Science and Technology	Dec -21	2456-883X
Performance of simple green synthesized Ag incorporated TiO2 nanoparticles based photoanodes by doctor-blade coating as working electrodes for dye sensitized solar cells	M.R. Venkatraman	Progress in Organic Coatings, Volume 164, March 2022, 106697	Dec-2021	0300-9440

Synthesis of Ag- incorporated TiO2 nanoparticles by simple green approach as working electrode for dye sensitized solar cells	M.R. Venkatraman	Mater Sci: Mater Electron	Dec-2021	0957-4522
Synthesis and characterization of nickel doped TiO2 nanoparticles by green method and its performance as dye sensitized solar cells photoanodes	M.R. Venkatraman	International Journal of Energy Research	January 2022	1099-114X

Books

Name of	Title of the book/chapters	Name of the	Year of	ISBN/ISSN
Publisher	published	Author	publication	number of the proceeding
				proceeding
Shanlax	Studies on Ag-Cu Bimetal			
Publications	nanoparticles using tulasi leaf	Mrs.R.Revathi	2021	9789391373108
1 doncations	extract			
	Heterojunction Perovskite			
Jenny Stanford	Oxide/ Halide Materials for	Dr.S.S. Kanmani	2022	9781003294054
Publishing	Photocatalytic Solar	Dr.S.S. Kammam	2022	7781003274034
	Hydrogen Production			

DEPARTMENT OF MEDICAL PHYSICS

TRAINING PROGRAM

- II MSc Medical Physics students underwent a one month summer training program at different radiotherapy centers in India.
- II MSc Medical Physics students underwent a one month field training program at Kovai Medical Centre and Hospital, Coimbatore.



HANDS ON TRAINING

 II MSc Medical Physics students had h ands on training on Radiotherapy equipment's (LINAC and Brachytherapy) and QA procedures in the Department of Radiation Oncology, KMCH, Coimbatore.

- Hands on training on X -ray, CT, MRI, Mammography, BMD and Ultrasound machines in the Department of Radiology, KMCH, Coimbatore.
- Hands on training on PET CT, SPECT, Iodine -131 Isolation ward, Hot lab and Radioactive waste disposal in the Department of Nuclear Medicine, KMCH, Coimbatore.

Department Specific Activities

The Roentgen Association of Department of Medical Physics organized:

- One Guest Lecture
- One Lecture Series
- Two Alumni Interaction Program
- Seven students completed NPTEL Online Courses.
- One Inter Departmental Competition

Internship

II MSc Medical Physics underwent a 1 year internship program at reputed cancer centers in India.

Guest Lectures

- Guest Lecture on "Principles of Radiation Detection" by Mr.G.Kesavan, Chief Medical Physicist & RSO, Vadamalaiyan Hospital, Madurai on 23 October 2021.
- Lecture Series on "Nuclear Medicine" by Mr. Radhakrishnan, Chief Technologist & RSO II, KMCH, Coimbatore on 11 -13 November, 2021.





Alumni Interaction Program

 Guest Lecture on "Medical Physics in Health Care" by Mr. P. Velliangiri, Senior Medical Physicist, Shiv Cancer Institute, Maharashtra on 23 October, 2021.



 Guest Lecture on "Role of Medical Physicist in Health Care" by Mr. Midhun Kumar M, Medical Physicist and Application Specialist, Scan -O-Plan systems, India on 25 April, 2022



Inter Departmental Competition

National Science Day Celebrations were celebrated by the students of Medical Physics on 28 February, 2022.

FACULTY CORNER

Staff Participation

- Mr. D. Sivakumar has participated in 9th International day of Medical Physics & 10th International Day of Radiology in MGMCRI & AMPI, TN & PY Chapter Conference, Pondicherry on 7 November, 2021.
- Mrs. K. Indhumathi has participated in "International Webinar on "Precision Medicine for Malignancy" in V.H.N. Senthikumara Nadar College, Virudhunagar on 22 September, 2021.
- Mrs. K. Indhumathi has participated in National Level Webinar on "Radiation Safety and Biological Effects of radiation" in SOIRT, Coimbatore on 28 August, 2021.
- Mrs. K. Indhumathi has participated in Digital Design and Pedagogy Skill Training in V.H.N. Senthikumara Nadar College, Virudhunagar on 12 & 13 August, 2021.
- Mrs. K. Indhumathi has participated in Online Short-Term Course on "Integration of ICT Tools in Teaching and Learning" in V.H.N. Senthikumara Nadar College, Virudhunagar on 26 to 30 July, 2021.

Awards and Recognitions

- Mr. D. Sivakumar, Assistant Professor & Head, Department of Medical Physics got Certificate of Appreciation by AMPI TN & PY Chapter on 7 November 2021.
- Mr. D. Sivakumar, Assistant Professor & Head, Department of Medical Physics acted as Guest Speaker in MGMCRI, Pondicherry on 9 November 2021.
- Mr. D. Sivakumar, Assistant Professor & Head, Department of Medical Physics received Best Mentor Award by Dr. NGP ASC on11 May 2022.
- Mrs. K. Indhumathi, Assistant Professor, Department of Medical Physics received Best Mentor Award by Dr. NGP ASC on 11 May 2022.

News letter 2021-2022

Yearly Issue (June 2021-April 2022)

Department of Chemistry

AVOGATRO ASSOCIATION

CHIEF EDITORS MESSAGE:

It gives me great happiness to present this issue of Avogadro Association's News letter. This issues gives a brief account on the important events held in the Chemistry department during the year 2021`-2022 and it encompasses various activities by students and faculty in academic, co-curricular, extra-curricular as well as research and developments.

I extend my deep appreciation to our resource person who taught and mentored students and has new plans for next year.

A lot of efforts have been made for making of this news letter. I thank all my faculty members and students for their kind support for making this in a pleasant manner.

I hope our department will do its best in future and that lead our department to a progressive path.

Best Wishes

1. Guest Lecture/Invited Lecture Organized

"Role of Fluorescence Probe in RT- PCR based disease diagnosis and the chemistry behind COVID -19 vaccines"

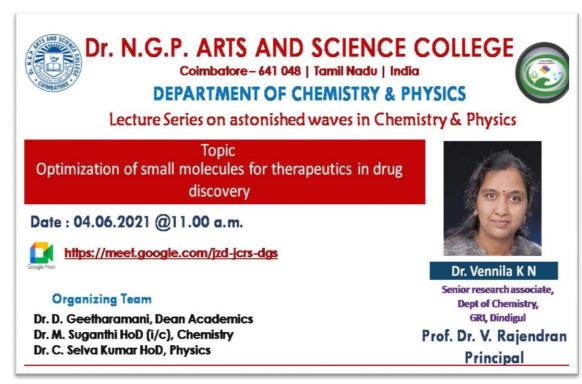
The Department of Chemistry along with "Avogatro Association" association, conducted a Lecture on 2.7.2021. Dr. Shubashini K. Sripathi Professor and Head, Department of Chemistry, Avinashilingam institute for Home Science & Higher Education for Women, Coimbatore delivered a Guest lecture on the topic "Role of Fluorescence Probe in RT- PCR based disease diagnosis and the chemistry behind COVID -19 vaccines" via in Google meet. Students gained the knowledge about the Fluorescence studies in the diagnosis of COVID-19 Vaccines.

> "Surface treatments and corrosion performance of metallic materials"

The Department of Chemistry along with "Avogatro Association" association has conducted a Lecture on 3.7.2021. Dr. S.Arthanari, Associate Researcher, Hefei Innovation Research Institute of Beihang University, China delivered a Guest lecture on the topic "Surface treatments and corrosion performance of metallic materials" via in Google meet. Students widen their knowledge about the Surface treatments and Corrosion studies in metallic materials. Students learned about how the metals are corroded and it was prevented. Guest explained the corrosion inhibitions in metal in a detailed manner. The lecture was very useful for the research.

➣ "Optimization of small molecules for therapeutics in Drug Discovery"

A Seminar entitled "Optimization of Small molecules for therapeutics in drug discovery" conducted on 4.7.2021 was organized by Chemistry & Physics to help students understand the importance of small molecules and therapeutics in drug delivery therefore M.Sc. and B.Sc. final year students got benefitted. **Dr.K. N.Vennila**, Senior Research Associate, Department of Chemistry, GRI, Gandhigram was the guest speaker. Around 200 students from both UG (B.Sc. Chemistry & Physics) and II M.Sc. Chemistry & Physics were participated in the Guest Lecture. She spoke on the significance of drug discovery by optimization of small molecules. She clearly enlightened about relation between small molecules and drug delivery. The session was informative and the lecture was effectively delivered.



Optimization of small molecules for therapeutics in Drug Discovery-Dr. Vennila K N

> "Quantum dots: Introduction to their Science and Applications"

The Department of Chemistry along with "Avogatro Association" association has conducted a Lecture on "Quantum dots: Introduction to their Science and Applications" on 5.7.2021 delivered by Dr. Parthiban Ramasamy, Senior Synthetic Materials Chemist, Nanoco Technologies Ltd, Manchester, UK. Around 150 students from both UG B.Sc. and II M.Sc. Chemistry were participated in the Guest Lecture. He spoke on the nuances and applications of Quantum dots. He was clearly mentioning about the Quantum dots in the field of Science. He defined how it was useful in the numerous biomedical applications such as drug delivery, live imaging, and medical diagnosis, in addition to other applications beyond medicine such as in solar cells. Students were able taste fruit the lecture with his lucid explanation.

➤ "Evolution of Corona Virus and Genomic Analysis of SARS-CoV-2"

The Department of Chemistry along with "Avogatro Association" association has conducted a Lecture on "Evolution of Corona Virus and Genomic Analysis of SARS-CoV-2" on 7.7.2021 delivered by Dr. Prasanth Manohar, Post Doctoral Scientist, and Zhejiang University

School of Medicine, China. Dr. Prasanth Manohar rendered about the complete evolution process of Corona virus and Genomic analysis of SARS-CoV-2. Totally 120 participants were participated in this lecture and felt it was beneficial. He explained how the virus variant is more changed in the environment, and how they acclimatized. The session threw light on predicaments of the virus and the ways to overcome it.

"Recent Advances in computational chemistry"

The Department of Chemistry along with "Avogatro Association" association has conducted a Lecture on "Recent Advances in computational chemistry" presented by Dr.S.Balachandar, Assistant professor of Chemistry, Vivekananda College of Arts and Science for Women, Tiruchengode on 18.8.2021. Dr.S.Balachandar addressed on the significance of computational chemistry in the current scenario. He disseminated the benefits of the drug discovery based on the modern techniques used in different softwares. Of late, Computational Chemistry is very useful in the field of medicinal chemistry and drug discovery process. He explained the molecular docking studies by using software and he intensively explained how the ligand binds with the proteins. Students gathered lots of information about the drug discovery and development process with the help computation chemistry. The session was informative and paved way to comprehend about Computation Chemistry.



Webinar on





Organized by

AVOGADRO ASSOCIATION DEPARTMENT OF CHEMISTRY

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(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

Approved by Government of Tamil Nadu & Accredited by NAAC with 'A' Grade (2nd Cycle)

Dr. N.G.P.-Kalapatti Road, Coimbatore-641 048, Tamil Nadu, India. Website: www.drngpasc.ac.in | Email: info@drngpasc.ac.in. | Phone: +91-422-2369100



Dr. S. Balachandar
Assistant Professor,
Department of Chemistry,
Vivekanandha College of Arts and Science for Women,
Tiruchengode

Felicitation by

Prof. Dr. V. Rajendran

Principal,
Dr N.G.P. Arts and Science College, Coimbatore-48

On

ate: 18.08.2021 Time: 10.30 AM

Google meet code: ovg-daos-mgz

All are cordially invite



> "Group theory"



Webinar on "Group Theory"



Organized by

AVOGADRO ASSOCIATION DEPARTMENT OF CHEMISTRY

Dr. N.G.P. ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

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Dr. S. Parvathy
Assistant Professor,
Department of Chemistry,
Government Arts College (Autonomous),
Salem-7
Felicitation by

Prof. Dr. V. Rajendran

Principal,
Dr N.G.P. Arts and Science College, Coimbatore-48

On

Date: 01.09.2021 Time: 10.30 AM

Google meet code: fbb-cdfc-zpi

All are cordially invite



A Seminar on "Group theory" was organized to help students understand the significance of matrices and character table to benefit M.Sc. and B.Sc. final year students. **Dr.S. Parvathy**, Assistant Professor, Department of Chemistry, Government Arts College, Salem-7 was the guest speaker. Around 120 students from both UG (B.Sc. Chemistry) and II M.Sc. Chemistry were participated in the Guest Lecture. **Dr. S. Parvathy** delivered on the importance of matrices and types in group theory. She highlighted about the relation between character table and multiplication table. The session was informative. Students were motivated keep an eye on the emerging research areas in the group theory. All the participants were comprehending construction of the matrices. Students were understood how to build the character table. Students were got ideas about group theory.

> "Discover your calling"

A Lecture on "Discover your calling" was organized to help students explore the significance of discovery of farm product. The students of M.Sc. and B.Sc. got benefitted out of the programme. Mr.G.N.Suthikshan, Quality Chemist, Vijay Dairy and farm products pvt ltd, Trichy acted as invited speaker on 8.10.2021. Totally 120 students from both UG B.Sc. Chemistry and II M.Sc. Chemistry were participated. Mr. G.N.Suthikshan rendered a lecture on the significance of Dairy and farm products. He was clearly discussing the usage of Dairy products in routine life. Students embraced the lecture with the insights like dairy and farm products. Students are motivated towards these areas and understood how to prepare the dairy products and checking the product quality. Students were got enough ideas about.

> "Future Batteries"

A Lecture on "Future Batteries" was organized to motive students to know more about the magnitude of Batteries and students from M.Sc. and B.Sc. final year students got benefitted out of this lecture . Dr.D.Lakshmi, CSIR Research Associate, Department of Chemistry, Bharathiar University, Coimbatore was the guest speaker. Around 120 students from both UG (B.Sc. Chemistry) and II M.Sc. Chemistry were participated. Dr. D.Lakshmi rendered a lecture on the significance of Batteries and its types. She lucidly mentioned about current usage of E-vehicles. Students were motivated to do research on the similar topics. They understood the topic and procured how to prepare the batteries for now and future.



Webinar on

"Future Batteries"





AVOGADRO ASSOCIATION DEPARTMENT OF CHEMISTRY

Dr. N.G.P. ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore) Approved by Government of Tamil Nadu & Accredited by NAAC with 'A' Grade (2nd Cycle)

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Dr. D. Lakshmi CSIR-Research Associate, Bharathiar University, Coimbatore

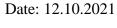
Felicitation by

Prof. Dr. V. Rajendran

Principal, Dr N.G.P. Arts and Science College, Coimbatore-48 On

Time: 10.30 AM Google meet code: ovg-daos-mgz

All are cordially invited





2. Staff Participation

- Dr.M.Suganthi attended One week (15.7.2021-21.7.2021) Online FDP on "Research methodology and Pedagogy for tertiary education" in Dr. N.G.P Arts and Science College, Coimbatore.
- Dr.R.Ravikumar attended One week (15.7.2021-21.7.2021) Online FDP on "Research methodology and Pedagogy for tertiary education" in Dr. N.G.P Arts and Science College, Coimbatore.
- Mr.M.Dinesh Kumar attended One week (15.7.2021-21.7.2021) Online FDP on "Research methodology and Pedagogy for tertiary education" in Dr. N.G.P Arts and Science College, Coimbatore.
- Mrs. P.Kavitha attended One week (15.7.2021-21.7.2021) Online FDP on "Research
 methodology and Pedagogy for tertiary education" in Dr. N.G.P Arts and Science
 College, Coimbatore.
- Dr.R.Rajkumar attended One week (15.7.2021-21.7.2021) Online FDP on "Research methodology and Pedagogy for tertiary education" in Dr. N.G.P Arts and Science College, Coimbatore.
- Dr.K.Sakthivel attended One week (15.7.2021-21.7.2021) Online FDP on "Research
 methodology and Pedagogy for tertiary education" in Dr. N.G.P Arts and Science
 College, Coimbatore.
- Dr.R.Menaka attended One week (15.7.2021-21.7.2021) Online FDP on "Research methodology and Pedagogy for tertiary education" in Dr. N.G.P Arts and Science College, Coimbatore.
- Dr.M.Myilsamy attended One week (15.7.2021-21.7.2021) Online FDP on "Research methodology and Pedagogy for tertiary education" in Dr. N.G.P Arts and Science College, Coimbatore.
- Dr.M.Suganthi attended,Online FDP on "Novel materials for Next Generations" in N.G.M College, Pollachi from 26.7.2021 to 30.7.2021.
- Mr.M.Dinesh Kumar attended Online FDP on "Novel materials for Next Generations" in N.G.M College, Pollachi from 26.7.2021 to 30.7.2021.

- Dr.R.Rajkumar attended Online FDP on "Novel materials for Next Generations" in N.G.M College, Pollachi from 26.7.2021 to 30.7.2021.
- Dr.P.Naveen attended Online FDP on "Novel materials for Next Generations" in N.G.M College, Pollachi from 26.7.2021 to 30.7.2021.
- Mr.M.Dineshkumar attended a DBT Sponsored FDP on "Stress management" in Nirmala College for Women from 14 & 15 July 2021.
- Dr.R.Rajkumar attended a DBT Sponsored FDP on "Stress management" in Nirmala College for Women from 14 & 15 July 2021.

3. Staff Publication

- ❖ Dr.M.Myilsamy published a research paper "Efficient photocatalytic degradation of 2,4-dinitrophenol over mesoporous Zr and Ce Co-doped TiO₂ under visible light" in Journal of Desalination and water , treatment ISSN: 1944-3994,Vol. 217 (2021) pp. 320-328
- ❖ Dr. R. Menaka published a research paper "Eco Friendly Chitosan Vanillin schiff base as anti Corrosive agent for mild steel in 1M HCl and as scale inhibitor for CaCO₃" in Journal of Adhesion Science and Technology ISSN: 0169-4243 , 12th April 2022

4. Student's participation

- ✓ S.Renupriya participated in the workshop on "Variants of PCR and its application" from 22.10.2021 to 24.10.2021 in Cytogene Research & Development, Lucknow.
- ✓ K.S.Anaswara participated in the workshop on "Variants of PCR and its application" from 22.10.2021 to 24.10.2021 in Cytogene Research & Development, Lucknow.
- ✓ C.Sowmica participated in the workshop on "Variants of PCR and its application" from 22.10.2021 to 24.10.2021 in Cytogene Research & Development, Lucknow.
- ✓ D.Poornesh participated in the workshop on "Advanced analytical techniques" on 18.10.2021 in Karunya Institute of Technology and Sciences, Coimbatore.
- ✓ R.Ajay participated in the workshop on "Advanced analytical techniques" on 18.10.2021 in Karunya Institute of Technology and Sciences, Coimbatore.

- ✓ R.Muralidharan participated in the workshop on "Advanced analytical techniques" on 18.10.2021 in Karunya Institute of Technology and Sciences, Coimbatore.
- ✓ B.Drishya participated in the workshop on "GC-MS Spectroscopy with working demo" in Avinasilingam Institute of Home Science and Higher Education for Women, Coimbatore on 25.9.2021.
- ✓ R.Manashvi participated in the workshop on "GC-MS Spectroscopy with working demo" in Avinasilingam Institute of Home Science and Higher Education for Women, Coimbatore on 25.9.2021.
- ✓ R.Divya participated in the workshop on "GC-MS Spectroscopy with working demo" in Avinasilingam Institute of Home Science and Higher Education for Women, Coimbatore on 25.9.2021.

DEPARTMENT OF MEDICAL MATHEMATICS

Webinar on Beauty of Complex Analysis



Dr.P. Duraisamy Assistant Professor in Mathematics Gobi Arts and Science College, Gobi

Dr.P. Duraisamy, Assistant Professor delivered a talk on "Beauty of Complex Analysis" through google meet on 01/11/2021. He talked about the number system, which consists of natural, whole, integers, rational, irrational, real numbers, and complex numbers. He told the History of Complex Numbers-extension of the concept of complex numbers is from that of real numbers, necessitated by the solution of an algebraic equation. Euler's equation, the polar form of a complex number, an example 3+i4 can be represented as (3,4).

Webinar on IoT and its Applications in Real World



Dr.P. Vijayakarthik
Professor and Head
Department of Information Science and Engineering
Sir M. Visveswaraya Institute of Technology, Bangalore

Dr.P. Vijayakarthik, Professor and Head delivered a talk on "**IoT and its Applications in Real World**" through google meet on 20/09/2021. The Guest covered important topics on IoT including

- What is IoT the 'Internet of Things and its uses?
- The use of IoT which can make a city 'smart'
- IoT applications in Smart Homes, Smart Cities, Self-driven Cars, IoT Retail Shops, Farming, Wearable, etc.
- Smart Grids and Industrial Internet.

The Guest speaker also gave details of Companies offering a job for IoT knowledge candidates and the Scope of IoT for Mathematics which was very useful to the students.

Webinar on Python Programming for Beginners



Dr. M. Vivek Prabhu
Professor in Mathematics
Kongunadu Arts and Science College, Coimbatore

Dr.M. Vivek Prabhu, Professor delivered a talk on "Python Programming for Beginners" through google meet on 27/10/2021. His lecture was about Python. He has clearly explained who invented Python and even its uses. He also came to know that Python also involves Mathematics in it, and he told that Python is a boon for Mathematics students as it is very comfortable for them to understand. He explained about different types of standard data that Python consists of and other Math module functions that are being used in Python to formulate a program. Finally, he encouraged us to practice Python Programming.

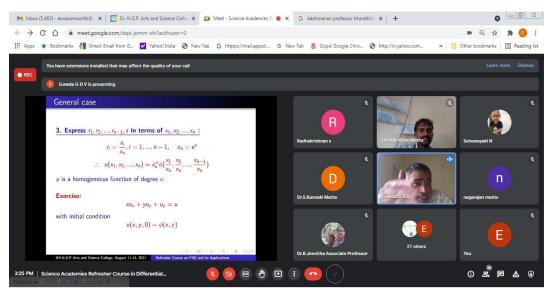
Workshop on Science Academies

Refresher Course on Differential Equations and its Applications



Prof. M. Lakshmanan
Professor of Eminence & DST-SERB Distinguished Fellow
Bharathidasan University, Tiruchirappalli

Prof. M. Lakshmanan, Professor of Eminence & DST-SERB Distinguished Fellow conducted a workshop about "Refresher Course in Differential Equations and its Applications" from 11/08/2021 to 26/08/2021. The Science Academics have been supporting two/three-day lecture workshops and fifteen days refresher courses on topics of current interest throughout the country. All the programs were conducted in association with Science and Technology. DST has undertaken a series of activities to mark 75 years of India's Independence.



Prof. G.D. Veerappa Gowda, FNA. Professor (Retd.), TIFR Centre for Applicable Mathematics, Bengaluru

Student Development Program on

An Innovation to Effective Thinking in Mathematics

A Student of **II M.Sc. Mathematics**, **R.C. Hemakumari** has addressed the topic "An innovation of effective thinking in Mathematics" and is a Student of **III B.Sc. Mathematics**, **G. Sangavi** addressed the topic "Hard work is key to success" on 30/11/2021. The SDP aims to provide opportunities for students to enrich their skills.



II M.Sc. Mathematics, R.C. Hemakumari



III B.Sc. Mathematics, G. Sangavi Alumni Interaction

The main objective of organizing this program is to provide motivation and encourage students. This program was organized to bridge the gap between our meritorious alumni and current students in the Department. **Ms. Ramya Mariya Vincent, Programmer, Cognizant Technology Solutions, Chennai** delivered pieces of information about **Opportunities and Challenges in Various Companies** on 25/04/2022. She has motivated the students to take up the correct careers with full seriousness and in the right spirit.





Students Achievements

S.No.	Achievements						
1	A. Kavi Arasan of II UG Mathematics has bagged All India rank 2 in the event of the National Creativity Aptitude Test hosted by the International forum for excellence in Higher Education on 26-Jan-22.						
2	S. Swetha of II UG Mathematics has bagged All India rank 19 in the event of the						
	National Creativity Aptitude Test hosted by the International forum for excellence in Higher Education on 26-Jan-22.						
3	P. Indhurekha of II UG Mathematics has bagged All India rank 14 in the event of National Creativity Aptitude Test hosted by the International forum for excellence in Higher Education on 26-Jan-22.						
4	S. Viviliya of II UG Mathematics has bagged All India rank 55 in the event of the						
	National Creativity Aptitude Test hosted by the International forum for excellence in Higher Education on 26-Jan-22.						
5	M. Ranjith of II UG Mathematics has bagged All India rank 20 in the event						
	of National Creativity Aptitude Test hosted by the International forum for						
	excellence in Higher Education on 26-Jan-22.						
6	K. Sowmiya of II UG Mathematics has bagged All India rank 16 in the event of						
	National Creativity Aptitude Test hosted by the International forum for excellence in						
	Higher Education on 26-Jan-22.						
7	K. Raghavendra Vignesh of II UG Mathematics has bagged All India rank 11 in the event of the National Creativity Aptitude Test hosted by the International forum for excellence in Higher Education on 26-Jan-22.						
8	S. Sree Sankari of II UG Mathematics has bagged All India rank 10 in the event						
	of the National Creativity Aptitude Test hosted by the International forum for						
	excellence in Higher Education on 26-Jan-22.						
9	K. Keerthana of II UG Mathematics has bagged All India rank 7 in the event						
	of National Creativity Aptitude Test hosted by the International forum for						
	excellence in Higher Education on 26-Jan-22.						
10	G. Jency of II UG Mathematics has bagged All India rank 13 in the event of National Creativity Aptitude Test hosted by the International forum for excellence in Higher Education on 26-Jan-22.						
11	M. Indhumathi of II UG Mathematics has bagged All India rank 8 in the event of the National Creativity Aptitude Test hosted by the International forum for excellence in Higher Education on 26-Jan-22.						

Placement

29 students from final year were placed in various reputed companies like **Deloitte**, **Zolostays**, **Nielsen IQ**, **IBM**, **Wipro**, **Infosys**, **Fincorp Insurance**, **ICICI Bank**, **Focus**, **Accenture**, **CTS** etc.,

Staff Presentation in Conference / Seminar

Our Department Staff members have participated in 76 activities like as Workshop/FDP/Training Programme which was conducted by various Colleges and Universities.

S.No	Presentation			
1	Dr.P. Umamaheswari have presented a paper on "Existence of solution of			
	stochastic fractional differential equations with Levy noise" in International			
	Virtual Conference on Emerging Trends in Applications of Mathematics during,			
	16/09/2021 – 17/09/2021 at KG College of Arts and Science , Coimbatore.			
2	Dr.V. Divya have presented a paper on "Natural convection in a Nanofluid filled			
	square cavity with the presence of partially active heaters and coolers" in			
	International Virtual Conference on Emerging Trends in Applications of			
	Mathematics, during 16/09/2021 - 17/09/2021 at KG College of Arts and			
	Science, Coimbatore.			
3	Dr.P. Umadevi have presented a paper on "MHD Natural Convective flow			
	Analysis in Inclined Square Domain Suspected with Ag Water Nanofluid and			
	Heat Generating Body" in National Conference on New Trends in Applied			
	Mathematics, during 11.10.2021-12.10.2021 at UIET, Chhatrapati Shahu Ji			
	Maharaj University, Kanpur.			
4	Dr.P. Umadevi have presented a paper on "Magneto Convection in Inclined			
	Domain Utilizing Ferro Fluid with Heat generating Obstacle" in National			
	Conference on Numerical Analysis and Applications, during 6.1.2022-7.1.2022			
	at NIT, Pondicherry.			

Staff Publication

S.No.	Publications					
1	Mrs. Bharathi Anbarasan published paper entitled "Zero Trust Security – A					
	Trust worthy Security model", ICDISCT - 2022 Conference on Digital					
	Information Security and Computing Technologies April 2022.					

2	Dr.S. Eswaramoorthi published paper entitled "Impact of stratifications and						
	chemical reaction on convection of a non- Newtonian fluid in a Riga plate						
	with thermal radiation and Cattaneo-Christov flux", Journal of The						
	Analysis and Calorimetry, 1588-2926 2021/7/10 [SCIE].						
3	Dr.S. Eswaramoorthi published paper entitled "Thermally radiative flow of a						
	viscoelastic nanofluid with Newtonian heating", International Journal of						
	Nanotechnology , 1741-8151 18, 5. [SCIE].						
4	Dr.S. Eswaramoorthi published paper entitled "Entropy and Heat Transfer						
	Analysis for MHD Flow of-Water-Based Nanofluid on a Heated 3D Plate with						
	Nonlinear Radiation", Journal on Mathematical problems in Engineering,						
	February 2022.						
5	Dr.M. Sangeetha published paper entitled "Comparitive Study of Russel's						
	Approximation method and Heuristic Method", International Journal of						
	Creative Research Thoughts (IJCRT), Vol 9, 699-705.						
6	Mrs. Bharathi Anbarasan published paper entitled "Construction of app using						
	augmented reality and virtual reality - blue print", Turkish Journal of Computer						
	and Mathematics Education, The Patent Office Journal No. 50/2021, Page No						
	59938.						

Staff Project Awards

Name of the Staff	Title of Project	Date & Amount	
Dr. Eswaramoorthi Convective Flow of a nanoflu		05/10/2021	
	over a porous starching surface	Rs.5000	
Dr.M. Sangeetha	Wastage water to development	05/10/2021	
	an improvement to agricultural	Rs.5000	
	planting structure		

Extension Activities

PANCHAYAT UNION PRIMARY SCHOOL (PUPS) PERIYATHADAGAM

Mrs. o. maanfi Read Mistress

பாராட்டுச் சான்றிதழ்

09.04.2022 பெரியதடாகம்

பெரியதுடாகம் பள்ளி புற நிலைச் செயல்பாடு 69.64.2622

டாக்டர் என்.ஜி.பி. கலை மற்றும் அறிவியல் கல்லூரி கணிதவியல் மற்றும் கணித பயன்பாட்டுவியல் துறையின் சார்பாக, கோயம்புத்தூர் மாவட்டம் பெரியதடாகம் அரசு ஊராட்சி ஒன்றிய துவக்கப் பள்ளியில் 09.04.2022 அன்று புற நிலைச் செயல்பாடு கணித வினாடி வினா மற்றும் புதிர்கள், தீதிநெறி கதைகள் பயிற்சி மேற்கொள்ளப் பட்டது. குழந்தைகளுக்கு பசிக்கள் வழங்கி ஊக்கப்படுத்தினர். கணிதவியல் மற்றும் கணித பயன்பாட்டுவியல் துறை மாணவர்கள் 53 பேர் பங்கு பெற்றதைச் சிறப்பித்து. அவர்களின் பணி மேற்றில் சிறப்பித்து. அவர்களின் பணி மேறும் சிறப்படையுமாறு பாராட்டிச் சான்றனிக்கிறேன்.

HEAD WISTRESS P.U.P. School Periyathadagam CBE - 641 108

Translation

The Students of the Department of Mathematics, Dr. N.G.P. Arts and Science College visited the Periyathadagam village Panchayat Union Primary School on 09.04.2022 and oriented the Children on the title "Math Quiz & Puzzles, Moral Stories". They encouraged the children by distributing prizes. The 53 Students were involved in the activity very enthusiastically and delivered some beneficial knowledge to our Children. On behalf of the Children, I highly commend the volunteerism of the Students from the Department of Mathematics.

HEAD MISTRESS
P.U.P. Schleedure
Periyathadagam
CBE - 641 108









 $\hbox{``Conservation of water and plastic bag usage'' was held on $09/04/2022$ in Panchayat Union Elementary School, Chinna Thadagam, Coimbatore}\\$



"Cleanliness, Hygiene and Sanitation, Conservation of Water, Plastic Bag Usage and Mobile Banking Applications" was held on 09/04/2022 in Thadagam.

DEPARTMENT OF CATERING SCIENCE AND HOTEL MANAGEMENT

SPORTS ACHIEVEMENTS

S.No	Name of the Student	Class	Details	Event	Venue	Date	Result
1	V.V.Pranav	I B.Sc. CS & HM	Bharathiar University Inter- collegiate Zone A Tournament	Volleyball Men	Dr.NGP Arts and Science College, Coimbatore	3 rd Dec 2021 To 5 th Dec 2021	First Place
2	V.V.Pranav	I B.Sc. CS & HM	Bharathiar University Intercollegiate Inter Zone Tournament	Volleyball Men	Sree Saraswathi Thyagaraja College, Pollachi	9 th Dec 2021 & 10 th Dec 2021	Second Place

OTHER STUDENT ACHIEVEMENTS

S.No.	Name of the Student	Class	Details	Event	Organiser	Date	Result
1	Amrith Dekseth	I B.Sc. CS & HM	Inter Department Meet "Techkriti' 22"	Logo Design	Dept. of Information Technology, Dr.N.G.P. Arts and Science College.	12 th Apr 2021	Second Place
2	Shobika.S Guhan.B Dekseth Kavidharsan	I B.Sc. CS & HM	Interdepartmental Technical Symposium "ICON SOFT 2022"	Ad zap	Dept. of Computer Science, Dr.N.G.P. Arts and Science College.	20 th Apr 2021	Third Place
3	Guhan.B	I B.Sc. CS & HM	NGP Fest 2022	Vegetable and Fruit Carving	Fine Arts Association, Dr.N.G.P. Arts and Science College.	28 th Apr 2021	Third Place

STUDENT PARTICIPATION

The following students for a National Seminar on "HVAC System in Hospitality Industry" at Hindusthan College of Arts and Science on 25th March 2022.

•	Amrith. S	-	I B.Sc. CS & HM
•	Dikseth. S	-	I B.Sc. CS & HM
•	Gowsik Priyan. K	_	I B.Sc. CS & HM
•	Guhan. B	-	I B.Sc. CS & HM
•	Kavidharshan. C	-	I B.Sc. CS & HM
•	Kaviyarasu. A	-	I B.Sc. CS & HM
•	Maruthupandian. L	-	I B.Sc. CS & HM
•	Matheshwaran. G	-	I B.Sc. CS & HM
•	Premkumar. R	P#	I B.Sc. CS & HM
•	Shobika. S	-	I B.Sc. CS & HM
•	Sriakilandeeswari. S	S -	I B.Sc. CS & HM
•	Sudhiksha. R	-	I B.Sc. CS & HM
•	Swastik. R	P u	I B.Sc. CS & HM
•	Vignesh. A	-	I B.Sc. CS & HM

DEPARTMENT ACTIVITIES

"World Tourism Day Celebrations"





The Department of Catering Science and Hotel Management organized various Competitions (Poster presentation, PowerPoint Presentation) for our college students on 27.09.2021 on behalf of the "World Tourism Day Celebrations". This event was organized to bring awareness among the students about the availability of the tourist spots and products which are available in our country, which are not seen by many of them. This also enables the students to have an intention of visiting those spots where

it improves the development of tourism. The students from different departments actively participated in this event, presenting their posters about tourism.

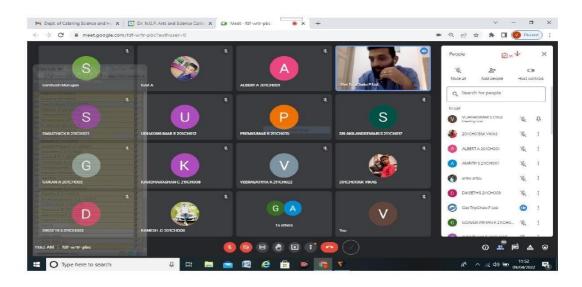




The Department of Catering Science and Hotel Management organized a food stall by our students at our college premises on 25.03.2022. The food items were prepared and it was sold in a stall in the college campus. This enables the students to learn about the different aspects like food preparation techniques, food costing, marketing and selling the products, which influences the students to become entrepreneurs in the future. As Entrepreneurship has more scope in the hospitality industry, this event motivates the students to become entrepreneurs in the future. This also helps our students in rapport building among the other department faculties and students, which is a very important key factor in entrepreneurship.

Webinar on "Entrepreneurship in Travel Industry"





The Department of Catering Science and Hotel Management organized a Webinar entitled "Entrepreneurship in Travel Industry" on 9.04.2022 by Mr. Vishnu Omana kuttan, Founder, Get Tripchalo (P) Ltd, Cochin International Airport, Cochin, Kerala. The hotel industry and the travel industry are directly related to each other. Without one, another one cannot exist or grow in a particular area. There is a lot of scope in the travel industry nowadays as an entrepreneur, and this program influenced many students for taking up a career in the travel industry, and also to be an entrepreneur in this industry.

Workshop on "Flower Arrangement"



The Department of Catering Science and Hotel Management organized a Workshop entitled "Flower Arrangement" on 20.05.2022 for the I year students of the department. As hotel industry is a fascinating industry where it has an aesthetic ambience with high decor, which is achieved by the housekeeping department of the hotel. Flower arrangement is a very important extra skill that is very much necessary, for a housekeeper to have a position in the department. This also helps the students to be creative in the work and also to decor of the hotel. The students were keen in learning the different styles of flower arrangement and about the different types of flowers with the help of this event.

Smart hoteliers are using this for revenue optimization!

1. To Improve Guest Experience.

- Smart hotel rooms
- IoT
- Bid data
- Mobile check-in service
- Contactless payments
- Translation devices
- Increased internet bandwidth
- Cyber security
- Robots
- Air filter systems

2. To Increase Operational Efficiency and Revenue.

- Artificial intelligence
- Face recognition technology
- Occupancy-based sensors
- Energy saving appliances
- Cloud Hotel PMS
- Mobile Hotel PMS
- Integrated Technology Solutions
- Revenue management system

3. To Foster Hotel Marketing.

- Text-message marketing
- Booking on mobile devices
- Voice search
- 360 Degree Videos
- Meta search Bookings
- Chat bots

GUHAN.B I B.Sc. CS & HM

DEPARTMENT OF COSTUME DESIGN AND FASHION

Lecture "Trend Forecasting"



Ms.Shimona Stalin, Celebrity Fashion Stylist and Costume Designer

Ms.Shimona Stalin, Celebrity Fashion Stylist and Costume Designer delivered a lecture on the topic "Trend Forecasting" via in google meet on 29/10/2021. She brought up ideas with new fashion trends and style that helps us to enhance our innovation in fashion. She also enlighten the researching and formulating predictions on consumers future buying habits. Fashion forecasting is a global career that focuses on upcoming trends. A fashion forecaster predicts the colors, fabrics, textures, materials, prints, graphics, beauty/grooming, accessories, footwear, street style, and other styles that will be presented on the runway and in the stores for the upcoming seasons.

Lecture on "Eco-dyeing using Natural dyes"



Dr. K. H. PRABHU delivered a lecture on the topic "Eco-dyeing using Natural dyes"

Dr. K. H. PRABHU delivered a lecture on the topic "Eco-dyeing using Natural dyes" on 10.4.2022. He explained about Eco Printing (also called Leaf Printing and Eco Dyeing) is a form of natural dyeing where the colors or natural dyes from plant materials are transferred to another object such as paper or fabric via steaming or boiling. It is mostly non-substantive and must be applied on textiles by the help of mordants. Ancient humans used root, wood, bark, grass, berries, leaves, nuts, seeds, flowers as natural dye.

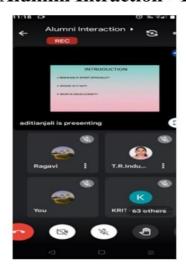
Workshop



Mrs. Ashwathi Ashokan Soft Skill Trainer

Mrs. Ashwathi Ashokan Soft Skill Trainer conducted a workshop about "Critical Thinking and Skill Enhancement "on 04.05.2022. Critical thinking is the intellectually disciplined process of actively and skillfully conceptualizing, applying, analyzing, synthesizing, and or evaluating information gathered from, or generated by, observation, experience, reflection, reasoning, or communication, as a guide to belief and action. In its exemplary form, it is based on universal intellectual values that transcend subject matter divisions, clarity accuracy, precision, consistency, relevance, sound evidence, good reasons, depth, breadth, and fairness.

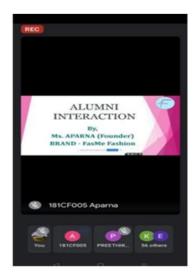
Alumini Intraction - 1



Ms. Anjali Venkatesh (Alumini:2017-2020Batch).

Ms. Anjali Venkatesh (Alumini:2017-2020Batch). Fashion Designer delivered a webinar on the topic "Boutique Management and Startups". Via Google meet 10.12.2021. She own a small designing called Needle Craft, located at palladam. It is completely customised designing business specifically for girl kids and women. Even salwars, gowns, frocks, maxis, pattu pavadais, lehengas. Boutique management is the course that tackles the fundamentals of Fashion Designing and managing a small-scale business establishment. Students are put through a course syllabus comprised of studies in fabrics, ornamentation and garment construction along with the implementation of design and marketing their brands.

Alumini Intraction - 2



Ms.Aparna (Alumini: 2017-2020 Batch). delivered a webinar on the topic "BRAND- FASME FASHION".

Ms.Aparna (**Alumini: 2017-2020 Batch**). Fashion Designer delivered a webinar on the topic "**BRAND- FASME FASHION**". Via Google meet 15.12.2021. She customized and quality clothing for the customers. The fashion industry is marked by rapid change, and overshadowed by crises and in solvencies. Students gained more knowledge how to start a boutique on their own and to become an entrepreneur.

Intra Department competition

Department of Costume Design and Fashion has conducted the Intra Department competition. Events conducted face painting, poster painting, connection and mehandi on 17.12.2021. Students have performed well in all the competitions. Students are motivated to participate in competition to show their talents.







CDF Students are participating in competitions

Science day

SUVAE Association and Department of Costume Design and Fashion has conducted National Science Day celebration for school students. The events held on Poster presentation on the topic of Conserve wildlife, Viruses on Earth and Sustainable living. Science day promotes science and technology and its feasibility in every day life. It also encourages scientists, writers and students and other who are involved in the promotions of science and technology.





School students participated in poster presentation competition held on

Inter Department competition

Department of Costume Design and Fashion conducted Inter Department competition. The events held are Inauguration, NGP's got talent, Fiddle your mind (Doodle Art), Design your Accessories, Papier adorn (Paper Draping), Ramp and Validation on 17.3.2021.Many students participated in the inter department competition from other departments and won many prizes.





Doodle art





Accessory Making





Papier adorn

Students from other department participated in various competition

S.No	COMPETITION NAME	STUDENTNAME	DEPARMENT	SECURED
	NGP'S Got Talent	DHARMARAJ.G	CSCS	Ist Prize
		SHRINITHI	B.Sc. MICROBIOLOGY	IInd Prize
1.	NGP'S Got Talent :Mehendi -	SNEHA	B.COMBA	Ist Prize
	Consolation	SARANYA	B.Sc. MICROBIOLOGY	IInd Prize
		NITHYA.S	B.Sc.CT	Ist Prize
2.	Doodle Art	HARIPRIYA.S	B.COM PA	IInd Prize
		VENKATESWARAN.R	B.COM P.A (A)	IIIrd Prize
	Accessory Designing	ANANTHI.N	B.comBI	Ist Prize
3.		ANANTHI.I	B.SC FOOD & NUTRITION	IInd Prize
	Draping	POOJA.T.M, & SRIMATHI.S	B.SCCT	Ist Prize
4.		JYOTHI KRISHNA. & V,KEERTHANA PARTHA SARATHY	віотесн	IInd Prize
		SHARMILA.A, & KEZIARITHI.M	B.COMBI	IIIrd Prize
5.	Ramp	SAMYUKTHA	B.SCMATHS	Ist Prize
		MERINISHA	B.SC FOOD & NUTRITION	IInd Prize

WINNERS NAME LIST- INTER-DEPARTMENT COMPETITION HELD ON 17.03.2021

Womens day









Zumba Dance conducted for all female staffs on 08.03.2022

Mrs. Shabhna, Zumba instructor delivered a zumba dance on the topic of "Zumba-fitness" on 08.03.2022. Zumba is a workout featuring movements inspired by various styles of Latin American dance, performed to music. The exposure to a social and fun environment, an accountability factor, effectively designed workout that you can follow. Zumba is a fitness program that involves cardio and Latin-inspired dance. Zumba Fitness is an exhilarating, effective, easy to follow, Latin-inspired, calorie burning, dance fitness exercise that's moving millions of people towards physical and mental health.

Field trip









Field Trip is taken to Prozon Mall on22.03.2022

The Department of Costume Design & Fashion organized Field Trip to Prozone Mall on 22.03.2022. Students observed the stores and they got ideas in retailing and merchandising. Retailing involves the selling of individual units or small lots to large numbers of customers by a business set up for that specific purpose. Merchandising is the presentation and promotion of goods that are available for purchase for both wholesale and retail sales. This includes marketing strategies, display design, and competitive pricing, including discounting.

Extension Activity



Place: Nellithurai Date: 07.05.2022

Group: III B.Sc. CDF Students

Activity: Awareness program to wear mask.



Place: Nellithurai Date: 07.05.2022

Student Name: Vedhavarshini, III B.Sc. CDF Students

Activity: Awareness program to wear mask.



Place: Nellithurai Date: 07.05.2022

Group: Mehavarshini team, III B.Sc. CDF Students Activity: Awareness program to wear mask.

Students distributing pamphlet for the awareness to spread to wear mask



Pamphlet designed by III B.Sc. CDF Students

The Department of Costume Design & Fashion organized Extension Activity to Nellithurai on 07.05.2022. Students educated people to wear mask and they explained the importance of wearing mask in this pandemic situation. Masks are a key measure to reduce transmission and save lives. They reduce viral transmission and prevent pre symptomatic spread, preventing others from getting sick people should wear mask.