

SOPHIA COLLEGE (AUTONOMOUS) **PRINCIPAL'S REPORT FOR THE YEAR 2018-19**

The year was graced in a number of ways. There was the fact that we were awarded autonomy by the University Grants Commission on 16th July 2018 and by the University of Mumbai on 23rd July 2018 was perhaps the major event of the year – it was galvanic in its impact in every aspect of life in the College. The year was defined in many ways by the various tasks that had to be undertaken, made all the more challenging by the fact that we had started the year as an affiliated college, following all the syllabi and examination patterns of the University of Mumbai. Two months into the first semester came the notification of autonomy! It didn't help that the principal was away at the Frontiers Conference in St Louis, USA, for the first two weeks, but the vice-principals, under the guidance of our Chairperson, Sr Anila Verghese, kept things under control until Sr Ananda returned. There was so much to be done – setting up the various committees, beginning with the various processes, putting systems in place. Most important of all, we had to address the anxieties and concerns of students and parents who were worried about what the newly acquired autonomy would mean in fact. To do this, we had three ninety-minute long “Man ki Baat” sessions in the Bhabha Hall, one each for FY, SY and TY students, where we presented to them something of the way we hoped to use the flexibility of autonomy to revitalise our educational system and benefit the students, and then gave them the space to ask any questions they had. These sessions made a difference, calming the students' fears and stemming the beginnings of an exodus from the college that was threatening to take place. The students began to feel that they were part of the adventure upon which we were all embarked, and excitement about this took the place of fears.



The visit of our Mother General and her Council brought with it a special blessing. While institutional visits were not the primary aim, the brief time spent with us brought home to us that we were part of one Body of the Society of the Sacred Heart, united with all the Sacred Heart educational institutions across the world. It was particularly heartening for us as RSCJ to hear our lay staff, most of whom were not Christian, speaking of “our Mother General” and “our General Council”! Though the time we had

with them was very brief, we were really happy that they could have quality time interactions with each group – teaching and non-teaching staff as well as students! For the staff too, it was a privileged moment, inviting them to realise that they were an important part of this larger body, and were being invited to share in some of the processes that were being undertaken by the RSCJ.



Another grace that we experienced in this year was being awarded the prestigious RUSA grant. This was accorded to very few colleges, and we were privileged to be one of those selected. We were also among those selected to be part of the digital launch by the Hon'ble Prime Minister of entrepreneurial cells and skills hubs being inaugurated in a few institutions across the country. Both these events were important and deeply gratifying in the honour they carry with them, but also challenging in the demands that they have made on our staff and management. We continue to strive to take these initiatives forward in a way that will help our students and enable the college to grow.



Faculty Improvement: Three of our staff members, Rashna Poncha, Lata Pujari and Elwin John, were awarded PhDs. Several staff members attended orientation and refresher programmes. We ourselves were able to conduct a UGC-MHRD sponsored Short Term Course entitled “Gender Sensitisation: an interdisciplinary approach”. This was very well attended and much appreciated both by the participants and the sponsors.

Internal Quality Assurance Committee:

Some of the activities undertaken included

*** Organizing workshops for staff and students:**

- Workshop on “Sexual Harassment in public and works places” was conducted for student on 16th October 2018 by Sophia Centre for Women’s Studies and Development.
- Inhouse workshop held on 13th October 2018, Topic: “Staff Enrichment Programme on Strategic Planning.”
- National seminar on Topic: “Revised PBAS form and API calculation Under CAS and on MOOCs (Development of e-learning delivery process/material),” on 25th January 2019.

*** MIS Upgrade:** Facilitated and assisted in the selection, installation and training for the new cloud-based ERP CCM. Online admissions and payment of fees was initiated.

*** Feedback** was obtained by the use of a cloud based mobile app Alumni feedback as obtained by sending out a questionnaire drafted by IQAC & SCESA (Sophia College Ex-Student’s Association) to all members of the Alumni. A quantitative analysis was obtained and conclusions were arrived at.

*** Helped in collecting data for sending reports** to RUSA, NIRF and other agencies e.g. India Today. And

*** Upgrading the systems in view of the newly acquired Autonomous status:**

- **Website:** Coordinated with various departments and the web designer to update the website, as information had to be changed after we received Autonomy. Coordinated with the web designer at every stage of online admission.
- **College Union Committee (CUC)** was helped in revising the constitution.

Finally, the closing grace, which we only received on 31st July 2019, was the granting of the extension of the service of our Principal from age 62 to 65 years. This would help us to carry forward our dreams and aspirations especially under autonomy and in utilising the RUSA grant.

Academically, the College has continued to do well. We have had to establish Boards of Studies in each department, an Academic Council and a Governing Body as per the guidelines regarding composition laid down by the UGC. These bodies must meet at least twice a year. It has been a good opportunity to interact with persons from other universities and from industry/the professional world for which we are preparing our students. This has helped us to get other perspectives on the various changes we were proposing to implement. It has also helped to streamline our processes while ensuring that we comply with the university, UGC and government regulations.

Curriculum Revision:

All the departments undertook a revision of their syllabi. While planning changes, it was necessary to keep in mind that we had already completed nearly two months of teaching with the old syllabus. In some cases it was possible to implement the changes immediately, and across all the years. In others, where texts had already been purchased, it was necessary to introduce the changes in phased manner, so as to ensure a smooth transition to the new syllabus over a period of time. In all cases, we sought to remain faithful to the rigours of each discipline, factoring in new developments, while ensuring that we respond to the needs and profile of our student body. It has been an exciting process, and with autonomy, we hope to revitalise our teaching-learning processes over the next ten years.

While we have our own Boards of Studies, a number of our teaching faculty are on the Boards of Studies of other autonomous colleges and of the University of Mumbai. This also keeps us aware of new directions and changes being followed in our subjects, while allowing us to contribute creatively and realistically to the development of each discipline.

Assessment:

In the Senior College, autonomy required that we renew our assessment processes. We therefore decided to re-introduce internal assessment as an integral element in our evaluation. An examination committee was set up with Dr Ignat Mendes as Controller of examinations, and Ms Swarupa Kamat and Ms Sandra Mendes as deputy controllers, in charge of 'Conducting Examinations' and 'Evaluation and Results' respectively.

❖ Meetings were held to outline and plan the evaluation procedure

- * Internal Assessment
- * SEE

❖ A schedule was made for evaluation procedure consisting of

- * **Internal Assessment** – format, execution and marks – data –

40 for BMM and MSc, 25 for all other classes

* **Semester End Examinations**– format, conduct of exams



- ❖ Evaluation Procedure included providing three sets of question papers with an answer key, random selection of the paper for the exam, external moderation for all papers, entry of marks in MIS. The regulations regarding the procedure were passed by the Academic Council.
- ❖ **MIS** format was updated to accommodate additional data and make it more easily accessible, and cloud storage was introduced.
- ❖ **Students could apply for reevaluation / re-external/ verification / photo copy**
A notice was put up on the day of declaration giving students 7 days to apply.
- ❖ Results were declared within stipulated 45 days from the end of SEE, both semesters.
- ❖ New marksheets with additional security features were designed and introduced.
- ❖ Passing certificates for TYs were designed and introduced.
- ❖ Forms for Supervisor Reports/attendance, Staff Remuneration, Students reassessment, grievance were simplified.
- ❖ The committee met after the declaration of results at the end of each semester to review the procedures.
- ❖ ATKT of the SEE Exams were held once a year – within 90 days of declaring results.

Teaching Learning Processes:

Each department in Junior and Senior College sought to make their teaching-learning processes relevant and effective. A variety of methods are used to ensure that the experiential dimension is included at every stage. Field trips, experiments, internships, research projects, all seek to ensure that the interface with the external world is invoked, reflected upon and integrated. Mentoring and remedial programmes seek to address the problems of students and help them in different ways. While all the departments employ some form of these student support services, a few have systematised their strategies and maintained clear records of these. We hope to extend this to more and more departments so that, eventually, all the student body has access to these.

Our Junior College too, continues to offer yeoman service to the young women of our city. The HSC results speak of the commitment and dedication of our staff, since even with the inclusion of private candidates (the last year that this facility is being allowed to the students who fail to clear Std XI) the results were an excellent 96.36%, with 96.96% in Arts and 95.05% in Science. We were particularly happy that one of our students,

Niskha, who was the first student to be permitted to answer her HSC examination on an Ipad, due to the unusual nature of her handicap which prevents her from writing or even speaking clearly, scored 73%. Nishka was quoted in the newspapers as saying, “I joined Sophia College after 10th and I received a lot of encouragement and support from the teachers in Sophia and I am grateful to all of them. ... I intend to pursue my degree course in Arts in Sophia College. It has been a huge struggle for me all these years.... However my success at academics is a great motivation and I hope to complete my degree with flying colours.”

Some of the highlights of the Junior College year are given below:

<u>MONTH</u>	<u>EVENT</u>	<u>PARTICULARS</u>
JUNE	INTERNATIONAL YOGA DAY	Students participated in the Yoga by the bay event organised by the education department
JULY	ENVIRONMENT EDUCATION TRIP TO LONAVALA	About 100 students and 4 teachers went for the same.
JULY	VISIT TO NEHRU SCIENCE CENTRE - WORLI	By physics department – about 50 students went for the same
AUGUST	INDEPENDENCE DAY	Peace March To August Kranti Maidan
	DIGITAL SHAKTI	Seminar on misuse of media and cyber crime
AUGUST	NATURE TRAIL TO TUNGARESHWAR - VASAI	By biology department – about 60 students went for the trip
SEPTEMBER	BUSINESS ENGLISH CLASSES PROGRAMME BY CAMBRIDGE ASSESSMENT	For FYJC Students for the whole year
	HEALTH AND HYGIENE DURING MENSTRUATION	Session For FYJC
SEPTEMBER	LECTURE ON SEX EDUCATION	For the SYJC Students
NOVEMBER	FLAG DAY COLLECTION	RS 87000 was collected by FYJC students
NOVEMBER	CHILDREN’S MOVEMENT FOR CIVIC AWARENESS	Workshop consisting of four sessions were conducted by SCESA for FYJC Students

DECEMBER	TALENT DAY, SPORTS DAY	For FYJC & SYJC Students
	ANANYA PROGRAMME	BASED ON THE THEME OF THE YEAR- Poster presentation and Quiz competition in chemistry and exhibition of models in physics
JANUARY	CAREER COUNSELLING	by Pearl Academy
FEBRUARY	HSC BOARD EXAM	FYJC FINAL EXAM
MARCH		
APRIL	STAFF PICNIC	ERANGAL – Madh

Administrative Developments:

The existing MIS programme has been upgraded and a cloud-based ERP CCM (Centralized Management System) has been installed. It consists of the following modules:

- * **Academic Management System** that facilitates Online Registration, Merit list generation, Online fees collection and transfer to Tally. The admission online forms had to be customized as it needed to meet our requirements as an autonomous college. We give a number of subject combinations and the software had to be designed to meet our needs. Change of subject can too be registered and attendance registers have been generated.
- * **Student Administration:** Transcripts, transfer Certificates (TCs) and Leaving Certificate (LCs), Recommendations and Bonafide Certificates can be applied for online and payment for these services can be made online.
- * **The Examination Management Module** is designed to meet the needs of the college. The Annual Student's Management and Result Processing Module is designed to meet the needs of the college. The Annual Student's Management and Result Processing module also generates ATKT Results under Autonomy. This module is in place, results, marksheets and progression reports are being generated.
- * **Student Attendance** is maintained through Campusby, and it has been operational since last year. This mobile based app maintains Attendance records, defaulters list and circulates notices and important information to students. Students fill up the feedback questionnaires on this app and a qualitative analysis of their responses is generated and sent to the IQAC for qualitative analysis.

Research, Consultancy and Extension

A Research Development Cell has been set up to promote and document research activities. Information is given to the staff about new projects. This has helped them in the application process. Five of our faculty members are registered Ph.D. guides. The cell also has a system in place to help researchers get relevant material.

Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	3 years	Dept. of Biotechnology	42,37,100.00	32,73,701.00
	3 years	DBT STAR COLLEGE Scheme	47,00,000.00	29,00,000.00
	2	ICSSR	8,00,000.00	2,00,000.00
	3	CAMA Oriental	2,50,000.00	2,50,000.00
Minor Projects	1 year	University of Mumbai	25,000.00	25,000.00
	1 year	University of Mumbai	79,000.00	--
College	1 year	Barbara Naidu Memorial Scholarship	5,000.00	5,000.00
Students research projects (<i>other than compulsory by the University</i>)		DBT STAR College Scheme	1,00,000.00	1,00,000.00
Total			1,01,96,100.00	67,53,701.00

Details of Major Projects:

- One ongoing research project under the Dept. of Biotechnology awarded to Dr. Yasmin Khan, - The Effect of Retinoic Acid on Migration of the Developing Lateral Line in Zebrafish.
- One ongoing research project under the ICSSR awarded to Dr. (Sr.) Ananda Amritmahal and Dr. Anagha Tendulkar - A Descriptive Study of Hegemonic Configurations in Traditional Folk Performance Forms of Maharashtra
- One ongoing research project under the K.R. Cama Oriental Institute, Mumbai, awarded to Dr. Roymon T.C. – A Comparative Critique of Advaita, Buddhist and Physicalist Views on the Problem of Consciousness

Details of Minor Projects:

- One ongoing research project under the University of Mumbai awarded to Dr Rajbinder Kaur Dehiya – Fabrication of Low-cost Indigenous Amperometric Whole Cell-based Biosensor
- One ongoing research project under the University of Mumbai awarded to Ms Sandhya Kadiru – Evaluation of Acute Mixture Toxicities of Cyfluthrin, Phosmet and Methomyl on Zebrafish embryos

Research Projects undertaken as part of the EXAP programme:

Sr. No.	PRESENTERS	TITLE	GUIDE(S)
1.	Rewa Sharma and Mithuna Unnithan	Understanding the Jews of Mumbai: Realities, Emigration and Minority Status	Dr Rashna Poncha
2.	Siddhika Desai and Sheetal Thomas	Narrative Medicine: Reading Narratives of Cancer Patients	Ms Elwin John
3.	Simi Shibu and Mahima Soni	Mid-Day Meal Scheme – A Nudge to Foster Sustainable Development Goals	Dr Shagata Mukherjee and Dr Sangeeta Dubey
4.	Aditi Paul,	"Representation of World War One in Twentieth Century British	Ms Samrita Sinha

	Ayushi Sharma and Rinu Prakash.	Poetry: Special Focus on Female Poets".	
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Research projects undertaken as part of the EXSP programme:

	Name of the student	Research Topic	Name of the Guiding teacher
1	Manali Patil	Effect of valproic acid on feeding behaviour of Hydra Virridissima	Ms. Aisha Zakaria
2	Priyanka Rodrigues	Detection Isolation and identification of chlorpyrifos degrading bacteria	Dr. Rajbinder Kaur
3	Meghna Talukdar	Detection Isolation and identification of chlorpyrifos degrading bacteria	Dr. Rajbinder Kaur
4	Siddiqui Afifa	Response of developing zebra fish embryos under hynoxic stress to ethanol toxicity	Dr. Yasmin Khan
5	Crissan Miranda	scavenging activity of Pteracarpus marsupium and Vitis viniferaa by using different invitro model	Dr. Prabha Shetty
6	Bhavna Menon	Detection Isolation and identification of chlorpyrifos degrading bacteria	Dr. Rajbinder Kaur
7	Fleme Rodrigues	Antioxidant capacity and free radical scavenging activity of Pteracarpus marsupium and Vitis viniferaa by using different invitro model	Dr. Prabha Shetty
8	Naitika Bhavsarka	Effect of valproic acid on feeding behaviour of Hydra Virridissima	Ms. Aisha Zakaria
9	Eeman Shaikh	Response of developing zebra fish embryos under hynoxic stress to ethanol toxicity	Dr. Yasmin Khan
10	Misbah Ansari	Developmental toxicity of methyl salicylate on zebra fish	Ms. Sandhya Kadiru
11	Jayashree Divekar	Effect of various parameters on pigment production by pigmented bacteria	Ms. Shraddha S Prabhu

Consultancy:

A number of our staff members are invited as consultants at CAS processes, appointment interviews, guest lecturers, practical examinations, PhD assessments and viva-voce.

Activities Undertaken as part of the Star College Scheme:

Department of Life Sciences

Class	Name of the student	Title of the project	Name of the guiding teacher
TYBSc	Slesha Shah Yutika Lad, Sumaiya Shaikh	Biodiversity of butterflies in Sophia College campus	Dr. H Ramachandran
	Wricha Mishra, Blossom Almeida, Aishwarya Nair, Yashaswinee Rai	Geo tagging and mapping of trees in churches of Mumbai	
	Hita Devendra, Mugdha Patil, Sana Shaikh, Dhvani Sakaria	Making compost from hostel kitchen waste	
	Misba Ansari, Parveen Sheikh, Zufshan Zafar	Sensitizing Municipal school students to environment through environment friendly activities and studies	
	Aishwarya Nair, Misba Ansari, Parveen Sheikh	Eco-friendly initiative - Bioplastic synthesis	Dr. H . Subramaniam
	Aishwarya Nair, Wricha Mishra, Blossom Almeida	Small scale Vinegar and Wine Production	
	Mugdha Patil, Blossom Almeida, Sana Shaikh, Dhvani Sakaria	Mushroom cultivation	
		Biodiversity of butterflies in Sophia College campus	
SYBSc	Manali Patil, Samrin Shaikh, Afreen Khan, Sweety Kolambekar	Effect of number of years of pre-schooling on academic outcomes	Dr Yasmin Khan
	Kashmeera Babre, Naitika Bhavsar, Tanisha Mehta, Yuti Patel	Comparative study of different forms of exercise	
	Radhika Pillai, Sheerin Shaikh, Soyba Qureshi, Romana Chaudhary,	To study the effect of lifestyle on Body Mass Index	
	Michelle Pereira, Padmavati Vaishya, Shruthi Sawulla, Shifa B,	Effect of lifestyle on acne	
	Zia Shaikh, Namira Kadri, Zeba Shaikh,	To prepare a pedigree chart using tasting of phenylthiocarbamate	
	Flevia Nunes, Alisha Gonsalves,	Effect of lifestyle habits and wearing of spectacles	
	Rimsha Khan, Tasneem Patrawalla, Bushra Vasta	Correlation of blind smell and taste	
	Zarafshan, Reenam Shaikh, Afiya	Survey to determine the extent of addiction to smoking and hookah among	

	Nawrungay, Saima Khan	the youth and testing for their awareness to its ill effects	
	Eeman Shaikh, Afifa Siddiqui	In silico based drug screening of Phytochemicals derived compounds from <i>Ficus carica</i> potential drug for metastatic breast cancer	
		Using PubMed for Epidemiological Survey	Dr Anuttama Kulkarni

**Excellence in Science Program (EXSP) Project
And Aavishkar Research Meet Presentation, Mumbai University**

Class	Name of the students	Title of the project	Name of the guiding teacher
TYBSc	Ananya Chatteraj, Aishwarya Nair and Saunri Dhody-Lobo	Effect of Beta agonists on heart beat rate of <i>Drosophila</i>	Dr. H. Subramaniam

Department of Microbiology

Projects undertaken

Class	Name of the student	Title of the project	Name of the guiding teacher
TYBSc	Ms Tasneem Patanwala	Study of antimicrobial activity of different commercial hand washes against common skin pathogens.	Dr Arjumanara M Surti
	Ms Ananta Sharma	Determination of efficacy of various commercial hand washes and their antimicrobial spectrum	
	Ms Leena Pilankar	Antimicrobial activity of hand washes against common skin pathogens	
	Ms Shraddha Yadav	Antimicrobial activity of hand washes against common skin pathogenic bacteria	
	Ms Juili Mirgule	Antimicrobial activity of different hand washes on common skin pathogenic bacteria	
TYBSc	Ms. Mahima Arun	Microbiological analysis of rose flavoured milk for detection of <i>Shigella</i> species.	Dr. Rajbinder Kaur Dehiya
	Ms. Bilquis Warsi	Microbiological analysis of rose flavoured milk for detection of <i>Salmonella</i> species.	
	Ms. Disha Jain	Microbiological analysis of rose flavoured milk for detection of <i>B. cereus</i> .	

	Ms. Olivia Lopes	Microbiological analysis of rose flavoured milk for detection of Listeria species.	
	Ms. Nadhiya Sekar	Microbiological analysis of rose flavoured milk for detection of <i>E. coli</i> .	
	Ms. Ayesha Sheikh	Isolation of oligophilic bacteria from soil	Ms.S.Dugal
	Ms.Masooma	Synthesis, characterization and antimicrobial activity of silver nanoparticles made using <i>E.coli</i>	
	Ms. Ayesha	Synthesis, characterization and antimicrobial activity of silver nanoparticles made using ginger leaf extract	
	Ms. Sadiya	Synthesis, characterization and antimicrobial activity of silver nanoparticles made using papaya leaf extract	
	Ms. Manisha	Synthesis, characterization and antimicrobial activity of silver nanoparticles made using algae	
	Ms Aishwarya Gohil	The five second rule	Jyoti Mantri
	Ms Aasiya Khan	Safety of dropped food	
	Ms Romalee Sangeeta	Scientific analysis of the five second rule	
	Ms Shradha Kadve	Dropped food and the five second rule	
	Ms Pallavi Baabar	Does the five second rule apply to all food items?	
TYBSc	Lakshita Worlikar	Microbiological analysis of chocolate pastry from Iyengar bakery shop (Worli): Staphylococcal contamination	Shraddha Prabhu
	Meghna Khanna	Microbial spoilage of Bakery products(Yeast and mold count)	
	Anushri Bhopi	Microbiological analysis of chocolate pastry (Coilform count)	
	Sailee Sawant	Microbiological analysis of chocolate pastry(detection of Salmonella)	

	Shweta Karekar	Microbiological analysis of chocolate pastry (Detection of Listeria)	
TYBSc	Amena Rizvi	Isolation of mesophilic microorganisms producing industrially important enzymes from soil samples of Sophia College campus (Amylase)	Vijay Vig
	Nagma Khan	Isolation of microorganisms producing industrially important enzymes (Lipase)	
	Nazira Vadnagra	Isolation of microorganisms producing industrially important enzymes (Cellulase)	
	Anam Shaikh	Isolation of microorganisms producing industrially important enzymes (Protease)	
	Pratiksha Soni	Isolation of microorganisms producing industrially important enzymes	
TYBSc	Ayesha Siddiqui	Antibacterial activity of artificial v/s natural substances on various organisms.	Dr.Gianni Erevelles Mapara
	Anna Salom	Antibacterial activity of natural versus artificial substances on various organisms.	
	Priyanka Gupta	Antibacterial activity of natural versus artificial substances on various organisms.	
	Sana Farooqui	Antibacterial activity of artificial v/s natural substances on various organisms.	
	Fatema Indorewala	Antibacterial activity of natural versus artificial substances on various organisms.	
SYBSc	Analiza D'Souza	Microbiological analysis of street vended food: Paani Puri from Girgaum Chowpatty beach, Mumbai	Dr Arjumanara M Surti
	Sumana Kundu	Bacteriological Analysis of Vended Food: Paani Puri collected from Girgaon Beach, Mumbai	
	Meghna Talukdar	Microbial analysis of Paani Puri	
	Aliya Khan	Study of formation of biofilm in natural environment using tooth tartar.	
	Varsha Saroj	Study of biofilm	
	Sabina Shaikh	To compare effect of homemade neem water extract with commercially available neem face washes on skin pathogens	
	Fauziya Shaikh	Microbiology analysis of milk	

	Aisha Shaikh	Microbiology analysis of milk	
SYBSc	Alfiya Khan	Isolation of soil actinomyces cultures	Shraddha Prabhu
	Bushra Ansari	Detection of amylase activity of soil actinomyces	
	Saima Bijapore	Detection of protase activity soil actinomyces	
	Naziya Baig	Detection of gelatinase activity soil actinomyces	
	Sidra Sayyed	Detection of lipase activity soil actinomyces	
SYBSc	Bhavana Menon	Microbiological quality of synthetic orange juices	Shraddha Prabhu
	Pooja Pithadia	Microbiological quality of orange juice	
	Krushika	Microbial quality of synthetic orange juice	
	Shraddha Jaiswal	Microbiological quality tests for fruit juice(orange) from different railway stations in Mumbai	
SYBSc	Misbah Ansari	Microorganisms responsible for spoilage of Epigamia Greek yogurt	Shraddha Prabhu
	Farheen Khan	Selection of preservative to prevent spoilage of Epigamia Greek yogurt	
SYBSc	Rosephil Coutinho	Isolation of thermophiles from mountain ice, Shimla soil and Beas river sample.	Vijay Vig
	Simran Shaikh	Presence of thermophiles in cool temperate environments	
	Shagufta Shaikh	Presence of thermophiles in cool temperate environments	
	Saraswati Maddili	Study of thermophilic microorganisms from Shimla soil, Beas river, Mountain ice sample.	
	Tahseen Shaikh	Study of thermophilic microorganisms from Shimla soil, Beas river, Mountain ice sample.	
	Almas Malkani	Study of thermophilic microorganisms from Shimla soil, Beas river, Mountain ice sample.	
	Joyliza D'Costa	Study of thermophilic microorganisms from Shimla soil, Beas river, Mountain ice sample	
	Huda Qureshi	Isolation of thermophiles from samples of Shimla mountain ice, Shimla soil sample and Beas river.	
SYBSc	Crissan Miranda	Antimicrobial activity of Neem, Tulsi and Aloe vera	Vijay Vig

	Fleme Rodrigues	Antimicrobial activity of Neem, Tulsi and Aloe vera	
	Vedangi Parab	Antimicrobial activity of Neem, Tulsi and Aloe vera	
	Priyanka Rodrigues	Antimicrobial activity of, Tulsi, Neem and Aloe vera	
	Alicia D'Souza	Antimicrobial activity of Neem, Tulsi and Aloe vera	
	Fravela Gonsalves	Antimicrobial activity of, Tulsi, Neem and Aloe vera	
	Shaima Parkar	Antimicrobial activity of Tulsi, Neem, Mint and Aloe Vera	
SYBSc	Zakera Khan	Isolation of bacteria causing dandruff and checking their antibiotic susceptibility.	Dr. Gianni Erevelles Mapara
	Nusrat Siddiqui	Isolation of bacteria causing dandruff and checking their antibiotic susceptibility.	
	Sadaf Shaikh	Isolation of scalp dandruff and test for antibacterial sensitivity.	
	Umme-roomaan Qureshi	Isolation of bacteria causing dandruff and checking their antibiotic susceptibility.	
	Alekhya Thouty	Study of dandruff causing bacteria and checking antibiotic susceptibility	
	Shaista Sayed	Isolation of scalp dandruff and test for antibacterial sensitivity.	
	Jayashree Divekar	Study of dandruff causing bacteria and checking antibiotic susceptibility.	
FYBSc	Class project	Preparation and efficacy testing of Azotobacter based biofertilizer from isolates obtained from soils in Mumbai	Dr. Gianni Mapara, Ms. Jyoti Mantri, Ms. Suparna Dugal, Dr. Rajbinder Kaur Dehiya and Mr. Vijay Vig

Department of Chemistry

Class	Name of the Project	Remarks
Entire TY B.Sc	Dyeing of various types of fabric using different types dyes.	

Entire TY B.Sc	Use of microbes in composting	Presented on Science Day Meet
TY B.Sc (3 units)	Estimation of calcium in milk/milk powder	
Entire TY B.Sc (6 units)	Estimation of Ca in milk powder	Research Based Pedagogical tool
Entire TY B.Sc	Students designed and standardized an experiment to determine calcium carbonate quantitatively in toothpaste.	Five different experiments were designed and standardised in the class.
Entire TY B.Sc	‘Solving a murder mystery with help of stereochemical evidence’	RBPT
Entire TY B.Sc	Jam Preservation	RBPT
Entire FY B.Sc	Identification of different indicators	

Composite Department (Biochemistry, Zoology, Physics)

List of Projects

Class	Name of the student	Title of the project	Name of the guiding teacher
TYBSc	Ms. Ayesha Shaikh	Nanoparticles of silver and zinc oxide: synthesis, characterization and application in a novel skin formulation	Dr. Meeta Saxena Physics Department
TYBSc	Ms. Ayesha Shaikh	Effect of silver and zinc nanoparticles on Zebrafish (<i>Danio rerio</i>)	Dr. Sandhya Kadiru, Zoology Department

It is surely the case that schooling is only one small part of how a culture inducts the young into its canonical ways. What we resolve to do in school only makes sense when considered in the broader context of what the society intends to accomplish through its educational investment in the young. How one conceives of education, we have finally come to recognize, is a function of how one conceives of culture and its aims, professed and otherwise.(Jerome S. Bruner)

In light of this, it is important to indicate the various ways in which we encourage our students to engage with social and political issues that arise in the world around.

The Annual Theme of the year was “Education to Excellence through Integrity”. The theme was explored and developed through curricular and co-curricular activities (culminating in ANANYA) in all the departments in both Junior and Senior College.

Elements of the theme that were highlighted in activities as well as classroom discussions relating to current events. Some of these initiatives took place through organised events which are listed below.

Consolidated Peace Week Report 2018 - 2019

1. Sophia College English Dramatics Association— Club Report

On the 7th of August, SCEDA in association with NSS organised an open mic session for peace week. The topic was Communal Harmony and students could express themselves in whatever form they liked. The competition was open to all students and it was judged by Dr. Rashna Poncha. The winners were Aishmeet Kapoor and Archi Srivastava.

2. Bharatiya Sanskritik Parishad

The academic year for the club started with event that was held in August. The first event that our club conducted was done celebrating the peace fortnight week, on 14th August 2018. The theme of the function was patriotic song. The event was judged by Ms.Nivedita Iyer. The young and talent artists were well appreciated and valuable feedback was imparted. There were ten contestants in the competition. Various patriotic songs were sung. The songs ' Ae Watan ' from the film 'Raazi' and ' Des Rangila ' from the movie ' Fanaa ' were among the songs sung and got the loudest cheers from the crowd. Rishita Duggal won the competition, winning hearts of many with her voice.

3. The Students Social Reformer Initiative

Date Of Event: 16th August, 2018.

Description: Peace Week is the time to celebrate togetherness within the community and is a time for us to think about creating harmony and empathy in this fast paced world. We aim to raise awareness, deal with problems amicably and learn to love and respect one another. Peace Week, 2018, was held on the 15th of September and ended on the 23rd.

The Students Social Reformer Initiative club, of Sophia College for Women, decided to start off the week with a deep, emotive film screening. The film, 'Disturbing the Peace', is a touching documentary released in the year 2016, that revolves around the former enemy combatants- Israel and Palestine.

4. ART AND DESIGN CLUB

DATE - 2nd August, 2018

EVENT - Doodle for Peace- Peace Week

DESCRIPTION - Doodling is a hobby for most people and is often a stress buster for many. The art and design club organised a "Doodle for Peace" competition on the 2nd of August at 1:30 PM, Room 32. The aim of the competition was to spread messages of peace and harmony with a casual form of art like doodling. We had around 10 competitors who all seemed to be very excited about the activity. The winner's artworks were uploaded on our social media page and they were tagged to give the artist more exposure and a platform. The winners were Carren Dabre, Nandini Papriwal and Nida Husain.

5. SIGMA

Our first event of the academic year was a documentary screening, which took place during Peace week, on 10th August 2018 which is an important time of the year. The SIGMA club began the year with screening a documentary series called "Three Short Films About Peace". This movie screening was also intended as a bonding exercise for SIGMA members.

6. Sports Club

Independence Day celebration was also organized in honor of the nation and the flag hoisting session followed, after with our principal and teachers inspired us with their few words on patriotism. The department also organised a "Peace March" on the Independence Day (15th August) from College to August Kranti Maidan with a large participation from the college students along with teaching-non teaching staff.

CO-CURRICULAR ACTIVITIES UNDER ANANYA

Department of Biochemistry and Quality Assurance had organized Ananya'17 "HONOR IT UP - AGAIN!" on Friday, 8th February, 2019 in the central lawn. This comprised of

- competition of fun filled activities for the participants, which were time bound and had to be performed with integrity resisting temptation to cheat. Around 200 students from B. Sc, M. Sc and B. A. classes had registered. Each team had to perform a task which was judged. The winners of the competitive events were awarded certificates, medals and prizes.
- fun games for all e.g. Ball Toss, Dungal, Build It Up, Telephone String, Eye like a Spy, Bachpan ke Gaane, Descriptionary, Sach ka Samna (friendship), Chemical Integrity, Twister, Bachpan ki yaadein
- community kitchen. A simple nutritious and tasty khichdi was prepared and shared by all in the college.

The Department of English organized a talk as part of the *Ananya* week. The event was organized in collaboration with the Australian Consulate. Mr. Markus Zusak– a renowned writer– was invited on 19th January, 2019 at 1:00 P.M. for an interactive session with the students in the A/V Room. About fifty students attended the session, which was aimed at discussing the art of storytelling and the construction of characters in stories. Mr. Zusak further spoke about the nuances in writing and initiated the students into the layers of a plot in a story. The talk was followed by a conversation where Mr. Zusak answered the various questions presented by the students. He discussed in detail the manner in which he wrote *The Book Thief* – his bestseller and on the ample amount of time spent in editing a novel.

The BMM department carried out Ananya activities in phases over the course of six weeks, beginning in the last week of December 2018 and ending in the first week of February 2019.

- Student members of the **BMM Book Club** organised a **collection drive of interesting fiction and non-fiction books catering to young readers** from December 23, 2018 to January 31, 2019. These books were then taken across by the students to the Worli Sea Face Municipal School on February 4, 2019. The Book Club members also engaged in an interactive session with the students of the Municipal School through the process of sharing the books with them.
- **FYBMM students** organised a two-week-long **collection drive of old clothes** from January 12 to 25, 2019. These clothes were then donated to the NGO, Goonj,

which uses the under-utilised and excess urban household material to aid rural development across 23 states in India.

- SYBMM students organised “**Sugar Rush**”, a **bake sale** as part of the department’s Ananya activities, on January 16 and 17, 2019, the proceeds of which were donated in the form of gifts to a **daycare centre run by the Smile Foundation in partnership with SHED, Society for Human & Environmental Development**, in Andheri.

The department of Mathematics and Statistics organized “**Studo- Ludo with a twist**” on January 24, 2018 in room no 11. Along with the participant s’ mathematical and statistical skills, the game tested their logic, presence of mind and patience. The questions were based on statistical and mathematical concepts and logical reasoning questions.

The Department of History organised a Poster Exhibition of World War I to commemorate the Centenary of the end of the First World War. The event was held on two days viz. 24th and 25th January 2019. It included information on the role played by Indians and Women in the war.

The Departments of Psychology and Microbiology conducted a joint Ananya activity on 25th February 2019: s session on “LGBT- the psychological perspective”. Students were encouraged to rethink their prejudices and stereotypical ideas about those whom they perceive as different or other.

The department of Life Sciences and Department of Education collaborated to



organize an event to create an awareness of the distress experienced by farmers of our country: in this event the students focused on the drought scenario of Maharashtra. The traced the district wise grim picture of our state farmers. This was followed by associating the type of cropping form these districts

and the input cost for the cultivation of the crop. The students represented the data of the crop cultivated, produced and water requirements for the same. Based on the type of crop affected the students selected those ingredients in preparing nutritious food snacks and sold them at the canteen extension.

Title of other extension activities	Organizing unit/ Collaborating agencies	No. of lectures co- ordinated in such activity	No. of students participated in the activity
Volunteers for General Animal Awareness at Local Byculla Zoo.	Chemistry Department - Along with College NSS and BMC.	1	32
WWF Creating awareness about environment at BMC schools.	Chemistry Department - T.Y students volunteered	1	34
Placement/volunteer Activity	Different NGO's, Schools, Institutions in the city	1	160
Blood Donation - Nair Hospital	NSS	2	115
Blood Donation - TATA Hospital	NSS	2	135
Tree Plantation	NSS	2	200
Self defence	NSS	2	27
Municipal School teaching	NSS	-	30
Road safety area project	NSS	2	400
Yoga Training	NSS	2	40
Thalassema check up	NSS	2	153
Organ donation (street play)	NSS	2	10
Area project - Health & Hygiene	NSS	2	204+53
Programmes on conservation water/ Harvesting water shed development. Bhandara making in Adopte Village Itashi	NSS	2	30
Plastic collection	SSRI	2	100
Animal first / water for all	SSRI collaboration World for all	2	30
Newspaper collection	SSRI collaboration World for all	2	50
Animal assisted therapy	SSRI collaboration Animal Angels Foundation	2	65
Online Campaign for mental health	SSRI	2	5
Trip to Sanjay National Park - Environmental awareness	SIGMA		38
E-Waste collection	SIGMA		

Sophia Centre for Women’s Studies and Development:

The eleventh issue of “*Urdhva Mula*”, April 2018, our multidisciplinary journal, ISSN 2277-7954, was published.

PEER REVIEW COMMITTEE MEMBERS

Sr. No.	NAME and ORGANISATION	EXPERTISE
1	Sr. Anila Verghese (Sophia Polytechnic, Mumbai)	History
2	Prof. Kunal Chattopadhyay (Jadavpur University, Kolkata)	European Socialist movements, Radical Politics in India, Gender Studies.
3	Dr. Swarna Rajagopalan (The Prajnya Trust, Chennai)	Political Science and International Relations
4	Prof. Samapti Guha (Tata Institute of Social Science, Mumbai)	Economics
5	Prof. Bulbul Dhar (Jamia Millia Islamia University, New Delhi)	Political Science with specialization in Human Rights
6	Dr. Veena Devasthali (SNDT University, Mumbai)	Macro Economics, Development Economics, Economics and Labour
7	Jaya Singh (NCERT, New Delhi)	Economics
8	Prof. Geraldine Forbes (State University of New York Oswego, USA)	History
9	Dr. Sucharita Pujari (Centre for Gender Studies and Development, NIRD, Hyderabad)	Social researcher trained in Population Studies
10	Dr. Michelle Stack (University of British Columbia)	Media Education and media-academic communication
11	Dr. Linda Lane (University of Gothenburg, Sweden)	Social Work, European Studies, Global Studies
12	Dr. Alice Clark (University of California, Berkeley)	History, Gender and Society in India
13	Dr. Geeta Balakrishnan (Nirmala Niketan College of Social Work, Mumbai)	Social Work

14	Dr. Kumkum Roy (Jawaharlal Nehru University, Delhi)	Gender and Development Studies
15	Dr. Shagufta Kapadia (M.S. University, Baroda)	Human Development and Family Studies

LIBRARY AND DOCUMENTATION

- Library membership is open to all students.
- The SCWSD collection of fiction and non-fiction books has been greatly enhanced through the generous donation of institutions and individuals. The library has a stock of posters on gender issues collected from national and international NGOs.
- Many students utilised the internet and printout facilities provided by SCWSD.
- Sophia Centre for Women’s Centre for Women’s Studies and Development had an addition of 30 new books to the already existing 2616 books on the shelves since April 2018. There was no change in the newspaper subscriptions of the library and it remained at the previous recorded number of 7, with its regular magazine supplements.
- Two new journals, (ie, ‘Social Action’ and ‘Women’s Link’) were added to the list of Journal/magazine subscriptions. However, due to the discontinuation of one of the journals (‘One India One People’), the final number of journals subscribed to, by the library, stands at 7.

RESEARCH

SCWSD has always been actively involved in research projects focussing mainly on women and issues related to them, since its inception in 2001. In keeping with this ideology, SCWSD in the year 2017-18 secured a research grant from ICSSR (Indian Council of Social Science Research) to study three unique forms of traditional folk art in Maharashtra. The folk art of Maharashtra is multi-faceted and fascinating. For centuries, these folk arts operated with the intention of reaching out to the masses, to the lay population, with the purpose of entertaining, educating and enlightening them. Folk culture exhibits the values, beliefs, behaviour of people in society. With the advent of the phenomenon of the ‘Global village,’ the forms of folk art of Maharashtra demand special attention and acknowledgement. This project attempts to analyse four folk art forms of Maharashtra - *Kirtana*, *Bharud*, *Lavani* and *Povada*, using two ascribed identities of society members - Gender and Caste. Traditionally some of these folk arts, *Kirtana* and *Povada*, were dominated by male performers, while *Lavani* was performed by women along with their female

singers and male musicians. This project is a conscious, systematic effort to unearth the existent but subtle inequalities in the multiple folk expressions to comprehend the impact in its totality. This study aims to appraise the folk art forms in Maharashtra to describe gender and caste hegemonies. In addition, this exercise would scientifically describe the power equations within, thus arriving at a deeper insight and clearer understanding of the politically meaningful hegemonic configurations.

COURSES AND INSTRUCTION

SCWSD conducts multiple courses throughout the academic year, all of which are designed to address the needs of a diverse set of students. Hence, while the emphasis of some was on the acquirement of skills, others focused on the acquirement of knowledge. As is norm every year, this year too the Sophia Centre for Women’s Studies and Development conducted five career-oriented Certificate courses in Women’s Empowerment; Social Work Focusing on Issues Related to Women and Girls; Basics in Baking; Social Research Methods as well as Food and Nutrition.

Women’s Leadership Training Programme

Conceptualised as a programme to empower Catholic women, the course is the result of collaboration between SCWSD and the Bombay Archdiocesan Women’s Commission. The course was held between 21st July, 2018 and 2nd September, 2018, at Holy Cross High School, Kurla, Mumbai, the participants were drawn from different dioceses in Mumbai. The aim of the course is to infuse the participants with leadership qualities, and inspire them to take charge of a larger locus of control within their lives as well as within their own parishes. The detailed programme is as follows:

DATE	RESOURCE PERSON	TOPIC
Sat. 21 July	Sr. Philomena D’Souza	Introduction, Women Empowerment [C]
Sun. 22 July	Sr. Philomena D’Souza	Women Leadership [C]
Sat. 28 July	Sr. Ananda Amritmahal	Women’s Studies & History of the Women’s Movement
Sun. 29 July	Adv Veena Johari	Women’s Legal Rights

Sat. 4 Aug	Chrisann Almeida- Creado	Assertiveness Training
Sun. 5 Aug	Dr Astrid Lobo Gajiwala	Gender Sensitization
Sat. 11 Aug	Vasundhara Sanghi	Basic Counselling Skills I
Sun. 12 Aug	Vasundhara Sanghi	Basic Counselling Skills II
Sat. 18 Aug	Sr. Patricia D'Souza	Rational Emotive Behaviour
Sun. 19 Aug	Marcia D'Cunha	Public Speaking [C]
Sat. 25 Aug	Sr. Ananda Amritmahal	Jesus' Vision for Women
Sun. 26 Aug	Virginia Saldanha	Gender Policy of the Catholic Church [C]
Sat. 1 Sept	Dr. Angelica D'Souza	Women's Health Matters

WORKSHOPS and SHORT-TERM COURSES CONDUCTED

In the academic year 2018-2019, SCWSD organised several workshops in keeping with current topics of concern and interest in the society, which were above all to the benefit of those participating.

The order of the workshops were as follows:

Menstrual health and hygiene for adolescents in collaboration with UNICEF was organised on the 21st of August, 2018 for the Junior College students of Sophia College.

Personal effectiveness for the mind, body and soul by corporate trainer and life coach Erica De Souza on 18th September, 2018 for undergraduate FY and SY students.

Sexual harassment in public and workplaces in collaboration with IQAC by Adv. Audrey D'Mello from Majlis on 16th October, 2018.

Short term course 'Encapsulating Gender: A Multidisciplinary Perspective' from (14-20)th November, 2018 conducted for the Lecturers of Mumbai and other Universities. The course viewed several diverse topics from the subjects of Economics, Sociology, Psychology, Political Science as well as English Literature through a gender lens.

SRM Annual Lecture Series on Gender and Mythology with Dr. Devdutt Pattanaik in collaboration with BMM department.

Short term course for Senior Citizens titled ‘Sugar and Spice’ covering topics on health, wellness, nutrition, technology, dance and art therapy. From (9th Jan -6th Feb), 2019, in association with SCESA.

Short term course on ‘Knowledge Systems of Ancient India’. The course was conducted for the first time this year, in collaboration with the History department of Sophia College.

Short term Course on ‘An Introduction to Scientific Writing’. The course was conducted for the first time this year, in collaboration with the Life Science and Microbiology departments of Sophia College. The participants were F.Y.B.Sc students who were introduced to basics of communication, norms of academic writing, literature surveys, ethics and plagiarism, research paper writing and effective presentation techniques among other topics.

OUTREACH INVOLVEMENT

As part of its outreach programme, the SCWSD conducted six self-defence workshops in the month of January 2019. Mr. Vijay Kamble, the chief instructor of the programme, along with his team trained 740 girls from 5 schools from the Vasai-Virar belt. The various self-defence techniques involved kicking, boxing as well as punching. The team also aimed at imparting a sense of awareness in the girls that it was important for them to be vigilant and prepared. The feedback received from Principals and teachers of the schools affirmed that the workshop was well received by the students and that the training proved to be indeed necessary, helpful and empowering.

Name of School

- 1) St. James English High School kumbharwada, Agashi, Virar (west)
- 2) St. James High School, Agashi, Virar (west)
- 3) Dr. N. P. Shaha High School , Agashi, Virar (west)
- 4) K.G.High School, Agashi, Virar (west)
- 5) N. P. Galvankar High School, Arnala, Virar (west)

SCESA:

- SCESA has initiated an E-Teach learning programme in Dahanu district.

CONCLUSION

The college was ranked 3rd in Mumbai and 20th in the country for Arts, and 3rd in Mumbai and 31st in the country for Science by INDIA TODAY. It is important to us to continue to strive to keep the standards high, so as to ensure that the tradition we have inherited may be kept alive, developed and handed over healthy and shining to the next generation. With autonomy, the possibilities stretch out before us – we need to engage with our future in a planned and focussed way, building upon our strengths, minimising weaknesses, grasping every opportunity and addressing our challenges with vision, courage and faith. We look forward to taking this process forward with confidence and mutual trust.

September 2019



Dr. (Sr.) Ananda Amritmahal
Principal