

FDP National Webinar on
RECENT ADVANCES AND APPROACHES IN
CHEMISTRY, CHEMICAL BIOLOGY AND
DRUG DISCOVERY

Convener:

Dr. B. JAGAN MOHAN REDDY

HEAD, DEPARTMENT OF CHEMISTRY, AKNU, RJY.

Dates: 11-06-2020 to 17-06-2020

Total No of Days: 7 Days

Total Number of Participants: 106

**Type of Participants: Assistant Professors, Lecturers,
Scientists and Associate Professors.**

With great pleasure this is to inform you that our Department of CHEMISTRY has organised a one week "Faculty Development Programme.

This FDP proved to be an eye-opening session for beginner and middle level researchers, and also aimed at imparting the skills required to handle different tools and technologies that are useful during the entire process of

research and scholarly communications. This FDP intended to orient participants towards developing their own research plans, paying due attention to every stage of research.

The sessions were handled by Professors and Scientists from reputed National Institutions and Industry. The FDP was attended by 104 participants – faculty members from Chemistry Department.

All the sessions were very informative. The discussed areas are of great benefit to the participants. Participants were educated on the most widely used advances and approaches in Chemistry. This FDP was immensely useful for the beginner level and middle level research scholars. The research scholars can get technical inputs for their research work from the Resource Persons.

The FDP program designed by our Department is timely good in conception, and excellent in execution. Prof. D. B. Ramachary has given a Key note talk in this FDP Programme on the First day. Later, Dr. B. S. Balaji from JNTU Delhi focussed green chemical synthesis using bi functional linkers. Dr.T. Pavankumar's presentation is on STRATEGIES FOR PRTECTION of CHEMICAL INVENTIONS-A RESEARCH APPRACH and he presented it in a very good way.

On the Second day, Dr.S.S. V Ramasatri talk on Nazarov cyclization Ene reaction was well presented. Prof. V.Jayathirtha Rao with his jovial

disposition presented Baylis Hilman chemistry and synthetic paths involving Scaffold based and structure based reactions.

On the Third Day, Prof. H. Surya Prakash Rao literally had Midas touch in utilizing the Cashew industry difficult to get rid of waste product Cashew nut-shell liquid to useful organics.

Dr. P. Nagaraj showed calorimetrically sensing of Fluoride ion and spoke about conducting polymers in the context of green and sustainable chemistry. Dr. A. Veera Reddy, Vice President of SUVEN PHARMA industry gave us importance of various Analytical techniques. Dr. S. Rajasekhara Reddy talk is on Bio Diesel Production by various Analytical Methods.

On fourth Day, Prof. Peddinti. Ramakrishna from IIT/R spoke about generation of diverse molecular complexity from simple aromatics. Professor V. Padmavathi from SVU lucidly presented environmentally friendly applications of Phase Transfer catalysis and also ionic liquid applications and sonochemistry. Dr. B. Tirupati from IISER/ Berhampur reviewed Diels Alder reaction which gave thousands of doctorates. He showed us an Online teaching methodology.

On 5th Day, Prof. Namboothiri from IIT/B gave many reactions based on Asymmetric catalysis, Organocatalysis.

Professor Subramania of electro materials research laboratory, Puducherry gave us synthesis, classification, and applications of nanoparticles

Professor BV Subbareddy IICIT, Hyd who did post doc with Nobel Laureate Corey presented repurposed drugs to treat Covid-19 and their synthetic approaches.

On sixth day, Professor VV Suresh Babu from Bengaluru university who visited our YN College gave an interactive session on peptides and their various modifications replacing O with its congeners. Dr.Udaya Kiran from Central NMR facility/PUNE structural elucidation of organic compounds using proton c-13 2D NMRs starting from first Principles. Prof. Alella Siva Ramakrishna has delivered a talk on synthesis of Silicon (IV) complexes.

NATIONAL WEBINAR ONE WEEK FACULTY DEVELOPMENT PROGRAMME ON

Webinar on
Recent Advances and Approaches in Chemistry,
Chemical Biology and Drug Discovery.
11th JUNE to 16th JUNE, 2020 Time 10AM-12.30 P.M

Organized by
DEPARTMENT OF CHEMISTRY
ADIKAVI NANNAYA UNIVERSITY
RAJAHMUNDRY-533 296, ANDHRA PRADESH, INDIA



Prof. M. JAGANNADHA RAO
Vice-Chancellor,
ADIKAVI NANNAYA UNIVERSITY



Prof. K. Hemachandra Reddy
Chairman, AFSICHE

ABOUT THE WEBINAR FDP

Chemistry has emerged as a key driver of growth for the Pharma Industry. This segment is poised to grow very rapidly, world-wide, over the next few years. Adikavi Nannaya University is organizing a ONE WEEK FDP on ADVANCE APPROACHES IN CHEMISTRY, CHEMICAL BIOLOGY AND DRUG DISCOVERY from June 2020. This Faculty Development Programme is aimed to impart basic principles and advanced knowledge to faculty and researchers and to open new vistas for them in teaching. Further, this FDP provides a platform for interaction and exchange of ideas on current trends in the fields of Chemistry with Green protocols and Technology experience and also Chemical Biology.

Objectives

- To enable the participants to learn the Basic Principles of Green Chemistry and their applications.
- To facilitate the participants to have a thorough knowledge of the molecular models and stereo selective synthesis.
- To empower the participants to transfer their learning experiences into their classroom teaching practices and learning of advance approaches in Green Synthesis

Who can attend : Young Faculty from Academic Institutions, People from Industry and R&D Institutions

FDP FOCUS AREAS

Organic Synthesis, Natural Products, Medicinal Chemistry, Bio-Organic Chemistry, Green and Sustainable Synthesis, Organo Metallic Chemistry, Nano Chemistry, Chromatography Techniques

ORGANIZING COMMITTEE

CHIEF PATRON

Prof. M. JAGANNADHA RAO
Vice-Chancellor

PATRONS

Prof. B. GANGA RAO
Registrar

Dr. K. RAMANESWARI
Principal, College of Science and Technology

Prof. K. S. RAMESH
Principal, College of Arts and Commerce
and Executive Council Member, Adikavi Nannaya University

CONVENER

Dr. B. JAGAN MOHAN REDDY
ASSISTANT PROFESSOR and HEAD, Department of Chemistry

Co Convener

Dr. K. DEEPTHI
Assistant Professor, Department of Chemistry

NATIONAL ADVISORY COMMITTEE

Dr. J. S. YADAV, Ex Director, IICT, HYDERABAD
Prof. D. Bhaskar Reddy, S.V. University, Tirupati, India
Dr. A. Veera Reddy, Vice-President, Pharma, Hyderabad, India
Prof. V. Padmavathi, S.V. University, Tirupati, India
Dr. B.V. Subba Reddy, IICT, Hyderabad, India
Dr. T Pavan Kumar, CSIR-Institute of Minerals and Materials Technology (IMMT), Bhubaneswar - 751013

Organizing Committee

Mr. S. Ramakrishna, Assistant Professor
Dr. Ch. Murali Krishna, Assistant Professor
Dr. Ch.V. Padma Rao, Assistant Professor
Mr. P. S. R. Vidya Sagar, Assistant Professor
Mr. U. S. N. Prasad, Assistant Professor



ADIKAVI NANNAYA UNIVERSITY
RAJAHMENDRAVARAM, E.G. Dist. A.P. INDIA



ADIKAVI NANNAYA UNIVERSITY

Adikavi Nannaya University was established in March 2006 by an act of Andhra Pradesh Legislature, at Rajahmundry. It is named after Adikavi of Telugu literature Nannayabhattu, the eleventh century poet laureate. It is the mandate of this affiliating university to promote the higher education in the East & West Godavari Districts of Andhra Pradesh. This university aims to combine the pristine cultural ethos and the contemporary demands of educational excellence in its vision. The university aspires to address the specific requirements of the region and contribute to its socio-economic development.

ABOUT THE DEPARTMENT

The Department of Chemistry was established from the inception of the university. It offers a Postgraduate program in ORGANIC CHEMISTRY and Analytical Chemistry. Department is offering Ph.D. Program in ORGANIC SYNTHESIS AND NATURAL PRODUCTS and INORGANIC CHEMISTRY. The Department has experienced faculty and well established laboratories. The objective of this department is to achieve excellence in Advances and Challenges in Chemistry and to work for innovations in Chemical Sciences. The students are progressively exposed to a number of skills and trends to the working of new techniques, so that they can computerize the activities of any relevant organization.

Workshop Requirements

Participants are expected to have a laptop/desktop and a smart phone with good internet connectivity (At least 2Mbps), Chrome browser and Program will be organized through Zoom Platform.

Note: Only Limited Registrations will be allowed.

Test will be conducted at the end of FDP and e certificate will be issued for the successful completion of FDP with full attendance.

REGISTRATION

Participants from Academic Institutions: Rs 200/-
Bank: Andhra Bank, ANU Campus Branch, Velugubandha
Account No: 062610100036738
IFSC CODE: ANDB0002381
Registration Link:

	Name of the Professor/Dr.	Title of the Talk	Date of Lecture
1.	Prof. Dr. Dhevalapally B. Ramachary, FTAS, FASc, FRSC Professor of Chemistry Catalysis Laboratory School of Chemistry University of Hyderabad (UoH)	Discovery of Novel Reactions for Sustainable Chemistry	11-06-2020
2.	Dr. B. S. BALAJI, Associate Professor NEW DELHI	Green chemical synthesis using bi-functional linker	11-06-2020

12-06-2020

S. No	Name of the Professor/Dr.	Title of the Talk	Date of Lecture
3.	Dr. Togapur Pavan Kumar Senior Scientist CSIR-Institute of Minerals &	Strategies for protection of chemical inventions - A Researcher Approach	12-06-2020

	Materials Technology (IMMT)		
4.	Dr. S. S. V. Ramasastry Associate Professor and DST-Swarnajayanti Fellow Department of Chemical Sciences, IISER Mohali	New Pparadigms in the Synthesis of Privileged Heterocycles	12-06-2020
5.	Prof. Dr.V.JAYATHIRTHA RAO , Emeritus Scientist Fluoro Agro Chemicals Division, CSIR- Indian Institute of Chemical Technology, Hyderabad-500007, Telangan, India	Pharmaceutically Favored Heterocycles via Baylis-Hillman Chemistry	12-06-2020

13-06-2020

S.No	Name of the Professor/Dr.	Title of the Talk	Date of Lecture
6.	Prof. H. Surya Prakash Rao DEAN-Research Sharda University Greater Noida NCR NEW DELHI	Cashew nut to LAB HYDROGENATED CARDINOL AND ITS UTILITY Time: 10.00-10.40 A. M	13-06-2010
7.	Dr. P. Nagaraaj Assistant Professor Department of Chemistry, Anna University, Chennai-25	Recent Development in Green and Sustainable Chemistry Time: 10.40-11.20 A. M	13-06-2020
8.	Dr. A.VEERAREDDY Vice-President SUVENPHARMA- JEEDIMETLA, Hyderabad.	Importance of Analytical Techniques in Pharma Industry Time: 11.20-12.00 P. M	13-06-2020
9.	Dr. S. Rajasekhara Reddy Associate Professor	Monitoring of Biodiesel Production by various Analytical Methods	13-06-2020

Vellore Institute of Technology Vellore, Tamilanadu State.	Time: 12.00 to 12.40 P. M	
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14-06-2020

S.No	Name of the Professor/Dr.	Title of the Talk	Date of Lecture
10.	Rama Krishna Peddinti, Professor, Department of Chemistry Indian Institute of Technology Roorkee	Generation of Diverse Molecular Complexity from Simple Aromatics Time: 10.00-10.40 A. M	14-06-2020
11.	Prof. V. Padmavathi, S. V. University, Tirupathi, A.P.	Green methodologies in organic synthesis Time: 10.40-11.20 A. M	14-06-2020
12.	Thirupathi Barla, Ph.D. Assistant Professor Department of Chemical Sciences IISER, Berhampur.	Asymmetric Diels-Alder Reactions and Their Applications in Natural Product Synthesis. Time: 11.20-12.00 P. M	14-06-2020

15-06-2020

S.No	Name of the Professor/Dr.	Title of the Talk	Date of Lecture
13.	Prof. Irishi N N. Namboothiri I.I.T, Bombay.	Catalytic Asymmetric Synthesis of Multi-functional and Bioactive Molecules 10.00-11.00 A.M.	15-06-2020
14.	Prof. A SUBRAMANIA, Pondicherry University (A Central University), Puducherry-605 014,	Nano Materials-Synthesis and Applications 11.00-12.30 P.M	15-06-2020

15.	Dr B V Subba Reddy, FNASc Chief Scientist & Chair, Fluoro & Agrochemicals CSIR-IICT, Hyderabad-500 007	Repurposed drugs to combat COVID 19 12.30-1.30 P.M	15-06-2020
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16-06-2020

S.No	Name of the Professor/Dr.	Title of the Talk	Date of Lecture
15.	Prof. Vommina V. Sureshbabu Department of Studies in Chemistry, Sneha Bhavan, Jnanabharathi, Bangalore University, Bangalore - 560056.	Selenoxo Peptides 10.00-11.00 A.M	16-06-2020
16.	Dr. Udaya Kiran Marelli Senior Scientist	NMR Spectroscopy for Organic, Pharmaceutical and Bio Molecules 11.00-12.00 P. M	16-06-2020

	CSIR-National Chemical Laboratory (NCL)		
17.	Prof. Akella Sivaramakrishna Department of Chemistry, School of Advanced Sciences, Vellore Institute of Technology (VIT), Vellore 632014, Tamil Nadu, India	Remarkably Flexible Hydrazide based Hypercoordinate Silicon(IV) Complexes - Synthesis, Chemistry and Applications 12.00P.M- 1-00 P.M	16-06-2020

Programme Schedule DATE: 17-06-2020; Time: 10.00 A.M

Welcome by

Co-Convenor -----Dr. K Deepthi,

One Week FDP Report of the Webinar by

Convenor-----Dr. B. Jagan Mohan Reddy

HEAD – Department of Chemistry

Closing Remarks by -----

Dr. K. Ramaneswari

Principal, UCST

Message by Distinguished Guest-----

Prof. K. B. Chandrasekhar,

*Vice-Chancellor, Krishna
University*

Valedictory Address by-----

Prof. B. Ganga Rao

Registrar