



# Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

**LEAD TO ILLUMINATE**



## **BIO TECHNOLOGY**

**2019-20**



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## DEPARTMENT OF LIFE SCIENCES FACULTY OF BIOTECHNOLOGY

**ACADEMIC YEAR 2019-20**

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## FIELD TRIP TO SANDOR LIFE SCIENCES

Date: 30.07.2019

Venue: SANDOR LIFESCIENCES, BANJARA HILLS, HYDERABAD.

The Department of Biotechnology organized a field trip on 30<sup>th</sup> July 2019 for II & III BTMC students. The place of visit was SANDOR Lifesciences -A DSIR & NABL accredited company. The session for the students was hosted by Mr. Aravind.

Students were taken to different divisions of the lab and given a chance to interact with the in charges. Furthermore, the respective lab in charge and experts of their domain explained about the work that they perform at their labs. They gave a demo of the instrument working of their respective field. Students had visited divisions of various sectors of Karyotyping, PCR, Microarray technology etc.

Students had an active interaction with experts and various research scholars. They were motivated, educated and could come to know about new emerging technologies in field of biology. This field trip gave students industrial exposure and knowledge about the working at industrial level. They got an idea of the career opportunities and the sectors/divisions they can work in.



Students interacting with the supervisor



Mr. Aravind explaining the instrumentations and karyotyping



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## GUEST LECTURE ON CANCER

Date: 17.08.2019

Venue: Seminar Hall, Department of Biotechnology,

LFDC. Speaker: Dr. C. Vinod, HCL Technologies,

Chennai

Department organized a guest lecture to emphasize the importance of cancer and its effect on human life among the students. Students from 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> year B. Sc (Bt. M. C) participated in the guest lecture given by Mr. C. Vinod from HCL Technologies. He started his session with the significance of genetics, chromosomes, genes etc., in causing diseases. Then he continued his lecture explaining various causes like genetic and environmental. He further continued with different types of cancer and treatment options for it.

He focused on the novel technologies include Polymerase Chain Reaction, Gene Sequencing, Fluorescent in Situ Hybridization, Microarrays, RNA interference, Genome Editing, Use of Stem cells in regenerative medicine, Tissue Engineering etc. have significantly contributed towards improving health science. He explained the use of molecular diagnostic tools for cancer. The lecture was concluded with a Question-and-Answer session. Then vote of thanks was given and Mr. Vinod was felicitated. The ending note was given by the resource person encouraging students to do research on cancer.



**Our Principal, Rev. Bro. Vincent Reddy felicitating the guest speaker Mr. Vinod with memento**



**Mr. Vinod delivering his lecture.**



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## FIELD TRIP TO OPEN DAY OF CDFD

Date: 27-01-2020

Venue: CCMB, Habsiguda, Hyderabad.

The Centre for DNA Fingerprinting and Diagnostics (CDFD) is an autonomous organization funded by the Department of Biotechnology (DBT), Ministry of Science and Technology, Government of India. CDFD also receives funding from other agencies on specific collaborative projects.

A field trip was conducted to CDFD, Hyderabad as a part of Open Day at CDFD. Students and faculty of various life sciences' departments attended that event. Visit started with the process of registration and then students were taken around to visit the exhibits. Young researchers in the various fields of biological sciences exhibited and explained their works to the students and visitors.

They focused on how their research work is going to help the society and what applications and uses can be taken out of their works. Students were able to interact with the ignited minds, able to co relate the studies and clarify their doubts. The visit came to end with the day filled with the excitement to explore and necessity to develop research attitude among students.



Students listening to the research Exhibit of plant biotechnologist



III BTMC students at open day of CDFD



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### GUEST LECTURE ON NEXT GENERATION SEQUENCING(NGS)

Date: 06.02.2020

Topic: NGS

Venue: Seminar Hall, Department of Biotechnology, LFDC.

Speaker: Dr. Aravind Setti, Molecular Biology Division, Ruha Lifesciences

The Department of Biotechnology organized guest lecture on 6<sup>th</sup> February 2020 on “Next Generation Sequencing Technologies (NGS Technologies)” at seminar hall, LFDC. The resource person was Dr. Aravind Setti, Molecular Biology Division, Ruha Life Sciences. Students from Biotechnology 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> year took active participation in the guest lecture. He started session with what are the basic techniques and methodologies involved in sequencing DNA along with their disadvantages and continued explaining about revolutionary technologies and principles behind Next Generation Sequencing, different platforms available for the sequencing and how NGS is able modernize and fasten up the research in the field of biological sciences adding a note on advantages of Next Generation Sequencing Technologies.

The lecture was concluded with a Question-and-Answer session. Then vote of thanks was given and Dr. Aravind Setti was felicitated. The ending note was given by the resource person encouraging students to do research and learn NGS as it is the future.



**Our Principal, Rev. Bro. Vincent Reddy felicitating the guest speaker Dr. Aravind Setti with memento**



**Students listening to lecture delivered by Dr. Aravind Setti**