



**Bhavan's Vivekananda College Of Science, Humanities And Commerce,
Sainikpuri, Secunderabad.**

Autonomous College

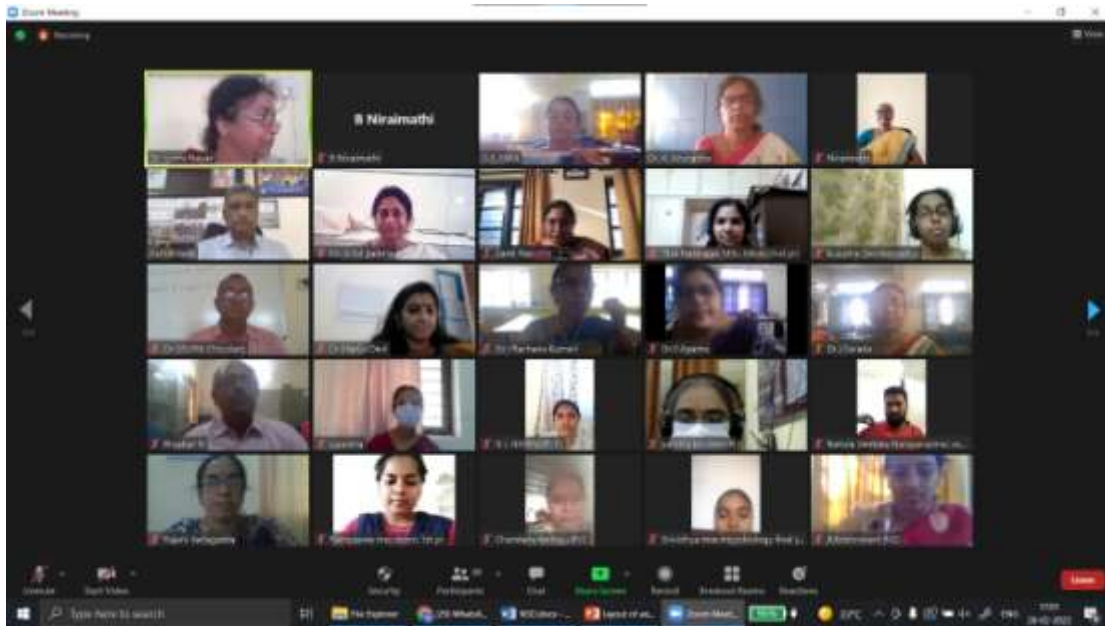
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NATIONAL SCIENCE DAY CELEBRATIONS

2021-22

The Departments of Life Sciences organized National Science Day celebrations on 28th February 2022, with an overwhelming participation of student participants. The theme was 'Integrated Approach in Science and Technology for a Sustainable Future'. The chief guest for the session was Dr.P.D.Babu, Centre Director, UGC-DAE Consortium for Scientific Research, BARC, Mumbai. He gave an insight on the new technologies in Science. The technical sessions were given by Ms.Farida Tampal,State Director,WWF-India,Dr. S. Venkata Mohan,Senior Principal Scientist ,CSIR-IICT and Prof. M.V. Ramana Murthy , Former Professor in Mathematics and Computer Science ,OU,Professor and HEAD, M&H ,MGIT,Hyderabad.e-poster presentation was widely participated by the students . Dr.K. Madhuri ,Asst.Professor , Department of Biotechnology, MGU, Nalgonda and Dr.D.Hemalatha,MCA, M.Phil, PGDELT, M.Tech, Ph.D. ,Asst.Professor and Former HOD, Dept.of Computer Science ,University College of Women,Koti were the judges for the e-poster presentation The National Science Day 2022 celebrations was an enriching and successful event.







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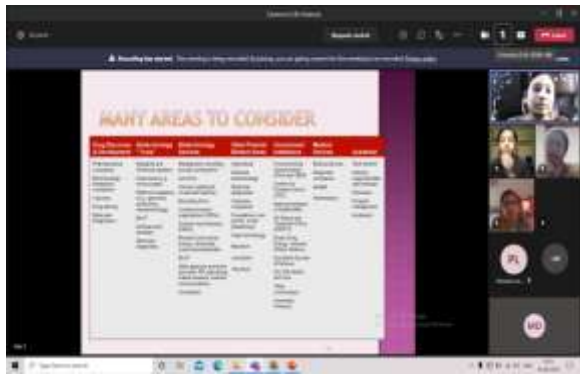
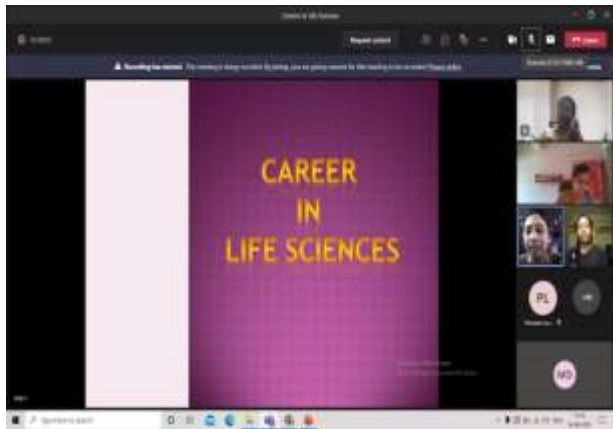
Departments of Life Sciences organized a webinar “Careers in Life Sciences” on 14th August 2021 (10.00am-2.00pm) on Microsoft teams platform.The webinar included talks by eminent scientist Prof.Dr.K.Thangaraj and Dr. Anil Kumar Pasupulati on various career options with life sciences.The webinar was followed by interaction with our esteemed Alumni.

The Alumni shared their experiences pertaining to individual pursuit for advancing in career.

Our esteemed alumni who were part of the program:

- Dr.Sumathi Natrajan, Lecturer in Microbiology, Telangana Social Welfare Residential Degree college for Women, Hyderabad.
- L.Vignesh, PhD in Microbiology, University of Hyderabad.
- Dr.T Nanditha, Project Scientist in CCMB, Hyderabad.

Around 120 students from various inter colleges and schools participated in the webinar. It was a productive session, as it could inspire many of the students to plan and discover new avenues in the field of life sciences.





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REPORT ON 5 Day FDP "ADVANCE CONCEPTS IN CHEMISTRY" 2021

A 5-day FDP on "Advance concepts in Chemistry" organized by the Department of Chemistry, Bhavan's Vivekananda College of Science, Humanities and Commerce from 22nd Nov to 26th Nov 2021. The main objective of the (FDP) was to enlighten and expertise the faculty on Advanced concepts in Chemistry so as to make their classes more interesting to the students.

The Webinar began with inaugural session attended by the Air Cmdre (Retd) J L N Shastri, VSM, Vice Chairman, BVB, Vice Principal Mrs.B.Niraimathi .The Chief Guest for the program was Dr.S.Chandrasekhar, Director, CSIR-IICT.

Faculty from various colleges and universities from all over India actively participated in the 5-day FDP.

The FDP received a lot of positive feedback from faculty members and research scholars from many universities of India. There were 65 enthusiastic participants in total, who took part in the 5-day online FDP. Microsoft Teams was the platform used and the feedback links were shared after every session in the chat box. The registered participants were engaged in a special WhatsApp group and by email.

Dr.S.Chandrasekhar delivered his keynote address and he stressed on educating the present young generation about respecting our mother nature and teaches have to inculcate research mindset in young minds.

DAY-1

The **First session on Day-1** was by Dr Anthony Addlagata, Senior Principal Scientist, CSIR-IICT, and Hyderabad. He delivered a talk on the topic- β -Barrel proteins in organic synthesis and biosensing. The lecture was very informative to the participants.

The **2nd session for Day 1** was given by Dr Dr Naresh Kumar Katari, Assistant professor, Department of Chemistry, GITAM, Hyderabad. The speaker gave a talk on Analytical Method Development and Validation for Pharmaceutical Dosage forms using HPLC and DoE. The

presentation was very attractive and included animations, which could be easily reached out to the audience.

DAY 2

On **Day 2 the 1st session** was taken by Dr Subhashini, Prof (Retd), Osmania University. She gave a detailed lecture on NMR spectroscopy and it was very informative. She illustrated the topic many examples and gave a detailed explanation on the technique of NMR spectroscopy.

Dr Jorphin Joseph, Assistant Professor, Department of Chemical Oceanography, Cochin University of Science & Technology spoke on Polymer membranes: Technology and Applications. Dr Jorphin explained about Li batteries, Nanofiltration and reverse osmosis. He also gave an insight on the major challenges faced by polymer membranes.

DAY3

Day3, 1st session was very interesting by Dr G Rambabu, PhD, Prof. & HoD, Department of Chemistry, GITAM, Hyderabad. He highlighted on Drug discovery and the drug mechanisms.

The **2nd** session was taken by Dr.P.Ramesh, R& D Head of Simson Pharma .His topic was Synthesis and Characterization of Organic impurities and Deuterium labelled compounds.

DAY4

Day4: The first session was by Prof A Ramachandraiah, Prof (HAG) of Chemistry (Retd) Coordinator DST-VP-SCoPE, Project and Editor Vijnana Vani, SCoPE, NIT Warangal. The topic of his talk was Production and use of Computer Animations and Virtual Experiments for an Effective Teaching of Chemistry. He gave various internet sources for animations and virtual experiments which could effectively be utilized by the faculty for effective teaching.

The **2nd session** was by Dr. T. Shalina Begum, Assistant Professor, Department of Chemistry, Farook College, Kozhikode, Kerala .She gave a session on chemically modified Curcumin .She also explained about NanoCurcumin and the factors affecting its activity.

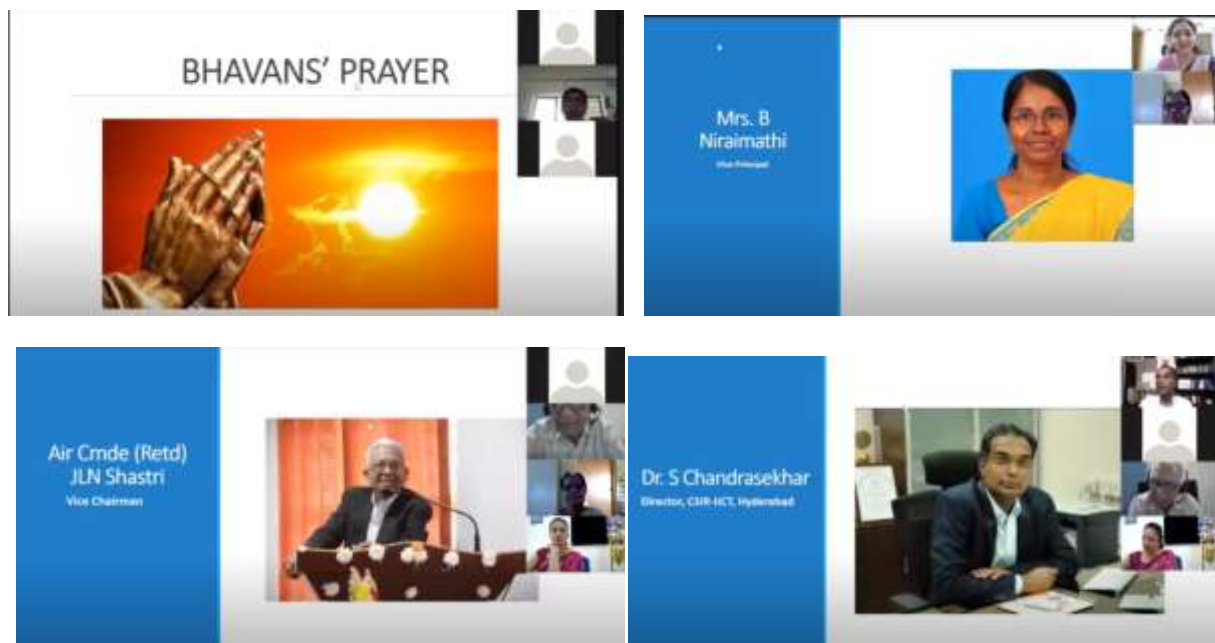
The 3rd session was a very interactive session by Ms.Gouri Priya Mylavarapu.She is a wellness expert and emphasized on eating healthy and the need of physical activity in one's daily life. The Healthy eating plate – It is the groundwork of all happiness and health.

DAY5

On the 5th Day a very enriching session was delivered by Dr Parthasardi Das - Head Department of Chemistry, IIT, Dhanbad on Chemistry & Life: A Drug Discovery Perspective.

The valedictory was attended by the Guest of Honor, Prof.U Umesh Kumar, Head Dept of Chemistry, Osmania University, Prof.Y.Ashok, Principal, BVC and Dr.K .Anuradha .Coordinator, STAR-DBT College Scheme, Head Dept of Microbiology.

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Dr. Anthony Addlagatta
Senior Principal Scientist,
CSIR-ICR, Hyderabad



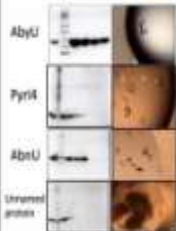
Application of enzymes in catalysis: specific emphasis to Diels-Alder Reaction



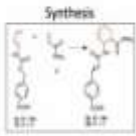



Discovery of first natural intermolecular Diels-Alderase

Bioinformatics




Synthesis






Design of Experiments




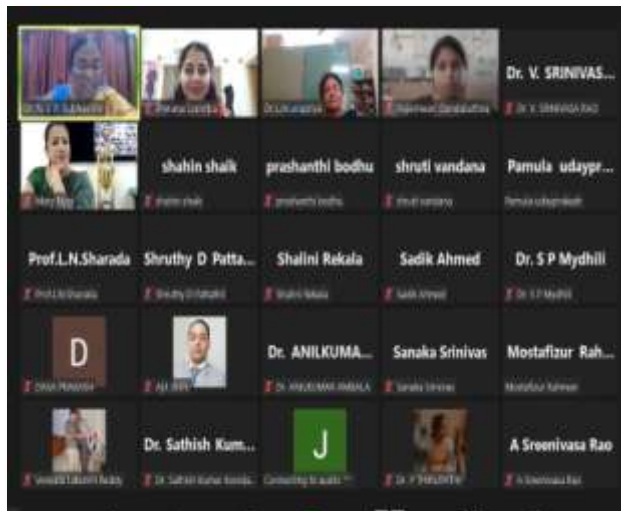
Dr. Jorphin Joseph
Assistant Professor,
Department of Chemical
Oceanography, Cochin
University of Science &
Technology

Polymer membranes: Technology and Applications

Department of Chemistry
Bhavan's Vivekananda College of Science Humanities and
Commerce, Kranthi Nagar, Sainikpuri
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Which Nuclei are most preferable for NMR ?

NMR is most concerned with $I = \frac{1}{2}$

Nuclei with $I > \frac{1}{2}$ possess quadrupole moment eQ which interact with nuclear spin thereby the spectrum get effected to result distorted signals.
 If $I = \frac{1}{2}$ the nucleus possess no quadrupole moment, Hence Sharp signals will be obtained.

