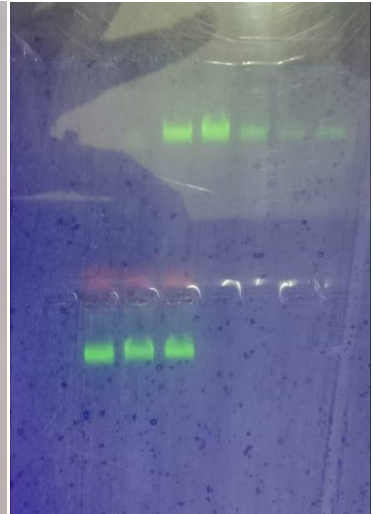
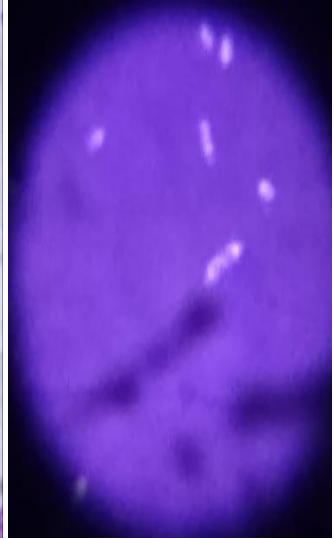
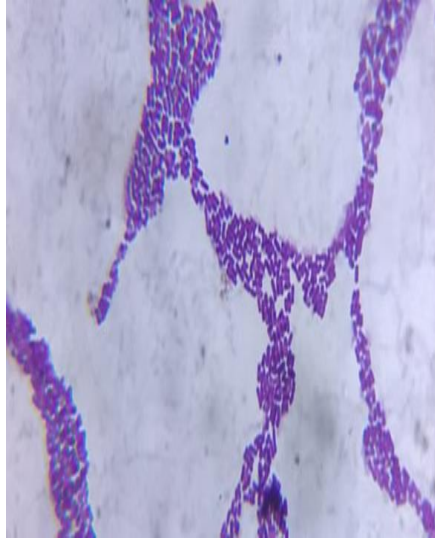


# DEPARTMENT OF MICROBIOLOGY

## UNIVERSITY COLLEGE, MANGALORE

### Departmental Activities 2016-21



<b>Program conducted</b>	<b>Number of participants</b>	<b>Duration (From-To)</b>	<b>Objective /Link to the activity report on the website or</b>
<b>2016-17</b>			
1.Yoga-To Improve Concentration	<b>70</b>	21 <sup>st</sup> July 2016	To practice Yoga
2.Blood Group testing camp	<b>67</b>	1 st October 2016	To know the blood group of student
3.Cancer Research and Recent Updates	<b>110</b>	26 August 2016	Cancer awareness programme
4.“DST-INSPIRE SCIENCE INTERNSHIP CAMP -2016” Sponsored by Department of Science and technology, Govt.of India	<b>169</b>	24 <sup>th</sup> to 28 <sup>th</sup> November 2016	To spread the awareness of DST inspire schemes for students , Basic science and interaction with great scientist.
5.Patents and Intellectual Property Rights’	<b>65</b>	12 January 2017	Information on IPR and patents
6.how to write science article in Kannada	<b>20</b>	17 January 2017	Kannada Article writing skill improvement.
7.How to write science article in English	<b>20</b>	23 January 2017	English Article writing skill improvement
8.Food Safety and Standards	<b>40</b>	3 rd February2017	Awareness on food safety and <i>FSSAI</i>
9.N-List Awareness Program	<b>25</b>	8 <sup>th</sup> February 2017	To know the journals in N-List
10.Career Guidance program	<b>42</b>	February 2017	Guidance on career guidance and Job opportunities.
11.Microbiology Day and Hobby exhibition	<b>30</b>	18 th March 2017	To boost hobbies of students through exhibition
<b>2017-18</b>			
12.Monsoon Health Awareness” and “Students Stress	<b>35</b>	13 th July 2017	Dengue and Malaria prevention and awareness programme
13.Health Awareness Program” was conducted at Govt. Primary School at Pandeshwara	<b>56</b>	17 <sup>th</sup> August 2017	Hand hygiene programs
14.Peoples Biodiversity Register (PBR) Training Program	<b>18</b>	18 <sup>th</sup> August 2018	Biodiversity act information awareness.
15.Health Awareness Program” was conducted at Govt. Primary school at Kudupu.	<b>61</b>	22 <sup>nd</sup> August 2018	Hand hygiene programs
16.“DST-INSPIRE SCIENCE INTERNSHIP CAMP -2017” Sponsored by Department of Science and technology, Govt.of India	<b>200</b>	14 <sup>th</sup> to 18 <sup>th</sup> November 2017	To spread the awareness of DST inspire schemes for students, Basic science and interaction with great scientist.
17.One day Soft skill development Workshop On ‘Table manners and Etiquettes” and “Self Awareness and Communication Skills	<b>51</b>	23 <sup>rd</sup> December 2017	Table manners and communication skill training

18. Health awareness and Dental Camp” organised in association with Inner wheel club on at Marakada school, Mangalore.	163	28 <sup>th</sup> December 2017	Dental hygiene awareness for school children
<b>2018-19</b>			
19. Fish vaccination using outer membrane proteins	17	3 <sup>rd</sup> July 2018	to know the Vaccination procedure
20. Microbial enzymes and their Applications”	25	28 August 2018	
21. ‘Medical Lab Diagnostic test camp ’by MEDENNOV8 team	50	12 <sup>th</sup> September 2018	lab tests for Health check up for staff of the college
22. Applications of Fold scope	43	21 <sup>st</sup> December 2018	Awareness on how to use foldscope.
23. Foldscope	21	28 <sup>th</sup> December 2018	Awareness on how to use foldscope.
24. ‘Igniting Interest in Basic science’, an interaction programme for high school students of summer camp under CPE scheme of UGC	<b>28 students of 10 different schools</b>	11 <sup>th</sup> and 12 <sup>th</sup> Jan 2019.	Teaching science to school children.
25. “DST-INSPIRE SCIENCE INTERNSHIP CAMP -2018” Sponsored by Department of Science and technology, Govt. of India	198	24 <sup>th</sup> to 28 <sup>th</sup> November 2018	To spread the awareness of DST inspire schemes for students, Basic science and interaction with great scientist. <a href="https://www.mangalorean.com/students-should-aim-high-work-tirelessly-acp-manjunath-shetty-at-inspire-science-camp/">https://www.mangalorean.com/students-should-aim-high-work-tirelessly-acp-manjunath-shetty-at-inspire-science-camp/</a>
26. Soft Skill Development on Stress Management by Dance Therapy	50	February 2019	To know DANCE as stress burster.
27. Hand Hygiene Program	152 Schools	Vacation time	Health awareness
28. Foldscope demonstration workshop at Guwahati School	35	23 June 2018	workshop on how to use foldscope
29. Foldscope Program at Meghalaya	120	22 June 2018	workshop on how to use foldscope
<b>2019-20</b>			
30. Alumni meet of Microbiology students	28	2 <sup>nd</sup> June 2019	to interact with alumnies
31. Seminar and Hands on workshop on “Polymerase Chain Reaction-PCR”	50	30 <sup>th</sup> August 2019	<a href="https://www.newskarnataka.com/campus/inter-college-workshop-on-polymerase-chain-reaction-held-at-university-college">https://www.newskarnataka.com/campus/inter-college-workshop-on-polymerase-chain-reaction-held-at-university-college</a>
32. Alternative to Plastic” Exhibition and sale done at Ravindra Kalabhavan by microbiology department with Association with NSS	OPEN TO ALL	<b>September 2019.</b>	BAN PLASTIC campaign

33.DST-INSPIRE SCIENCE INTERNSHIP CAMP - 2019” Sponsored by Department of Science and technology, Govt.of India	200	14 <sup>th</sup> to 18 <sup>th</sup> November 2019	To spread the awareness of DST inspire schemes for students ,Basic science and interaction with great scientist.
34.“Current Scope and Science Reporting of Journalism”	30	21 <sup>th</sup> August 2019	Science reporting in Journalism educative talk
35.Two Day Bioinformatics Workshop’	20	20 and 21 st January 2020	Skill development in Bioinformatics
36.150 <sup>th</sup> year celebration of University college, Exhibition	Open to ALL	February 6 th to one week	To show case all the useful activities in Microbiology and
<b>2020-21</b>			
37.E-Seminar How to read Scientific Literature Seminar	45	12 <sup>th</sup> June 2020	Collaborative webinar on literature with IISER,Pune
38.International E conference on applications of foldscope 2020	137	20-21 <sup>st</sup> June 2020	Foldscope application educative conference. <a href="https://www.cityairnews.com/content/international-conference-on-foldscope-and-its-applications">https://www.cityairnews.com/content/international-conference-on-foldscope-and-its-applications</a>
39Webinar on “use of essential oils for covid -19 cure”	101	3 rd June 2021	Educative webinar on using essential oils to cure covid infection
40. Virtual Environment day celebration	All microbiology students	5 th June 2021	Awareness on green earth and promote plantation .
41.Journey of my innovation ‘Assistive Oral Care Device	56	7 th June 2021	To know the journey of start up
42.Virtual Traditional Day	Microbiology students	9 th June 2021	Celebration –for a change amidst online classes to cheer op students
43. Students hobbies presentation	Activity to all students of microbiology		To promote extra circular activities of students
44.Collage of food spoilage	activity to final B.Sc		To study the food spoilage in Mansoon –Home project
45. Chromatography experiment	Activity to second year		Learning chromatography -Home project
46.webinar on IPR and technology transfer in academics &startups	60	14 <sup>th</sup> July 2021	Educative programme on IPR AND START-UPS
47. Notice board activity	July - August 2019 held for 19-20 second year batch		To promote drawing and reasoning skills in students

<b>FIELD VISIT BY FINAL YEARS</b>			
<b>2016-17</b>	1.Agricultural and Horticultural Research station Ullal. 2Alvas Pharmacy Yogaraja Arogya Dhama Moodabidre.	30/7/2016  9/7/2016	To know agricultural practices and research
<b>2018-19</b>	Sewage Treatment Plant,Mullakad	10/08/2018	To know the Practical method of sewage treatment
<b>2019-20</b>	1.visit to Campco chocolate factory putturu  2. Visit to K-Teck park	July 2019	To know the practical method chocolate preparation and microbiology tests done for chocolate quality and safety  To know the start up facilities

**Agaje Gowri and Aishwarya shenoy of present 3rd B.Sc microbiology (CZM) students got Indian's fellowship. It is a project call under' waste to wealth. SSF- Swacchatha Sarathi Fellowship one year fellowship.**

### **Community Service**

**Water testing is been done as a service to community. Physical and chemical testing was done and from August 2017 chemical parameters are also tested as an extension activity of the department.**

**In the Department of Microbiology between 2016-2021 various Seminars, Workshops talks and Career Guidance Program were organized by Microbiology department for the benefit of the students. Reports of the program are given bellow.**

**1. “Yoga-To Improve Concentration” Program was held on 21st July 2016 at UGC room by Dr.Thirumaleshwara Prasad.H from Mangalore University.**



Dr. Thirumaleshwara Prasad. H, gave useful information highlighting the concepts of Yoga, Asanas, Prana and Pranayama. He explained about Yoga Therapy and the importance of healthy food habits to keep ourselves physically and mentally fit. The asanas to improve concentration by Thatakasana and Shavasana were demonstrated to the students. He encouraged the students to do yoga compulsorily 40 minutes in the morning.

**2. “Cancer Research and Recent Updates” informative talk was held on 26 August 2016 at Shivaram Karanth Hall by Dr.Prabhakar.B.T from Sahyadri College, Shimoga.**



Dr Prabhakar B T, explained the current affairs of cancer research. He informed about Angiogenesis-formation of new blood vessels from pre-existing one leading to cancer. The signs, symptoms and Angina of Cancer were displayed. He highlighted taking tobacco in any form is sure to result in 100% of Oral Cancer. To keep cancer at bay regular exercise is must, high fat foods should be avoided and eating vegetables like cabbage, carrot and fruits is beneficial to be healthy.

**3. “Blood Group testing camp for NCC Cadets of Army and Navy wing was held on 1<sup>st</sup> October 2016 at Microbiology Lab.**



Blood grouping of 67 students was done by Staffs of Microbiology and Final year students and results

**4. DST-INSPIRE SCIENCE INTERNSHIP CAMP -2016” Sponsored by Department of Science and technology, Govt.of India** was organized by Dr.Bharathi Prakash, Head, Department of Microbiology of University College, Mangalore as Coordinator. It was conducted at regional science centre, Pilikula from 24<sup>th</sup> -28<sup>th</sup> November 2016. Total 200 students registered for the camp and 169 students attended this 5 days residential inspire internship science camp.

INSPIRE CAMP was inaugurated by **Honorable Vice Chancellor of Mangalore University, Prof K.Byrappa** on the 24<sup>th</sup> Nov. **Dr.Bharathi Prakash Coordinator** of DST-INSPIRE SCIENCE INTERNSHIP CAMP introduced the camp details to the audience and Dr Udayakumar MA, Principal of University College, Mangalore, welcomed the gathering. Prof.Suresh A Kattera, Honorary Professor, Centre for Nano and soft matter Science, Bangalore was the Chief Guest and Keynote speaker. Smt. Gayathri Nayak .KAS officer Excecutive Director, Pilikula Nisargadhama, Pilikula, was present during the occasion.

A 5 days Inspire Camp was scheduled with morning 1 hour yoga and meditation. From 9 am onwards there were 3 to 4 sessions from the scientists. They informed students, about the importance of basic sciences and its research .They gave an insight about how to make their research application oriented and useful to the mankind. They also directed students how small ideas and research has been helpful to the society, also the status of research in India and other country. Afternoon sessions were based on the practical oriented demonstrations and visitto well-equipped research laboratories of Mangalore University at Konaje. (CAART, PURSE, CARER, MICROTRONR, ZOOLOGY SHELL MUSEUM, AND BIOSCIENCE DEPARTMENT) and also visit to the biological park of Pilikula, Science centre, Zoo. In the evening, there were scientist’s invention skits, Group discussion and science related short films based on success stories of Nobel Laureates and scientist were exhibited.



**DST sponsored ‘INSPIRE- SCIENCE INTERNSHIP RESIDENCIAL CAMP’ was conducted by Microbiology Dept. of University College and inaugurated by Honorable Vice Chancellor of Mangalore University, Prof. K. Byrappa on the 24<sup>th</sup> Nov.2016**



**Participants of‘INSPIRE- SCIENCE INTERNSHIP RESIDENCIAL CAMP’ sponsored by “DST” conducted by Microbiology Dept. of University College, Mangalore**

The main intention of the programme was to inspire the students about basic sciences and its application oriented research and to spread its awareness. A book on ‘Renowned 50 scientists’



and a science kits comprising Microscopes, Daniell cells, DC Generators and electrolysis demonstration kits were distributed to all the participants of the INSPIRE camp.

On the 5<sup>th</sup> day of the Inspire science camp on 28<sup>th</sup> November 2016, Prof.J.Ishwara Bhat, Department of Chemistry, Dean, Dept. of science and technology, Mangalore University, Mangalore and Prof. K. V. Rao, Director, Pilikula Regional Science Centre, Pilikula. Mrs.Sumangala of Microbiology dept. anchored the programme. Inspire camp participants told that camp sessions have widened their horizons of science and gave tremendous information on basic sciences. Camp has guided them to know basically what research is. and how to pursue their goals towards it. They also suggested keeping the camp for one week and increase the camp strength as many other students were interested to attend the camp. Excellent feedback on this camp was given by the inspired camp participants and expressed their opinion to attend the camp next year also.

15 Students of B.Sc microbiology worked as volunteers to the programme enhancing their leadership quality .

**5. on 12 January 2017, Dr. Siddaraju .M.N., Assistant Professor of Botany of University College, Mangalore gave a seminar on ‘Patents and Intellectual Property Rights’.**



He gave information on Indian and US patents and rules and regulations for applying for patents for B.Sc Students.

**6. On 19 January 2017 Avva Prashasthi awarded Prof. Bhuvaneshwari Hedge, from Department of Economics of University College, Mangalore gave a talk to students of First year B.Sc on how to write science article in Kannada .**



She attracted the students to the field of Literature and said to keep on reading books written by famous authors so that they get an idea how to write articles. She also encouraged them to write articles and submit it to her so that she will help them out to improve their way of writing short stories or poems and also said that she will help them to publish and broadcast it.

**7. On 23 January 2017 Prof. AmmaluKutti, from Department of English of University College, Mangalore gave a talk on “How to write science article in English”.**



She gave a description of types of articles and spoke about the way of writing articles. She encouraged the students to write articles and submit to her to do the needful corrections and improve their writing skills.

**8. Dr. Priya Puthan, Chief Consultant, Aurangabad, Maharashtra, on 03.02.17, gave a talk on “Food Safety and Standards”.**



She explained the concept of adulteration, safety measures to be taken in food handling and the importance of Standard ISO, effsai, HACCP. She also spoke about various job opportunities in food sector to students.

**9. “N-List Awareness Program” was held on 8<sup>th</sup> February 2017 at Library. Mrs. Vanaja, Chief Librarian of University College, Mangalore, spoke on N-List and its usage to B.Sc students.**



She demonstrated how to browse the journals, and research papers, through N-List and how to use it in preparation of articles and papers.

**10. Career Guidance program was organized by the Department of Microbiology to provide the exposure of industrial opportunities to students. Dr. Sandesh Kamath, an Industrial Consultant, from Akshara Biogenic, Mangalore, was the resource person for this program in the month of February at Shivaram Karanth Hall.**





He spoke about media formulation and job opportunities in industries.

### **11. “Microbiology Day and Hobby exhibition” was held at Geography Lab on 18<sup>th</sup> March 2017** **Dr.J.N. Bhat, Medical Advisor**



He spoke about common sense, Discipline, health and lifestyle. He said that garlic, walnut, onions, turmeric, tomato etc can enhance the immunity of individuals. He also said that in life do not forget three peoples-Parents, teachers and god. During the program the wine prepared in the department was also tasted and organoleptic evaluation was done. In this program students were given prizes for various competition held by the Department during the academic year.

## 2017-18

**12. Monsoon Health Awareness” and “Student’s stress “program was held at Geography Lab on 13<sup>th</sup> July 2017. Dr. K.V. Ullas Namboodiri, working as branch manager and senior physician at Vaidhyarathnam P.S. Variers, Aryavaidhyasala, Mangalore Branch. He was accompanied by Prajwal P. Shetty, Marketing Executive and Devan. T.K.**



Dr. Ullas Namboodiri first introduced about the Kottakal Arya Vaidya Sala and spoke about role of Diet, Meditation, Yoga and Monsoon diseases. He also told about various Ayurvedic homemade medicines to respiratory diseases, medicines to be taken for cold, fever, headache, worm, herbal mosquito repellents, oral rehydration therapy. Loose motion etc. He also told to avoid too spicy food, curd, cold items, chocolates etc during Monsoon season. He also spoke about stress, causes like physical and emotional stress.

**13. “Health awareness program” was conducted at Govt. Primary school at Pandeshwara on 17th August 2017 .**





About 56 students participated in the program. The program involved the concept of safe hands clean hands, the head teacher of the school Mrs. Vanamala. R.S. was present during the event. The students were asked about how to keep hands clean, different ways of washing hands and songs related to washing hands were taught and the prizes were also given. The most effective method of hand washing was also taught to them. The children participated enthusiastically in the program. The students of II B.Sc of Microbiology participated in the program.

**14. Peoples Biodiversity Register (PBR) Training Program” by Karnataka Biodiversity Board on 18 th August 2017.**





Dr. M Jayakara Bhandary, Srinivas Murthy DFO and Aishwarya of Karnataka Biodiversity board gave an detailed information about Peoples Biodiversity Register preparation and invited Lecturer and Professors to be part of PBR preparation of various gram Panchayat which includes documentation of flora and fauna of medicinal value and traditional knowledge of people in that gram panchayat.

**15. Health Awareness Program” was conducted at Govt. Primary school at Kudupu on 22<sup>nd</sup> August 2017.**



About 61 students participated in the program. The program involved the concept of safe hands clean hands, the head teacher of the school Flavia.M.Tauro was present during the event. The students were asked about how to keep hands clean, different ways of washing hands and songs related to washing hands were taught and the prizes were also given. The most effective method of hand washing was also taught to them. The children participated enthusiastically in the program. The students of II B.Sc of Microbiology participated in the program.

**16. DST-INSPIRE SCIENCE INTERNSHIP CAMP -2017**Sponsored by Department of Science and technology, Govt.of India was organized by Dr. Bharathi Prakash, Head, Department of Microbiology of University College, Mangalore as Coordinator. It was conducted at regional science centre, Pilikula from 14<sup>th</sup> -18<sup>th</sup> November 2017. Total 200 students registered for the camp and 200students attended this 5 days residential inspire internship science camp.



Inauguration programme started with the prayer of Lord Ganesh. Dr Udaykumar M A, Principal of University College welcomed all the participants. Dr. Bharathi Prakash, Head, Department of Microbiology introduced the camp motto to the audience as a camp coordinator. Dr. Umesh Sharma, Scientist from DST, New Delhi inaugurated the inspire camp on 14<sup>th</sup> Nov, 2017. Prof T J Pandian, a Shanthi Swaroop Bhatnagar awardee from Madurai and Prof G D Khedkar, Director of Paul HebertsCenter for DNA Barcoding and biodiversity Studies from Marathwada University, Aurangabad, Prof K V Rao Director of Science center, Pilikula, present in the programme, wished the function all the success. Guest of honour Sri.Prasanna Executive director of Pilikula Nisargadhama encouraged the student to explore science center and announced about the quiz competition to be conducted on swachha Bharat for PUC students at pilikula. Dr



Bharathi Pillar of Computer Science department was the anchor of the programme. Dr Nagaratna of Zoology department concluded the programme with vote of thanks.

A total of 201 Participants from 12 different colleges in and around Mangalore were present for this Inspire camp. For this camp various eminent scientists from well reputed institutes all over India were invited to share their knowledge and interact with camp students. Inspire camp also provided the Hands –on practical demonstrations and field visits along with the regular scientific sessions. The success stories and scientific videos were also displayed for the students. Self-awareness and communication skill talks were included as the evening activities. Science kits were distributed to all the participants.

16 Students of B.Sc microbiology worked as volunteers to the programme enhancing their leadership quality .



**17 One day Soft skill development Workshop On ‘Table manners and Etiquettes’ by Mr Biju and Mr Shraavan Assistant Prof. Motimahal college of hotel management, Mangalore**

and “Self-Awareness and Communication Skills by ShwethaPai on 23 rd. December 2017.

**18. Health awareness and Dental Camp** “was organized in association with Inner wheel club at Marakada school, Mangalore on 28 th December 2017.

On Dec 28th, we conducted dental camp with the help of AJ Institute of dental Science at Kavoor Govt. Primary School.13 Doctors, 1 Hygienist and 1 helper were present. About 150 children were given free the dental checkup .We also gave talk on awareness of hand hygiene and distributed pamphlets to the students .We provided refreshments to the doctors .Total cost of the project Rs.2500



**19.Fish Vaccination using Outer Membrane proteins seminar** By Dr. Biswajit Maisti Asst Professor, Department of Microbiology, Nite University gave talk on 3<sup>rd</sup> July 2018.



He highlighted on Antibiotic resistance and gene cloning and increasing of resistance to diseases in fishes using genes. He also high lightened about the use of bioinformatics in the study of the proteins of fish.

**20. One day workshop was conducted on “Microbial enzymes and their Applications” by ‘ Dr. Avila D’Souza, from Euechem Biological, Research, Analytical laboratory & training Centre, Manipal at Microbiology department on 28<sup>th</sup> August 2018.**



Dr. Avila D’Souza, Euechem Biologicals, Research, Analytical laboratory & training Centre, Manipal was the resource person for the workshop conducted in the department of Microbiology on 28/8/2018. She gave an informative talk on “Microbial enzymes and their Applications”. She highlighted on enzymes isolated from microbes and the *GENERAL PROCEDURE FOR THE*

*EXTRACTION OF ENZYMES FROM MICROBES* and application of enzymes like lipase, protease and amylase etc. She also dealt about ENYMES USED IN FOOD INDUSTRIES, PRODUCTION OF ENZYMES BY RECOMBINANT DNA TECHNOLOGY. She demonstrated the conversion of Starch to Dextrin by using immobilized cells of amylase on Agarose. She also encouraged students to involve themselves in research and also added on global market for enzyme production requirement.

**21. A one day 'Medical Lab Diagnostic test camp' was organized for the staff of**

**University College Mangalore on 7 th September 2018 by MEDNOV8 team of Mangalore**



The team did a series of test including height, weight, BP, Sugar, Thyroid test etc.

**22. One day workshop on Exploring Foldscope by Dr Sheela ,Coimbatore on 21 st August 2018.**



Dr Sheela , Associate Professor at Sri Ramakrishna Institute of Technology gave a talk on identification of microbes in water by using foldscope .

### **23. One day workshop on Foldscope by Vanishree Research Associate, University College, Mangalore on 28 st August 2018**



In the workshop she spoke about paper microscope , how to assembly the paper foldscope microscope and how students observed various organisms like fungi under it .

### **24. 'Igniting Interest in Basic science', An interaction programme for high school students on 11and 12 th January 2019**



University College Mangalore organized Igniting Interest in Basic, an interaction programme for high school students to create interest in basic science under CPE scheme of UGC.

It was a one-week programme to inspire students of High School to take up Basic science as career in future. A total of 28 students of 10 different schools of Mangalore were the beneficiaries of the Programme. On 11/1/2019 afternoon as scheduled students had practical session in Microbiology in two batches. This session was held in Microbiology Lab

**25.DST-INSPIRE SCIENCE INTERNSHIP CAMP -2018** Sponsored by **Department of Science and technology, Govt.of India** was organized by Dr. Bharathi Prakash, Head, Department of Microbiology of University College, Mangalore as Coordinator. It was conducted at regional science centre, Pilikula from 24<sup>th</sup> -28<sup>th</sup> November 2018. Total 200 students registered for the camp and 198students attended this 5 days residential inspire internship science camp.





**Blood Grouping testing at Inspire Camp. Demonstration of Foldscope at Inspire Camp**



The first day of DST Inspire Camp began on 25<sup>th</sup> of November, 2018 with the inaugural function. Prof. ShriniKaveri, Director, CNRS Office in India, Embassy of France, New Delhi, inaugurated the function by lighting the lamp. He gave a keynote speech on the topic “The importance of environment on the society; and our responsibility; The role of science.” Students were enlightened about the societal challenges and their role in it. Dr. G D Khedkar, Director, Paul Herberts centre for DNA Barcoding and Biodiversity studies, released the INSPIRE magazine. The ‘Hand Hygiene Campaign’ magazine was released by Prof. A M Khan, Registrar, Mangalore University, Mangalore.

The Valedictory programme of DST – INSPIRE Camp began at 12pm on 29<sup>th</sup> of November. Dignitaries adorning the dais were Dr K V Rao, Dr Uday Kumar M A, Manjunatha Shetty, Asst. Commissioner of Traffic Police, Mangalore and Dr BharathiPrakash. Dr Bharathi

Prakash, co-ordinator of the inspire camp 2018 gave a brief bulletin of the entire camp held for 5 days at the Pilikula Campus. Dr K V Rao addressed the student mass with his inspiring words for the departure of the camp. Varun from SM Khushe PU College and Jayashree from SDM PU College delivered their feedback on behalf of the student mass. Chief guest of the programme; Mr Manjunatha Shetty addressed the gathering with his motivational words. He also shared with the crowd his student life experiences and implored the students to shape their future into beautiful success with their hard work. Certificates and prizes for the various competitions were given away. Dr Uday Kumar M A, Principal of University College, Mangaluru delivered the presidential address imposing the young generation of today for tomorrow's future success. Dr UdayKumar awarded an appreciation certificate to Dr Bharathi Prakash, Coordinator of Inspire Camp, for 3rd time conducting an Inspire science camp sponsored by DST, New Delhi at Pilikula. Dr Bharathi Prakash delivered the vote of thanks and implored the students to motivate their juniors to participate in future Inspire camps.

14 Students of B.Sc microbiology worked as volunteers to the programme enhancing their leadership quality .

## **26.Soft Skill Development on Stress Management by Dance Therapy by Mrs. Sachitha Nandagopal in February 2019**





Stress management by dance therapy Workshop was conducted for the students and staff of University College on .Stress Management can help your mind and body adapt (resilience). The workshop was organised by Dept. of Microbiology. MsSachitha Nandagopal was the resource person for the programme. MrsP.Vinatta, Mrs. ArunaKumary, Dr .Nagarathna .K.A., Dr.Suresh, Dr. Meenakshi. M.M., Dr.Rathnavathi M.M. and Srujana - the Staff of various departments were part of this Programme and students of Microbiology benefitted from the programme.

## 27.Hand Hygiene Program



To commemorate 150<sup>th</sup> Year of College, BSc Microbiology students conducted 152 'Health and Hand hygiene programme' in various schools in and around Mangalore.7500 Children

## 28. Foldscope demonstration workshop at Guwahati School



Dr Bharathi Prakash gave a talk on Fold scope and its applications at Guwahati School.

## 29. Foldscope Program at Meghalaya



Dr. Bharathi Prakash gave a talk on Foldscope and its applications at Meghalaya school

### **30. Alumni meet of Microbiology students was held on 2<sup>nd</sup> June 2019**



Alumini meet of microbiology students was held in which Shashank A alumni of 2013 outgoing batch at present pursuing his PhD at IIT Bangalore gave a talk on importance of research and about various competitive exams. Alumni shared their experiences in the fields they are working. Every Alumini was gifted with a plant sapling on account of World Environment Day.

### **31. Workshop on Hands on PCR and its application was held on 30<sup>th</sup> August 2019. Dr.Praveen Rai Associate Professor, NUSER,Nitte university, Mangalore and Mr. Shantha kumar,Molecular biology, Himedia Labs Pvt.ltd,Mumbai**



PCR is one of the useful and fundamental techniques in molecular biology and with high research impact. In a simple language it is called as DNA Xerox technique. Prof. Kary Mullis in 1983 first invented PCR technique. As PCR technique has wider research applications, we organised this workshop.

To identify particular organism from any sample like food, water, plant, animal, human especially forensic field and in any gene using a minimal sample as one copy of DNA, PCR Technique is useful in many areas as it is sensitive, quick, accurate and efficient. Later many modifications of PCR with wider applications came into the practice and are still in use in diverse fields.

Department of Microbiology, University College, Mangalore is equipped with basic facilities to conduct Inter collegiate Workshop. For this there were participants from B.Sc Microbiology : twelve from St Agnes College, seven from Alvas College, Moodbidri . Twenty five from M.Sc Microbiology, Bioscience of Mangalore University participated in the Workshop. Two staff from St Agnes and Besant College were present. B.Sc and M.Sc students of Life Science students with three research scholars also attended the Workshop.

The Workshop was inaugurated by Principal Dr. Udaya Kumar.M.A. The resource person for the Seminar was Dr.Praveen Rai,from NUCSER,Nitte University. Hands on Practical course were sponsored by Hi media Labs of Mumbai. Mr. Shantha Kumar and Mr. Gopinath of Hi Media Labs conducted the workshop.

The practical session included DNA extraction from *E. Coli*, then followed by purification of DNA using kit. Then Polymerase Chain reaction and followed by Agarose Gel Electrophoresis and DNA bands were observed by UV Transilluminator. All the students performed the experiment in groups of two and completed the experiment. The workshop was made comfortable with tea snacks at morning and evening including lunch.

The seminar session was organized at Ravindra Kala Bhavan and practical session was conducted at Microbiology Department. There was overwhelming response from the students' participants but the registration was restricted due to the limitation of lab space. With the support of Principal Dr. Udaya Kumar and all the staff of science dept this workshop was successful.

Dr. Bharathi Prakash, Head of Department of Microbiology was the coordinator of the program. This workshop was organised to introduce the students with the basic requirement in

Molecular techniques and application of DNA so that the students get exposed to the procedures of extraction, purification and amplification of DNA by PCR. Mrs. Sumangala. C.H., Lecturer, Department of Microbiology was the Program Incharge and welcomed the gathering and introduced the resource person to the gathering. Ms. Srujana from Department of Zoology, Dr. Siddaraju of Dept. Botany and Dr. Lakshman, Department of Chemistry, Mr. Guruprasad, Department of Journalism were also the part of the program. Mrs Sumangala C H, Mrs. Kalavathi, Lab Technician and Mrs. Usha, Attender from Department of Microbiology were instrumental throughout the programme in managing the participants for all the sessions in the Workshop. Second B. Sc Microbiology students of microbiology volunteered the program efficiently.

We the staff of Microbiology department. thank our Principal Dr Uday Kumar M A, all the staff at chemistry, Journalism, Botany, Zoology and all the other departments for their fullest support and cooperation in making the workshop successful.

### **32. Alternative to Plastic” Exhibition and sale done at Ravindra Kalabhavan by Microbiology department with Association with NSS on September 2019.**



# ಮರುಬಳಕೆ ಆಗದ ಪ್ಲಾಸ್ಟಿಕ್ ವಿರುದ್ಧ ಜಾಗೃತಿ ಪರ್ಯಾಯ ವಸ್ತುಗಳ ಪ್ರದರ್ಶನ

ಪ್ರಜಾವಾಣಿ ವಾರ್ತೆ

**ಮಂಗಳೂರು:** ಮರುಬಳಕೆ ಮಾಡಲಾಗದ ಪ್ಲಾಸ್ಟಿಕ್ ವಿರುದ್ಧ ಜಾಗೃತಿ ಮತ್ತು ಪ್ಲಾಸ್ಟಿಕ್‌ಗೆ ಪರ್ಯಾಯ ಆಗಬಹುದಾದ ವಸ್ತುಗಳ ಪ್ರದರ್ಶನ ಮತ್ತು ಮಾರಾಟವನ್ನು ಸೂಕ್ಷ್ಮಣುಜೀವಿ ವಿಜ್ಞಾನ ವಿಭಾಗ, ಎನ್‌ಎಸ್‌ಎಸ್ ಭಟಕದ ಸಹಯೋಗವೊಂದಿಗೆ ನಗರದ ವಿಶ್ವವಿದ್ಯಾಲಯ ಕಾಲೇಜಿನ ರವೀಂದ್ರ ಕಲಾಭವನದ ಆಯೋಜಿಸಲಾಗಿತ್ತು.

ವಿಜಯ ಪೆನ್‌ಗಳು, ಪೆನ್‌ಸಿಲ್‌ಗಳು, ನೆಡುಬಹುದಾದ ಪೆನ್‌ಗಳು, ಪುನರಾವಳಕೆ ಮಾಡಿದ ಪೇಪರ್‌ನಿಂದ ತಯಾರಿಸಿದ ನೋಟ್‌ಬುಕ್‌ಗಳು, ಸೆಣವಿನ ಬ್ಯಾಗ್, ಕ್ಲೆಪಿಲಗಳು, ಬಾಣೆ ಎಲೆ, ಪೇಪರ್ ಬ್ಯಾಗ್, ಏಟ್ಲಿಯ ಟೀಲಗಳು, ವಿಭಾಗಗಳಿರುವ ಶಾಪಿಂಗ್ ಬ್ಯಾಗ್‌ಗಳು, ಅಡಿಕೆ ಕಾಳೆಯ

## ಜಾಗೃತಿ ಕಾರ್ಯಕ್ರಮ

ಕೆಂದ್ರ ಸರ್ಕಾರ ಅಕ್ಟೋಬರ್ 2 ರಿಂದ ಮರುಬಳಕೆಯಾಗದ ಪ್ಲಾಸ್ಟಿಕ್ ನಿಷೇಧಕ್ಕೆ ತೀರ್ಮಾನಿಸಿದ್ದು, ಇದಕ್ಕೆ ಅನುಗುಣವಾಗಿ ಈ ಪ್ಲಾಸ್ಟಿಕ್ ವಿರೋಧಿ ಜಾಗೃತಿ ಕಾರ್ಯಕ್ರಮ ಆಯೋಜಿಸಲಾಗಿತ್ತು.

ತಟ್ಟೆ, ಪ್ಲೇಟ್, ಬೌಲ್, ಟ್ರೇಗಳು, ತಾವು ಮತ್ತು ಸ್ಪಿಲ್‌ನ ನೀರಿನ ಬಾಟಲ್‌ಗಳು ಆಕರ್ಷಿಸಿದವು. ಕೆಲವು ಮರಿಗಳಲ್ಲಿ ಉತ್ತಮ ಮಾರಾಟವೂ ದಾಖಲಾಯಿತು.

ಪ್ರಾಂಶುಪಾಲ ಡಾ.ಸುಬಯ್ಯ ಕುಮಾರ್ ಎಂ.ಎ. ಉದ್ಘಾಟಿಸಿದ ವಸ್ತುಪ್ರದರ್ಶನದಲ್ಲಿ ಮೈಸೂರಿನ ಜೀವ ಎಕೋಫ್ರೆಂಡ್ಲಿ ಪ್ರೊಡಕ್ಟ್ಸ್, ಧರ್ಮಸ್ಥಳದ ಸಿರಿ ಗ್ರಾಮೋದ್ಯೋಗ ಸಂಸ್ಥೆ ಮಂಗಳೂರಿನ ಅಧ್ಯಕ್ಷಾ ಇಕೋಫ್ರೆಂಡ್ಲಿ ಸಲ್ಯೂಶನ್ಸ್, ಸೇವಾ ಭಾರತಿ ಟ್ರಸ್ಟ್, ಚಿಂತನಾ ಶಾಲೆ, ಹರಿಣ ವಾತಾವರಣ

ಸೈಹಿ ಗೃಹೋದ್ಯೋಗ ಮೊದಲಾದ ಸಂಸ್ಥೆಗಳು ಭಾಗವಹಿಸಿದ್ದವು. ಕುಲಪತಿ ಪ್ರೊ.ಪಿ.ಸುಬ್ರಹ್ಮಣ್ಯ ಯಡವಡಿಯಲ್ಲಿ, ಉದ್ಘಾಟನೆ ನಂದಗೊಪಾಲ ಶೆಟ್ಟಿ ಮರಿಗಳಿಗೆ ಭೇಟಿ ನೀಡಿ ಪ್ರೋತ್ಸಾಹಿಸಿದರು.

ಕಾರ್ಯಕ್ರಮದ ಸಂಯೋಜಕಿ, ಸೂಕ್ಷ್ಮಣುಜೀವಿ ವಿಜ್ಞಾನ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥೆ ಡಾ. ಭಾರತಿ ಪ್ರಕಾಶ್, ಪ್ರೊ. ಸುಮಂಗಲಾ ಎನ್‌ಎಸ್‌ಎಸ್ ಅಧಿಕಾರಿಗಳಾದ ಡಾ. ಗಾಯತ್ರಿ, ಸುರೇಶ್ ಮಾರ್ಗದರ್ಶನವನ್ನು ನೀಡಿದರು.



ಮಂಗಳೂರಿನ ವಿಶ್ವವಿದ್ಯಾಲಯ ಕಾಲೇಜಿನಲ್ಲಿ ಪ್ಲಾಸ್ಟಿಕ್‌ಗೆ ಪರ್ಯಾಯ ವಸ್ತುಗಳ ಪ್ರದರ್ಶನ ನಡೆಯಿತು.

The program was inaugurated by principal Udaya Kumar .M.A. Vice chancellor of Mangalore university and business man Nandagopal Shenoy visited the exhibition .In the exhibition various ecofriendly products were displayed for sale. Products included seed pen jute bags, cotton bags and plates made of arecanut. Mysore Jeeva Ecofriendly products, Dharmashthala Siri products Aadhytha eco-friendly solutions , Chethana school participated in ecofriendly product exhibition

**33.DST-INSPIRE SCIENCE INTERNSHIP CAMP -2019 Sponsored by Department of Science and technology, Govt.of India was organized by Dr. Bharathi Prakash, Head, Department of Microbiology of University College, Mangalore as Coordinator. It was conducted at regional science Centre, Pilikula from 14<sup>th</sup> 18<sup>th</sup> November 2019. Total 200 students registered for the camp and 200 students attended this 5-day residential inspire internship science camp.**



The DST INSPIRE Winter Science Camp held for students scoring above 90.02% in their S.S.L.C began on the evening of 13th November 2019 at Pilikula Science Center, Mangaluru. 204 students had arrived from 18 colleges and were given temporary accommodation in the rooms of Urban Hut among the nature. Everyday till the 18th of November 2019, there was Yoga and held early morning to give the energetic start to the splendid and knowledgeable day ahead. Breakfast was served at 7.30am and everybody was lead to the auditorium of Pilikula Regional Science Centre for the sessions of lectures and hands on by Scientists. All the sessions ended with the questionnaire and interaction session to clear the doubts and answers the young developing minds had.

On 18<sup>th</sup> Nov for the valedictory programmes, Sumangala Madam welcomed the gathering. Student Sudarshan was asked to for the prayer. Principal of the college, Dr.Uday Kumar welcomed the guest on the dais.Dr. Bharathi Prakash was asked to give a brief note of the inspire camp and she congratulated everyone who participated in the camp.

Prof. Lokesh M, Registrar of Mangalore University presided the function. Dr Udaykumar, Principal of the college, Prof. K V Rao., Prof LS Shashidhara, an S S Bhatnagar awardee from Indian Institute of Science education and research of Pune, were present. On the last day students carried lots of camp memories and take home messages. Also in their feedback requested college to conduct such an Inspire camp next year also. Dr Bharathi Prakash, camp coordinator concluded the programme with vote of thanks.

12 Students of B.Sc microbiology worked as volunteers to the programme enhancing their leadership quality .

**34. Talk on Current Scope and Science reporting of Journalism by Guruprasad T. N Department. of Journalism University College, Mangalore, on 28 th August 2019.**



He gave talk on how to write articles in science and how to get it published. He spoke about scope for science students in journalism and job opportunities in journalism field.

**35. Two-day workshop on Bioinformatics held on 20 and 21<sup>st</sup> January 2020 Sridhanya, research assistant RVCE Bangalore.**






In the workshop basics of bioinformatics , sequence analysis and how to decode sequence using BLAST and FASTA were made known.

**36. On Occasion of 150<sup>th</sup> year celebration of University college, Exhibition was held in February 2020 where the microbiology student executed their talent through models chart and creativity**




**37.Webinar on How to read Scientific Literature and introduction to MANAV -The Human Atlas Initiative on 12 th June 2021**



**Mangalore University  
University College, Mangalore**  
(ACCREDITED WITH NAAC 'A' GRADE  
AND A COLLEGE WITH POTENTIAL FOR EXCELLENCE)  
**Department of Microbiology**

**&**

**Indian Institutes of Science, Education and  
Research, (IISER) Pune**  
Organizing a



**Webinar on**

**How to Read Scientific Literature?  
and  
Introduction to MANAV - The Human Atlas Initiative**

**On  
12<sup>th</sup> June 2020 ,Time : 11 – 12 pm.**

**Speaker : Dr. Anupma Harshal W.  
Consultant**

Science Communication and Public Engagement for  
MANAV Project, IISER, Pune.


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COORDINATORS


<p><b>DR. BHARATHI PRAKASH</b> HEAD DEPT OF MICROBIOLOGY</p>	<p><b>DR. UDAY KUMAR M A</b> PRINCIPAL UNIVERSITY COLLEGE, MANGALORE</p>
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[Registration Link](#)  
<https://forms.gle/4JaC6DEqPftDhcPG8>




**DEPARTMENT OF  
BIOTECHNOLOGY**  
Ministry of Science & Technology



**IISER PUNE**



**NCCS**  
National Centre  
for Cell Science



**Persistent**

**38. International E conference on applications of foldscope 2020 on 20 th and 21 st June 2020.**

**Link of the report of E-CONFERENCE**

<https://www.cityairnews.com/content/international-conference-on-foldscope-and-its-application>



**University College, Mangalore**

Re -Accredited with 'A' grade by NAAC, College with Potential for Excellence by UGC



## Department of Microbiology

is organizing a

WEBINAR ON

## Use of essential oils for Covid -19 cure

### Presiding officer

**Dr. Anusuya Rai**

**Principal, University College, Mangalore**

### Resource person

**Dr. Arundev Sharma, Head,**

**Dept. of Biotechnology, Lyallpur Khalsa College,**

**Jalandhar, Punjab**

**Date: 3<sup>rd</sup> June 2021**

**Time: 2.30-3.30 pm.**

**Google Meet Link : <https://meet.google.com/ose-dmki-sev>**

### Coordinators

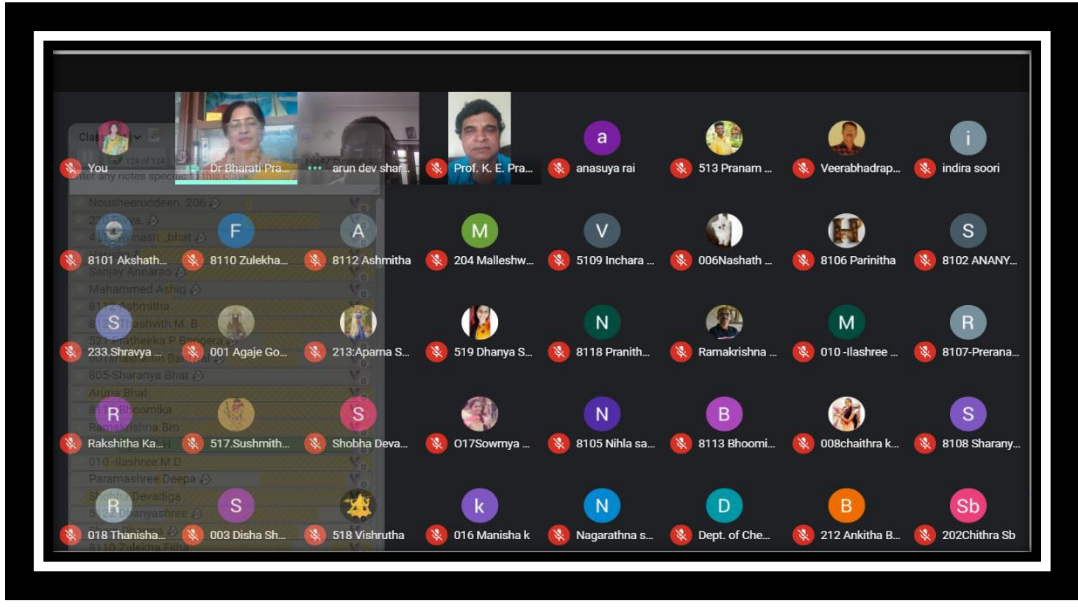
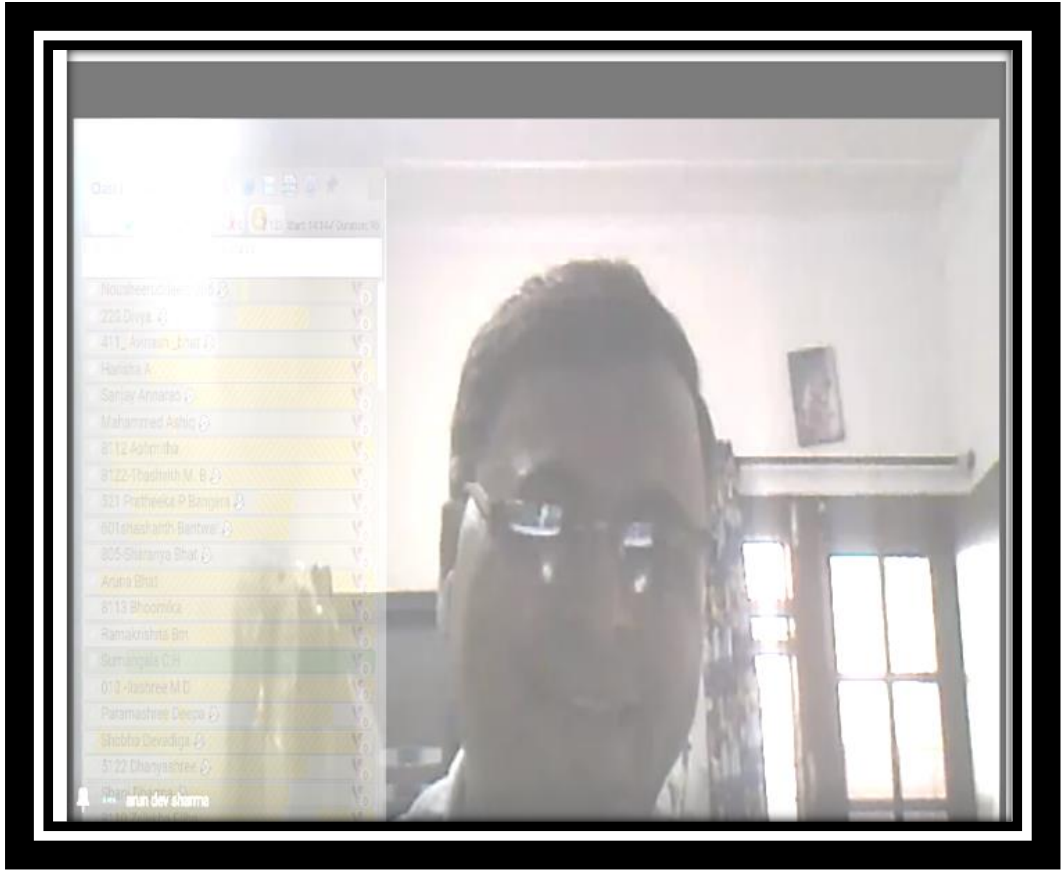
**Mrs. SUMANGALA C. H.**  
Lecturer

**Dr. BHARATHI PRAKASH**  
HEAD

Department of Microbiology, University College, Mangalore

**Webinar on “use of essential oils for covid -19 cure”** was held on 3<sup>rd</sup> June 2021. Dr Arun Dev Sharma Head, Department of Biotechnology Lyallpur Khalsa college, Punjab explained role of essential oils mainly Eucalyptus oil in covid 19 cure. He spoke about characterization of molecule and its action against the covid spike protein. Webinar was attended by 101 participants. The Program began with welcome address by Dr. Bharathi Prakash, Head of Department of Microbiology. Speaker was introduced to participants by Sumangala. C.H.

Dr. Anusuya Rai, Principal of University College wished success and gave the presiding speech and the vote of thanks was rendered by Ms. Kavya of III. B.Sc Microbiology.



Font Paragraph Drawing

**Lyallpur Khalsa College,  
Jalandhar**

**NATIONAL SEMINAR ON  
ESSENTIAL OILS: BIOLOGICAL AGENTS AGAINST MICROBES**

Under the aegis of DST Capacity Building Program  
Hosted by Post Graduate Department of Biotechnology, LKC, Jal.

*DR ARUN DEV SHARMA, HOD, BIOTECHNOLOGY*

Zoom Meeting Interface

Participants:

- You
- Dr. Bharati Pra...
- arun dev shan...
- Dept. of Che...
- intilia soori
- Prof. K. E. Pra...
- laxman kukku...
- anasuya rai

Participant List (Left Panel):

- Veerachhadrap...
- 8101 Akshath...
- 8110 Zulekha...
- 8112 Ashmitha...
- 204 Mallechw...
- 212 Ankitha B...
- 8106 Parinitha...
- 8102 ANANY...
- Mahammed Ashiq
- 8113 Shomitha...
- Shomitha M. B
- 233.Shravaya ...
- 001 Agaje Go...
- 213-Apama S...
- 8118 Pranith...
- 006Nashath ...
- Ramakrishna ...
- 010 -Ilashree ...
- 8107-Prerana...
- 805 Sharanya Bhat
- Anika Bhat
- 8113 Komika
- Rakshitha Ka...
- 517.Sushmith...
- Shobha Deva...
- 519 Dhanya S...
- 017Sowmya ...
- 202Chithra Sb
- 513 Pranam ...
- 8105 Nihla sa...
- 010 -Ilashree M.D.
- Paramashree Daipa
- 8113 Bhoomi...
- 008chaitra k...
- 8108 Sharany...
- 018 Thanisha...
- 003 Disha Sh...
- Surma GR
- harisha a
- ARUNA BHAT

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## 40. Environment Day celebration

On 5 th June 2021 students and staff of microbiology planted plants and sow seeds in their home garden on account of environment Day.





## 2 B.Sc Microbiology Students







Ananya P Shetty



Prerana Rai



Ishara



Ashmitha



Mahalakshmi



Pranitha



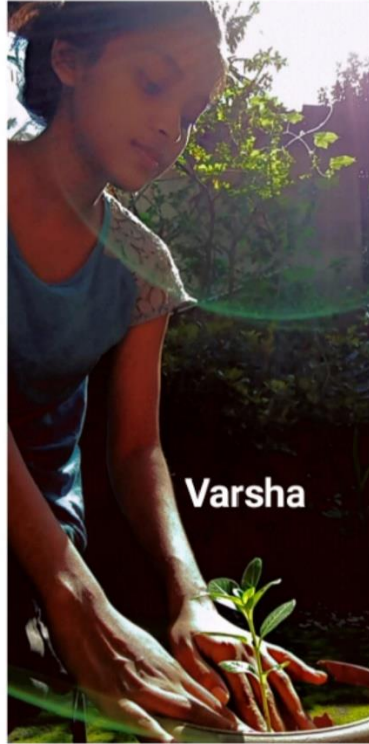
Sharanya



Vaishnavi



Pragna



Varsha



Deepthi



Thashvith



Saksha



Parinitha



41. Webinar on “Journey of my innovation’ Assistive Oral Care Device”” was held on 7<sup>th</sup> June 2021. Dr. Steward Gracian, Sociodent Pvt Ltd and BIRAC BIG Grantee KIIT Technology, KIIT University, Bhubaneswar, explained about innovations, Patents and scholarship available to students. He also spoke about the assistive oral care device and how it can be used for old age and people who cannot brush by themselves. Webinar was attended by 56 participants. The Program began with welcome address by Dr. Bharathi Prakash, Head of Department of Microbiology. Speaker was introduced to participants by Sumangala. C.H. Dr. Anusuya Rai, Principal of University College, wished success and gave the presiding speech and the vote of thanks was rendered by Mrs. Sumangala. C.H.




**University College, Mangalore**  
Re -Accredited with 'A' grade by NAAC, College with Potential for Excellence by UGC

**Department of Microbiology**  
is organizing a webinar on

**Journey of my innovation**  
**‘Assistive Oral Care Device’**

**Presiding officer**  
**Dr Anusuya Rai**  
Principal, University College, Mangalore

**Resource person**  
**Dr. Steward Gracian**  
Sociodent Pvt .Ltd. and BIRAC BIG Grantee KIIT Technology,  
Business Incubator , KIIT University, Bhubaneswar

**Date: 7<sup>th</sup> June 2021**      **Time: 2.30-3.30 pm.**

**Google Meet Link: <https://meet.google.com/ujm-ncgh-tcr>**

**Coordinators**  
Mrs. SUMANGALA C H      Dr. BHARATHI PRAKASH  
Lecturer      HEAD  
Department of Microbiology, University College, Mangalore

steward gracian is presenting

**SocioDent**  
redefining oral care

## ASSISTIVE ORAL CARE DEVICE

A Mouthpiece based Oral Hygiene device which would enable gradual independency in periodic oral hygiene and prevents complications from compromised oral care

**FEATURES**

- Specially Designed Mouthpiece (Universal Sized or Customized)
- Integrated air and water pump + Suction component + Smart Controller
- Necessary tubing and accessories with a inclusive UI

**UNIQUENESS**

- Mouthpiece based inclusive design suitable for dependent individuals
- Effectiveness of oral hygiene doesn't rely on caregivers

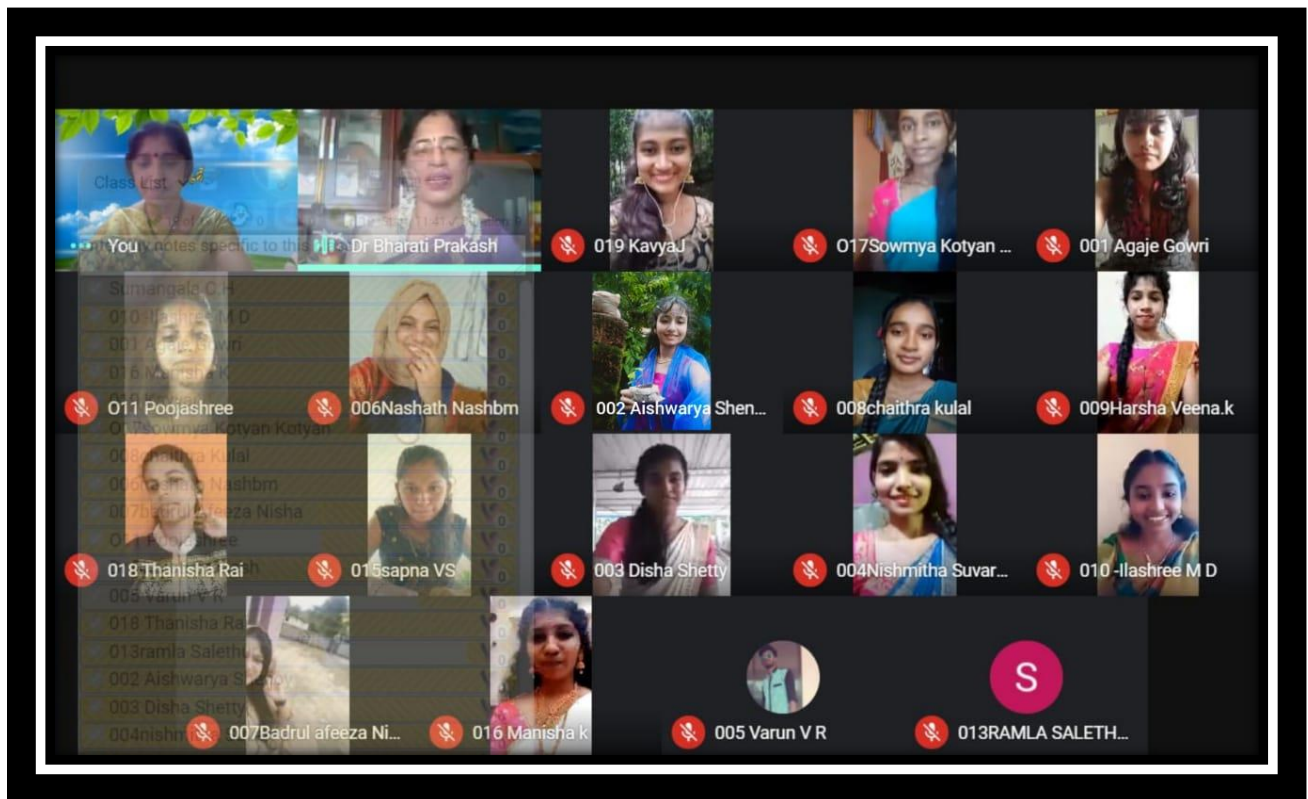
Class List

Enter any notes specific to this class.

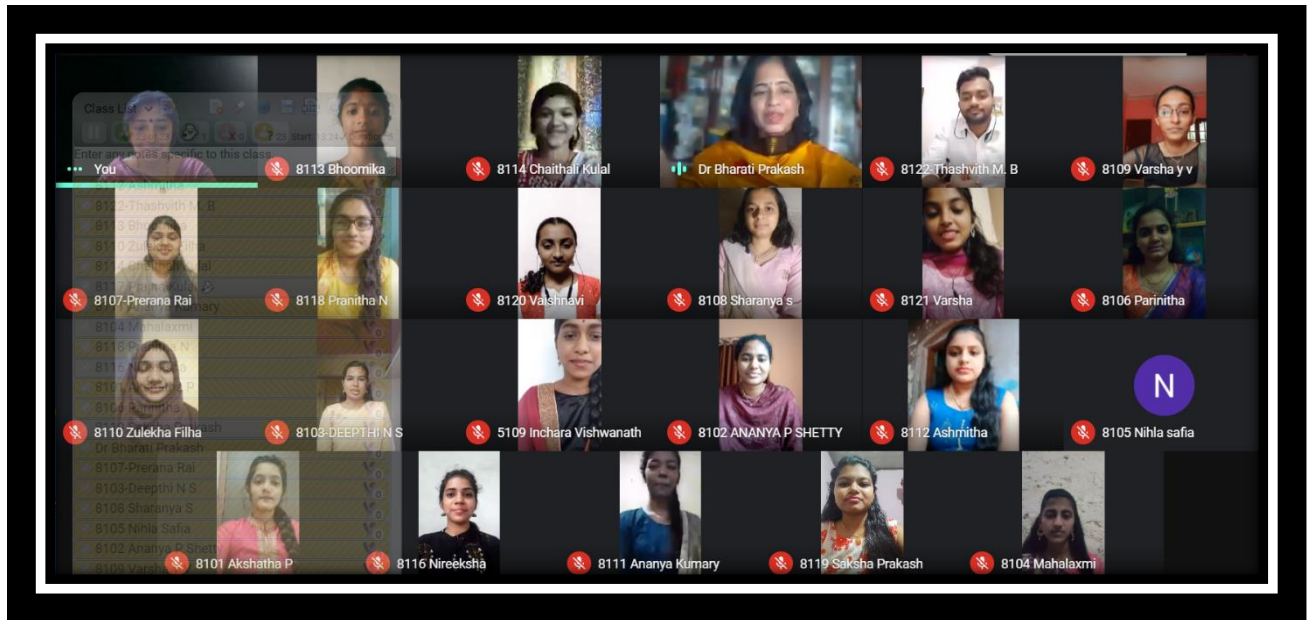
411\_ Anash...  
8112 Ashmita...  
521 Pratheeka P. Bangera  
60Tshashanth Bantwal  
Sumangala C.H  
010... M.D.  
001 Agaje Gowri  
Steward Gracian  
016 Manisha K  
504 Sushrava K  
516 Shru...  
019 Kavyaj  
509...  
01... Koyan Koyan  
225 K...  
Laxma...  
008cha...  
232sh...  
018 Thanisha Rai has left the meeting

## 42. Virtual traditional Day celebration

Virtual traditional day was celebrated on 5<sup>th</sup>, 8<sup>th</sup>, and 10<sup>th</sup> of June 2021 for III.B. Sc, IIB. Sc and I. B.Sc. Respectively. Students presented their talents in form of song, dance and even presented their drawings, crafts, embroideries, paintings. Students actively participated in the quiz related to microbiology, environment and covid. One-minute games were also conducted.

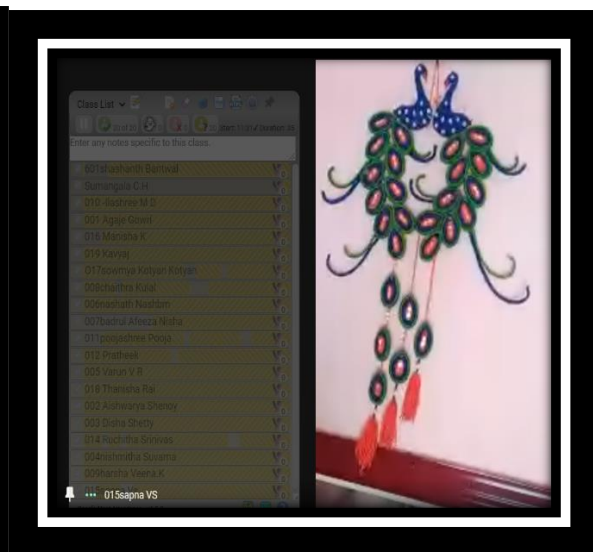
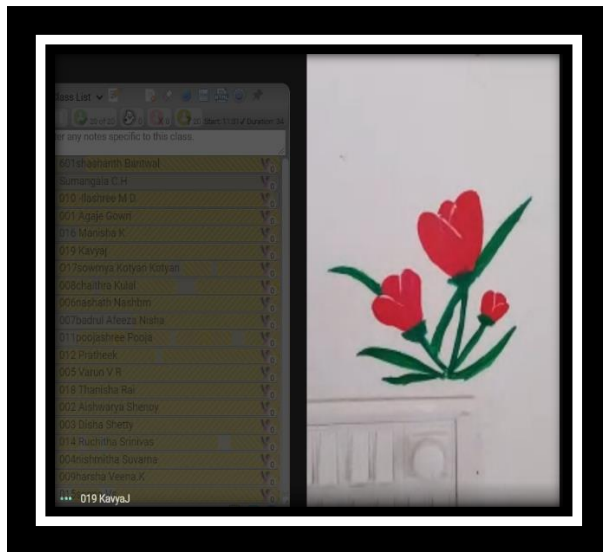






### 43. Students' hobbies presented online

Students presented their talent online and also exhibited their hobbies cultivated during lockdown like stone art, face painting of fictitious characters, wall painting, wall hanging, wool crafts ,cartoon sketches, pencil sketches ,drawing , gardening, music instrumentation ,singing ,dancing etc.



519 Dhanya Shree is presenting

Class List

Enter any notes specific to this class.

- 519 Dhanya Shree
- 518 Pranam Shetty
- 513 Samudra Shetty
- 503 Nouran Sheik
- 520 K Sharanya Rai
- 515 Piyadarsini
- 501 Bhargavi R Nayak
- 510 Lavanya M
- 509 Deepika M
- 511 Nishanth Kumar
- 507 Deepakran Kumar
- 514 Prathiba Kulkarni
- 516 Shreya Kulkarni
- 517 Sushrutha K
- 504 Sushrutha K
- 519 Dhanya Shree

Class List

Enter any notes specific to this class.

- 519 Dhanya Shree
- 518 Pranam Shetty
- 513 Samudra Shetty
- 503 Nouran Sheik
- 520 K Sharanya Rai
- 515 Piyadarsini
- 501 Bhargavi R Nayak
- 510 Lavanya M
- 509 Deepika M
- 511 Nishanth Kumar
- 507 Deepakran Kumar
- 514 Prathiba Kulkarni
- 516 Shreya Kulkarni
- 517 Sushrutha K
- 504 Sushrutha K
- 519 Dhanya Shree

501 Bhargavi R Nayak

Class List

Enter any notes specific to this class.

- 504 Sushrutha K
- 519 Dhanya Shree
- 518 Pranam Shetty
- 513 Samudra Shetty
- 503 Nouran Sheik
- 520 K Sharanya Rai
- 515 Piyadarsini
- 501 Bhargavi R Nayak
- 510 Lavanya M
- 509 Deepika M
- 511 Nishanth Kumar
- 507 Deepakran Kumar
- 514 Prathiba Kulkarni
- 516 Shreya Kulkarni
- 517 Sushrutha K
- 504 Sushrutha K

504 Sushrutha K

Class List

Enter any notes specific to this class.

- 520 K Sharanya Rai
- 519 Dhanya Shree
- 518 Pranam Shetty
- 513 Samudra Shetty
- 503 Nouran Sheik
- 520 K Sharanya Rai
- 515 Piyadarsini
- 501 Bhargavi R Nayak
- 510 Lavanya M
- 509 Deepika M
- 511 Nishanth Kumar
- 507 Deepakran Kumar
- 514 Prathiba Kulkarni
- 516 Shreya Kulkarni
- 517 Sushrutha K
- 504 Sushrutha K

520 K SHARANYA RAI

Class List

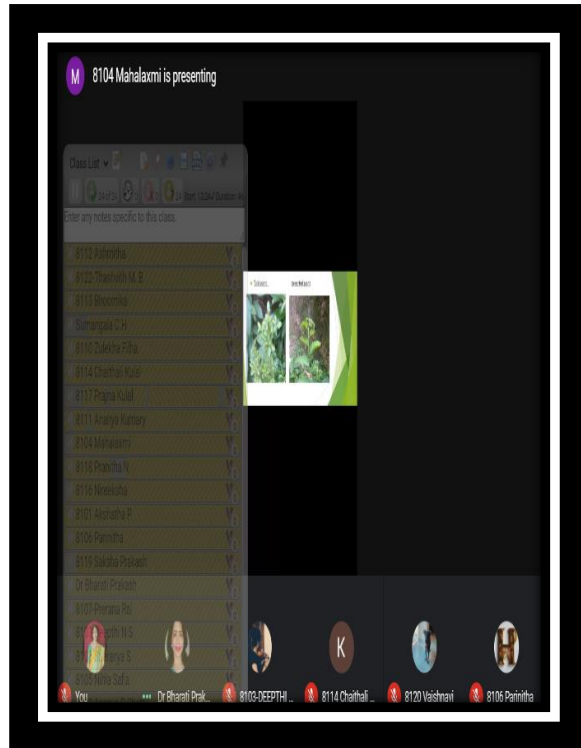
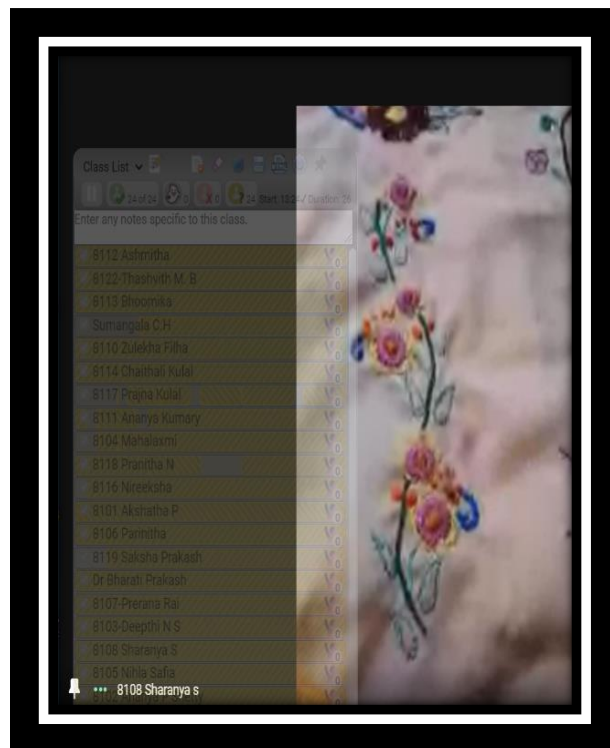
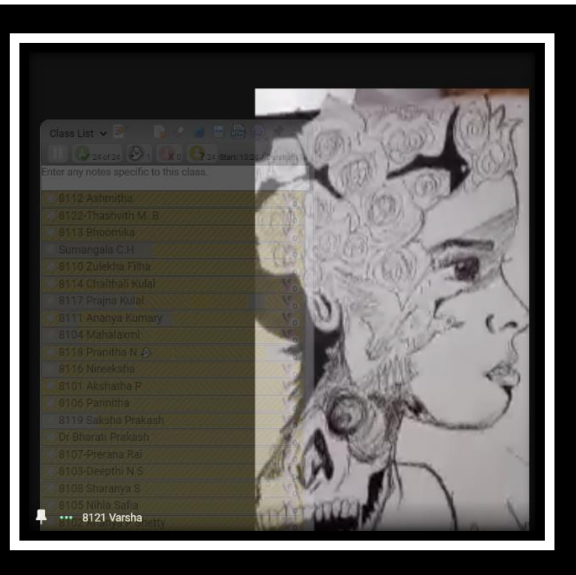
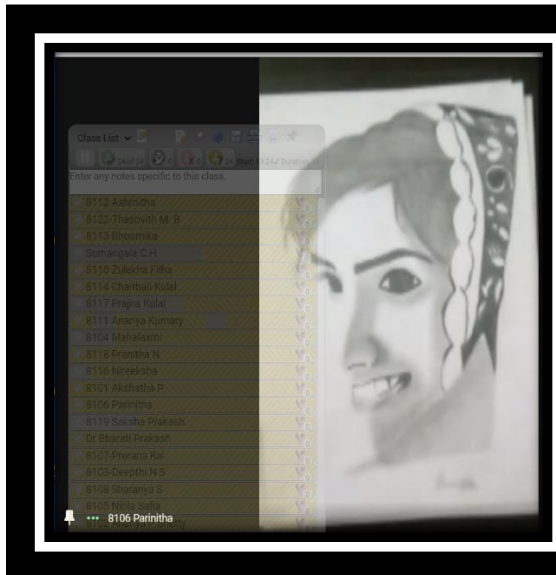
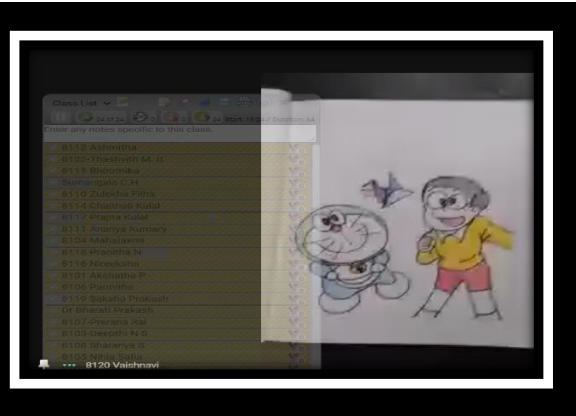
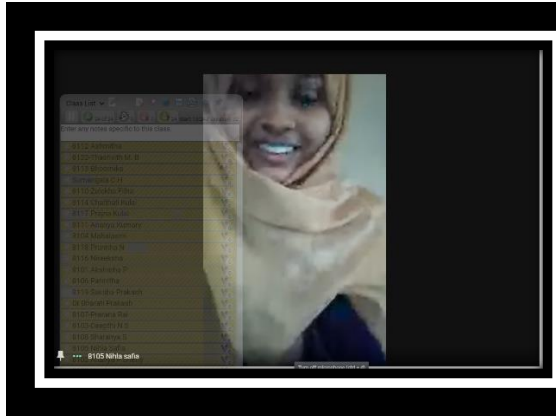
Enter any notes specific to this class.

- 8117 Prajna Kulkarni
- 519 Dhanya Shree
- 518 Pranam Shetty
- 513 Samudra Shetty
- 503 Nouran Sheik
- 520 K Sharanya Rai
- 515 Piyadarsini
- 501 Bhargavi R Nayak
- 510 Lavanya M
- 509 Deepika M
- 511 Nishanth Kumar
- 507 Deepakran Kumar
- 514 Prathiba Kulkarni
- 516 Shreya Kulkarni
- 517 Sushrutha K
- 504 Sushrutha K

8117 Prajna Kulkarni has left the meeting

8117 Prajna Kulkarni





♥one minute art



k sharanya raï



Nishant Kumar Nishanth Kumar



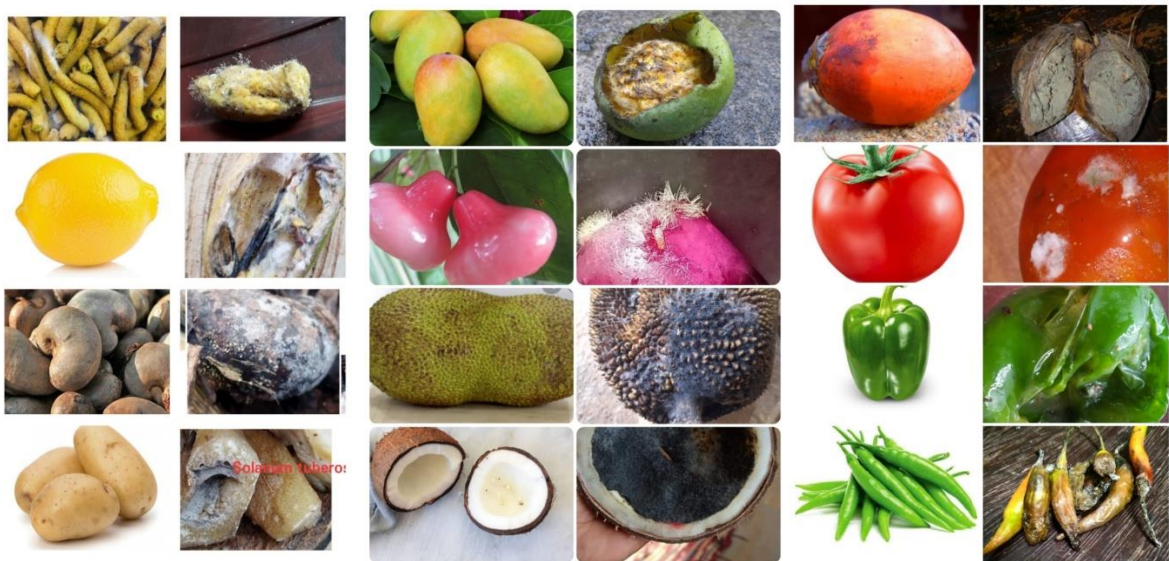
dhanya holla



pranam shetty



**44. COLLAGE OF Food spoilage**





## 45. Chromatography experiment



46.

**University College, Mangalore**  
Re-Accredited with 'A' grade by NAAC, College with Potential for Excellence by UGC



**IQAC and Department of Microbiology  
is organizing a webinar on**



**IPR AND TECHNOLOGY TRANSFER  
IN ACADEMICS & STARTUPS**

President  
**Dr Anasuya Rai**  
Principal, University College,  
Mangalore

Resource person  
**Mr. Pankaj Kumar**  
MHRD Innovation Ambassador & IPR facilitator, IIS  
Deemed to be University, Jaipur

Date: 14th July 2021                      Time: 10:30 AM - 12:30 PM

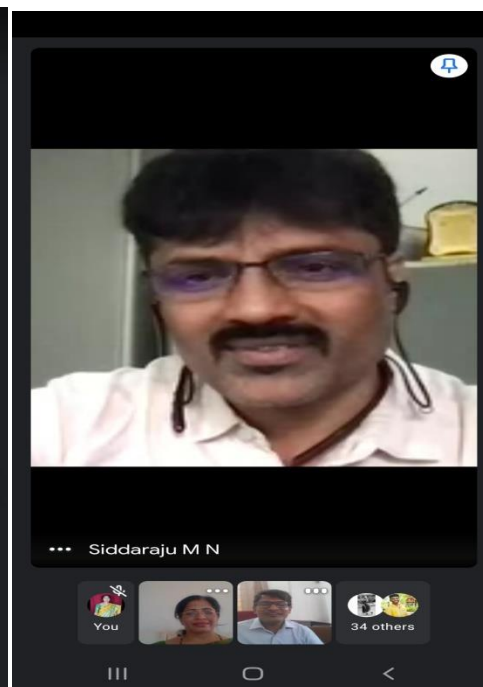
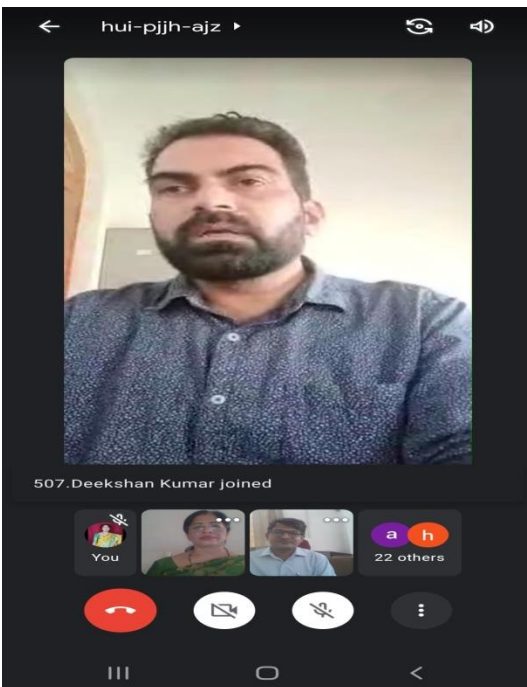
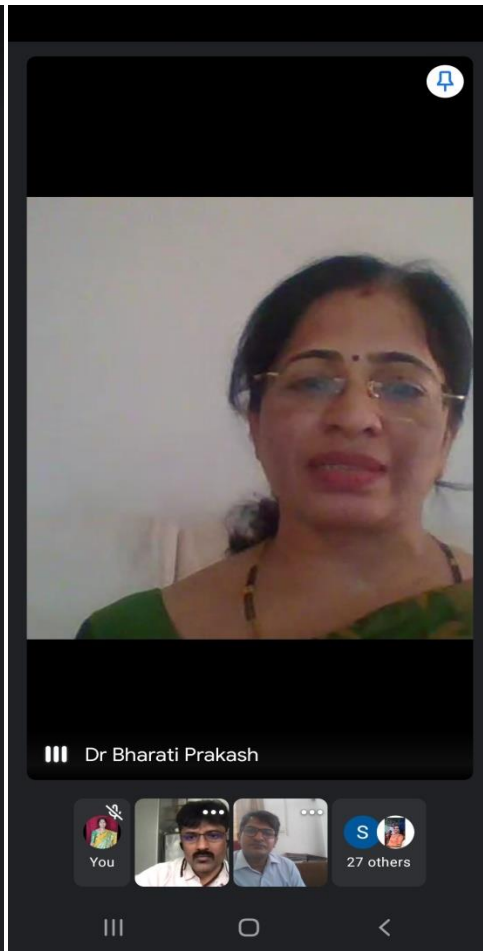
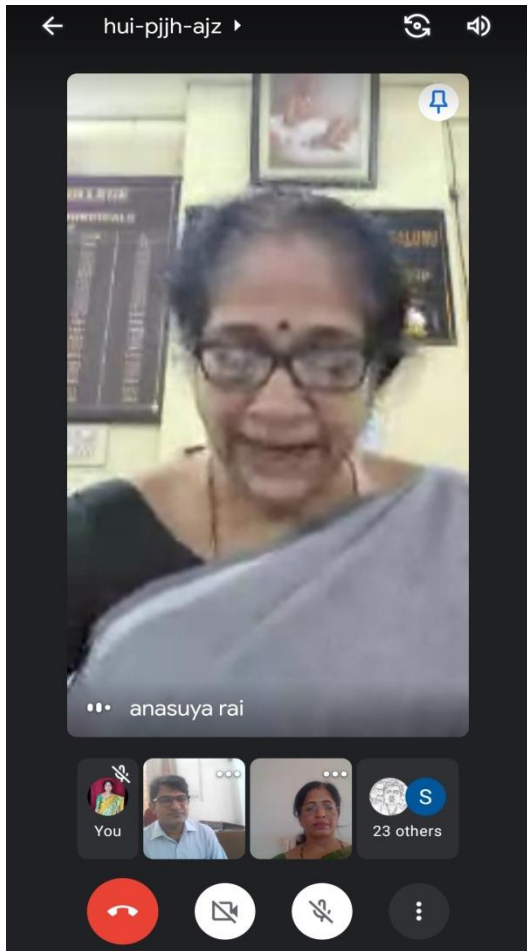
**All are cordially invited**

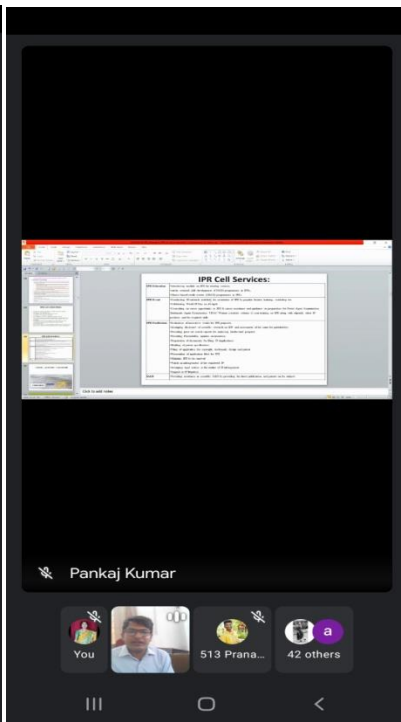
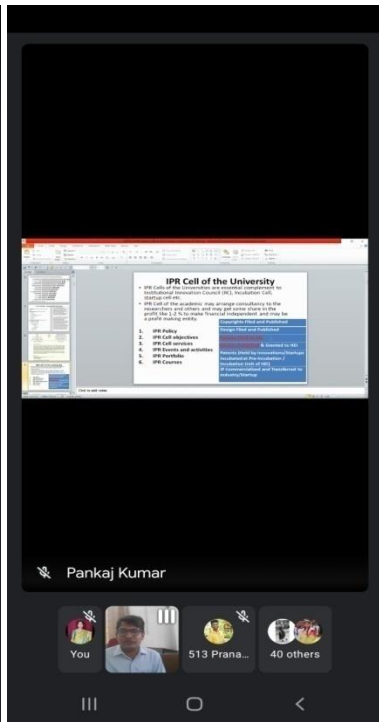
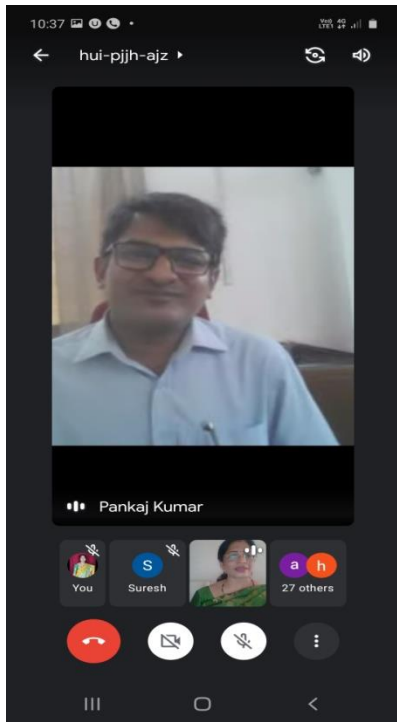
**Coordinators**

**Dr. Suresh**  
Asst. Prof. Economics, UCM  
IQAC coordinator

**Dr. Bharathi Prakash**  
HOD, Microbiology, UCM  
Program coordinator

**Google Meet link: <https://meet.google.com/hui-pjjh-ajz>**







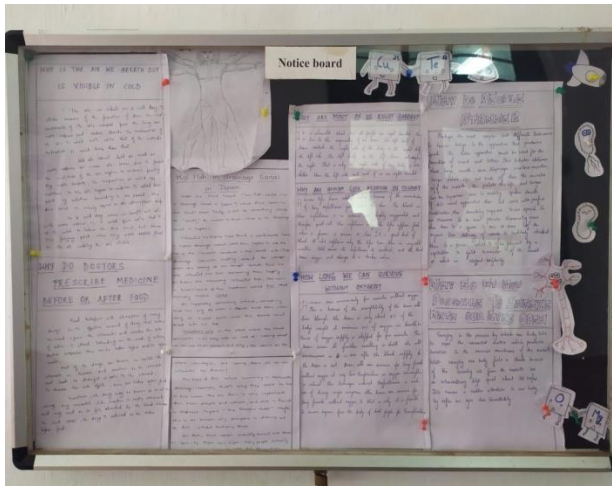
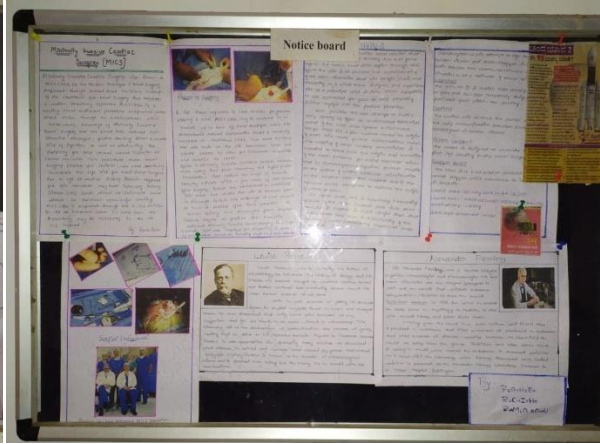
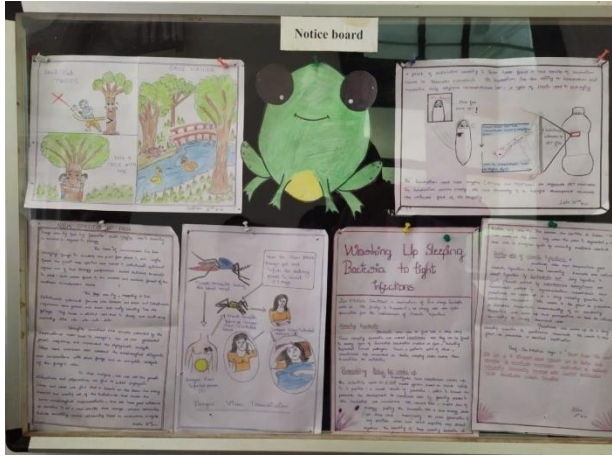
## Report of the program published in various newspaper and media.

- <https://ensamachara.in/vvcollegespecial-lecture-on-ipr-by-dr-pankaj-kumar/>
- <<https://local.upayuktha.com/2021/07/UCM-Special-Lecture-on-IPR.html>>,>
- <https://english.upayuktha.com/2021/07/it-is-high-time-to-have-some-insights.html>

**47. Students of 2018-19 first year were given charge of notice board in the month of July August 2019 to write articles related to microbiology.**







**48. Newly admitted Batch of first B.Sc Microbiology 20-21 students during Covid Pandemic Period were welcomed to the Microbiology department with various fun games and science activities. Ice breaking competition conducted for their introduction and they were informed to showcase their talents and hobbies.**



# Field Visit

2016-17

UNIVERSITY COLLEGE MANGALORE

DEPARTMENT OF MICROBIOLOGY

FIELD VISIT TO AGRICULTURAL AND HORTICULTURAL  
RESEARCH STATION ULLAL



**30-07-2016 students of 3<sup>rd</sup> B.Sc microbiology batch visit Cashew Research Center, Ullal Mangalore.**

**UNIVERSITY COLLEGE, MANGALORE**  
**Department of Microbiology**  
**FIELD VISIT TO: ALVAS PHARMACY MIJAR, MOOBBIDRI.**



**9-07-2016 3<sup>rd</sup> B.Sc microbiology batch visit to Alva's Pharmacy Yogaraja Arogya Dharma near Mijar ,Moodbidri**

2018-19

**\*A FIELD VISIT REPORT  
ON  
SEWAGE TREATMENT PLANT, MULLAKAD\***

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**10/08/2018 visit to SEWAGE TREATMENT PLANT at Mullakadu Mangalore**

2019-20



2020 visit to Campero chocolate factory putturu



### **2020 visit to K-Tech Park**

**Agaje Gowri and Aishwarya shenoy of 3<sup>rd</sup> B.Sc microbiology (CZM) students got of Indian's fellowship. It is a project call under' waste to wealth. SSF- Swachatha Sarathi Fellowship one year fellowship.**

**In this students involved in the 'Waste to wealth 'are sanctioned with Rs.1000 /- per month. Agaje is recycling cooking fried oil into useful biodiesel and Aishwarya is recycling sugar cane Baggasse into fuel cakes using cow dung both of them have received sanction letter in July 2021 and they have started their work of this project.**

### **Community Service**

**Water testing is been done as a service to community . Physical and chemical testing was done and from August 2017 chemical parameters are also tested as an extension activity from the department.**

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