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

II. Courses taught

UNDERGRADUATE:

SEMESTER I

Course code	Title	Credits
SBSMCB101	FUNDAMENTALS OF MICROBIOLOGY	2
SBSMCB102	BASIC TECHNIQUES IN MICROBIOLOGY	2
SBSMCBP1	PRACTICALS	2

SEMESTER II

Course code	Title	Credits
SBSMCB201	EXPLORING MICROBIOLOGY	2
SBSMCB202	ADVANCED AND APPLIED MICROBIOLOGY	2
SBSMCBP2	PRACTICALS	2

SEMESTER III

Course Code	Title	Credits
SBSMCB301	BIOMOLECULES AND MICROBIAL TAXONOMY	2
SBSMCB302	ENVIRONMENTAL MICROBIOLOGY	2
SBSMCB303	INTRODUCTION TO CLINICAL MICROBIOLOGY	2
SBSMCBP3	PRACTICALS	3

SEMESTER IV

Course Code	Title	Credits
SBSMCB401	METABOLISM & BASIC ANALYTICAL TECHNIQUES	2
SBSMCB402	APPLIED MICROBIOLOGY	2
SBSMCB403	ADVANCES & APPLICATIONS OF MICROBIOLOGY AND SOFT SKILLS	2
SBSMCBP4	PRACTICALS	3

SEMESTER V

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

Course code	Title	Credits
SBSAPC503	FOOD PRODUCTION AND PROCESSING (General Principles)	2
SBSAPCP503	PRACTICALS	2

SEMESTER VI

Course code	Title	Credits
SBSMCB601	rDNA TECHNOLOGY, BIOINFORMATICS & VIROLOGY	2.5
SBSMCB602	MEDICAL MICROBIOLOGY AND IMMUNOLOGY: PART-II	2.5
SBSMCB603	MICROBIAL BIOCHEMISTRY: PART-II	2.5
SBSMCB604	BIOPROCESS TECHNOLOGY: PART II	2.5
SBSMCBP6	PRACTICALS	6

Course code	Title	Credits
SBSAP C603	FOOD PRODUCTION AND PROCESSING (APPLICATIONS AND Q.A)	2
SBSAP CP603	PRACTICALS	2

POST GRADUATE:

SEMESTER I

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

SEMESTER II

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

SEMESTER III

Course code	Title	Credits
SMSMCB301	TOOLS AND TECHNIQUES: RESEARCH METHODOLOGY	4
SMSMCB302	FOOD MICROBIOLOGY	4
SMSMCB303	ADVANCES IN BIOTECHNOLOGY	4
SMSMCB304	APPLIED AND ENVIRONMENTAL MICROBIOLOGY	4
	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	Title	Credits
SMSMCB401	TOOLS AND TECHNIQUES: BIOMOLECULAR ANALYSIS	4
SMSMCB402	PHARMACEUTICAL MICROBIOLOGY	4
SMSMCB403	ADVANCES IN BIOTECHNOLOGY	4
SMSMCB404	APPLIED AND ENVIRONMENTAL MONITORING & MANAGEMENT	4
	PRACTICALS	
SMSMCBP401	DISSERTATION BASED ON RESEARCH PROJECT AND POSTER PRESENTATION	2
SMSMCBP402	PHARMACEUTICAL MICROBIOLOGY	2
SMSMCBP403	ADVANCES IN BIOTECHNOLOGY	2
SMSMCBP404	APPLIED AND ENVIRONMENTAL MONITORING & MANAGEMENT	2

III. BOS composition

Dr. Arjumanara Surti - Chairperson, Board of Studies

Ms Miriam Stewart - Vice-Chancellor's nominee

Dr. Jyoti Kode - Subject expert from outside the Parent University (ACTREC)

Dr. Annamma Odaneth - Subject expert from outside the Parent University (ICT Matunga)

Mr. Sivan K. - Representative from industry

Ms Nidhi Tomar- Postgraduate alumnus

- Other Members of Faculty Dr. Gainni E. Mapara Ms Suparna Dugal Dr. Rajbinder Kaur Dehiya Ms Shraddha Prabhu Ms Jyoti Mantri Mr. Vijay Vig

IV. Dates of BOS meetings - 19th September 2018 & 23rd March 2019

V. Activities Conducted by the department:

1. Poster Competition titled - Is your life too Plastic?

Date - 13th July 2018 Number of students involved - All UG students



2. Seminar on Influence of Gastric microbial community on the pathogenesis of *Helicobacter pylori*

Speaker – Dr. Verima Pereira Date - 27th July 2018 Number of students involved - 129



3. Field trip to Common Effluent Treatment Plant (CETP), Kopar Khairane, Navi Mumbai Date - 28th August 2018 Number of students involved - 53



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

- 1. Use of multimedia like PPTs, Canva
- 2. Youtube Videos and Animations
- 3. Virtual labs
- 4. Seminar presentation by students
- 5. Creation of infographics
- 6. Quizzes, Crosswords
- 7. Flipped Classroom
- 8. Role play
- 9. Survey based assignments /
- 10. Literature reviews
- 11. Models / Exhibitions / Poster presentations
- 12. Online quizzes

VII. Department/ lecturers having research projects funded by Government (include RUSA), Non-Government agencies, college during the year.

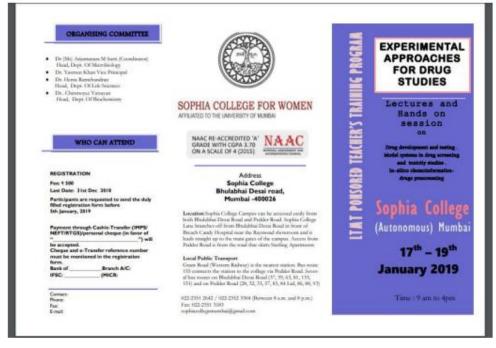
Minor research grant from University of Mumbai for the ongoing project titled, "Preparation of low cost indigenous amperometric whole cell based biosensor".

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LECTURE IN	: Microbiology	
AMOUNT SANCTIONED	: Rs. 79,000/-	
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VIII. Workshop on Experimental approach for drug studies sponsored Lady Tata Memorial Trust

Conducted jointly by the Departments of Microbiology, Biochemistry and Life Sciences) Date: 17th– 19th January 2019

Speakers: Dr. Krishna Ramalingam Iyer, Dr. Vandana Patravale, Dr. Champakali Ayyub & Dr. Aurnab Ghose



REPORT

Twenty college graduate and / postgraduate teachers from Mumbai and other parts of Maharashtra (Jalgaon, Solapur and Kolhapur) participated in the workshop.

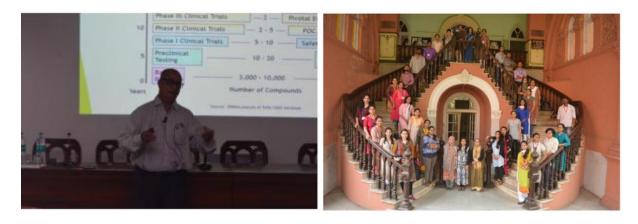
On the first day (17.01.19) the workshop started with a talk on "An overview of drug studies" by Dr. Sasikumar Menon, Director, Institute of Advanced Training and Research in Interdisciplinary Sciences (Therapeutic Drug Monitoring Laboratory) followed by a talk on "Drug discovery and development: Role of model systems" by Dr. Krishna Ramalingam Iyer, Professor, Pharmaceutical Chemistry, Bombay College of Pharmacy and "Thermostable nanosized system" by Mr Prashant instead of Dr. Vandana Patravale, Professor of Pharmaceutical Science & Technology, Institute of Chemical Technology who could not make it to the workshop. This was followed by a hands-on session "Thermostable nanosized systems".

On the second day (18.01.19) a talk on 'Basic principles of xenobiotic metabolism: The cytochrome P450 was delivered by Dr. Krishna Ramalingam Iyer, Professor, Pharmaceutical Chemistry, Bombay College of Pharmacy. He also conducted a hands-on session on "Isolation of cytochrome P450 rich microsomal fraction and its difference spectral measurement". A talk and hands on session on "Zebrafish as a vertebrate model system in drug screening and toxicity testing" was conducted by Dr. Aurnab Ghose, Associate Professor, IISER in the afternoon of the same day.

On the last day of the workshop a talk on "Use of Drosophila as a model system to test drug toxicity" was delivered by Dr. Champakali Ayyub, Ex- Tata Institute For Fundamental Research followed by a hands-on session on the same conducted by Dr. Hema Subramanium of the department of Life Science of Sophia college. The last hands on session was conducted by Mr. Lalit Rajan Samant, Jr. Research Officer Molecular Genetics Research Lab, B. J. Wadia

Hospital for children on "In-silico chemoinformatics- drugs prescreening".

The participants appreciated the fact that all sessions were organized in such a manner that lectures were followed by hands-on sessions. We thank the LTMT for sponsoring the workshop and look forward to many more fruitful interactions.



IX. One credit Certificate Course on Introduction to Scientific Writing for FYBSc students

(in collaboration with Department of Life Sciences) Date - 12th January to 20th April 2019

Number of students involved - 13

SOPHIA CO Autonomous) SEATS: 30

Sophia College (Autonomous) One Credit Certificate Course on Introduction to Scientific writing January – April 2019 "Introduction to Scientific writing" for FYBSc students Resource persons and topics

- 1. Dr. Tina Chakravarty Introduction to basics of Communication and Writing a Book Review (Assignment- Writing a book review)
- Dr. Radhika Tendulkar General norms of academic writing, How to carry out literature search and Why and how to avoid plagiarism (Assignment – paraphrasing exercises)
- 3. Dr. Bhaskar Saha Types of scientific literature, Primary and secondary literature.
- 4. Dr. Andrea Coutinho- Nonverbal communication and Making a Powerpoint presentation (Assignment)
- 5. Dr. Medha S. Rajadhyaksha General Ethics and Types of Plagiarism
- 6. Ms. Nabila Sorathia How to run a plagiarism scan
- 7. Ms. Prabha Suresh Library tour to understand indexing methods
- 8. Dr. Deepak Modi Writing a Research Paper (part II)
- 9. Dr. Bhavana Daswani Writing a Research paper (part 1) and Writing a report
- 10. Ms. Katie Bagli Creative writing and Writing for Spectrum (Assignment- creative article writing)
- 11. Dr. Fatema Bhinderwala Creating a poster for a conference (Assignment- poster making)
- 12. Dr. Hema Ramachandran and Dr. Rajbinder kaur Dehiya Literature survey (Assignment – literature survey report)



their holistic development

1. Slogan writing competition, Short film screening, Exhibition of Innovative Ideas on theme of Break free from plastics

Date - 2 July 2019 & 13 July 2019 Number of students involved - All UG students



2. Vaccination awareness campaign (Poster exhibition) Date - January 2019

Number of students involved - 100



XI. Guidance and career counselling offered to students. Talk on Career options in Medical Laboratory Technology

Speaker – Ruzbeh Mowdawala (Coordinator DCA, Sophia College) and Prina Shah Date - 26th August 2019. Number of students involved - 100