MICROBIOLOGY Departmental Report (2019-2020)

Preliminary information I Department profile

Names	Designation
Dr. Arjumanara Surti	Associate Professor, Head of Department
Dr. Gianni Erevelles Mapara	Associate Professor
Ms Suparna Dugal	Associate Professor
Dr. Rajbinder Kaur Dehiya	Associate Professor
Ms. Shraddha Prabhu	Assistant Professor
Ms Jyoti Mantri	Associate Professor
Mr. Vijay Vig	Assistant Professor
Ms. Ruqsana Khan	Assistant Lecturer (Ad-hoc)

II Courses/Papers taught

SEMESTER I -

Course code	Name of Unit	Credits
SBSMCB101	FUNDAMENTALS OF MICROBIOLOGY	2 Credits
SBSMCB102	BASIC TECHNIQUES IN MICROBIOLOGY	2 Credits
SBSMCBP1	PRACTICALS	2 Credits

SEMESTER II

Course code	Name of Unit	Credits
SBSMCB201	EXPLORING MICROBIOLOGY	2 Credits
SBSMCB202	ADVANCED AND APPLIED MICROBIOLOGY	2 Credits
SBSMCBP2	PRACTICALS	2 Credits

SEMESTER III

Course Code	Name of the Unit	Credits
SBSMCB301	MICROBIAL DIVERSITY, MICROBIAL TAXONOMY & INSTRUMENTATION	2
SBSMCB302	ENVIRONMENTAL MICROBIOLOGY	2
SBSMCB303	INTRODUCTION TO MICROBIAL METABOLISM AND BIOSTATISTICS	2
SBSMCBP3	PRACTICALS	3

SEMESTER IV

Course Code	Name of the Unit	Credits
CDCN (CD 401	MEDICAL MICROPIOLOGY & DAMPIOLOGY	
SBSMCB401	MEDICAL MICROBIOLOGY & IMMUNOLOGY	2
SBSMCB402	APPLIED MICROBIOLOGY	2
SBSMCB403	BASICS IN GENETICS AND MOLECULAR BIOLOGY	2
SBSMCBP4	PRACTICALS	3

SEMESTER V

Course code	Name of the Unit	Credits
SBSMCB501	MICROBIAL GENETICS	2.5
SBSMCB502	MEDICAL MICROBIOLOGY AND	2.5
	IMMUNOLOGY: PART-I	
SBSMCB503	MICROBIAL BIOCHEMISTRY: PART-I	2.5
SBSMCB504	BIOPROCESS TECHNOLOGY: PART-I	2.5
SBSMCBP5	PRACTICALS	06

Course code	Name of Unit	Credits
SBSAPC503	FOOD PRODUCTION AND PROCESSING (General Principles)	2 Credits
SBSAPCP503	PRACTICALS	2 Credits

SEMESTER VI

Course code	Name of the Unit	Credits
SBSMCB601	rDNA TECHNOLOGY, BIOINFORMATICS &	2.5
	VIROLOGY	
SBSMCB602	MEDICAL MICROBIOLOGY AND	2.5
	IMMUNOLOGY: PART-II	
SBSMCB603	MICROBIAL BIOCHEMISTRY: PART-II	2.5
SBSMCB604	BIOPROCESS TECHNOLOGY: PART II	2.5
SBSMCBP6	PRACTICALS	06

Course code	Name of Unit	Credits
SBSAPC603	FOOD PRODUCTION AND PROCESSING (APPLICATIONS AND Q.A)	2 Credits
SBSAPCP603	PRACTICALS	2 Credits

POST GRADUATE:

SEMESTER I

Course code	Name of the Unit	Credits
SMSMCB101	CELL BIOLOGY AND VIROLOGY	4
SMSMCB102	MICROBIAL GENETICS	4
SMSMCB103	MICROBIAL BIOCHEMISTRY	4
SMSMCB104	MEDICAL MICROBIOLOGY & IMMUNOLOGY	4
SMSMCBP1	PRACTICALS	
SMSMCBP101	CELL BIOLOGY AND VIROLOGY	2
SMSMCBP102	MICROBIAL GENETICS	2
SMSMCBP103	MICROBIAL BIOCHEMISTRY	2
SMSMCBP104	MEDICAL MICROBIOLOGY & IMMUNOLOGY	2

SEMESTER II

Course code	Name of the Unit	Credits
SMSMCB201	CELL BIOLOGY AND VIROLOGY	4
SMSMCB202	MICROBIAL GENETICS	4
SMSMCB203	MICROBIAL BIOCHEMISTRY	4
SMSMCB204	MEDICAL MICROBIOLOGY & IMMUNOLOGY	4
SMSMCBP2	PRACTICALS	
SMSMCBP201	CELL BIOLOGY AND VIROLOGY	2
SMSMCBP202	MICROBIAL GENETICS	2
SMSMCBP203	MICROBIAL BIOCHEMISTRY	2
SMSMCBP204	MEDICAL MICROBIOLOGY & IMMUNOLOGY	2

SEMESTER III

Course code	Name of the Unit	Credits
SMSMCB301	TOOLS AND TECHNIQUES: RESEARCH	4
	METHODOLOGY	
SMSMCB302	FOOD MICROBIOLOGY	4
SMSMCB303	ADVANCES IN BIOTECHNOLOGY	4
SMSMCB304	APPLIED AND ENVIRONMENTAL	4
	MICROBIOLOGY	
SMSMCBP3	PRACTICALS	
SMSMCBP301	Literature Survey and Research project proposal	2
SMSMCBP302	Food Microbiology	2
SMSMCBP303	Advances in Biotechnology	2
SMSMCBP304	Applied and Environmental Microbiology	2

SEMESTER IV

Course code	Name of the Unit	Credits
SMSMCB401	TOOLS AND TECHNIQUES: BIOMOLECULAR	4
	ANALYSIS	
SMSMCB402	PHARMACEUTICAL MICROBIOLOGY	4
SMSMCB403	ADVANCES IN BIOTECHNOLOGY	4
SMSMCB404	APPLIED AND ENVIRONMENTAL MONITORING	
	& MANAGEMENT	4
SMSMCBP4	PRACTICALS	
SMSMCBP401	Dissertation based on Research Project and poster	2
	presentation	
SMSMCBP402	Pharmaceutical Microbiology	2
SMSMCBP403	Advances in Biotechnology	2
SMSMCBP404	Applied And Environmental Monitoring &	2
	Management	

III BOS composition

Dr. Arjumanara Surti - Chairperson, Board of Studies and Head of the Department

Ms Miriam Stewart- Vice-Chancellor's nominee (Associate Professor and Head of Department of Microbiology, St. Xavier's College)

Dr. Jyoti Kode - Subject expert from outside the Parent University (Scientific Officer F, ACTREC, Kharghar, Navi Mumbai)

Dr. Annamma Odaneth - Subject expert from outside the Parent University (Associate Professor, DBT-ICT Centre for Energy Biosciences, Institute of Chemical Technology, Mumbai)

Mr. Sivan K- Representative from industry (Deputy General Manager, RIS Healthcare Technologies Private Limited, Mumbai)

Ms Nidhi Tomar- Postgraduate alumnus (Ennature Biopharma, India Glycols Limited, Mumbai)

- Other Members of Faculty

Dr. Gianni Erevelles Mapara

Ms Suparna Dugal

Dr. Rajbinder Kaur Dehiya

Ms Shraddha Prabhu

Ms Jyoti Mantri

Mr. Vijay Vig

Ms. Ruqsana Khan

IV Dates of BOS meetings -10th August 2019 June 2020

1. Activities Conducted by the department: ACTIVITY 1

Municipal School Visit (Social Outreach Activity)

Venue - Jagannath Shankar Sheth Municipal School, Grant Road

Date - 10th July 2019 Number of staff members involved – All staff members

Number of students involved - 40

REPORT

The Microbiology students [MSc- II, SyBSc] and teachers of Sophia College visited Jagannath Shankar Sheth School, Grant Road on 10th July 2019 as a part of the social component. All the students gathered around the school building around 10 am. After which the students and the staff proceeded inside. The very first programme was a skit on the topic of anger management. The topic was selected because in this age of unusual stress and pressure, anger management training is of paramount importance. It teaches you to accept what you can't change and channel your energy to feel positive and calm. It is important for people from all walks of life to control and manage their anger. Anger management is the process of learning how to recognize signs of anger, and taking action to calm down and deal with the situation in a positive way. After the skit the college students had arranged games for them where the school children learned the importance of "Team Building". After which they went for their break. The Microbiology students had arranged a surprise for them where the school children were given sweats and clothes [that the department had collected through the clothes collection drive]. All the school students had a big smile on their face after the surprise indicating that they were really very happy.





Fig 1: SyBSc students and teachers

Fig 2: MSc students





Fig 3: Microbiology students giving a brief to the school children about the purpose of the visit.





Movie Mission Mangal (Peace Week Activity)

Date - 23rd August 2019

REPORT

As a part of imbibing importance of scientific temper amongst women, building a sense of National pride and as a bonding initiative, (during Peace week) students of T.Y.B.SC and F.Y.B.Sc class were taken for the movie

Industrial Visit to SULA Vineyards and Jai Biotech, Nashik

Venue - Sula Vineyards and Jai Biotech, Nashik

Date - 27th and 28th August 2019

Number of students involved - 47

REPORT

A two day industrial visit was organized for S.Y.B.Sc., T.Y.B.Sc. and M.Sc-II students to Sula Vineyards and Jai Biotech, Nashik on 27th and 28th August 2019. Students were accompanied by Dr (Ms) Arjumanara Surti, Mr Vijay Vig and Ms. Ruqsana Khan.

















Guest lecture on Nanotechnology Applications

Guest/Speaker – Dr. Deepa Khuslani, TIFR

Date - 30th August 2019

Number of students attended: 100+

REPORT

A talk on Nanotechnology by Deepa Khuslani, Scientist TIFR. Over the last few decades, Nanoscience research has become overwhelming and it is important to understand the chemical and physical fundamental aspects that make nanomaterials truly unique. This talk conveyed some crucial aspects of nanomaterials, starting from (a) basics of the science involved that make these structures so interesting, (b) how to synthesize/fabricate them (c) popular methods of characterising these structures and some common mistakes found in literature regarding such small materials. The speaker also showcased the manner in which these materials can be utilized in advanced applications and as such what is making them so ubiquitous in our daily lives.

DEPARTMENT OF MICROBIOLOGY

Welcomes you to

A DBT-STAR College Scheme supported talk on



What Exactly Are Nanomaterials And Why Are They Important?



Speaker: Prof. Deepa Khushalani

Materials Chemistry Group Department of Chemical Sciences, Tata Institute of Fundamental Research (TIFR), Mumbai

- CRSI Bronze Medal in Chemistry 2018
- DST (Nanomission) Young Career Award in Nanoscience and Technology 2016
- Fellow of Royal Society of Chemistry (FRSC)
- Editorial Board Member of Scientific Reports
- Executive Committee Member for RSC West India Section

ACTIVITY 5

PETRI ART

Date - 10th December 2019

REPORT

The Department of Microbiology organized "PETRI ART" the Ananya event for the current academic year, which was an interdepartmental competition involving all departments of the biological sciences. Invitations were given to the departments of Life Sciences, Biochemistry and Zoology. All the students were told that the materials needed for petriart such as bacterial cultures and culture media would be provided to them at the time of the competition. Petriart involves using sterile petri dishes with sterile culture medium in them as the canvas. The art work is done using suspensions of different pigmented bacteria in pure culture as the medium of art. The pure cultures are applied to the medium under sterile conditions and incubated to allow

them to grow and produce pigment in the appropriate parts of the petri dish. After incubation at 37°C the cultures would show pigmentation, thus making the desired picture visible. The objective of this activity was to inculcate creative out-of-the-box thinking in the students, while at the same time honing the practical skills involved in this very delicate operation. The date on which Petriart was held was Tuesday, December 10, 2019. The plates were incubated and were ready for judging on Thursday, December 13, 2019. Dr. Madhavi Kaji very kindly consented to act as judge and did a very thorough job of awarding the prizes. It was originally decided that there be three prizes, but Dr.Madhavi felt that there were so many deserving participants that we could perhaps have a fourth prize. The organizers Dr. Rajbinder K. Dehiya and Dr. Gianni Erevelles Mapara were likewise prompted by the quality of the work to give a fifth and sixth prize.

The prize winning works of petriart were as follows:

First prize: A portrait of Louis Pasteur by Safiya Khan

Second prize: The face with blossoms in the hair by Shilpa Binoi

Third prize: The landscape by Jovitta Menachery

Fourth prize: The Taj Mahal by Kajal Rai

Fifth prize: Profile of the girl with flowing hair by Tausif Yahu

Sixth prize: The rose by Shaziya Sayed

It was indeed heartening to see how much thought, learning, enthusiasm and enjoyment went into the process and as a department we felt that the objectives of holding this event were fulfilled.





Field Visit to Hinduja Hospital Diagnostic Centre

Venue - Hinduja Hospital Diagnostic Centre

Date - 9th January 2020

Number of students involved: 23

REPORT

Hinduja Hospital Diagnostic Center (Molecular biology, Hematology, Immunology, Microbiology, Clinical biochemistry labs) (23 students and 2 teachers).

Feedback -

https://docs.google.com/spreadsheets/d/1PGBrVVFdd1b-zv3rvNBZgaMlSJ8JYjYlmIbf0rAfU4 A/edit?usp=sharing

ACTIVITY 7

Microvaganza

Date - 10th January 2020

Number of students involved: 28

REPORT

This event was supported by the DBT Star College Scheme. The aim of this event was to create awareness about the damage being done to the environment due to human activities and the importance of environment conservation. The event had two main competitions, Rangoli Design and Poster Making. The topic for Rangoli Design was "Save the Environment" and the topic for Poster Making "The world after 25 years"

Sr.No	Name	No. of participation	Amount paid
1	Amanpreet Kaur Notay	(Absent)	
2	Jovitta Joy Menachery	1	50
3	Isha Barve	1	50
4	Priya Kamik	1	50
5	Sristi Pradhan	1	50
6	Madhureema Pandya	1	50
7	Khan Shabnam	1	50
8	Prashanthi Sirisilla	1	50
9	Amanda Taffy	1	50
10	Nidhi Narayanan	1	50
11	Disha Vaidya	1	50
12	Riya Mathew Rodrigues	1	50
13	Aqdas Fatima Shaikh	1	50
14	Shivani Sahay	1	50
15	Asmita khadye	1	50
16	Rida Munshi	1	50
17	Fatima Zarah Arif Chamadiya	1	50
18	Bhavika Bhoir	2	100
19	Sian Pinto	1	50
20	Kashmira Vayeda	1	50
21	Zahabiya Chinikamwala	1	50
22	Annemary Alapatt	1	50
23	Khan Misbah	1	50
24	Ayesha Shaikh	1	50
25	Riya yadav	1	50
26	Shilpa Binoj	(Absent)	
27	Sumaiya Ansari	2	100
n.1/2.	e denomination de la companie de la		TOTAL - 1350



MICROVAGANZA

Organized by the Department of Microbiology Sophia College (Autonomous)

DITCH THE PAST- MOVE FORWARD WITH RENEWABLES

RANGOLI DESIGN

Venue: MPH, Sophia College

Time:

Topic: Save The Environment

Give art to the waste around you

• Rangoli Design must include an environmental message by using waste materials.

The waste materials should be carefully chosen and should not stink or clutter.

POSTER MAKING

Venue: Micro, Sophia College

Time:

Topic: The World in 25 Years

Paint your imagination

Description
Bring out your imagination and show your perspective of the world after 25 years.

Educational Visit to Science centre

Venue - Science Centre, Mumbai

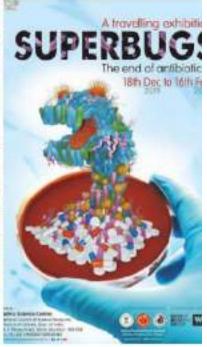
Date - 18th January 2020

Number of students involved: 25

REPORT

Students of the FYBSC class along with two teachers visited the Science centre and travelling exhibition about antibiotic resistant bacteria







Mini-Symposium on Current Challenges on Cervical and Breast Cancers:Facts and Fiction

Venue -Sophia College for Women (Autonomous)

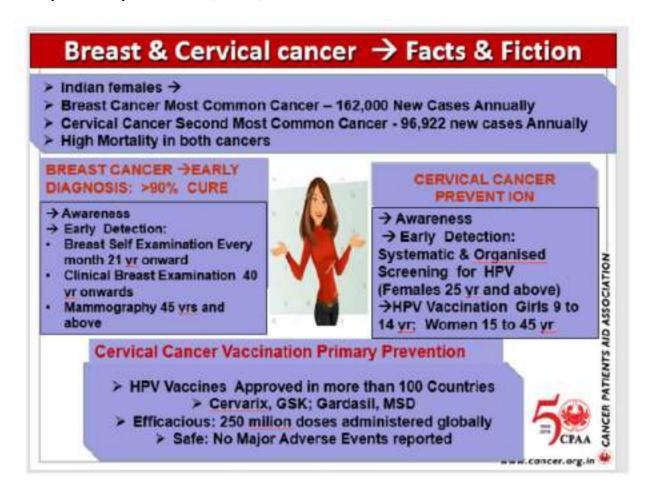
Date - 4th February 2020

Number of students involved: Approximately 130

Name of the activity coordinator – Dr. Arjumanara Surti

Organized by Cancer Patients Aid Association and Department of Microbiology

Sponsored by LIC of India, Rs 50,000/-



Solidarity Student Exchange Programme (Sophia College- Kohima Science College Nagaland) - Student Exchange Program

Venue- Sophia College for Women (Autonomous), and Kohima Science College Nagaland

Date -September 2019 and 9th to 16th February 2020

Number of students involved: 8 +8

REPORT

The Solidarity Student Exchange Programme (SSEP) 2019-20

The programme, an initiative of two organisations, the Indian National Fellowship Centre (INFC), Mumbai, and the Dr. K & T Keditsu Foundation, aims to facilitate the strengthening of cultural ties between the students of government colleges in Nagaland with colleges affiliated to University of Mumbai, through exchange programmes. This year, Sophia College for Women (Autonomous) jointly organised the SSEP with the Dr. K & T Keditsu Foundation, Kohima, Nagaland. The programme provided students with opportunities to experience the culture of the partner state as well as the academic environment of the host colleges through a range of activities. The programme consisted of two phases. As part of the first phase, eight women students from Kohima Science College, Nagaland, visited Mumbai between September 8 and 15, 2019. During the second phase, eight students from Sophia College visited Kohima between February 9 and 16, 2020. During the course of their stay at Sophia College, the students of Kohima Science College got an opportunity to experience the academic environment of the institution through visits to the various science and computer laboratories as well as the library. They also got a taste of Kaleidoscope, the popular intercollegiate youth festival organised by the students of the college. The itinerary, charted for the students from Kohima, included visits to Mani Bhavan, Keshav Shristi, the organic farming centre at Uttan, Global Vipassana Pagoda, Nehru Science Centre and Planetarium, and various tourist sites in Mumbai. A day spent at Dr. Arnab Bhattacharya's laboratory at Tata Institute of Fundamental Research (TIFR) made a lasting impression on the minds of the students. A session by Delnaz Paliwalla, CEO of the Bombay Community Public Trust threw insight into the successful running of an NGO. Interactive sessions with Ms Pooja Kamath, representative of INFC and Mr Ningsang Jamir, exstudent of Kohima Science College currently working as a media marketer in Mumbai were also arranged. The visit of the students was well-timed as it coincided with a peak in cultural activities in Mumbai on account of Ganeshotsav. They experienced the local Maharashtrian as well as cosmopolitan culture through home visits. Dressed in traditional costumes, the visiting students performed traditional Naga folk songs and dance at a cultural programme organised at Sophia College. The students of Sophia College were accompanied by two staff members during their visit to Nagaland in February 2020. The itinerary for their trip included visits to the various educational and research facilities at Kohima Science College, a glimpse of the culture and traditions of the Naga people through visits to Kigwema, Kisama and Khonoma villages as well as Viswema Government Middle School. At the school, the girls met the Head teacher, Ms Keneisenu Vitsu and also got to try out organic farming on the fields within the school premises, where the school children grow vegetables for their meals. The students learnt about groups in Nagaland who are deeply concerned with providing livelihood opportunities to the small-scale agricultural and traditional handicrafts workers. The programme also included interactive sessions with Mr Neichute Duolo, the CEO of Entrepreneurs Associates, and his team. This organisation works for the upliftment of Naga people by providing them with sustainable employment opportunities and support. The sessions with Mr Lichan Humtsoe, the CEO of Été Coffee, and Mrs Hekani Jakhalu, the Founder of Youthnet, were insightful. The Sophia team also visited the Pulie Badze base camp, the state-of-the-art research facility at the Directorate of IT and Science, the Kohima War Cemetery, and the State Museum at Kohima. The students had an interesting interaction with Mr Theja Meru, advisor, Task Force for Music and Arts, Nagaland, at the Regional Centre for Excellence in Music and Performing Arts (RCEMPA). The group also attended a concert featuring Yamaha artist Mr Nise Meruno and Mr Nourhe Khate. The students were traditional Naga mekhalas during a session by Dr. Theyiesinuo Keditsu who, in addition to being one of the trustees of the Dr. K & T Keditsu Foundation, is a feminist poet, writer, academician and the co-founder of the Centre for Indigenous Knowledge & Alternative Learning (CIKAL), Nagaland. Our students offered the hosts a taste of Maharashtrian culture through folk dances of the state during a cultural programme at Kohima Science College and at the valedictory programme. The warm, affectionate hospitality of the Naga people helped offset the chill February weather of Nagaland. The programme created life-long memories and everlasting friendships for the students of both the colleges. For the staff, who accompanied these students, the programme, with its perfect blend of academics, research and soul-searching, was both intellectually as well as emotionally rewarding.



(The activities in Mumbai and the travel of the Mumbai team to Nagaland was funded through the RUSA grant)

ACTIVITY 11 Medical Laboratory Technology' course (Add-on course)

Venue- Sophia College for Women (Autonomous)

Date - 19th February 2020

Number of staff members involved – 01

Number of students involved: 16

REPORT

Name of the activity coordinator – Dr. Arjumanara Surti

Duration of course: 32 hours (From December 2019-February 2020)

Number of students enrolled: 16

Topics covered during Medical Technology Course

- Introduction to pathology
- Phlebotomy
- Hematology

- Biochemistry
- Clinical pathology
- Bacteriology
- Immunology
- Blood banking
- Lab management

TWO PURPOSE OF THE COURSE AND LEARNING OUTCOMES ENVISAGED: TEACH THEM IN THE JUNIOR YEAR AND GIVE THEM A GLANCE OF AN EXCITING CAREER POST Bsc, that is a career in HEALTH SCIENCES.

Exam

	Exam Topics
Paper 1	Phlebotomy + safety + Microbiology culture techniques + Quality control and Quality assurance
Paper 2	Blood Bank + Immunology methods + Accreditation
Paper 3	Basic Hematology + Histogram + electotrophoresis + CBC analyser
Paper 4	Basic Biochem * Vit D * Tumor markers * hormones
	Presentation Topics
1	Thyroid
2	Thalassemia
3	G6PD
	Poster Topics
1	Patient came for G6PD test with history of hemolysis
2	Patient came for blood sugar test with history of diabetes
3	Patient came with history of swelling in lower limbs
4	Staff came to emergency with history of needle stick injury



SOPHIA COLLEGE (AUTONOMOUS)

Bhulabhai Desai Road, Mumbai NAAC Reaccredited with Grade A (2015)

CERTIFICATE OF PARTICIPATION

This is to certify that

Ms. Priya N. Karnik

has successfully completed 30 hours of a One-Credit Certificate Course on

Medical Technology for the Undergraduate

during the academic year 2019-2020.

Dr Arjamunasu Starti Course Convence Dept. of Microbiology

Nimits Shah Course Corrector Senior Scientist, Molecular Laborators S.L. Kohen, Houghtal

Dr Aniarda Americadad Principal Suphia College

Sixteen students successfully completed the Medical Technology for the Undergraduate One-credit Certificate course and were awarded completion certificates.

FLYER

ADD ON COURSE

Who can join?

UNDERGRADUATE STUDENES OF SOPHILA COLLEGE Oscionos/Arts)

December 2019 to February 2020

on Saturdays 2 hrs (Total of 32 hours.)

Sophia College Hicrobiologic Department / DCA lab

Course fee:

Rs. 2000/ only

Last Date of Registrations 7th December 2019

Californion and red-minimum of regulation little Whitenburkop 116.1ab (9 am to 11 -

Decidenally contact: Dr. Arturannury Serti Department of Macrobiology Sophits entirge: E-mail advantager#drgseaficce

SOPHIA COLLEGE DEPARTMENT OF MICROBIOLOGY



MEDICAL TECHNOLOGY

for the undergraduates A One credit add on course

The add on course is atmed at introducing the under graduates to the world of Medical Technolagy. The student will be taught to collect blood and other pathological samples, process them, interpret the results and diagnose the disease. He/She will also be taught how to not the robotic machines and manage a pathology inhoratory. Introduction The options available after doing a full fledged post graduate diploma in medical technology (also offered at Sophia after graduation in any . science subject] are either in hospitals, sales. management, R&D of a diagnostic company.

This add on course is exciting and it will give you . a tiey gliceper into the faccinating world of pa- . Clinical thology as it exists today!

. Highlights Visiting faculty from repated bospitals and pharmacoutical companies Hands on training * Internable

COURSE CONTENT (MODULES):

- to pathology
- Phiebotomy
- Hematology
- Bio chemistry
- pathology
- Bacteriology
- Immunology
- Blood banking.
- Laboratory management

Creative nature photography competition

Venue- Sophia College for Women (Autonomous)

Date - 26th February 2020

Number of staff members involved – 01

REPORT

To promote Creativity and connecting with nature, this photography competition was organized for SYBSc class at a local garden

Creative photography Winners









Field/Industrial visit to Common Effluent Treatment Plant (CETP), Kopar Khairane, Navi Mumbai

Venue- Common Effluent Treatment Plant (CETP), Kopar Khairane, Navi Mumbai

Date - 12th March 2020

Number of staff members involved – 02

Number of students involved: 20

REPORT

A one-day industrial visit was organized for MSc-I and MSc-II students to the Common Effluent Treatment Plant (CETP), Kopar Khairane on 12th March 2020. Students were shown the biological methods used for industrial effluent treatment.

List of students

MSc-I

- 1. P19021- Ms Nicole Fernandes
- 2. P19022- Ms Rosephil Coutinho
- 3. P19023- Mr Rahul Gupta
- 4. P19024 Ms Priyanka Supal
- 5. P19025 -Ms Annie Susan
- 6. P19026 Ms Reema Yadav
- 7. P19027 Ms Vaibhavi Mullasery
- 8. P19028 Ms Misbah Ansari
- 9. P19029 Ms Aamina Khan
- 10. P19030 Mr Gaurav Sriram

MSc-II

- 1. PM18001 Ms Annemary Alapatt
- 2. PM18002 Ms Ankita Ingale
- 3. PM18003 Ms Mansi Kadam
- 4. PM18004 -Ms Tasneem Kapasi
- 5. PM18005 Ms Olivia Anthony Lopes
- 6. PM18006 Ms Nikita Lore
- 7. PM18007 Ms Sian Pinto
- 8. PM18008 Ms Ayesha Shaikh

9. PM18009 - Ms Bilquis Warsi 10. PM19010 - Ms Riya Yadav

Teachers who accompanied students -

- 1. Mr. Vijay Vig
- 2. Ms. Ruqsana Khan





Scientific writing workshop

Resource person: DR. RADHIKA TENDULKAR, Department of Life Science and

Biochemistry, St. Xavier's College (Autonomous), Mumbai

Venue- Online (Platform: ZOOM)

Date - 13th and 14th May 2020

Number of staff members involved -02

Number of students involved: 65

REPORT

ONLINE COURSE ON SCIENTIFIC WRITING (Under the aegis of the DBT Star College Scheme)

Sessions

Day 1 - Creative & Academic Writing Day 2 - Research paper/ Report writing. The course was designed to equip the students with the necessary tools to excel in both creative and academic writing, as well as in the meticulous task of writing research papers and reports.

Creative & Academic Writing:

Students were guided to express ideas creatively while maintaining the structured,

evidence-based approach essential for academic writing. The session focused on clarity, coherence, and structuring the writing to the intended audience.

Research Paper/Report Writing:

In this session, students were guided through the process of writing research papers and reports, which is a crucial component of scientific communication. Students learned to formulate strong research questions, conduct thorough literature reviews, and present their findings in a manner that adheres to academic standards. The importance of citations, ethical considerations, and plagiarism prevention was also discussed.

Геневиці	Emas Acidreses	Full name (starting with the name and onding with the summitte)	Class	How did you find the content of the two sessions?	Which of the two sessions did do you find useful?	Kindly mention what you found the most useful in the sessions	your overall knowledge	fundly rate your overall knowledge level of the topics covered, in the sessions after aftending the course	Rundly indicate your pracesance for topics for future sections	Your everall impression of the course
5/14/2870 16:40:23	Control of the Contro	Kristina Femandos	Fytist:	Good	Creative & Academic Writing (day 1)	Hedging	Very good	Very good	Know more obout plagarism	Useut
E/12/2000 10:47 10	29@gnat.co m		Тубы	Good	Gleative & Academic Writing (day 1)	Analysing what is required.	Fair	Good	Embryology	Average.
5n 4/2tje tiskaris	at@gnail.com	Абарат	Mac	Very good	Research paper/ Raport writing (day 2)	segments. The session gave as might to scientific writing in a very student trienally manner.	Good		Use of statistics in research	It sundy will help me in improving my editing skets
504/2010 18:55:52	mucrawjoshigh gmasi.com	Mutto Vipin Joshi	Sybac	Very good	Bot	The clarity	Excollent	Excellent	C6	Corona Vinis
30.4/2520 (8.59.13)	naitjefmavi@g mail.com	Jahnavi Nair	ryosc	Excellent	Greative & Academic Writing (day T)	Steps we should avoid for effective wrong.	Par	Very good	Research paper writing	Good

	DEEPANEND ON1234@OM AIL CON		FYBac	Very good	Both	We got an idea about what is a good writing how to write up points etc.	Very good	Excellent	Coved-18	It was really great
b/14/28/20 19/04/24	srusht, karvir @gniat.com	Snasht Karvit	FYBSc	Very good	Both	Creative writing	Far	Good	More about research paper writing, their sometimes clarifying some important basic topics of science, more about presentations, works etc., however, should shart a new scientific april, sessions on field optime.	It was really helpful to me and the ma'am was cooperative and wonderful.
514282019.15.02	preranalyeole2 congiginatico	Prerana rajentra yeole	Fytec	Excellent	Both	Report writing	Very good	Very good	Peer review	Good
9/14/28/20 19/19/20	sakshi gahil 10 @gnali.com	Saksti Gohil	FYBSc	Excellent	Both	Research paper writing	Excellent	Excellent	How to elatorate a topic in a better way in scientific writing so that people like to read it.	Excellent

811412020 1932.49	cshaheer/237 @gmail.com	Shaheen chauthary	Fytrsc	Excellent	Both	How to start writing research paper and words using in sentences	Excellent	Excellent	Immunology	Good
514(202610,43(30	ridhi narayana r05@gmail co m		TYBSc	Excellent	Both.	Plagansm, etnics	Good	Very good	Recent research vaccine, recent CRISPR studies	Insightful
	86@gmail.co m	kadam	Fybsc	Very good	Reseach papen/ Report writing (day 2)	The format of reference and the websites mentioned for checking your article	Good	Very good	Nothing	Useful
5/14/2020 19/52 20	21@gmail.co m	4/6-2	FyEnc	Very good	Both	pit our observation acientifically	Very good	Very good	Paper writing	Good
1014 SUID 2019 P	sapnoshah01 232@gmail.co m	Sapna Shah	Fybsc	Good	Both	Approximation of the last of t	Far	Good	How to establish a good czertent	A perfect course to study scientific witing which is used in many phase to write and learn the way to write

5/14/2020 20:12/36	ntikatiwan050 2@gmail.com	Roska Ramanuj Theran	FYB5C	Very good	Both	Report	Far	Very good	I will try to write reports and assignments	I liked the both session
P/18202836/8/58	shivanisahay6 D@gmail.con	Shivani sahay	Tybec	Excellent	Both	Cleative	Excellent	Excellent	Personality development	it was a well planned course
5/(4200) 26:24:30	saloneelopes @gmail.com	Salonee Thomas Lapes	Sybec	Very good	Both	Various coreponents necessary to construct a good research paper	Very good	Very good	Epidemiology	It was a very informative course and we got to learn how to write a good research pager
5r+e2000 26:36.36	nyakansasat (Egmai com	Эгун Катанга	Sytmic	Very good.	Creative & Academic Writing (day 1)	The estate session was very useful But to be specific if taught the way to write or article or any research paper or any contest.	Excellern	Cacallent	I would love to lastri on expension & tips to improve memory power.	It was actually a very good experience. It added up a lot to my knowledge than before in the branch of scientific writing.

\$14/2009 21:24:28	tast eenkapa artistit gegmal com	Tasneem Hapasi	MSc-2 marobel agy	Nery good	Both	Detailed explainted on each topic as well as teaching with examples was benificial	Far	Good		Good
5/14/2009 72/25/43	gautamsj4@g meil.com	Garlesh	FYBSc	Very good	Soth	The proper method to unite the scientific report and also these methods are also useful for further academic purpose	Good	Excellent	How to write an introduction which covers all the further paragraphs	it was a very good course which helped me in understanding how to actually write an scientific report, it also helped me in improving my writing skills and how coorbio it can be walle writing
S/14/2024 22:38:52	guhra@gmail .com	Juhira Friosh	Fytec	Excellent	Both	The explanation about plagiarism and the whole texty of the paper	Fait	Very good	The actual sessorch powers and stone plagartors causes to be discussed.	It was very information and i loved the sessions

5+44/2520-27/58/29	remember2nt e@gnail.com	Krutika Singh	FYBSc	Excellent	Both	Various ways to avoid plagransm	Excellent	Excellent	Govid best Rifts	Excellent, Definitely worth of the trine and attention. Will attend next course too.
5150000 1200:17	seshmäatsgo wäa777@gene ii, com	Sushmithe Gowda	FyBSc	Excellent	Both	Proper explanation on what to write how much to write and how to present	Fair	Very good	Scientific explanation to give short conclusion for long process	It was really good helpful and it also kept us captive to know more of research writing and assignment writing
515206 123718	jovitajo yeggm ali com	Joretta joy menachery	Tytee	Very good	Both	Parts of research paper and information about plaqueriem	Very good	Very good		Very informative
5152020-00911	subhasreegos wami45@gma ii.com		TYBSc	Excellent	Both	Scientific writing	Excellent.	Excellent	How to write statement of purpose	Very informative, this will be of utmost help throughout out life.

595020 175616	kmberlyserei a2002@graei com	Pybsc	Excellent	Both	The rules while writing research paper.	Cood	Excellent	Case study Jhow () formulate a good article, more details and rules about dei	it was very effective and clear. Plaganorm rules will give me a red signal whenever i write a paper in futere. The pot was very straight to understand! Overall was a useful session. Thork you Radiinka Mamill!
\$150880 2243.12	aufreen er san 744@gmail.co in	Sytrec	Very good	Creative & Academic Writing (day 1)	The tips to write on article and the grammar lessors	Good	Very good	Hedging in detail	It was a inforesting course which enhanced by previous knowledge

S/15/2010 22:44:67	kernkps@gm ai.com	PRIYA NEELESH KAPHIK	T Y B	Very good	Both	Il-low to avoid plagiariam	Fair	Good	Would like to know more on how to avoid plagizarism. Also topical related to human microbiume would be interesting	Very well conducted course. The speaker mide the topks all very understand able and simple. The application used for conducting the course was also good.
(kr)(VSQS) 22.49.61		Bhargairee Awadhot Sawani	FYBSc	Very good	Both	The way of writing a contest systematicall y	Fair	Very good.	I would like to know the method of writing research papers in detail.	I really learned a lot through this course. The course was very helpful, I am waiting for a chance and apply the historylage I got through the course.
6/15/2020 22:49:48	abeen ash 29@ gmail.com	Beenash Ansan	Fybac	Very good		The information provided	Fav	Very good	Arthritics	Every useful

E/10/2020/22/58/02	prashantirans ito20@gmoil.c om		Tybec	Very good	Both	Pagarism and methodology	Good	Very good	Research	Excellent
EHEORDO 23 17 31	au 507 4500@g en sil. com	Anjali Chetan Sharma	FVBS:	Good	Reseach paper' Report writing (day 2)	Report	Fac	Cood	Maybe about microbiology studies	Good
\$160000 006.57	bhagyashriko warkar@gmail .com	Bhagyashri Kowarkar	FYB ₂ c	Excellent	Both	Creative and Research writing	Good	Very good	Reference	it is very helpful for report writing and assignment
6/14/2020 1134:13	s200@gmail.c		TVBS:	Very good	Both	Review writing	Very good	Very good	Research	h was quiet helpful
5/14/2020 14/13:39	snsipradhan1 628@gmail.co m	Sneti Predhan	TY BSc	Good	Reseach paper' Report writing (day 2)	Research writing	Fair	Very good	Research related topics	Very informative
S/I V2020 49:17:27	matianne daily a 3@gmail co in	Matarrie Straddha D'stva	SYBec	Good	Both	At the end malam gave some additional write upo that she prepared	Far	Good	How to do literature survey and review in detail	Good,
5rt V3020 1#37/54	heeradove20 60@gmail.co m	HEENA NITIN DAVE	SYBSC	Very good	Both	How to be creative, concise and precess also how to write or review scientific papers.	Good	Very good	How to search interesting topics	The course was very good

SLEVER DESERVE SE	avnirac20@g read.com	Avri Ras	MScII	Very good	Both	Details Involved in writing- each criteria	Good	Very good	Fielevance of various scientific journals based on the research	Very detailed and helpful
S 17/2820 1942-52	ran47@gmail com	Chandran	SYBSc	Excellent	Both	Reference citation and the 'Materials & Methode' distailing	Excellent	Excellent	Understanding and making sense current research	The course was excellent, if was chuckured very well and was very informative.
619/2020 1944:21		Sakshi Rahul Bhagat	Sybac	Very good	Both	The pagarism part and the excercises	Fat	Very good	Bioinformatics	The session was very helpful, it would have been better if we would be able to do such session more.
P-1/5/09/50/50/5/5/5/	chandrimac90 2⊗gmail.com	Chandrina Chakraborty	Tybsc	Very good	Both	Reffrencing and paraphrasin gland hodging	Very good	Very good	Abstract writing	Very grood

817/2020 20-26-40	zufialnez2B@ gmail.com	Zufahan Zalar Farhan	WSe II	Very good	Both	Academic writing and Research writing	Cost	Very good	Statistical analysis and their tools	The course was well planned and interactive. It helped trushing our academic writing civils.
617/2020 20 47/22	ayushinagdev 11@gmail.co m	Ayushi Nagder	WSc.	Yery good	Both	Assignments	Fair	Good	It should have more assignments and exercises.	Great
917/2029 21 01 21	mail.com		MSc	Excellent	Research paper! Report writing (day 2)	How to write Iterature nurveys and research paper and avoid plagarism	Good	Very good	Making of graphs and what kind of graphs are used for what kind of data.	Was very useful
917/2025 21 DEST	graymatlerchi ima@gmoil.co in		Msc 2	Very good	Research paper! Report writing (day 2)	The teacher's interest in enswering our questions	Fas	Very good	Please consider meta analysis	Good

\$470005 SH <u>24</u> ES		Ronce Sudhakar Shetty	SVB\$0	Very good	Both	l came to know about plagarism. I also came to know about report wreing. How a research paper is written, the format.	Foir	Very good	were good and interesting	The course has helped me to increase my knowledge about writing, research paper if was very helpful and interecting.
5/17/28/25 22:16:54	akumari96gg mail.com	Krishnakursar	TYBSc	Excellent	Reseach paper/ Meport writing (day 2)	Learning how to use hedging effectively	Good	Very good	ехрозе	It was maily good and very engaging.
ari 172820-23.3 <u>2.34</u>	dsouzamaria0 75@gmail co m	Maria O'souza	SYB5c	Very good	Both	the various methods that can be used to write a report in a scientific manner	Good	Very good	to write in	it was good and resily helpful
	heenalpancha 125@gmail.co m	Panchal	MSc	Excellent	Both	Research paper writing	Good	Very good	Format types	Helpful
\$#\$003 05306	safnamubingu reshi@gmatic em	Safina Nobin Gurashi	Sybot	Excellent	Both	Every took: was explained well and skills for writing an aricles that are required wore precisely mentioned	Good	Very good	attend sessions for creative writing and paper presenting	Il wasan excellent course with good amountor information and knowledge

9/6/2000 L07.84	mderstald Ogmal com	Michelle Peruita	Wer Part f	Escellent	Creative & Academic Writing (day T)	The knack of good writing was emplained sery well	Gent	Excellent	Concred content creation and interactive science writing (where science is made simple for better understanding)	in a very good manner. Quite a lot
5/16/29(20 H-) 50 36	palukshuma bs@gmail.co m	Pulak Shama	TYB Sc.	Very good	Both	By attending the session I found out what mistakes I made during my project reports.	Fat	Bood	What should be keep in mind while reading research papers	il ман дэог
Savalde consum	dandradseuz Eginal zom	Diondre Catherine Dsouza	SYB8 ₆	Very good	Reseach paper/ Report writing (day 2)	Getting to know all the journals one can consider publishing in	Good	Very good	To throw light on the topics one can write orficioe or papers about	Lielpful

52 VIII (0 14 52 01	kyrazeen@gm all.com	Andari iqra	Misc	Very good	Both	How to address an image in the paper	Good	Very good	Putting error bars to bar grah, how to put a scale on an image, and flow much can we exit a picture before putting in thesis.	Very nice
922/2020 (2:30:+)	mantibussat5	Mariju Athur D'souta	Bytrac	Guud	Buts	What i found useful was the use of different ways to write sentences and the way or sequence to write the research paper.	Guod	Very good	Session on recent researches going on .	it was a very interesting session; something very important for young minds to have knowledge how to write any research paper. I definitely liked the version
924/2020 18:30:36	gmail.com	Sauni Dhodi Laba	MSc II	Good	Reseach paper/ Report writing (day 2)	Information and techniques with Hedging	Good	Good	Non academic writing	Gend
SOLVION IN SELL	shahjinisha27 1@gmail.com	Jinisha Shah	TyBSc	Very good	Both	Overall the entire session was very helpful.	Far	Very good	Research paper writing	The course was insightful and very helpful.

504/2025 19/03/38	da@gmail.co m	Munish Vayecu	Tytisc (micro)	Very good	Both	Analysis of a research paper hedging , and ways to evoid plagiers m	Fair	Good	C'eative writing	it was very informative and useful
5/24/2029 14:12:2)	madhireemap andya@gmail com	Madhueema Pandya	TYBSc	Excellent	Both	The guidelines to write a research paper	Excellent	Very good	To dos and don'ts in research paper writing	It was very informative and many important things about research paper writing
504000 181939	jana vpan chalif @gmail.com	Jonev Parichal	MSc 1 - Life Sciences	Excellent	Both	The Report writing conscipt	Fair	Very good	Reading research papers efficiently and quickly	The course was effective in clearing concepts on Scientific Writing and report writing
504/2020 19:38:01	swechaneelrai 2002/jfgmail.c	Swecha rai	Fybsc	Very good	Both	We learn new lopics	Very good	Very good	More similar sessions	It isom very effective way of writing skills I admire the knowledge of this session which will going to help see future

924/305 21 2005	madanizeba † 92@gmail.co m	Zetsa MadaniT	Tritisc.	Wery good	Both	Introduction to various writing lectiniques e.g. hedging	Good	Very good	Analysing scientific articles	Great, Explanation of each and every topic covered was clear.
9/24/2020 21 47:55	dishikutanN S@gmail.com		FYBSC	Very good	Both	The exagoments giver for homework which helped to excand our thinking capacity	Good	Very good	Ideas to excitate plastics (creative)	The course was very beneficial.
574/2020 23 06 44	sonal chavally 8@omail.com	Sonat dhavai	Msc II	Very good	Bots	Report ariting	Very good	Very good	Presentation skills	Good
5,05,0039 (9,53) (8		Jimsy Joseph Chramel	SVBSc	Very good	Creative & Academic wining (day 1)		Fair	Very good	Scientific writing and self plagransm	Very informative



SOPHIA COLLEGE (AUTONOMOUS) INVITES YOU TO ATTEND

AN ONLINE COURSE ON SCIENTIFIC WRITING

(Under the aegis of the DBT Star college Scheme)

ON 13TH AND 14TH MAY 2020 (PLATFORM: ZOOM)

BY DR. RADHIKA TENDULKAR

Department of Life Science and Biochemistry, St. Xavier's College (Autonomous), Mumbai

To register for the course, please fill the Google form provided by Monday, 11th May, 2020

Please note: E- Certificates will be provided only to those who attend both the sessions AND submit the assignment (which will be given on the second day of the course) within 10 days.

3. Special pedagogical tools used, other than the lecture method

- 1. Use of multimedia like PPTs
- 2. Youtube Videos and Animations
- 3. Seminar presentation by students
- 4. Quizzes, Assignments
- 5. Online quizzes
- 6. Worksheets Problem solving, Analytical questions
- 7. Flipped Classroom
- 8. Role play
- 9. Working Models
- 10. Debate
- 11. Field Visits
- 12. Collaborative learning and Peer evaluation

4. Any special programs conducted for either/both slow learners and advanced learners.

Though not a formal program, the department actively participated in helping both slow and advanced learners with their queries outside the regular classrooms and laboratories. The staff members invested time and engaged in healthy academic conversations with students regarding doubts about specific topics, projects, report writing, experiments, etc.

5. Research Papers Presented

Research Posters were presented by the Undergraduate students at "Quest-Wider than the Sky", a research meet organized by the college on the occasion of National Science Day on 28th February 2020.

39 undergraduate students represented the Department at Quest-Wider than the sky where they presented their projects done under DBT Star College scheme. There were 17 posters in total.

Titles of the posters are –

T.Y.B.Sc.

- i. Ms. Zahabiya Chinikamwala, Ms. Madhureema Pandya and Iman Dhansey Preliminary studies on microbiological degradation of methylene blue by *Bacillus cereus*
- ii. Ms. Isha Barve and Ms. Prashanthi Sirisilla Preparation of slow release biofertilizer using cellulose nanoparticles and the study of its effect on plant growth
- iii. Ms. Sumaiya Ansari and Ms Rukhsar Khan Qualitative and quantitative detection of Lipase and its application
- iv. Ms. Asma Shaikh and Ms. Shivani Sahay- Microbiological analysis of Ganga water

- v. Ms. Fatima Zarah Arif Chamadiya and Ms. Shabnam Khan Isolation of oleaginous yeast for production of PHB and fatty acids
- vi. Ms. Priya Karnik Isolation and identification of *Bacillus cereus* and determination of the antimicrobial spectrum of the bacteriocin like substance produced.
- vii. Ms. Asmita Khadye, Ms. Jinisha Shah and Ms. Riffat Khan Phytochemical characteristics, antimicrobial and antibiofilm activity of ginger extract
- viii. Ms. Nafia Zahidi and Ms. Radhika Dashottar Detection of pathogens in icecreams produced by large scale manufacturers in Mumbai city
- ix. Ms. Akanksha Basnath, Ms. Bhavika Bhoir and Ms. Jovita Menachery Bacterial pigment extraction to determine its antimicrobial activity.
- x. Ms. Amanda Taffy Valiaparambil and Ms. Sristi Pradhan Studying the importance of shelf life on the quality of butter and mayonnaise before and after the expiry date
- xi. Ms. Delcy Fernandes and Ms. Kashmira Vayeda Antimicrobial activity of biologically synthesized copper nanoparticles and silver nanoparticles.

S.Y.B.Sc.

- i. Ms. Aafreen Ansari, Ms. Shakira Khan and Ms. Vidhi Rathod -Microbiological analysis of Mayonnaise samples served at local snack shops in Mumbai.
- ii. Ms. Lopamudra Panja and Ms. Shilpa Binoj Studying the antibacterial effect of ANTI-BAC Crompton LED bulb on endospore forming bacteria *Bacillus cereus*.
- iii. Ms. Disha Vaidya and Ms. Tiann Jacinto Verification of antibacterial effect of ANTI-BAC Crompton LED bulb on air flora by sedimentation method.
- iv. Ms. Hasnat Khan, Ms. Mudra Joshi and Ms. Shaziya Sayed Studying the antibacterial effect of ANTI-BAC Crompton LED bulb on pigment producing bacteria such as *Serratia marcescens and Sarcina lutea*.
- v. Ms. Jyotinripa Kalita and Ms. Kajal Rai Analysis of water quality in Banganga tank.
- vi. Ms. Pranali Singh, Ms. Riya Kansara and Ms. Safiya Khan Life in Arabian gulf: Isolation and Gram nature of halophilic organisms from Tarout bay, Dammam, Saudi Arabia

6. Workshops/seminars/ Conferences conducted during the year.

- 1. A talk on 'Career options in Medical Laboratory Technology' by Ruzbeh Mowdawala Coordinator DCA, Sophia College, and Prina Shah was organized on 26 th August 2019.
- 2. A talk on Nanotechnology by Deepa Khuslani, Scientist TIFR, was conducted on 30 th August 2019.
- 3. A mini-symposium on Current Challenges on Cervical and Breast Cancers: Facts and Fiction was organized in collaboration with Cancer Patients Aid Association on 4th February 2020.

7. Workshops/seminars/ Conferences conducted on Gender related issues (IPR), during the year.

A mini-symposium on Current Challenges on Cervical and Breast Cancers: Facts and Fiction was organized in collaboration with Cancer Patients Aid Association on 4th February 2020.

8. Extension activities carried out in the neighborhood sensitizing students to social issues for their holistic development

A collection drive was organized by S.Y.B.Sc. and MSc-II students where old clothes were collected. The collected clothes were donated to children of Jagannath Shankar Sheth Municipal School, Grant Road on 10th July 2019. S.Y.B.Sc. students also performed a skit for the above students to show the adverse effects of anger and aggression.

- 9. Capacity Development and Skill Enhancement activities organized for improving students' capabilities; like Soft Skills, Language and Communication Skills, Life Skills (Yoga, Physical fitness, Health and Hygiene) & Awareness of Trends in Technology.
 - 1. Mrs Jyoti Mantri organized a yoga session for students of Sophia College for Women on 21st June 2019, which was celebrated as international yoga day
 - 2. ONLINE COURSE ON SCIENTIFIC WRITING (Under the aegis of the DBT Star College Scheme) Resource person: DR. RADHIKA TENDULKAR, Department of Life Science and Biochemistry, St. Xavier's College (Autonomous), Mumbai The course was designed to equip the students with the necessary tools to excel in both creative and academic writing, as well as in the meticulous task of writing research papers and reports. This was inter-departmental activity in collaboration with the Life Science Department.