

Microbiology Association Activities 2016-17

Department of Microbiology looks forward with the vision “to create a centre of academic excellence in the field of education and research and to develop an orientation towards global needs as responsible citizens”. Our vision is “to learn, practice and apply Microbiology for human welfare”.

1. 10 June 2016

III DC UG students of our department helped in cleaning and arranging books in Public Library, Trichur. 33 students were accompanied by Dr Dhanya K C and Ms Elizabeth P Thomas, the faculty members of our department.

2. 12 July 2016

A power point presentation regarding open course was conducted for students of other departments in the Jubilee Hall. Details about the syllabus, scope of the course, paper credit, etc were explained to them by Dr. Mabel Merlen Jacob.

3. 13 July 2016

An orientation about the syllabus and Choice Based Credit Semester System (CBCSS) was given to first year students by Dr. Mabel Merlen Jacob.

4. 14 July 2016 - 19 July 2016

To familiarize the First BSc students with Microbiology, an induction course to Microbiology was conducted by the faculty members of our department from 14 July 2016 to 19 July 2016.

Date	Name of Faculty	Topic
14 July 2016	Dr. Dhanya KC	Prokaryotes
15 July 2016	Ms. Elizabeth P Thomas	Introduction to Microbiology
18 July 2016	Dr. Mabel Merlen Jacob	Industrial Microbiology
19 July 2016	Dr. CR Meera	Microbial World and You

5. 22 July 2016

Microbiology Association Election was conducted during the tutorial hour. The elected members are as follows

Post	Name of student	Class
President	Nima Lawrence	II MSc
Vice President	Riya KB	III BSc
General Secretary	Anjana	III BSc
Treasurer	Sandra Damodaran	II BSc
	Aswathy KJ	III BSc
Association Representatives	Jyothis	I BSc
	Ansa	II BSc

6. 4 August 2016 - 5 August 2016

In connection with Monsoon Fest 2016 conducted in the college, our department arranged food stall and Old-Unused items sale. Monsoon Fest was celebrated on 4th and 5th August, 2016. UG and PG students of our Department actively participated and contributed in the Monsoon Fest. II DC students (Swetha & team) performed the Inaugural Dance on 4th Aug 2016. III DC students (Anjitha & Team) performed a drama related to prevention of Monsoon diseases on 5th Aug 2016. The drama offered good health tips to stay healthy during monsoon season in a very interesting and humorous way. Items contributed in the food stall by our department were Veg Spring Roll and Chicken Samosa. Students also conducted different games like Cap & Brush, Fun Golf, Point the Bangle, Kilukkampetty, Monsoon Colors and Fun colors. A lucky draw was conducted at the end and Ms Niya Theresa Xavier, II DC student, Microbiology Department, was the winner. Microbiology Department was in charge of the Gift Stall in Room No-106. Items for sale in this stall was kindly donated by staff members and students of St Mary's college. The stall was divided into five sections including Dresses& Sarees, Fancy Items, Crockery, Show Pieces and Books & Stationary. Total profit from the Gift Stall was 9,143 Rs.





7. 7 September 2016

Microbiology association inauguration and fresher's day was conducted from 10 -11.30 am in the Jubilee Hall. Association was inaugurated by Dr. Hemamalini, Medical Officer (NHM), Chalavara, Palakkad. An invited talk was delivered on "Mazhakkalarogangalum pradhividhiyum-Ayurvedathil". The talk was very informative and emphasized on the importance of maintaining hygiene and healthy food habits. It was followed by a very interesting interactive session with students.

III DC students (Anjitha & Team) performed a drama related to prevention of Monsoon diseases. The drama offered good health tips to stay healthy during monsoon season in a very interesting and humorous way. II DC and III DC students also performed a variety programmes to welcome the I DC.





8. 8 September 2016

Pope Francis declared 2016 as ‘Year of Mercy’; as part of this, St. Mary’s College organized a program titled ‘Karunardram’. This is done in order to help the poor with food packets for their lunch. The Department of Microbiology, St. Mary’s College participated in the Karunardram on 8th September 2016. The students of both UG and PG courses as well as the teachers brought an extra pack of lunch to distribute among the needy. By 11 .45 am the food packs were collected in the college and handed over to the volunteers for distribution. There were a total of 100 packets collected and they were happily donated by the students to feed the less fortunate people.



9. 21 October 2016

The alumni association of St Mary’s college, Elder Marians organised a free eye camp in collaboration with the departments of Microbiology and Botany together with Vijayasree eye hospital, Thrissur. The programme was conducted at **St. Mary’s CBP School, Kottakkad on 21st October 2016**. Free consultation was done by **Dr Vijayalakshmi and Assistants, Vijayasree Eye**

Hospital, Thrissur, Kerala for the students and parents of HRCLPS, Nadathara. I MSc Microbiology students assisted the Elder Marians as volunteers for smooth functioning of camp. Around five hundred Students and their parents attended the camp and received medical support. Those who diagnosed with eye vision issues were redirected to Vijayasree Eye Hospital for further consultation, free of charge.



10. 11 November 2016

PTA meeting for III BSc Students was conducted in Jubilee Hall from 2.00 - 3.30 pm.

11. 17 November 2016

An invited talk on ‘Stress Management’ was conducted by Dr. Sindhu Pradeep, Special Counsellor, Women Cell, Thrissur. The first batch included the II DC and II PG students (1.30 – 2.30 pm) and the Second batch was of I DC and I PG students (2.30 – 3.30 pm). Techniques for easy learning, mind relaxation practice, importance of moral values, etc. were elaborated.





12. 29 November 2016

As part of curriculum, a visit was conducted for II DC students to Banana Research Station, Kannara, Thrissur from 9.30 am -1.30 pm.

13. 1 December 2016

In connection with world AIDS day, various interdepartmental competitions were conducted by the department. The competitions included Essay writing, Poster making, Collage and Quiz. The winners are as follows

Competition	Topic	Winners
Essay Writing	Your Role in Combating AIDS	First Prize – Jebin Jacob K, II MSc Psychology Second Prize – Raina Mary, II BSc Microbiology and Eleena Antony, III BSc Microbiology
Quiz	AIDS	First Prize – Nanditha Vishwanathan and Nashmiya Saheer, II BSc Microbiology Second Prize – Athira V P and Likha P S, II BSc Microbiology
Poster making	AIDS - Say No to disease, Not to Diseased	First Prize – Joohi Mathew, I MSc Microbiology Second Prize – Disney Davis, I MSc Microbiology
Collage		First Prize- Swetha Jeevan



14. 21 December 2016

Our III DC student Ms. Meera VM was elected as the prestigious ‘GEM of St. Mary’s’ of academic year 2016-17. Our II PG student Nima Lawrence was the Second Runner up.



15. 13 January – 16 January 2017

III DC College tour was organized to Mysore & Sravana belegola on 13-16 January 2017. We left our college at 11.00 on the night of 14 th January and reached Mysore at 7.30 in the 15 th morning. Our first destination was Chamundi hills .It was an excellent place for shopping and everything was available at the bargained price. Chamundeshwari Temple is located atop the Chamundi Hills. It was renovated during the time of Krishnaraja Wodeyar. We then proceeded to the Mysore palace .The Palace of Mysore is a palace situated in the city of Mysore in southern India. It is the official residence of the Wodeyars, the former royal family of Mysore, which ruled the princely state of Mysore .It was very interesting and informing but sadly, videography was not allowed. The palace is surrounded by a large garden. The entrance gate and arch hold the emblem and coat of arms of the kingdom of Mysore. We saw the Kalyana Mantapa, or marriage hall . Its floor displays a beautiful peacock mosaic. The portraits of former rulers and soldiers' celebrations was really a grant sight. After lunch we proceeded to the summer palace of Mysore Tipu Sultan's dream destination, is an example of incorrect architecture and was the summer residence of the Mysorean ruler .The structure was built entirely teak and stands adorned with pillars, arches and balconies. It is believed that Tipu Sultan used to conduct his durbar (court) from the eastern and western balconies of the upper floor. The rooms in the ground floor have been converted into a small museum showcasing various achievements of Tipu Sultan and his administration. There are newly done portraits of the people and places of that time.

We spent the beautiful evening in brindavan gardens. The Brindavan Gardens is a garden located

in the state of Karnataka in India. It lies adjoining the Krishnarajasagara dam which is built across the river Kaveri. The work on laying out this garden was started in the year 1927 and completed in 1932. After dinner we stayed at Mysore. 16 th January , we started our journey to sravan belagola after breakfast. The Gommatheshwara statue at Shravanabelagola is one of the most important tirthas (pilgrimage destinations) in Jainism, one that reached a peak in architectural and sculptural activity under the patronage of Western Ganga dynasty of Talakad. The Gommatheshwara statue at Shravanabelagola is one of the most important tirthas (pilgrimage destinations) in Jainism, one that reached a peak in architectural and sculptural activity under the patronage of Western Ganga dynasty of Talakad. The sight of the statue was magnificent. After lunch, we proceeded to coorg. We reached the bamboo forest in the afternoon. It was the best place to enjoy the nature during. Then take a walk towards the deer park and land up in the river .Over all we had great time by playing with river. There was a shopping hub right outside the park to get some local , all were enjoyed our shopping. After dinner we started our return journey back to Thrissur.



16. 1 February – 3 February 2017

Department also organized a 3 day training programme on Hazard Analysis and Critical Control Point concepts. The resource person was Dr. N. Anandavally, UN-FAO

Consultant in HACCP. III DC students of Microbiology & Biotechnology and teaching staff attended the training programme.



17. AN INDUSTRIAL VISIT TO C-MET FOR I AND III DC STUDENTS

Venturing the outside world rather than keeping some limited knowledge from books is always quite interesting and useful. Things we get to know through our own sense of touching and learning matters is every time another experience for getting to know something much closer and building in ourselves an enthusiasm which knows no bounds.

The first and third DC students of the Department of Microbiology conducted an Industrial Visit on 28-2-2017, the day we celebrate as National Science Day. Twenty six of our students under the guidance of our tutors Dr. Mabel Merlen Jacob and Dr. Deepa G Muricken visited C-MET (Centre For Materials Electronics Technology), one of the industry researching and developing (R&D) electronic materials for industries and other companies. C-MET established in 1990 is located in Athani, Thrissur and has branches in Pune and Hyderabad. The centre works with a unique mission and vision of serving the society by research and development of electronic materials. The products and technologies developed are then handed over to huge industries like ISRO. The main products on which C-MET centre is researching on are Ceramics, metals, Semiconductors, Glasses, Aerogel, etc.

Reaching C-MET Centre, firstly had an opening session on introduction to Electronics. Basic things on Electronics and model for researching on electronics, the objective of C-MET,

products of C-MET as well as various possible applications in biological fields etc. were well explained by one of the faculty of C-MET.

The laboratory visits started with the **Advanced Electronics Material Laboratory** where we saw **Thin Film (Transparent Electronics) and Photovoltaic solar cell**. Photovoltaic cells are the best known as a method for generating a power mainly electric power by using solar cell to convert energy from the sun into a flow of electron. Solar cells produce DC electricity from sunlight which can be used to power orbiting satellites and other. Solar cells like Gallium Arsenide solar cells, having high efficiency are developed in C-MET which are used for satellite application. **Capacitors** are mainly developed in C-MET for using them as batteries. They have developed power banks with capacitors which are used to charge electronic materials. **Thermal sensors** are used to detect temperature. They are mainly used in refrigerators and Air conditioners. They sense temperature of body and tells how much a human's current temperature is. With an accuracy as high as 0.001 unit, they are used in satellite applications. They are also used to detect cancer. Cancer cells have more heat and high temperature than normal cells and hence can be detected using these. For detection of soft tissue cancers like breast cancer where muscular tissue does not cause interference, these electronic equipments are highly useful. It is more effective than Mammography. These thermal sensors are now used in Malabar Cancer Centre.

Next visited the **Thin film forming lab** where Aerogel preparation was the main research. Aerogel is an eco-friendly, ultra-light material with a very low density and little thermal conductivity. It is fairly translucent, yet has a rough texture when touched. We also visited Process Laboratory where we got to know about microwave substrates. BMT which is a microwave substrate researched and developed by C-MET is now used by ISRO. Another fascinating experience was the Scanning Electron Microscope in the Process Laboratory where we got to see the surface scans of many common structures like pollen grains, different substrates C-MET is working on etc. It was an informative and good industrial visit where we got to know about something different from what we study. We really enjoyed the industrial visit since experiencing things is always a better and innovative way to acquire knowledge and to open our horizons.



The Department of Microbiology, St. Mary's College participated in the Karunardram on 17-February-2017. The students of both UG and PG courses as well as the teachers brought an extra pack of lunch to distribute among the needy. Almost 100 food packs were donated.



18. Expert Class on Bioinformatics (21-March-2017)

For II DC Microbiology students by Mr. Shyam Mohan, HOD, Department of Bioinformatics, UC College, Aluva. The class provided a detailed

