

Department Activities 2017-2018

1. Academics:

- M.Divya, Deloitte.Soft.Ltd., Hyderabad gave “**Guest lecture on Job search tools**” for final year students on 13th June, 2017. Take time this week to really get your job search off the ground by checking out everything :awesome companies , career coaches , and open positions .



- Dr.M.Rama, Dept. of Chemistry presented a **Guest lecture on “Metal Clusters”** for I Year M.Sc Chemistry students of KBN College, Vijayawada on 17th February 2018.



➤ **Workshop To Farmers**

Department of chemistry organized an awareness campaign to the farmers of Sanivarapupeta and surrounding villages about the precautions to be taken while spraying the pesticides under the guidance of Dr.G.Jyothi HOD of chemistry on 11th september 2017. Dr. M.Rama and Chemistry faculty done soil analysis for the samples brought by the farmers.



- Department of Chemistry organized a **GUEST LECTURE** on Antibiotics use and abuse in view of the Antibiotics awareness week celebrations in Nov 2017. Prof Kumara Swamy from Sir CRR Pharmacy college created awareness about the use and abuse of antibiotics and their side effects.



➤ **Virtual laboratory Work shop:**

In order to reduce the usage of chemicals and to avoid toxic chemicals Chemistry department is giving guidance to students to do experiments in virtual method under the guidance of Mrs.K.J.Subhashini and Mrs.B.Anuradha. This virtual labs

will avoid pollution and save time while doing the practicals. It will enhance the students to develop research skills in modern techniques developing recently.

- Department of chemistry organised a **GUEST LECTURE** to enlighten the final year BSc students on fundamentals of organic chemistry and how to face competitive exams to secure seat in national level institutions on 16th Feb 2018. The resource person is Dr B Jagan Mohan Reddy, HO Department of Chemistry, AKNU, RJD.



2. Co curricular activities

- On the eve of Ganesh chaturthi department of chemistry members distributed clay GANESH IDOLS for the public around college and college students. Chemistry department conducted this programme in collaboration with AP Pollution control board as an activity of chemistry **FOCUS club activity**.



- On 21st DEC 2017 Department of chemistry conducted an activity in **FOCUS club**. Seminar in the form of Powerpoint presentations were given by chemistry in daily life by Sk Kathija and V.Mamatha, energy from domestic waste by D.Vijaya Lakshmi and Touch of human life by Ujwala.V. After the presentations the chief guest Sr.P.Sunila Rani controller of examinations and Mrs D..Brahmeswari Former HOD of arts department distributed prizes to the 100 % mark achievers in I III & V semester examinations. P.Srilakshmi of III B.Sc gave tips to the students on "How to achieve 100% marks". All the chemistry faculty gave their blessings to the FOCUS club students



➤ **Field trip :**

Around 90 students of chemistry department along with the staff members visited HI-BOND construction chemicals at Veerapanenigudem, Krishna district. students were enriched with water proof (such as poly carbonate) material preparation, hydrotite preparation and their applications on 29th august 2017. Students felt it as a very good experience and motivation to start up such companies with chemistry knowledge to reach the society.



➤ **Field trip:**

All the final year chemistry cluster students visited **Wanbury Company**, K. Illindaraparlu, Tanuku on Thursday i.e. 23rd Nov 2017 as a part of **Industrial tour** accompanied by Dr. G. Jyothi, Dr. V. Nagalakshmi, Mr. G. Srinivasa Rao, Mrs. B. Aunradha. This pharmaceutical company develops and produces pharmaceutical drugs. Pharmaceutical companies may deal in generic or brand medications and medical devices. They are subject to a variety of laws and regulations that govern the patenting, testing, safety, efficacy and marketing of drugs.



3. Extra curricular activities:

- An **Awareness programme on Dental Hygiene** delivered by Dr. Akhila Devi was organized by the department of chemistry on 21st August 2017. Students got awareness about the importance of calcium and the side effects of eating junk foods. Dr. Akhila Devi has mentioned about Types of dental problems and advanced techniques of treatment available for dental problems. Measures to be taken to avoid dental problems were also discussed.



- In view of the **International Ozone day celebrations** Chemistry department conducted different Competitions like elocution and poster painting on the topic **HOW TO PROTECT OZONE LAYER** on 15th September 2017. Students of various groups participated and won prizes.



- As a part of **SCIENCE DAY** celebrations (birthday of sir C.V.Raman on 28th Feb) chemistry department conducted elocution competitions on **LIGHT ENERGY APPLICATIONS** on 22nd Jan 20108. Dr.V.Naga Lakshmi, Mrs.K.J.Subhashini & B.Anuradha acted as judges for this event. Many students participated enthusiastically and bagged prizes.
- As a part of **Swatch Bharath programme** by honorable prime minister District authorities are advised to undertake programmes like **SWACHA SARVEKSHAN** and install **PURASEVA APP** to show the citizens responsibility to maintain swatch eluru. Inorder to implement this department of mathematics and chemistry encouraged and guided students to install **PURASEVA** app and to do the swatch survey.



- Chemistry faculty members encouraged and guided the students to participate in **CHEM-COGNIZANCE** – Competitions on 2nd and 3rd Feb 2018 conducted by Andhra Loyola college - vijayawada . V.Mamatha, Sk.Kathija, K.swaroopa rani of III BSc MPC participated and Sk.Kathija won I prize in practical skill test.
- **Knowledge Extention Program on Environmental issues and challenges**

III B.Sc MPC(I) students performed a skit on “Environmental issues and challenges” under the guidance of Dr.V.Naga Lakshmi on 6th July,2017. The gist of the skit is our planet is poised at the brink of a severe environmental crisis. Current environmental problems make us vulnerable to disasters and tragedies, now and in the future. We are in a state of planetary emergency, with environmental problems piling up high around us. Unless we address the various issues prudently and seriously we are surely doomed for disaster. By raising awareness in our local community and within our families about these issues, we can help contribute to a more environmentally conscious and friendly.



- **Knowledge Extension Program On Green Chemistry And Its Principles**

In these days people are having a bad idea on chemicals and pharma companies. Though they are using medicines made by them they are having a bad opinion that they are

creating pollution. On this issue students of III B.Sc MPC Isec performed an extension programme on 'GREEN CHEMISTRY AND ITS PRINCIPLES' under the guidance of Mrs.K.J.Subhashini on 6-7-2017. They performed the programme in a dramatic way and gave a clear view about the 12 principles of green chemistry, its benefits and uses.



Department of chemistry latest Research Publications (2017-18)

Name of the staff member		Title of the paper published	Research Journal
Dr.G.Jyothi	1	Applications of Big Data analytics	International Journal of Ad Research Trends in Engineering and Technology (IJARTET) ISSN 2394-3785, Vol. 4, S Issue 21, Aug.2017
	2	Chemical Modelling Studies On The Interaction Of Phenyl Acetic Acid Hydrazide And A-Alanine With Divalent Transition Metal Ion	International Journal of Engineering Science Invention (IJESI) Jan 2018;ISSN(Online) :2319-6734, ISSN (Print): 2319-6726
	3	Women opportunities and challenges in Empowerment – Present Scenario	KAAV International Journal of Economics, Commerce & Business management, Feb 2018

			ISSN: 2348-4969.
Mrs.T.Rohini Kumari	1	Spectrophotometric methods for the assay of lopinavir using chromogenic reagents	International Journal of Engineering Science Invention (IJESI) Jan 2018;ISSN(Online) :2319-6734, ISSN (Print): 2319-6726
	2	Women in Research	KAAV International Journal of Economics, Commerce & Business management, Feb 2018 ISSN: 2348-4969.
	3	Importance of differential equations and its use in the field of chemistry	International Journal of Ad Research Trends in Engineering and Technology (IJARTET) ISSN 2394-3785, Vol. 4, Special Issue 21, Aug 2017)
Dr.C.A.Jyothirmayee	1	Materials of Microwave devices	International journal of Engineering Science Invention (IJESI) Jan 2018;ISSN(Online) :2319-6734, ISSN (Print): 2319-6726 ,Page: 7-1
	2	Understanding family structure and women empowerment in India	KAAV International Journal of Economics, Commerce & Business management, Feb 2018 ISSN: 2348-4969 ,Page: 15- 17.
	3	Nano phosphors	International journal of Engineering Science Invention(IJESI) Feb 2018 ISSN(Online) :2319-6734, ISSN (Print): 2319-6726 Page: 04 -06
Dr.M.Rama	1	Bio-mathematical model on Chemotaxis	International Journal of Ad Research Trends in Engine and Technology, ISSN 239 Vol. 4, Special Issue 21, Au
	2	Educated Women-A boon to the family & society	KAAV International Journal Economics, Commerce & B management; ISSN 234 Vol. 5, Special Issue 2,

			2018.
	3	Renewable energy education -A new paradigm	International Journal of Engineering Science Invention (IJESI)ISSN (Online): 2319 – 6734, ISSN (Print): 2319 – 6726, Vol.3. PP. 55-59
Dr.V.Naga Lakshmi	1	Applications of Big Data analytics	International Journal of Advanced Research Trends in Engineering and Technology (IJARTET) ISSN 2394-3785, Vol. 4, Special Issue 21, Aug.2017
	2	Spectrophotometric methods for the assay of lopinavir using chromogenic reagents	International Journal of Engineering Science Invention (IJESI) ISSN (Online): 2319 – 6734, ISSN (Print): 2319 – 6726,
	3	Women in Research	KAAB International Journal of Economics, Commerce & Business management, Feb 2018 ISSN: 2348-4969.
Mrs.K.Swarnalatha	1.	Leading balanced life by practicing yoga	International journal of Health,Physical Education and Computer science(ISSN2231-3265) Jan-2017
	2	Mathematics in Biological application	International journal of Advanced Research Trends in engineering and Technology(ISSN-2394-3777)Aug-2017
	3	A Quantitative estimation of phytochemicals,Antidiabetic and Antioxidant activities of crude extracts of Sphagneticola trilobata and Adathoda vasica	Journal of Natural natural products and Resources(ISSN-2455-0299) Jan-18

Mrs.N.Gayatri Devi	1	Study on Molecular Interactions Using Thermodynamic Excess Properties of Binary Mixture Containing Propiophenone with 1-Propanol, 1-Butanol and 1-Pentanol at Temperatures 303.15, 308.15, 313.15 and 318.15 K;.	Asian Journal of Chemistry ISSN0975-427X; Page no: 157-166,Jan.2018
	2	Theoretical assessment of ultrasonic velocities of binary liquid mixtures containing p- chloroacetophenone with 1-alcohols at temperatures from 303.15 K to 318.15 K,.	Karbala international journal of modern sciences, Elsevier ISSN-2278-3458; Pages 126-133, Feb.2018
	3	Ultrasonic study on binary liquid mixtures of Propiophenone with Anilines and Alkyl substituted anilines at T= 303.15 to 318.15 K	Korean Journal of chemical engineering. Springer eISSN:1975-7220, pISSN: 0256-1115;page no.1-12,Mar.2018

