



# Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

**LEAD TO ILLUMINATE**



**DEPARTMENT OF CHEMISTRY**  
**2018-19**



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## Mass Spectroscopy and its applications Report

**Name of the Event:** mass spectroscopy and its applications

**Place:** heritage hall

**Date:** 28/07/2018.

**No of participants:**107

The department of chemistry organised a guest lecture on Mass spectroscopy and its applications. The resource person was Mr. Sheshagiri Rao Senior Engineer, GE ITC, Gachibowli, and Hyderabad. He has guided the students by giving them the information about mass spectroscopy and their applications. He clarified doubts in the interactive session. The participants got the information of totally new branch of science which is coming into limelight. The session comes to end by the vote of thanks.



Dr. Sheshagiri Rao is imparting knowledge to the students.



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Felicitation of Dr. Sheshagiri Rao by our esteemed Principal Rev. Brother Vincent Reddy.





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## FIELD TRIP TO CDFD REPORT

**Name of the Event: Field Trip to CDFD**

**Date: 21 /08/ 2018**

**Place: Centre for DNA Fingerprinting and Diagnostics, Uppal, Hyderabad**

**No of participants: 36**

The department of chemistry organized a field trip to CDFD. In the inaugural session they explained the basic components of DNA and its applications as well as some case studies. Students had the great opportunity to see various instruments like Mass, HPLC, GC, PCR etc., and interacted with the scientists. The session ended with a vote of thanks.



Scientist giving brief explanation on students about mass spectroscopy



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## INTRA COLLEGIATE COMPETITION REPORT

**Name of the Event: INTRA COLLEGE COMPETITION**

**Date: 19<sup>th</sup> September 2018**

**Place: Karunya court & P-05**

**No. of participants: 30**

To make the students have fun and interest in the subject of chemistry, Department of chemistry conducted chem rangoli & chem Idol on 19<sup>th</sup> of September 2018 during intra college competitions. The students participated in large number and were judged by chemistry teachers from little flower junior college. It was a grand success which was appreciated by all.



**students participating in  
chem rangoli**



**chem idol-solo singing**



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## Faculty Development Program in Chemistry for UG Teachers Report.

**Name of the Event:** Attended Faculty Development Program in Chemistry for UG Teachers

**Date:** 13<sup>th</sup> – 18<sup>st</sup> December, 2018

**place:** Department of chemistry, university college of science

**No of participations:** 02

Department of chemistry attended a faculty Development programme for UG Teachers organised by Department of chemistry, Osmania University. The main objective of RUSA is to achieve equity access and quality in higher education. The aim is to achieve mass access to higher education with high quality standard by adopting NAAC accreditation as a mandatory quality assurance framework, and simultaneously seek to upgrade the overall academic quality by implementing reforms. It was a 5days workshop in which the University Professors explained and demonstrated the new topics of the revised chemistry syllabus, which was very helpful.



**Certification during the workshop**



**Valedictory after the workshop**



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## RECENT TRENDS IN MATERIAL RESEARCH FOR SCIENCE AND ENGINEERING APPLICATIONS

**Name of the Event: RECENT TRENDS IN MATERIAL RESEARCH FOR SCIENCE AND ENGINEERING APPLICATIONS**

**Date: 20<sup>th</sup> & 21<sup>st</sup> December**

**Place: QEEE conference Hall, Mechanical Engineering Block, MVSREC Nadergul.**

**No of participants: 02**

Department of chemistry attended a two-day seminar on recent trends in material research for sciences and engineering applications organised by MVSR Engineering College. Prof. Naresh Patwari, IIT Bombay gave the Keynote address and started the session by a lecture on recent application of Electro statistics and Dispersion in Molecular Aggregation and materials. The second session was technically given by Prof M. V. N. Ambika Prasad, from Gulbarga University Studies of Conducting Polymers Nano Composites and its Applications. Mrs. Rashmi and Mrs. Rama presented a paper on this seminar named “Nanomaterials through the ages – from Ayurveda to Allopathy”. It was highly appreciated by the participants and a lot of questions were asked as this was a rare topic of great interest. It was followed by oral presentation of the paper by participants.



Mrs Rashmi Srinidhi & Ramadevi presenting paper





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### HOW DOES THE BRAIN CREATE THE MIND

**Name of the Event: How does the Brain create the Mind**

**Date: 08/01/2019**

**Place: Seminar Hall, IICT, Hyderabad**

**No. of participants: 10**

Department of chemistry attended a guest lecture On How does the brain create the mind at IICT, Hyderabad. Prof. Mriganga sur talked about the animal behaviour and the response of the brain. He talked about the benefits of new technology to analyse the brain function. The comparison between computer and brain was interesting, how dreams are associated with thoughts and neuron signal transmission was explained. The lecture was very informative and gave some ideas about research to students.



**Photograph of students with speaker of the session**



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**Photo of participants who attended the seminar**



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## A ONE – DAY STATE LEVEL WORKSHOP ON COLOURPOP COSMETICS & DYES

**Name of the Event:** Workshop

**Date:** 23/01/2019

**Place:** Andhra mahila Sabha arts & science college for women

**No. of participants :**39

Students from BTMC and BZC II Year, attended a state-level workshop on cosmetics and dyes organized by Andhra Mahila Sabah Arts and Science College for Women. The workshop featured a keynote lecture by Dr. Nandita Sethi, who encouraged students to explore small-scale industries leveraging their chemistry knowledge. Sessions included lectures by D. Harini on Printing and Dyeing, and Madhuri on Cosmetic Preparation, Demonstrations on Painting, Dyeing, and Cosmetic Preparation were also conducted. Prof. M. Usha presided over the event, which concluded with a valedictory session and certificate distribution.



Participants of workshop





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Demonstration of cosmetics





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## Electrochemical cells and its applications

**Name of the Event:** Guest lecture on electrochemical cell & its applications.

**Date:** 31/01/2019

**Place:** I-31

**No of participants:** 114

Second-year students had an insightful session on Electrochemistry led by a senior faculty from Osmania University's Department of Chemistry. The faculty simplified complex topics, such as the preparation and functioning of glass and Calomel electrodes, illustrating their applications. Dr. Annapurna Padmavathi delivered a guest lecture, enhancing the informative and interactive nature of the session.



Dr. Padmavathi, imparting knowledge to students



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**Felicitation of Resource person by principal Rev Brother Vincent Reddy & Vice-Principal Ms Jayanthi Reddy.**



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### **INTERNATIONAL ADVANCED RESEARCH CENTRE FOR POWDER METALLURGY AND NEW MATERIALS [ARCI]**

**Name of the Event: Field trip to ARCI**

**Date: 15/02/2019**

**Place: BALAPUR AIRPORT ROAD, MALLAPUR VILLAGE, HYDERABAD**

**No of participants: 45**

On February 15th, MPC II Year and BTMC I Year students visited the INTERNATIONAL ADVANCED RESEARCH CENTRE FOR POWDER METALLURGY AND NEW MATERIALS [ARCI]. The trip was well-organised and informative: Briefing on nano materials and their applications, followed by a tour of different floors. Sessions on electrochemistry, laser robotics, 3D printing of metal structures, and aero gel preparation machines and applications. Host provided lunch for all attendees. The trip ended with a visit to the solar cell division, where students learned about green chemistry. Overall, a highly informative trip.



**photograph of participants at ARCI**



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## INTER COLLEGIATE COMPETITIONS

**Name of the Event: BRAIN POP -FUN WITH PERIODIC TABLE**

**Date: 26/02/2019**

**Place: PHYSICS LAB**

**No of participants: 26**

On February 26th, students from various colleges participated in the inter-collegiate competition "BRAIN POP- Fun with Periodic Table" organised in the Physics Lab, 2nd floor. The event aimed at enhancing knowledge and understanding of the periodic table. Highlights included students from 3rd year BTMC creating periodic table models and organising activities to arrange elements in their correct positions. A valedictory function concluded the event, with awards presented to the winners.



**Participants arranging elements in the periodic table during the competition**





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### Two Day National Seminar on Health, Hygiene and Sanitation

**Name of the Event: Attended two-day National seminar**

**Date: 26th & 27th April 2019**

**Place: Montfort Seminar Hall**

**No of participants: 03**

Mrs Rashmi Srinidhi and students from BTMC III year participated in Two-day National Seminar on Health, Hygiene and Sanitation organised by department of Microbiology & Zoology, LFDC. The major objective of the seminar is to explore, document and analyse the role of health, hygiene and sanitation on the public health of not only humans but also of the entire ecosystem and thus its impact on sustainable development in terms of use of science, technology and innovative approaches and ideas. The two-day events were featured by key note lectures, research presentations of students and academicians. It was an excellent opportunity to keep pace with recent trends. Moreover, it forms a bridge among the academicians.



**Paper presentation by MS. Rashmi Srinidhi**



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### PROJECT ON ANALYTICAL TECHNIQUE IN ROTAVAPOR AND COLUMN CHROMATOGRAPHY

Name of the Event: **Project on analytical techniques**

Date: **2<sup>nd</sup> to 4<sup>th</sup> May 2019**

Place: **Department of chemistry, Osmania University**

No of participants: **06**

Students of Btmic & BZC got an opportunity to learn analytical techniques in chemistry lab & chromatography at Department of Chemistry, Osmania University. This was led by Mr. Dr. Sivakumar. Research scholars showed various analytical equipment, providing detailed explanations, followed by practical sessions. The students also practically experienced chromatography techniques like TLC, column, gaining insight into rotor and column packing methodologies. This session offered valuable exposure to instrument utilization across research levels. Faculty and students' express gratitude to Osmania University for this enriching opportunity.



Student handling Rotavapor



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Student observing TLC under UV-detector



students performing column chromatography