



ST. XAVIER'S COLLEGE

(AUTONOMOUS)

**5, Mahapalika Marg, Mumbai - 400 001,
INDIA.**

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6.5.3: COLLABORATIVE QUALITY INITIATIVES WITH OTHER INSTITUTION

- ❖ **2019 - 2020**
- ❖ **2018 - 2019**
- ❖ **2017 - 2018**
- ❖ **2016 - 2017**
- ❖ **2015 - 2016**



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2019 - 2020



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Collaborative activity: Popular lecture Series on “Genomics Landscapes of tumours” in collaboration with Indian Women Scientists Association, Mumbai and Caius Research Laboratory, St. Xavier's College, Mumbai

Date: 11th July 2019



**Popular Science Lecture Series
2018-19**

Organized by

**Indian Women Scientists'
Association,
Vashi, Navi Mumbai**

Supported by BRNS-DAE

In association with

**Caius Research Laboratory,
St. Xavier's College (Autonomous),
Mumbai**

Lecture on

“Genomic Landscapes of Tumors”

by

Dr. Manoj Mahimkar
Principal Investigator,
Cancer Research Institute

Advanced Centre for Treatment, Research and Education in Cancer
Tata Memorial Centre, Kharghar, Navi Mumbai

Venue: MMR, First Floor,

St. Xavier's College - (Autonomous), Mumbai
5, Mahapalika Marg, Mumbai, 400001

Date and Time

Thursday, 11th July, 2019, 3.00 pm

ALL ARE CORDIALLY INVITED TO ATTEND



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Collaborative Activity: National Society of the Friends of the Trees, Mumbai – St. Xavier's College, Mumbai- National Seminar on 'Tree Ecology and Urban Forest Management'

Date: 13th February 2020

The Botany Department and National Society of the Friends of the Trees under the aegis of RUSA organized a national seminar on 'Tree Ecology and Urban Forest Management' on 13th February 2020. Registration and signing of participants and distribution of kit was done from 8.30 am at registration desk in front of college hall. The participants had their breakfast and sat for the seminar.

The compering of the whole seminar was done by Mr. Harsh Pant (Msc-II). The seminar was inaugurated by Dr. Rajendra Shinde (Principal) and Dr. Ashok Kothari (President, The National Society of the Friends of the Trees). Dr. B. Nagarajan, Scientist G, Institute of Forest Genetics & Tree Breeding, Coimbatore gave the keynote address on 'Making Trees in India: Addressing Conservation Solutions and Industrial Needs'. Dr. Nagarajan was introduced by our FYBSc visually challenged student Mr. Yagnit Vadhel.

Other renowned speakers included Professor Amit Lahiri, Chief Sustainability Officer, O. P. Jindal Global University, Delhi, who spoke on 'Ecologies, Communities & Markets: A Tale of Two Trees in the Western Ghats' through his presentation. Dr. Mandar Datar, Scientist C, Agharkar Research Institute, Pune, spoke on 'Forests of Northern Western Ghats: New Insights from Old Habitat'. Dr. H. S. Singh, Ex- Principal Chief Conservator of Forests, Gujarat State, gave an illustrated talk on 'Urban Forestry'. Dr. Advait Edgaonkar, Assistant Professor, Indian Institute of Forest Management, Bhopal gave a talk on 'Valuation of Ecosystem Services'.

After the inauguration of the seminar, the newly formed 'Botany Association of Xaviers' was inaugurated and a brief introduction of all the activities of the association was given by SYBSc student Anushka Agarwal (SYBSc). The Committee members included General Secretary Mr. Harsh Pant, Assistant General Secretary Ms. Anushka Agarwal, Treasurer Ms. Aditi Nimbalkar (Msc-I) and Events Head Ms. Shirin Khan (MSc-I), and coordinator Ms. Aqsa Majgaonkar (SYBSc). After the introduction, the committee members took a photograph in front of the stage.

Under the guidance of Dr. Vijaya Lobo (Botany Dept) around a theme of 'reuse, recycle and innovate', the MSc-I students Ms. Shirin Khan and Ms. Saloni Kothari kept exhibits of cloth materials, cloth bags colored with natural dyes, and also Eco-friendly lip balms, under their newly started brand 'Salrin' making use of natural dyes from fallen tree remains and naturally available resources to protect the environment and keep the consumer safe from harmful chemicals.

Also Ms. Jidnyasa Tare assisted by Ms. Aditi Nimbalkar exhibited 'Biojewellery' made from waste things aimed at keeping touch with nature, reuse and redecorate things. The things which



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Rajendra Shinde
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are generally assumed as waste were reused as creative articles, eg. the pista shells were taken and keychains, earrings were made from it. Two ex-students Ms. Faahmida Khawja and Ms. Shalu Singh (ex-students) also brought some succulent plants in small pots as exhibits. The plants required very less water and could be kept for decorating rooms in office and house.

Mr. Praveen Kale, Assistant Curator of Blatter Herbarium also exhibited herbarium plant specimens and publications (books) of Blatter Herbarium which were kept even for sale.

The exhibition was kept open during the lunch time and during the tea breaks. The people were very enthusiastic in observing the exhibits, even a group of 15 Japanese students visited the exhibit stalls.

After the talks were over, a summary of the seminar was given by Dr. Sashirekah Iyer (former Head of Botany Dept, Mithibai College, Mumbai). After this a vote of thanks was given by Dr. Vijaya Lobo (staff, Botany Dept). Certificates were distributed after after the seminar got over.

About than 200 participants from various colleges, institutes, and NGOs including students, teachers, researchers, lay persons and activists attended and made the seminar a successful event.



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St. Xavier's College, Mumbai
under the aegis of RUSA
in association with the
National Society of the Friends of the Trees

National Seminar
on
Tree Ecology and Urban Forest Management

Thursday, 13th February 2020
8.30 am to 4.30 pm in College Hall

<p>Patrons:</p> <ul style="list-style-type: none">• Dr. Pheroza J. Godrej, President Emeritus, National Society of the Friends of the Trees.• Dr. Rajendra Shinde, Principal, St. Xavier's College (Autonomous), Mumbai. <p>Organizing committee:</p> <p>Convenor:</p> <ul style="list-style-type: none">• Mr. Alok Gude, In-charge Head, Dept. of Botany, St. Xavier's College, Mumbai. <p>Coordinators:</p> <ul style="list-style-type: none">• Dr. Parvish Pandya, Director- Science & Conservation, Sanctuary Nature Foundation; Former Associate Professor in Zoology, Bhavan's College, Andheri.• Dr. Sashirekha Suresh Kumar, Former Head, Dept. of Botany, Mithibai College, Mumbai. <p>Members:</p> <ul style="list-style-type: none">• Dr. Ashok Kothari, President, National Society of the FOT.• Dr. Saraswathy Unnithan, Vice-President, National Society of the FOT.• Dr. Arun Sawant, Vice-President, National Society of the FOT.• Shri. Bharat Chovatia, Hon. Treasurer, National Society of the FOT.• Dr. Smita Krishnan, Head, Dept of Zoology, St. Xavier's College, Mumbai.• Mr. Kevin D'Cruz, Dept. of Botany, and Director, Xaviers Knowledge Centre, St. Xavier's College, Mumbai.• Dr. Madhuri P. Hambarde, Dept. of Zoology, St. Xavier's College, Mumbai.• Dr. Pushpa U. Sinkar, Dept of Zoology, St. Xavier's College, Mumbai.• Mr. Conrad Cabral, Dept of Zoology, St. Xavier's College, Mumbai.• Dr. Vijaya Lobo, Dept of Botany, St. Xavier's College, Mumbai.• Dr. Sujata Deshpande, Dept of Zoology, St. Xavier's College, Mumbai.• Mr. Saif Khan, Dept of Botany, St. Xavier's College, Mumbai.• Dr. Rajdeo Singh, Dept of Botany, St. Xavier's College, Mumbai.• Mr. Praveen Kale, Assistant Curator, Blatter Herbarium	<p>St. Xavier's College, Mumbai under the aegis of RUSA in association with the National Society of the Friends of the Trees organizes a National Seminar on Tree Ecology & Urban Forest Management</p> <p>Thursday, 13th February 2020</p> <p>For registration visit: http://bit.ly/botsem2020</p>
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<p>About the College</p> <p>St. Xavier's College Mumbai founded in 1869 by the Society of Jesus, has recently completed its 150 years of excellence in education. It was awarded academic autonomy by the University of Mumbai in year 2010-11. The college mission stands on its vision of 'Provocans ad volandum' which means 'challenging to fly'. It envisions the college, as a centre for professional innovation, personal integration, social inclusion, and academic excellence. The college endeavors to create an environment which generates a love of learning, habit of critical thinking, and the ability for accurate expression.</p>	<p>specific manner. The national seminar aims to know and understand the importance of tree ecology for incorporation of correct management practices in urban forestry.</p>																								
<p>Blatter Herbarium</p> <p>The plant collections from India and abroad made by Fr. Ethelbert Blatter, S.J., his associates and students, from the beginning of 20th century laid the foundations for one of the best herbarium of its time in Western India. It provides facilities for the study of Plant Systematics and has a well-stocked library on systematic botany. The Herbarium has received the Sir Ratan Tata Trust Grant to upgrade and to digitize the plant database.</p>	<p>Schedule of the Seminar</p> <table border="1"><thead><tr><th>Timings</th><th>Addressers/ Talks</th></tr></thead><tbody><tr><td>08.30am - 09.00 am</td><td>Registration and Breakfast</td></tr><tr><td>09.00am - 09.15am</td><td>Inauguration by Dr. Rajendra Shinde Principal, St Xavier's College, Mumbai. Dr. Ashok Kothari President, The National Society of the Friends of the Trees.</td></tr><tr><td>09.15am - 09.30am</td><td>Inauguration of Botany Association of Xaviers (BAX)</td></tr><tr><td>09.30am - 10.30am</td><td>Keynote Session: Dr. B. Nagarajan Scientist G, Institute of Forest Genetics & Tree Breeding, Coimbatore. Topic- Making Trees in India: Addressing Conservation Solutions and Industrial Needs.</td></tr><tr><td>10.30am - 11.30am</td><td>Professor Amit Lahiri Chief Sustainability Officer, O.P. Jindal Global University (JGU) Topic- Ecologies, Communities & Markets: A Tale of Two Trees in the Western Ghats.</td></tr><tr><td>11.30am - 12.00pm</td><td>Tea Break</td></tr><tr><td>12.00pm - 1.00pm</td><td>Dr. Mandar Datar Scientist C, Agharkar Research Institute, Pune. Topic- Forests of Northern Western Ghats: New Insights from Old Habitat.</td></tr><tr><td>1.00pm - 2.00pm</td><td>LUNCH and Exhibition by Students</td></tr><tr><td>2.00pm - 3.00pm</td><td>Dr. H. S. Singh (IFS, Ret) Ex. Principal Chief Conservator of Forests, Gujarat State. Topic- Urban Forestry</td></tr><tr><td>3.00pm - 4.00pm</td><td>Dr. Advait Edgaonkar Assistant Professor, Indian Institute of Forest Management, Bhopal. Topic- Valuation of Ecosystem Services.</td></tr><tr><td>4.00pm - 4.30pm</td><td>Valedictory, Exhibition, Tea, and Certificate distribution</td></tr></tbody></table>	Timings	Addressers/ Talks	08.30am - 09.00 am	Registration and Breakfast	09.00am - 09.15am	Inauguration by Dr. Rajendra Shinde Principal, St Xavier's College, Mumbai. Dr. Ashok Kothari President, The National Society of the Friends of the Trees.	09.15am - 09.30am	Inauguration of Botany Association of Xaviers (BAX)	09.30am - 10.30am	Keynote Session: Dr. B. Nagarajan Scientist G, Institute of Forest Genetics & Tree Breeding, Coimbatore. Topic- Making Trees in India: Addressing Conservation Solutions and Industrial Needs.	10.30am - 11.30am	Professor Amit Lahiri Chief Sustainability Officer, O.P. Jindal Global University (JGU) Topic- Ecologies, Communities & Markets: A Tale of Two Trees in the Western Ghats.	11.30am - 12.00pm	Tea Break	12.00pm - 1.00pm	Dr. Mandar Datar Scientist C, Agharkar Research Institute, Pune. Topic- Forests of Northern Western Ghats: New Insights from Old Habitat.	1.00pm - 2.00pm	LUNCH and Exhibition by Students	2.00pm - 3.00pm	Dr. H. S. Singh (IFS, Ret) Ex. Principal Chief Conservator of Forests, Gujarat State. Topic- Urban Forestry	3.00pm - 4.00pm	Dr. Advait Edgaonkar Assistant Professor, Indian Institute of Forest Management, Bhopal. Topic- Valuation of Ecosystem Services.	4.00pm - 4.30pm	Valedictory, Exhibition, Tea, and Certificate distribution
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<p>The National Society of the Friends of the Trees</p> <p>The National Society of the Friends of the Trees was founded in 1957. The activities of the Society include public lectures, exhibitions, sapling distribution and tree plantation programs through educational institutions, housing societies, corporate and government agencies. Annual events include vegetable, fruit and flower show, nature drawing competition for school children and a seminar. 'Vanashobha' the journal of the society is an annual publication devoted to environment conservation. Regular nature outings are conducted for its members throughout the year.</p>																									
<p>About National Seminar</p> <p>A Tree increases biodiversity and supports many living plants and creatures by modifying the climate at micro level. It alters factors of environment such as temperature, solar radiation, humidity, and wind speed, in such a way that various other smaller trees, shrubs, herbs, animals, birds, insects, and microbes can carry out their life cycle in balanced way. The trees are an important resource in an urban settlement and mitigate the effects of urban heat island, sequester carbon, improve air quality, calm the mind, and reduce depression in people. Urban forests need proper planning of management, care, protection, and regular maintenance of operations. The requirements of different tree species differ in many aspects in juvenile conditions which makes its understanding crucial in order to plan the management process in a</p>																									



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Collaborative activity – Monthly Webinar Collaboratory activity The Internal Quality Assurance Cell (IQAC) of St Xavier's Institute of Education (SXIE) and St. Xavier's College (SXC)

Date: 24th June 2020


About the programme: The Internal Quality Assurance Cell (IQAC) of St Xavier's Institute of Education (SXIE) and St. Xavier's College (SXC) has organized A Monthly Webinar Series for strengthening wellness of the students and the faculty as we 'begin again'.

Different aspects of Wellness like physical, social, emotional and spiritual will be nurtured with every new webinar. Under this series, 7 Webinars have been organized from June to December 2020. One can participate in all of them or can opt to attend any 5 for receiving the E-certificate.

IQAC SXC-SXIE			
STRENGTHENING WELLNESS FOR BUILDING A HOPE-FILLED FUTURE			
SCHEDULE FOR INAUGURAL & WEBINAR SERIES SESSION 1			
Friday, 26 th JUNE, 2020, at 11:00 a.m. to 12:15 p.m.			
CORE STRENGTHENING BY Ms PRATIKSHA PHADNIS			
Sr. No.	Items	In-charge	Time duration
1.	Welcome to all by Program Co-ordinators	Kalpana Chavan Dr Seema Das	Starts at 11:00a.m. 02 mins
2.	Best wishes and Blessings	Fr Blaise	03 mins
3.	Best wishes and Blessings	(Dr.) Fr Keith SJ	03 mins
4.	Message for the Program	Dr Sosamma Samuel Principal, SXIE	03 mins
5.	Message for the Program	Dr Rajendra Shinde Principal, SXC	03 mins
6.	Vote of thanks Program Co-ordinators	Kalpana Chavan Dr Seema Das	03 mins
7.	Introduction to the resource person	SXIE Student	2 mins
8.	Session by Ms Pratiksha Phadnis Question and Answers		11:20 -12:10
9.	Vote of thanks	SXIE Student	12:15



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Internal Quality Assurance Cell (IQAC)

of



St Xavier's College, (SXC), (Autonomous)
Mumbai



St Xavier's Institute of Education, (SXIE), Mumbai
NAAC Re-Accredited 'A' Grade

Jointly Organises a Webinar Series
On

Strengthening Wellness for Building a Hope-filled Future

For Academic Year 2020-21

Theme: Physical, Social, Emotional and Spiritual Wellness

Internal Quality Assurance Cell (IQAC): The Internal Quality Assurance Cell of the two Institutes believe in assuring and enhancing the quality of life of its stakeholders, especially students and faculty by strengthening the wellness of the overall personality.

What is Wellness? According to the World Health Organization (1948), "Health & Wellness is a state of complete physical, mental, and social well-being, and not merely the absence of disease or infirmity". Thus, wellness can be understood as a positive, conscious, goal directed and evolving process of achieving a multidimensional and holistic lifestyle encircling emotional, social, physical and spiritual well-being.

About the Program: As Higher Education is realigning to the 'new normal', the Strengthening Wellness Program intends to postulate opportunities to foster positive outlook, resilience, harmonious wellness for building a hope-filled future of its students and teachers. This program aims to scaffold striving for academic, personal and professional excellence. IQAC has orchestrated stimulating resource persons and variety of themes to enhance the quality of life, zest for positive existence and contribute to wellness of the individuals and the community.

- Timing: Inaugural session and first webinar (26th June 2020) will be from 11:00 a.m. to 12:15 p.m.
- Subsequent webinars (July to December) will be from 4:00 p.m. to 5:00 p.m.
- Detailed schedule with the reading material will be sent to enrolled participants.
- No registration fee will be charged. Registration link will be open till 24th June 2020.
- One can participate in all of them or can opt to attend any 5 for receiving the E-certificate.

[Registration Link](#)

Program Convenors:

Dr Rajendra Shinde, (Principal - SXC) & Dr Sosamma Samuel
(Principal- SXIE)

Program Coordinators:

Dr. Seema Das (SXC) & Ms Kalpana Chavan (SXIE)

For more details visit www.xaviers.edu (SXC) / www.sxie.info (SXIE)


Webinar Series

- 1) 26th June 2020:
Core Strengthening
Ms Pratiksha Phadnis
Head of Dept. Physical Education & Sports,
Govt. of Maharashtra's Ismail Yusuf College.
- 2) 24th July 2020:
Wellness & Coping with Adversities
Dr Aamir Shaikh,
Founder, Health Care Consultant, Assansa
Consultancy.
- 3) 28th August 2020:
Wellness and Values
(Dr) Fr Keith D'Souza S.J.,
Rector,
St. Xavier's College (Autonomous), Mumbai
- 4) 25th September 2020:
Immunity Building & Wellness
Dr Seema Das,
HOD, Dept. of Life Science & Biochemistry, St.
Xavier's College (Autonomous), Mumbai
- 5) 16th/24th October 2020:
Wellness for life
- 6) 27th November 2020
Emotional Resilience and Wellness
Dr Gomathi Shah,
Associate Prof, Centre for Education,
Innovation & Action Research, TISS.
- 7) 18th December 2020:
Wellness in Higher Education
(Dr) Fr. Frazer Mascarenhas S.J.,
Manager,
St Stanislaus High School

Contact us Ms. Kalpana Chavan: Mob: 9820817667/ Email: iqac.wellnessxaviers@gmail.com



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**Collaborative Activity: Xavier's Institute of engineering - St. Xavier's College
Mumbai -Data Science using R for beginners**

Date: 1st – 5th June 2020

<p>RESOURCE PERSONS</p> <p>Prof. Kavita Jain has completed Master degree in Computer Engineering from Mumbai University. Her research interests are Data Mining, Machine Learning and Grid Computing</p> <p>Prof. Teena Varma has completed Master degree in Computer Engineering from Mumbai University. Her research interests are Machine Learning, Artificial Intelligence, Signal & Image Processing.</p> <p>Prof. Omprakash Yadav has completed Master degree in Computer Engineering from Mumbai University. His research interests are Machine Learning, Artificial Intelligence and Computer Vision.</p>	<p>ABOUT INSTITUTION</p> <p>Xavier Institute of Engineering (XIE), a sister Institution of St. Xavier's College, Fort, Mumbai, is an Engineering college in central Mumbai, established in 2005, and is a part of an International Network of Jesuit Educational Institutions which includes 138 Universities and 3413 Educational Institutions in 120 countries. The Jesuit Educational Network in India includes 84 Colleges, 3 Universities and 3 Engineering colleges. Jesuit educational efforts are directed to training the minds and forming the heart. The management of XIE is well known for designing and upholding the highest standards for Engineering Education. Every year around 50 companies visit XIE for campus recruitment. In a ToI Engineering Survey conducted in 2015, XIE was rated 3rd among the Private, Unaided Engineering Colleges in Mumbai. XIE is now NAAC accredited. XIE is the only Engineering college in India to have a Gait laboratory. This laboratory is sponsored by Marquette University, USA.</p>	<p>Xavier Institute of Engineering in collaboration with St. Xavier's College, Fort, Mumbai is organizing A Five-Day Online Hands-on Workshop on Data Science using 'R' for beginners</p> <p>DURATION AND TIMING</p> <p>1st June – 5th June 2020 Timing: 3:00 pm to 5:00 pm</p> <p>REGISTRATION</p> <p>No course and certification fee for students/faculty of St. Xavier's College and Xavier Institute of Engineering. For Others it is Rs. 200/-</p> <p>Payment Link: http://xavieradmission.com/workshop/ Participants can register online.</p> <p>Registration Link: https://forms.gle/ZAG06gaH2kge314d8 Complete your registrations on or before 29th May, 2020</p> <p>Note: Certificate will be issued to only those participants who will successfully complete the program requirements.</p>
<p>ORGANIZING COMMITTEE</p> <p>Chief Patrons</p> <p>Fr. Dr. Arun D'Souza, S.J., Chairman, XIE Fr. Dr. Keith D'Souza, S.J., Rector, St. Xavier's College Fr. Dr. John Rose, S.J., Director, XIE</p> <p>Patrons</p> <p>Dr. Rajendra Shinde, Principal, St. Xavier's College Dr. Y. D. Venkatesh, Principal, XIE Fr. Fabian Barreto, S.J., Administrator, XIE</p> <p>Convener</p> <p>Prof. Sushama Khanvilkar, HoD (Computer Engineering)</p> <p>Coordinators</p> <p>Prof. Kavita Jain Assistant Professor, Dept. of Computer Engineering Ph: 9869719870, Email: kavita.j@xavier.ac.in</p> <p>Prof. Teena Varma Assistant Professor, Dept. of Computer Engineering Ph: 9619230440, Email: teena.v@xavier.ac.in</p> <p>Prof. Omprakash Yadav Assistant Professor, Dept. of Computer Engineering Ph: 9819021310, Email: omprakash.y@xavier.ac.in</p> <p>Dr. Vijay Katkar Associate Professor, Dept. of Information Technology Ph: 9323134570, Email: vijay.k@xavier.ac.in</p> <p><i>The Higher Education Digest has rated XIE as one of the 'Top 50 must watch Engineering Colleges' in India</i></p>	<p>VISION OF XIE</p> <p>To nurture the joy of excellence in a world of high technology</p> <p>MISSION OF XIE</p> <p>To strive to match global standards in technical education by interaction with industry, continuous staff training and development of quality of life.</p> <p>COURSE CONTENTS</p> <ul style="list-style-type: none">◆ Introduction to Data Science◆ Introduction to R Language, Basics of R◆ Control Structures◆ Functions in R◆ Statistics◆ Importing Data from CSV file◆ Indexing and Slicing Data Frames◆ Exploratory data analysis◆ Data Pre-processing◆ Introduction to Data Visualization◆ Major types of Graph◆ Plotting with R◆ Examples of Linear Regression	



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**Collaborative Activity: Xavier's Institute of engineering - St. Xavier's College
Mumbai -Experimental design and Optimization in Machine Learning**

Date: 1st to 12th June 2020

<p>RESOURCE PERSON</p> <p>Dr. Vijay Katkar PhD in Computer Engineering with Specialization in Machine Learning and Network Security. His research interests are Machine learning, Computer Vision and Internet of Everything.</p> <p>COURSE COORDINATORS</p> <p>Prof. Jaychand Upadhyay is pursuing PhD in Information & Communication Science from Sophia University, Tokyo, Japan. His research Interests are Deep Learning and Computer Vision. Prof. Vijay Jamb holds a Master's degree in Computer Engineering from Mumbai University. His research Interests are Computer Vision and Big Data Analytics.</p> <p>PREREQUISITE</p> <ul style="list-style-type: none">Basic Knowledge of PythonBasics of Machine Learning Data Mining <p>COURSE COMPLETION CRITERIA</p> <ul style="list-style-type: none">Complete All QuizzesSubmit all AssignmentsSubmit a Research Paper in International Conference or UGC approved Journal <p>ORGANIZING COMMITTEE</p> <p>Chief Patrons</p> <p>Fr. Dr. Arun D'Souza, S.J., Chairman, XIE Fr. Dr. Keith D'Souza, S.J., Rector, St. Xavier's College Fr. Dr. John Rose, S.J., Director, XIE</p> <p>Patrons</p> <p>Dr. Rajendra Shinde, Principal, St. Xavier's College Dr. Y. D. Venkatesh, Principal, XIE Fr. Fabian Barreto, S.J., Administrator, XIE</p> <p>Convener</p> <p>Prof. Chhaya Narvekar, HoD (Information Technology)</p> <p>Coordinator</p> <p>Prof. Meena Ugale Assistant Professor, Dept. of Information Technology Ph: 98676 46658, Email: meena.u@xavier.ac.in</p> <p><i>The Higher Education Digest has rated XIE as one of the 'Top 50 must watch Engineering Colleges' in India</i></p>	<p>ABOUT INSTITUTION</p> <p>Xavier Institute of Engineering (XIE), a sister Institution of St. Xavier's College, Fort, Mumbai, is an Engineering college in central Mumbai, established in 2005, and is a part of an International Network of Jesuit Educational Institutions which includes 138 Universities and 3413 Educational Institutions in 120 countries. The Jesuit Educational Network in India includes 84 Colleges, 3 Universities and 3 Engineering colleges. Jesuit educational efforts are directed to training the minds and forming the heart. The management of XIE is well known for designing and upholding the highest standards for Engineering Education. Every year around 50 companies visit XIE for campus recruitment. In a Top Engineering Survey conducted in 2015, XIE was rated 3rd among the Private, Unaided Engineering Colleges in Mumbai and among top 30 in India with a high Perceptual Score in 2018. XIE is now NAAC accredited. XIE is the only Engineering college in India to have a Gait laboratory. This laboratory is sponsored by Marquette University, USA.</p> <p>VISION OF XIE</p> <p>To nurture the joy of excellence in a world of high technology</p> <p>MISSION OF XIE</p> <p>To strive to match global standards in technical education by interaction with industry, continuous staff training and development of quality of life</p> <p>COURSE CONTENTS</p> <ul style="list-style-type: none">Types of research papersSelection of dataset for researchAnalysing and exploring the datasetTraining the model using machine learning methodsAnalysing and exploring efficiency of trained machine learning based modelOptimizing classification efficiency of machine learning based modelsEffectively presenting the results in research papersConcluding and summarizing the results in research paper <p>All experiments are performed using Python</p>	<p></p> <p>Xavier Institute of Engineering A sister Institute of St. Xavier's College, Fort, Mumbai is organizing A Six-Day Workshop on Experimental Design and optimization of Research in Machine Learning Under the Department of Information Technology</p> <p></p> <p>DURATION AND TIMING</p> <p>Two Weeks (1st June – 12th June 2020) Three Days a Week (Monday, Wednesday, Friday) Timing: 2.00 pm to 5.00 pm Platform: Online</p> <p>REGISTRATION</p> <p>No course and certification fees Participants can register online Registration Link: https://forms.gle/d3np5kE8vvbs7m47 Complete your registrations on or before 30th May, 2020 (4.00 PM) Note: Certificates are issued to only those participants who successfully complete the program requirements.</p>
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6_5_3_Collaborations


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**Collaborative Activity: Xavier's Institute of engineering - St. Xavier's College
Mumbai -Course on Career booster**

Date: 9th to 14th June 2020

 <p>Xavier Institute of Engineering A sister Institute of St. Xavier's College, Fort, Mumbai is organizing A Five -Day Course on</p>  <p>CAREER BOOSTER</p> <p>Under the Department of Information Technology</p> <p>DURATION AND TIMING 9th June – 14th June 2020 Timing: 2:00 pm to 4:00 pm Platform : Zoom</p> <p>REGISTRATION No course and certification fee for students of Xavier Institute of Engineering For Others it is Rs. 100/- Payment Link: http://xavieradmission.com/workshop/ Participants can register online. Registration Link: http://shorturl.at/hyFS2 Complete your registrations on or before 08th June, 2020 (3 pm) <i>Note: Certificate will be issued to only those participants who will successfully complete the program requirements.</i></p>	<p>ABOUT INSTITUTION Xavier Institute of Engineering (XIE), a sister Institution of St. Xavier's College, Fort, Mumbai, is an Engineering college in central Mumbai, established in 2005, and is a part of an International Network of Jesuit Educational Institutions which includes 138 Universities and 3413 Educational Institutions in 120 countries. The Jesuit Educational Network in India includes 84 Colleges, 3 Universities and 3 Engineering colleges. Jesuit educational efforts are directed to training the minds and forming the heart. The management of XIE is well known for designing and upholding the highest standards for Engineering Education. Every year around 50 companies visit XIE for campus recruitment. In a Top Engineering Survey conducted in 2015, XIE was rated 3rd among the Private, Unaided Engineering Colleges in Mumbai and among top 30 in India with a high Perceptual Score in 2018. XIE is now NAAC accredited. XIE is the only Engineering college in India to have a Gait laboratory. This laboratory is sponsored by Marquette University, USA.</p> <p>VISION OF XIE To nurture the joy of excellence in a world of high technology</p> <p>MISSION OF XIE To strive to match global standards in technical education by interaction with industry, continuous staff training and development of quality of life</p> <p>COURSE CONTENTS</p> <ul style="list-style-type: none">❖ Calculation tricks, shortcuts❖ Numbers (Basic)❖ Numbers (power cycle)❖ Professional Growth (Resume Building, Grooming, GD/PI, Internship)❖ Research Paper Tips❖ Revision, Q&A, Quiz	<p>RESOURCE PERSONS</p> <p>Mr. Sanket Rane has completed BE in Information Technology from VJEE and MBA in Finance from KJ SOMS. He is a Director of Kori Paati Edutech Learning Solutions Pvt. Ltd.</p> <p>Prof. Jyotsna More has completed Master degree in Computer Engineering from Mumbai University. Her research Interests are Web Mining, Data Mining and Cloud Computing</p> <p>Vision of Information Technology Department To nurture the joy of excellence in a world of Information Technology</p> <p>Mission of Information Technology Department</p> <ul style="list-style-type: none">M1. To develop the critical thinking ability of students by promoting integrative learning.M2. To bridge the gap between industry and institute by giving students exposure to industrial demands and current trends.M3. To promote excellence in learning and research, and to be responsible when dealing with social concerns.M4. To encourage students to pursue higher studies and make them aware of various career opportunities. <p>ORGANIZING COMMITTEE</p> <p>Chief Patrons Fr. Dr. Arun D'Souza, S.J., Chairman, XIE Fr. Dr. Keith D'Souza, S.J., Rector, St. Xavier's College Fr. Dr. John Rose, S.J., Director, XIE</p> <p>Patrons Dr. Rajendra Shinde, Principal, St. Xavier's College Dr. Y. D. Venkatesh, Principal, XIE</p> <p>Convener Prof. Chhaya Narvekar, HoD (Information Technology)</p> <p>Coordinator Prof. Jyotsna More Assistant Professor, Dept. of Information Technology Ph: 9920326161, Email: jyotsna.m@xavier.ac.in</p> <p><i>The Higher Education Digest has rated XIE as one of the 'Top 50 must watch Engineering Colleges' in India</i></p>
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Collaborative Activity: SPECTRUM: A Collaborative Publication -Department of Life Sciences, Sophia College - Autonomous, Mumbai and the Department of Life Science and Biochemistry, St. Xavier's College - Autonomous, Mumbai – 2019-20

Summary of spectrum 2019-20

The 13th and 14th issues of Spectrum were brought out in the months of March and June respectively.

Expectedly, 'In the news' in both the issues featured information about the pandemic, Covid-19 and the lessons learnt from lockdown.

'Insight' talked about the role of the various cells-WBCs and lymphocytes- forming the 'army' of our body to combat infections, and role of gut microbes and the gut-brain axis.

'Science in daily life' gave the importance of saliva and the role of soaps and sanitizers as protectants against Covid-19 while 'Through the lens' presented pictures of a teak leaf skeletonized by a moth larva and the Malabar pit viper.

A question on infection and spread of a disease as well as a crossword on astronomy stimulated the Greys of the readers.

How to learn social distancing from *Drosophila* and other animals was featured in the section 'Long, long ago' of issue 13 while the 14th issue dealt with understanding evolution via fitness, natural selection, and survival of the fittest.

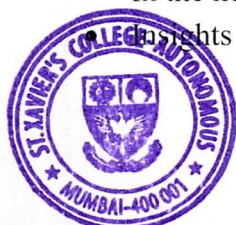
Excerpts from two books were included in 'Thought byte' - 'In viruses and man: a history of interactions' by Milton W Taylor, and 'Gorillas in the mist' by Dian Fossey.

About Spectrum: Spectrum - Hues of Science, is a newsletter published every 3 months for popularizing basic science amongst school children, class 7 and above. The newsletter is available free of cost to all on the link provided below as a soft copy. Limited hard copies are printed for each issue and circulated to schools and NGOs serving underprivileged children.


Initiated in March 2017 by a few academicians, it was made into a collaborative endeavour of the Department of Life Sciences, Sophia College - Autonomous, Mumbai and the Department of Life Science and Biochemistry, St. Xavier's College - Autonomous, Mumbai, under the DBT STAR college scheme. The collaboration was initiated with Issue 5, March 2018 and continues till date.

The newsletters have the following seven features :

- In the news (Current science/headlines/Bytes)
- Insights (review article on any topic)



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- Science in daily life
- Stimulate your Grey
- Through the lens
- Long, long ago
- Thought Byte

The team comprises an Editorial Committee, Advisory Committee and Student assistants for design and layout. Faculty and students from both colleges contribute articles that are reviewed, edited, and published with due approval of the Advisory committee.

Spectrum archives available at - spectrumsciencemagazine.blogspot.in




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2018 - 2019



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Collaborative activity: Popular lecture Series on Advances in Biomedicine” in collaboration with Indian Women Scientists Association, Mumbai and Caius Research Laboratory, St. Xavier's College, Mumbai

Date: 14th July 2018

**POPULAR SCIENCE LECTURE SERIES
2017-2018**

SUPPORTED BY BRNS-DAL
ON

ADVANCES IN BIOMEDICINE

ORGANIZED BY
**INDIAN WOMEN SCIENTISTS'
ASSOCIATION,**
VASHI, NAVI MUMBAI

IN ASSOCIATION WITH
**CAIUS RESEARCH LABORATORY
ST. XAVIER'S COLLEGE
(AUTONOMOUS),
MUMBAI**

**SATURDAY, 14TH JULY, 2018
8.30 AM TO 4.30 PM**

**VENUE:
ASSEMBLY HALL, FIRST FLOOR,
XIMR, ST XAVIER'S COLLEGE
(AUTONOMOUS),
5-MAHAPALIKA MARG,
MUMBAI - 400 001**

REGISTER AT www.xaviers.edu

SPEAKERS:

DR. DEVASHISH RATH
(IBD, BARC, MUMBAI)
CRISPR - CAS GENE EDITING:
BIOMEDICAL APPLICATIONS

DR. ANUJ TRIPATHI
(NVEED, BARC, MUMBAI)
FORGUS BIOTECHNOLOGIES FOR
BIOMEDICAL AND BIOTECHNOLOGY
APPLICATIONS

DR. CHANDRA VISWANATHAN
(CONSULTANT, REELABS PVT. LTD.)
STEM CELL MEDICINE - IT'S GOING TO
WORK

DR. ANITA NADKARNI
(JY. DIRECTOR, NATIONAL INSTITUTE
OF IMMUNOHEMATOLOGY (NIIH),
MUMBAI)
GENETICS OF HEMATOLOGICAL
DISORDERS AND ITS TREATMENT

For further details contact:

Dr. Priya Sundarajan,
Associate Professor,
St. Xavier's College (Autonomous),
Fort, Mumbai-400 001.
priya.s@xaviers.edu
91-99683-78922

Dr. Susan Epen
IWSA,
Vashi, Navi Mumbai-400 703
tsuahq@gmail.com
eupenhome@yahoo.com

Alinda



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IWSA Popular Science Lecture Series (2017-18)

on

Advances in Biomedicine

Organized by

Indian Women Scientists' Association, Vashi, Navi Mumbai
Supported by BRNS - DAE

IN ASSOCIATION WITH

CAIUS RESEARCH LABORATORY, ST. XAVIER'S COLLEGE (Autonomous),
MUMBAI

Venue

Venue: Assembly Hall, First Floor, XIMR
St. Xavier's College(Autonomous) 5 – Mahapalika Marg, Mumbai – 400001.

Date and Time: Saturday, the 14th July, 8.30 AM to 4.30 PM

8.30 – 9.30 am	Registration
9.30 – 9.45 am	Welcome and Inauguration by Principal, St. Xavier's College
9.45 – 11.15 am	Dr. Devashish Rath (MBD, BARC, Mumbai) Topic: CRISPR – CAS GENE EDITING: BIOMEDICAL APPLICATIONS
11.15 to 11.45 am	TEA
11.45 – 1.00 pm	Dr. Chandra Viswanathan (Consultant, REELABS Pvt. Ltd.) Topic: Stem Cell Medicine – Its going to work
1.00 – 1.45 pm	LUNCH
1.45 – 3.00 pm	Dr. Anuj Tripathi (NABTD, BARC, Mumbai) Topic: Porous Biomaterials for Biomedical and Bioengineering Applications
3.00 – 4.15 pm	Dr. Anita Nadkarni (Dy. Director, National Institute of Immunohematology ICMR), Mumbai) Topic: Genetics of Hematological Disorders and its Treatment
4.15 pm	Vote of Thanks

Students, researchers and teachers are welcome to attend.
Register at www.xaviers.edu. Registration – Rs.100/- For students and Rs. 200/- for faculty.
Contact: Dr. Priya Sundarajan, St. Xavier's College, Mumbai (9969379223)
Dr. Susan Eapen, IWASA. eapenhome@yahoo.com



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Collaborative activity: 3 days Hands-on Faculty Workshop on “Integrating Applied Bioinformatics in UG- Life Science Education” in collaboration with Homi Bhabha Centre for Science Education, TIFR and Postgraduate Department of Biotechnology

Date: 27th to 29th September 2018

Background: The emergence of ‘Modern Biology’ in the post genome era has created a demand for researchers with interdisciplinary competencies in biology, statistics, and computer sciences. Even though bioinformatics as a course has been introduced in most undergraduate biology programmes, it is largely dealt with as a separate topic in the curriculum. This lack of integration of bioinformatic tools into life sciences education poses challenges with the development of a coherent understanding among students, especially for application-oriented courses such as biotechnology. One of the major barriers in effectively utilizing computational biology tools is the lack of training of the instructors involved in teaching these undergraduate courses. Many current faculty members were trained before the widespread use of bioinformatics and quantitative tools in life science research and thus need training in these interdisciplinary areas themselves.

Objective of the workshop:

- Building a general awareness among teachers about the available web-based applications and bioinformatics tools.
- Using a problem-solving approach to train teachers for utilizing the web-based bioinformatic tools.
- Sensitizing teachers for integration of bioinformatics in teaching-learning of undergraduate biology courses.
- Developing meaningful learning resources for students based on the exposure in the workshop.

Title of the workshop: 3 days Hands-on Faculty Workshop on “Integrating Applied Bioinformatics in UG- Life Science Education”

Collaborator: Homi Bhabha Centre for Science Education, TIFR under DBT-Star Scheme

Participants: Faculty members from Department of Biotechnology, Microbiology and pharmacy-from, 14 colleges of Mumbai university - 21


Date: 27th September 2018- 29th September 2018 **Time:** 9.00 am- 5:00 pm

Venue: P G Department of Biotechnology, Bioinformatics Laboratory, Knowledge Centre, XIMR Computer center

Resource Persons.



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Dr. Aswin Sai Narain Seshasayi, Scientist, Department of Computational Biology, National Centre for Biological Science, Bangalore

Dr. Deepti Gupta, Visiting Fellow, Homi Bhabha Centre for Science Education, Mumbai

Ms. Norine Dsouza, Assistant Professor, PG Department of Biotechnology, St. Xavier's College (Autonomous), Mumbai

Dr. Shiney Peter, Assistant Professor, PG Department of Biotechnology, St. Xavier's College (Autonomous), Mumbai

Mr. Farhan Ali, Ph.D. Scholar, Department of Computational Biology, National Centre for Biological Science, Bangalore

Ms. Minal Nenwani, Research Project Fellow and Alumni Indian Institute of Technology, Mumbai



3 days Hands-on Faculty Workshop on "Integrating Applied Bioinformatics in UG- Life Science Education" in collaboration Homi Bhabha Centre for Science Education, TIFR and Postgraduate Department of Biotechnology – 27th to 29th September 2018



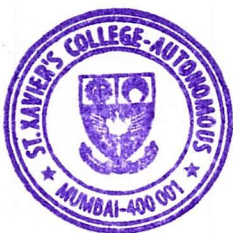
Shinde


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3 days Hands-on Faculty Workshop on "Integrating Applied Bioinformatics in UG- Life Science Education" in collaboration Homi Bhabha Centre for Science Education, TIFR and Postgraduate Department of Biotechnology – 27th to 29th September 2018




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&
HOMI BHABHA CENTRE FOR SCIENCE EDUCATION, TIFR



DEPARTMENT OF BIOTECHNOLOGY
GOVERNMENT OF INDIA



FACULTY WORKSHOP
Under DBT STAR SCHEME
INTEGRATING
APPLIED
BIOINFORMATICS
IN
UG-LIFE SCIENCE
EDUCATION

27th to 29th September, 2018.

Venue: Knowledge Centre, SXC.

Resource:
Post Graduate Department of Biotechnology



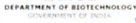


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	ST. XAVIER'S COLLEGE (AUTONOMOUS), MUMBAI	
	AND	
	HOMI BHABHA CENTRE FOR SCIENCE EDUCATION, TIFR	
	Faculty Workshop Under DBT STAR SCHEME	
	<i>Integrating Applied Bioinformatics in Undergraduate Life Science Education</i>	
	Certificate of Participation	
	Presented to	
	_____ from _____	College
	For active participation in the three day workshop held at St. Xavier's College (Autonomous), Mumbai	
	from 27 th September to 29 th September 2018	
	_____	_____
	Dr. K. Subramaniam	Dr. Rajendra Shinde
	Director, Homi Bhabha Centre For Science Education (TIFR), Mumbai	Principal, St. Xavier's College (Autonomous), Mumbai




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Collaborative Activity: Department of Life science, K.C college and Postgraduate department of Biotechnology, St. Xavier's College, Mumbai 3 days Hands-on Workshop on Animal Tissue Culture Techniques for UG Life Sciences Students.

Date: 29th – 31 January 2019

Title of the workshop: 3 days Hands-on Workshop on Animal Tissue Culture Techniques for UG Life Sciences Students.

Collaborator: Department of Life Science, K C College under DBT-Star Scheme

Participants: TY BSc- Life Sciences Students from K C College - 24

Date: 29th January 2019- 31st January 2019

Time: 11:30 am- 4:00 pm

Venue: P G Department of Biotechnology – Laboratory and Animal cell culture facility

Resource Person. Shiney Peter

Animal cell culture techniques play an especially important role in drug discovery process. Understanding the concepts involved in *in vitro* culturing of animal cells at the undergraduate level is becoming a mandate in the current research scenario.

TY BSc Life Science curriculum (University of Mumbai) includes an introductory unit on animal cell culture. However due to lack of infrastructure and expertise, the practical aspects are not delivered at many colleges.

Under the DBT Star College Scheme, Department of Lifesciences, K C College approached PGDBT to conduct a hand- on workshop on animal tissue culture techniques for the final year students.

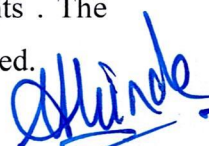
Objective of the workshop: To give TY BSc students a hands-on experience of primary tissue culture using an avian embryo model.

Learning outcomes:

This workshop was an initiative to introduce cell culture techniques to UG students . The understanding of cell biology as well as in vitro cell culture systems would be enhanced.



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Follow up action: Based on the feedback which was collected as a written document, we can initiate a summer school programme or short-term certificate programme on animal cell culture techniques for UG and PG students.



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Collaborative activity: Popular lecture Series on Genotyping” in collaboration with Indian Women Scientists Association, Mumbai and Caius Research Laboratory, St. Xavier’s College, Mumbai

Date: 11^h February 2019



Popular Science Lecture Series 2018-19

Organized by

*Indian Women Scientists' Association,
Vashi, Navi Mumbai*

Supported by BRNS-DAE

In association with

*Caius Research Laboratory,
St. Xaviers College (Autonomous), Mumbai*

Lecture

on

Gene Imprinting

by

Dr. Nafisa Balasinor

Scientist F,

ICMR-National Institute for Research in Reproductive Health
Parel, Mumbai

Venue: MMR, First Floor,

St. Xaviers College- (Autonomous), Mumbai
5, Mahapalika Marg, Mumbai, 400001

Date and Time

Monday, 11th February, 2019, 3.00 pm

ALL ARE CORDIALLY INVITED TO ATTEND

Alvinda
5/2/19.

Alvinda



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Collaborative Activity: National Society of the Friends of the Trees, Mumbai – St. Xavier's College, Mumbai- National Seminar on 'Climate, Rivers & Vegetation

Date: 14th February 2019

National Seminar Report: Botany Department and National Society of the Friends of the Trees organized a national seminar on 'Climate, Rivers and Vegetation' on 14th February 2019. Mr. Bittu Sahgal, founding editor, Sanctuary Asia gave the keynote address on 'Climate Change'. Other renowned speakers included Dr. Pradeep Srivastava, (retd) Senior Scientist, Medicinal and Process Chemistry Division, CSIR- CDRI, Lucknow, who spoke on 'Unique Biodiversity of southeast Asia and Bionics: A promising Future Ahead' through his scientoons. Dr. Milind Sardesai, Professor, Department of Botany, Pune University, spoke on 'Whether our forefathers were knowing the technique of sex alteration in plants?'. Mr. Murari Ratnam, Ex-Director, Central Soil and Materials Research station, Ministry of Water Resource, New Delhi gave an illustrated talk on 'Effect of climate on water resources. Dr. Ajit Sonakia, IFS (Retd) Principal Chief Conservator of Forest, Bhopal gave a talk on 'Global warming and Climate change'. Dr. Pravish Pandya, Director, Science and Conservator, Sanctuary Asia led the panel discussion to answer all the queries.

Some SYBSc students and all MSc-I Botany Students under the guidance of Dr. Vijaya Lobo also put up a small exhibition of plants and herbal cosmetics products, around a theme of 'reuse, recycle and innovate'.

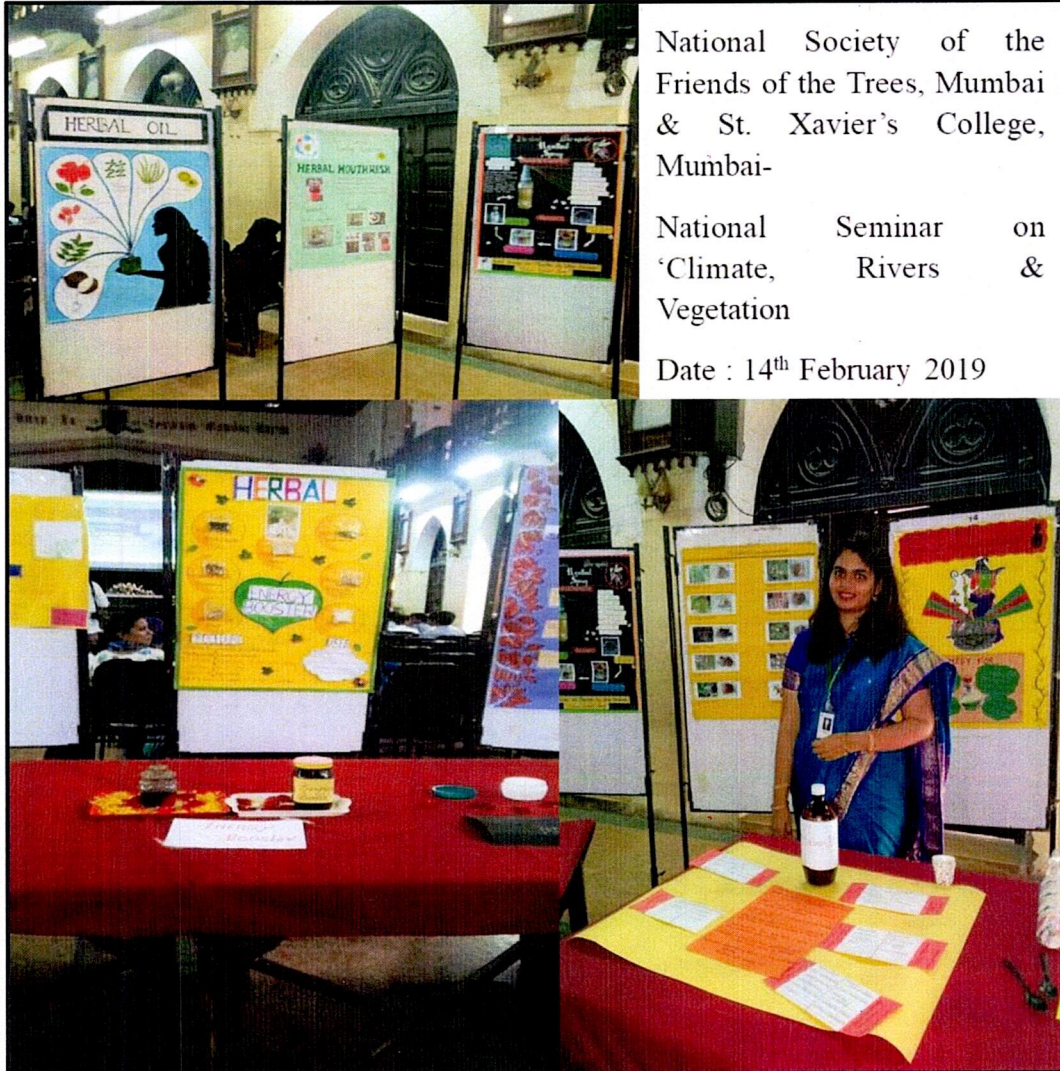
More than 180 participants from various colleges, institutes, and NGOs including students, teachers, researchers, lay persons and activists attended and made the seminar a successful event.

The First Botany Department Magazine 'Acta Botanica' designed and made by TYBSc Botany students was released during the inaugural session. The TYBSc and MSc students volunteered and helped in various ways to carry out the huge task of seminar organization.





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National Society of the
Friends of the Trees, Mumbai
& St. Xavier's College,
Mumbai-

National Seminar on
'Climate, Rivers &
Vegetation

Date : 14th February 2019



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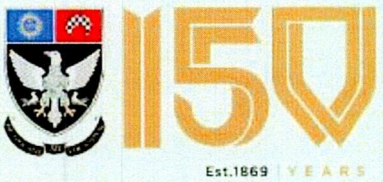
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Est. 1869 YEARS

GROW MORE TREES



ESTD. 1957

National seminar on

Climate, Rivers & Vegetation

Thursday, 14th February 2019 at
St. Xavier's College (Autonomous), Mumbai


Organizers:

St. Xavier's College (Autonomous), Mumbai
(NAAC re-accredited A:3.63; UGC "College of Excellence" from 1st April 2014)

in collaboration with

National Society of the Friends of the Trees

Scan to register



For details and registration visit:
<https://goo.gl/forms/maB3eH5vu2VYqB903>



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St. Xavier's College (Autonomous), Mumbai

in collaboration with

National Society of the Friends of the Trees

presents this



Certificate of Participation

to

JPK Menon

for attending the One-day National Seminar on 'Climate, Rivers and Vegetation', held
on 14th February 2019 at St. Xavier's College (Autonomous), Mumbai.

Shinde

Dr. Rajendra Shinde
Principal

A. Gude

Mr. Alok Gude
Convener

Ashok Kothari

Dr. Ashok Kothari
President,
N.S.F.O.T.



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Collaborative Activity: SPECTRUM: A Collaborative Publication -Department of Life Sciences, Sophia College - Autonomous, Mumbai and the Department of Life Science and Biochemistry, St. Xavier's College - Autonomous, Mumbai – 2018-19

Summary of spectrum 2018-19

The four issues of Spectrum in 2019, 9 through 12, showcased varied interesting articles on the seven themes. There were two articles on stress- one dealing with the neurotransmitter's serotonin and dopamine, and the other on antidepressants. The other 'Insight' topics dealt with the brain's noise filter, and the role of 'tau' proteins in Alzheimer disease.

'In the news' talked about imaging black holes and the preparation and launch of Chandrayan 2.

'Science in daily life' gave the aetiology of the rare hereditary disorder CIPA, neuromarketing- playing with consumer's brain and Artificial Intelligence in sports.

'Through the lens' familiarised the readers with pictures of Lady Margaret passionflower and the flower of *Smithia hirsuta* along with a picture of the cricket insect.

'Long, long ago' featured the staining techniques of Golgi and Cajal-Nobel prize winners in 1906, interesting information about mirror neurons and their role in mimicking behaviour and relation to empathy, and the composition and benefits of green tea.

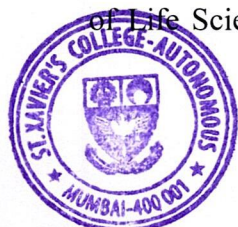
Puzzles on triangles, Baobab trees and cryptogram as well as a biological crossword stimulated the reader's greys.

Review of a book, 'The gene machine: The race to decipher the secrets of the ribosome' by the Nobel Laureate Venki Ramakrishnan was one of the 'Thought bytes', the others being quotes from Mario Vargas Llosa (Nobel prize in literature, 2010) and Lal Bahadur Shastri and an excerpt from the book 'Poor Economics: A radical rethinking of the way to fight global poverty' by Abhijit V Banerjee.


The Dec edition was a special issue dedicated to Nobel Prizes, 2019 and highlighted the prizes in the field of Physiology/Medicine, Chemistry, Physics, Literature and Peace.

About Spectrum: Spectrum - Hues of Science, is a newsletter published every 3 months for popularizing basic science amongst school children, class 7 and above. The newsletter is available free of cost to all on the link provided below as a soft copy. Limited hard copies are printed for each issue and circulated to schools and NGOs serving underprivileged children.

Initiated in March 2017 by a few academicians, it was made into a collaborative endeavour of the Department of Life Sciences, Sophia College - Autonomous, Mumbai and the Department of Life Science and Biochemistry, St. Xavier's College - Autonomous, Mumbai, under the



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DBT STAR college scheme. The collaboration was initiated with Issue 5, March 2018 and continues till date.

The newsletters have the following seven features:

- In the news (Current science/headlines/Bytes)
- Insights (review article on any topic)
- Science in daily life
- Stimulate your Grey
- Through the lens
- Long, long ago

7. Thought Byte

The team comprises an Editorial Committee, Advisory Committee and Student assistants for design and layout. Faculty and students from both colleges contribute articles that are reviewed, edited and published with due approval of the Advisory committee.

Spectrum archives available at - spectrumsciencemagazine.blogspot.in



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Collaborative Activity: Veruschka Foundation, Mumbai, an NGO working for differently abled children and Department of Life Science & Biochemistry and the Caius Laboratory for Interdisciplinary Research, St. Xavier's College, Mumbai - A two-day National Camp and Conference on "Know Better, Do Better Developmental Disabilities & You"

Date: 20th and 22nd January 2028

A two-day National Camp and Conference was organized on 20th and 22nd Jan. 2018 in collaboration with The Veruschka Foundation, an NGO working for differently abled children founded by dept. alumna Ms. Tatyanna Dias, the Desai Foundation for Change, the Department of Life Science & Biochemistry and the Caius Laboratory for Interdisciplinary Research, St. Xavier's College, Mumbai. The camp held on 20th Jan. 2018, was titled 'Know Better, Do Better' and kept open to members of the public to raise awareness about the facts and misconceptions about various developmental disabilities. Mr. Nitin Patil, Commissioner for Disability, Maharashtra State was the special invitee for the camp and interacted with the students and NGOs. An exhibition on the same was arranged by FYBSc Life Science students as part of their dept. SIP activity. The One-Day National Conference held on 22nd Jan. 2018 was titled 'Developmental Disabilities and You', and was well attended and well received by all participants. It was inaugurated by Dr. Keki Turel, renowned Neurosurgeon. The event brought together children and adults suffering from autism, their families, caregivers, counsellors, doctors, research scientists, students, teachers and the layperson on one platform to share insights on the subject and benefit from it. The speaker's list is appended towards the end.



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A two-day National Camp and Conference on "Know Better, Do Better Developmental Disabilities & You" on 20th and 22nd January 2018



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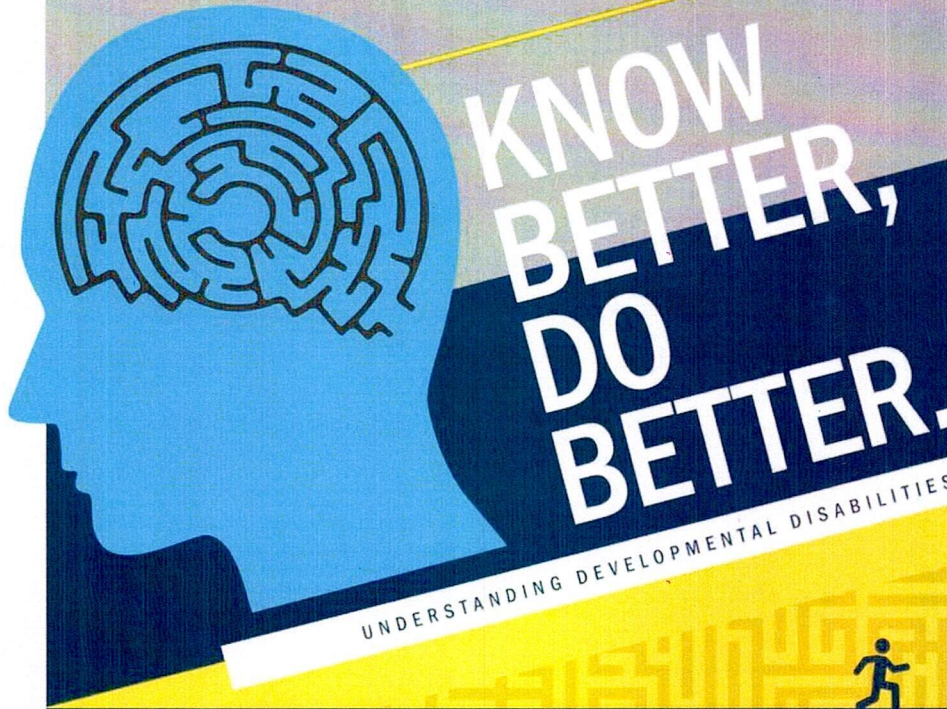
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Supported by:



Veruscha Foundation in association with
Department of Life Science & Biochemistry and
Caius Research Laboratory,
St. Xavier's College - Autonomous,
Mumbai
presents



A unique exposition on Developmental Disability with a chance to interact with relevant professionals in the field of medicine, research & local NGOs. Explore the Whys and Why nots faced by individuals living with this condition, their families and caregivers. Our one-stop workshop aims to take you through the challenges involved with developmental disabilities, highlight the achievements and potential of those who live with this condition and provide you with a glimpse into our vision of an inclusive society. You are cordially invited to know better, do better.

No registration charges, attendance is free and welcome to all.

Venue: St. Xavier's College Hall, 5, Mahapalika Marg. Mumbai - 400001

Date: 20th January, 2018

Time: Doors open from 10 AM to 4 PM



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St. Xavier's College (Autonomous), Mumbai
Biowaves 2018: "Developmental Disabilities and You"

Conference Schedule - 22nd January 2018

8:45 am – 9:15 am	Registration & Breakfast
9:15 am – 9:30 am	Inauguration by Dr. Agnelo Menezes Principal, St. Xavier's College
9:30 am – 10:20 am	Session 1 – Looking into the brain through a microscope Moderator: Dr. Bhaskar Saha
9:30 am – 9:50 am	Prof. Shubha Tole Tata Institute of Fundamental Research, Mumbai <i>Title: Building brain circuitry</i>
9:50 am – 10:10 am	Dr. Tatyana Dias Veruschka Foundation, Mumbai <i>Title: Human stem cells as a tool to study developmental disabilities</i>
10:20 am – 11:10 am	Session 2 – Examples Of What Works Moderator: Ms. Chaula Badiani
10:20 am – 10:35 am	Dr. Anjali Joshi Fellow All India Occupational Therapists Association, Mumbai <i>Title: Occupational Therapy: Training a child to become self-reliant</i>
10:35 am – 10:50 am	Dr. Yaashna Rajani Cloudnine Group of Hospitals, Mumbai <i>Title: Speech, Language and Communication therapy - changing the world one word at a time</i>
10:50 am – 11:05 am	Ms. Fatima Shaikh Participating parent, Mumbai <i>Title: Usaid's Journey</i>
11:10 am – 11:25 am	TEA
11:25 am – 12:10 pm	Session 3 – Medical Management: Current Trends Moderator: Dr. Sushama Nagarkar
11:25 am – 11:40 am	Dr. Roopa Srinivasan Ummeed, Mumbai <i>Title: Early Childhood Development and Disabilities: Role of Medicine, Mind and Matter</i>
11:40 am – 11:55 pm	Dr. Shilpa Kulkarni Wadia Hospital, Mumbai <i>Title: Medical management of developmental disabilities</i>



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Department of Life Science & Biochemistry
and Caius Research Laboratory,
St. Xavier's College - Autonomous,
Mumbai

In association with
Veruschka Foundation &
Yash Charitable Trust
presents

BIOWAVES:

DEVELOPMENTAL DISABILITIES & YOU

This one-day conference is a fantastic chance to gain insight from researchers, special educators and professionals on the challenges faced and potential opportunities available to individuals with developmental disabilities.

Registration costs Rs.100. Payment by cash. Spot Registration will be permitted.
Online registration at www.xaviers.edu and is open to all. Subject to payment of fees.

Venue: St. Xavier's College. 5, Mahapalika Marg. Mumbai - 400001
Date: 22nd January, 2018
Registration starts at 8.45 AM
Conference time: 9.15 AM to 4.30 PM

For queries on the conference, please email info@theveruschkafoundation.org
For registration queries only, please contact Dr. Priya Sundarajan on 9969379223 or email xavierslsc@gmail.com



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Collaborative Activity: National Society of the Friends of the Trees, Mumbai – St. Xavier's College, Mumbai- National Seminar on 'SGNP' A Living Treasures amidst Concrete Jungle & Sustainable Urban Forest Management

Date: 8th February 2018

ST. XAVIER'S COLLEGE – (AUTONOMOUS), Mumbai
in association with
National Society of the Friends of the Trees organizes a National Seminar on
'SGNP' A Living Treasure amidst Concrete Jungle & Sustainable Urban Forest Management.
Date: 8th February 2018
Venue: St. Xavier's College Hall (Gr. Floor)

Schedule for Seminar

Timings	Events/ Lectures by	topics
08:30 a.m. to 09:00 a.m.	Breakfast and registration	
09:00 a.m. to 09:15 a.m.	Fr. Prashant Olalekar, S.J.	Prayer for Environment
	Dr. (Fr.) Anthony J. D'Souza S.J.	Inauguration
	Dr. (Fr.) Roy Pereira, S.J.	
	Dr. Deepak Apte	
	Dr. Ashok Kothari	
Dr. Rajendra D. Shinde		
09:15 a.m. to 09:45 a.m.	Inaugural Speech Dr. Deepak Apte	Conservation issues of Urban Areas: Mumbai
10:00 a.m. to 11:00 a.m.	Dr. Vidya Athreya	Humans and leopards: Conflict or interactions?
	Mr. Nikit Surve	
11:00 a.m. to 11:15 a.m.	Tea break	
11:15 a.m. to 12:15 p.m.	Dr. Renee Borges	The Forgotten Pollinators: Urban Forests as Refugia
12:15 p.m. to 01:15 p.m.	Dr. Mayur Nandikar	Endemic Flora of Sanjay Gandhi National Park
01:15 p.m. to 02:00 p.m.	Lunch	
02:00 p.m. to 02:45 p.m.	Dr. Anish Andheria	Creepy crawlies and other creatures of Sanjay Gandhi National Park
02:45 p.m. to 03:30 p.m.	Mr. Isaac Kehimkar	Butterflies of Sanjay Gandhi National Park
03:30 p.m. to 04:15 p.m.	Ms. Mugdha Karnik	SGNP- The Warli and other tribal settlement problems and new approaches to solve them
04:15 p.m. to 04:45 p.m.	Dr. Sashirekha Iyer	Rapporteur- Summary
	Dr. Agnelo Menezes	Valedictory function
	Dr. Pushpa Sinkar	Vote of Thanks
Tea + Certificate Distribution		





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St. Xavier's College (Autonomous), Mumbai
(NAAC Accredited A3.63, UGC "College of Excellence" from 1st April 2014, DBT Star College Status)

In association with
National Society of the Friends of the Trees
Organises a National Seminar on

**Sanjay Gandhi National Park (SGNP):
A Living Treasure amidst Concrete Jungle
& Sustainable Urban Forest Management**

On Thursday, 8th February 2018
Venue: Main Hall, ground floor, St. Xavier's College (Autonomous), Mumbai. – 400001.

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St. Xavier's College (Autonomous)
(NAAC Accredited A3.63, UGC "College of Excellence" from 1st April 2014, DBT college under star fellowship)

In Association with
National Society of the Friends of the Trees
Organises a National Seminar On

"SGNP"
**A Living Treasure amidst concrete
jungle & Sustainable urban forest
management**

8th February 2018
(Thursday)

Venue: Main Hall, St. Xavier's college (Autonomous),
Mumbai – 400001.

Patrons:
▶ Dr. Ajneelo Menezes, Principal, St. Xavier's College (Autonomous).
▶ Dr. Pheroza J. Godrej, President Emeritus, National Society of the Friends of the Trees.

Organizing committee:
Convener:
▶ Dr. Rajendra Shinde, Head & Associate Professor in Botany, St. Xavier's College (Autonomous).
Co-ordinators:
▶ Dr. Parvish Pandya, Vice Principal & Associate Professor in Zoology, Bhavan's College, Andheri.
▶ Dr. Sashirekha S. Kumar, Head & Associate Professor in Botany, Mithibai College.

Members:
▶ Dr. Ashok Kothari, President, National Society of the FOT.
▶ Dr. Saraswathy Unnithan, Vice-President, National Society of the FOT.
▶ Dr. Arun Sawant, Vice-President, National Society of the FOT.
▶ Shri. Bhaara Chovatta, Hon. Treasurer, National Society of the FOT.
▶ Dr. Smita Krishnan, Head of Dept. Zoology, St. Xavier's College (Autonomous).
▶ Mr. Kevin J. D' Cruz, Dept. of Botany, St. Xavier's College (Autonomous).
▶ Dr. Madhuri P. Hambarde, Dept. Zoology, St. Xavier's College (Autonomous).
▶ Dr. Peshpa U. Sinker, Dept. Zoology, St. Xavier's College (Autonomous).
▶ Mr. Alok Gude, Dept. of Botany, St. Xavier's College (Autonomous).
▶ Mr. Conrad Cabral, Dept. Zoology, St. Xavier's College (Autonomous).
▶ Dr. Sujata Deshpande, Dept. Zoology, St. Xavier's College (Autonomous).
▶ Dr. Vijaya Lobo, Dept. of Botany, St. Xavier's College (Autonomous).
▶ Dr. Manek Mistry, (retired) Dept. of Botany, St. Xavier's College (Autonomous).
▶ Mr. Praveen Kale, Asst. Curator, Blatter herbarium.
▶ Mr. Saif Khan, Dept. of Botany, St. Xavier's College (Autonomous).
▶ Mr. Royston A. Lobo, Dept. of Botany, St. Xavier's College (Autonomous).

Registration charges:
Registration link: <https://goo.gl/forms/9CDyK03XjREv0AY2>
₹100 for students and FOT members.
₹200 for guests. Charges include breakfast and lunch.
Changes to be paid on the seminar day at the registration desk.
RSVP before 5th February 2018.

Check details: <http://www.stxaviercollege.edu.in> or stxaviercollege@stxaviercollege.edu.in
St. Xavier's College (Autonomous), 5, Mahapalika Marg, Mumbai - 400 001.
Phone: 2262 0661, 2262 0665, 2262 0666, 2262 0667, 2262 0668, 2262 0669, 2262 0670, 2262 0671, 2262 0672, 2262 0673, 2262 0674, 2262 0675, 2262 0676, 2262 0677, 2262 0678, 2262 0679, 2262 0680, 2262 0681, 2262 0682, 2262 0683, 2262 0684, 2262 0685, 2262 0686, 2262 0687, 2262 0688, 2262 0689, 2262 0690, 2262 0691, 2262 0692, 2262 0693, 2262 0694, 2262 0695, 2262 0696, 2262 0697, 2262 0698, 2262 0699, 2262 0700, 2262 0701, 2262 0702, 2262 0703, 2262 0704, 2262 0705, 2262 0706, 2262 0707, 2262 0708, 2262 0709, 2262 0710, 2262 0711, 2262 0712, 2262 0713, 2262 0714, 2262 0715, 2262 0716, 2262 0717, 2262 0718, 2262 0719, 2262 0720, 2262 0721, 2262 0722, 2262 0723, 2262 0724, 2262 0725, 2262 0726, 2262 0727, 2262 0728, 2262 0729, 2262 0730, 2262 0731, 2262 0732, 2262 0733, 2262 0734, 2262 0735, 2262 0736, 2262 0737, 2262 0738, 2262 0739, 2262 0740, 2262 0741, 2262 0742, 2262 0743, 2262 0744, 2262 0745, 2262 0746, 2262 0747, 2262 0748, 2262 0749, 2262 0750, 2262 0751, 2262 0752, 2262 0753, 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ST. XAVIER'S COLLEGE

(AUTONOMOUS)

5, Mahapalika Marg, Mumbai - 400 001,
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College profile:

St. Xavier's college was founded in 1869 by the Society of Jesus, a Christian Religious Organisation started by St. Ignatius of Loyola. Since its very inception, the Society has significantly contributed to the field of education throughout the world, inspired by a vision of the human, drawn from the life, teachings and personality of Jesus Christ. In India, it was St. Francis Xavier, after whom the College is named, who began the educational work of the Society of Jesus. St. Xavier's College looks upon itself as an academic community where scholars, both students and teachers, have the freedom and responsibility to communicate, evaluate and enlarge humankind's store of knowledge. The College stands for academic excellence and endeavours to create an environment, which generates a love of learning, a habit of critical thinking and the ability for accurate expression. The College was awarded Academic Autonomy by the University of Mumbai from the academic year 2010-11. Academic Autonomy places trust in the Faculty of St. Xavier's College to take up the responsibility of designing its own courses, framing its own syllabi and conducting its own evaluation for its students. For information on the various courses conducted refer to the following link: <http://xaviers.edu/main/index.php/admissions-and-courses>

Blatter Herbarium:

It was started at the end of the 19th century. By 1918 a very large number of plants were gathered by Fr. E. Blatter, S.J., his associates and students. The Herbarium was named after Fr. Blatter in 1941 and contains the largest private collection of flowering plants in Western India. It provides facilities for the study of Plant Systematics and has a well-stocked library on Systematic Botany. The Herbarium has received the Sir Ratan Tata Trust Grant for upgradation and digitization of the plant database. Dr. Rajendra Shinde is the present Director.

The National Society of the Friends of the Trees:

The National Society of the Friends of the Trees, formerly Friends of the Trees (FOT), was founded in 1957. In the early years of India's Independence, eager to contribute to the country's well-being, a committed group of people, concerned about the preservation of forests, joined hands to create an awareness of the vital role that trees play in our lives, protect and preserve them, and propagate plant-life. The Society was registered under the Societies Registration Act, 1950. The activities of the Society include public lectures, exhibitions, sapling distribution and tree-planting programmes through educational institutions, housing societies, corporate and government agencies. Annual events include a Vegetable, Fruit and Flower Show, a nature drawing competition for school children and a seminar. Vanashobha, the Journal of the Society, is an annual publication devoted to environment conservation. Regular nature outings are conducted for its members

throughout the year. This year, the annual Vegetable, Fruit and Flower Show will be held on the 3rd and 4th of February, 2018 at D.G. Ruparel College, Matunga Road, Mumbai.

Aim and objectives of the seminar:

The Sanjay Gandhi National Park (SGNP) is a unique in being the only National Park in the world within the limits of a megapolis, Mumbai. Its area of 104 sq.km. is surrounded by human habitations on almost all sides. Two lakes situated in SGNP, - Tulsi and Vihar lakes, form natural water catchments and also supply part of Mumbai's potable water. The Park's biodiversity is greatly influenced by elements of the Sahyadri Hills to the east. The dominant habitat is forest - moist deciduous, semi-evergreen and also mangrove scrub forest. There are an estimated 1,300 species of flowering plants in the Park. The National Park is home to 35 species of mammals including about leopards, 274 species of birds, resident as well as migrant, 52 species of reptiles and a vast variety of invertebrates including 170 species of butterflies.

Over the years, the changes brought about by the urbanization of Mumbai have affected the survival of numerous species. This has led to tremendous environmental problems, which can be solved if the city moves from net consumers to net generators of ecosystem services. Through this seminar we attempt to deliberate, discuss, understand, and put forward some strategies to sustain SGNP.

The eminent speakers include the following:

- ▶ Dr. Renee Borges, Professor at Indian Institute of Science, Bengaluru, - 'Plant Insect interaction'
- ▶ Dr. Mayur Nandikar, Scientist at Naoroji Godrej Centre for plant research (NGCPR), Pune, - 'Endemic Flora of SGNP'
- ▶ Dr. Vidya Atraye, Wild life scientist and faculty at IISER, Pune, and Nikit Surve, - 'Human - Leopards conflicts in SGNP'
- ▶ Dr. Anish Andheria, President, Wild Life Conservation Trust, - 'Creepy, crawlies and other creatures, of SGNP'
- ▶ Dr. Supriya Jhunjhunwala, Advisor Coasts and Marine protected areas at GIZ, Cambridge, United Kingdom, - 'Ecosystem services at SGNP'
- ▶ Dr. Shubhalaxmi Vaylure, Founder & CEO, Ladybird Environmental Consulting LLP, - 'Moths of SGNP'
- ▶ Mr. Anwar Ahmad, Park director, SGNP, - 'Management of SGNP: Practices and Problems'



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NAAC SSR Cycle 4 (2015-2020):

6_5_3_Collaborations



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Collaborative Activity: SPECTRUM: A Collaborative Publication -Department of Life Sciences, Sophia College - Autonomous, Mumbai and the Department of Life Science and Biochemistry, St. Xavier's College - Autonomous, Mumbai – 2017-18

Summary of spectrum 2017-18 (Spectrum-2018)

The four issues of Spectrum in 2018 dealt with diverse fields in the seven categories.

'In the news' talked about the loss of the iconic British scientist Stephen Hawking in the 5th issue and one of the finest Indian carcinologists Dr Boman Framji Chhapgar in the 7th issue, while 'Our very own special star'-the Sun- made it to the 6th issue.

'Insights' dealt with various topics like the wonders of naming our flora and fauna, sleeping patterns of animals, and epigenetics.

'Science in daily life' featured articles on mysteries associated with sleep, the science behind games like running, jumping etc, laughter and its benefits, and housing conditions and their relationship to health.

Our greys were stimulated by a quiz on constellations featured in national flags of 3 nations, a quiz related to the Persian thinker Avicenna, and puzzles on rectangles and numbers.

'Through the lens' featured a pleasing picture of the state flower of Maharashtra and birds from Rajasthan and the coastal area of India.

The dye Indigo, totipotency, Science books that changed the world (Origin of species, Principia Mathematics, the age of the Earth etc) featured in the section 'Long long ago'.

Thought Byte included excerpts from Darwin's Origin of species, A.P.J. Abdul Kalam's autobiography Wings of love and a short article on National Scientific Temper Day highlighting the work of social reformer Dr Narendra Dabholkar.

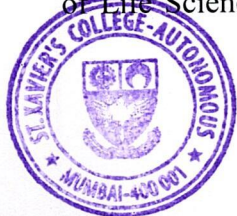
The December issue of 2018 was a special issue on Nobel Prizes and featured these prizes in the fields of Physiology/Medicine, Chemistry and Physics.

About Spectrum

Spectrum - Hues of Science, is a newsletter published every 3 months for popularizing basic science amongst school children, class 7 and above. The newsletter is available free of cost to all on the link provided below as a soft copy. Limited hard copies are printed for each issue and circulated to schools and NGOs serving underprivileged children.

Initiated in March 2017 by a few academicians, it was made into a collaborative endeavour of the Department of Life Sciences, Sophia College - Autonomous, Mumbai and the Department of Life Science and Biochemistry, St. Xavier's College - Autonomous, Mumbai, under the

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DBT STAR college scheme. The collaboration was initiated with Issue 5, March 2018 and continues till date.


The newsletters have the following seven features:

- In the news (Current science/headlines/Bytes)
- Insights (review article on any topic)
- Science in daily life
- Stimulate your Grey
- Through the lens
- Long, long ago
- Thought Byte

The team comprises an Editorial Committee, Advisory Committee and Student assistants for design and layout. Faculty and students from both colleges contribute articles that are reviewed, edited, and published with due approval of the Advisory committee.

Spectrum archives available at - spectrumsciencemagazine.blogspot.in




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2016 - 2017



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Collaborative Activity: SPECTRUM: A Collaborative Publication -Department of Life Sciences, Sophia College - Autonomous, Mumbai and the Department of Life Science and Biochemistry, St. Xavier's College - Autonomous, Mumbai – 2016-17

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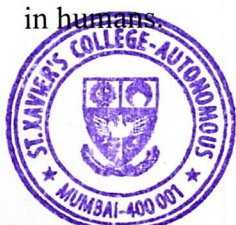
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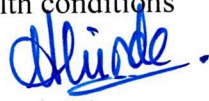
Brief summary of Spectrum-2017 issue:

The first issue of '**Spectrum-Hues of Science**' came out in March 2017, this issue had all the articles written by the editors and included a letter to the students inviting them to contribute articles to this newsletter. This was followed by three other issues in June, Sep and Dec, 2017. All the issues had articles under the first six feature headings, 'Thought Byte' did not feature in the issues of 2017.

'In the news' covered the history of the Indian Space Program as well as the work going on currently, the change in status of Pluto from a planet to a dwarf planet, information on restriction enzymes and CRISPR-CAS, and the work on understanding the molecular mechanisms of circadian rhythms by the Nobel prize winners in Physiology/medicine in 2017. The last article also talked about the relation of circadian rhythms to various health conditions in humans.



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'Insight' had articles on Biomimicry with a note on the birth of 'Velcro' adhesive, the microbiota inside our bodies, the physics behind squirrels not getting hurt when they fall, and the rational and irrational behaviour shown by humans.

'Science in daily life' dealt with topics ranging from the chemistry of cooking to relation between exercise, autophagy and body clean up. Other topics under this section were some interesting facts about memory and brain and an article on 'do trees have brains?'

'Through a lens' carried pictures of a little egret and a butterfly, a Buckminsterfullerene and a related structure at Disney's Epcot Centre theme park, Florida.

'Stimulate your greys' succeeded in doing just that by means of a biology crossword, a puzzle based on a chemistry grid, an MCQ on science questions, and a puzzle on probability.

'Long long ago' featured an interesting story about the life of Alfred Nobel, Dr Barry Marshall's journey to receiving a Nobel prize in 2005, typhus fever and the naming of *Rickettsia prowazekii*, and the history of the symbol for zero.

Issues 2 through 4 reported some comments and responses from students about the newsletter.

Shinde

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Collaborative Activity: Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) - India - Knowledge Café - One day programme for faculty members

Date: 11-03-2016

About the activity

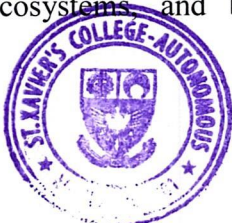
Knowledge Café was organised by GIZ's CMPA project in partnership with Caius Research Laboratory, St Xavier's College, Mumbai, which provided a multi-disciplinary and cross sectoral platform to discuss future research and networking possibilities in coastal and marine biodiversity conservation and ecosystem management.

The context of the Knowledge Café was set by Dr. Rajendra D. Shinde (Vice Principal, St Xaviers College) and Dr. Neeraj Khera (Senior Technical Expert, GIZ). Mapping of the multi-disciplinary and cross-sector expertise in the beginning of the session, enabled in setting the foundation for discussions, as the respective experts provided their insights into the current issues in coastal and marine biodiversity management. Mr. N. Vasudevan (Chief Conservator of Forests & Head of the Mangrove Cell, Forest Department, Government of Maharashtra) shared the existing and planned research and development work being undertaken by the Maharashtra Forest Department on mangrove conservation, estuarine pollution, and coastal livelihoods.

Professor J. B. Mistry, Dean, Xavier Institute of Communication highlighted the work done by his institute on communicating the environmental issues. Professor Mistry emphasised "the valuable contributions by GIZ's CMPA project in building a better understanding on coastal and marine biodiversity amongst media institutes, students and the faculty by introducing it in the mainstream curriculum." Dr. Pradeep Mehta from the Earthwatch Institute India, elaborated on the need "to take the science to the citizens and reaping the benefits of public participation and involvement in monitoring the work on conservation and management of coastal and marine areas, thereby, making the entire process less time-consuming, less expensive and, labour intensive." He also shared various examples and cases from his own work, as well as from different parts of the World, to underline how experts can use the support and involvement of citizen-science for conducting long term multidisciplinary research.

Dr Aeshita Mukherjee (Technical Expert, GIZ's CMPA project) provided insights into the research issues that are urgently needed to understand traditional knowledge and sharing the benefits of biodiversity use with the local communities. Dr Neeraj Khera (Senior Technical Expert, GIZ's CMPA project) provided an overview of the work carried in the state of Gujarat by the CMPA project such as baseline studies on two coastal wetlands, awareness and communication efforts to engage key stakeholders in coastal and marine conservation work. Besides the inputs provided by the resource persons, the participants provided a snapshot of their research interests and ideas, and also formed multidisciplinary groups to further brainstorm over their joint research ideas.

The knowledge café resulted in several research ideas developed by multi-disciplinary teams of experts, which addressed the pressing issues and challenges in managing coastal and marine ecosystems and biodiversity management. The CMPA project will facilitate further



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development of the research ideas by the faculty members and its application on the field. The participants found the knowledge café very innovative and enriching, and something to be carried out more often at their institutes. The ideas put forward by faculty members were truly diverse and multidisciplinary.

 <p>Dr. Neeraj Khert (Senior Technical Expert, CIZ)</p>	<p>A Knowledge Café on Trends and opportunities for multidisciplinary and cross-sector research in Coastal and Marine Ecosystems</p> <p>Date: 11-03-2016</p>
 <p>Dr. S.R. N. Vasudevan (Chief Conservator of Forests & Head of the Mangrove Cell)</p>	



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Indo-German Biodiversity Programme
 Conservation and Sustainable Management of Existing and Potential Coastal and Marine Protected Areas (CMPA)

A Knowledge Café on
Trends and opportunities for multidisciplinary and cross-sector research
in Coastal and Marine Ecosystems

Date: March 11th 2016 • Venue: SCAVI, St Xavier's College, Mumbai

WHY THIS KNOWLEDGE CAFÉ? The Knowledge Café is being organized to provide a multi-disciplinary platform for discussing future research and networking possibilities in coastal and marine biodiversity conservation and ecosystem management.

KEY THEMES OF THE KNOWLEDGE CAFÉ.

- The event will provide the faculty members with insight into the current issues in coastal and marine biodiversity management that make interesting research topics
- The event will provide a snapshot of the research interests of the science and media faculty vis-a-vis coastal and marine ecosystems
- The event will create a platform for brainstorming on the ideas shared by the faculty members
- The event will facilitate networking among the faculty members and experts, for any future possibilities of working together on issues of common interest

WHO IS PARTICIPATING? The Knowledge Café will see a cross-sector participation of the science and media faculty members from Mumbai as well as coastal marine experts on coastal and marine ecosystem research from National and International organizations.

SCHEDULE

TIME	SESSION
9:30 - 10:00 am	Registration Tea/Coffee
10:00 - 10:15 am	Welcome & Introductions Dr. Agnel Menezes, Principal, St. Xavier's College (Autonomous) Dr. Neeraj Khera, Senior Technical Expert, CMPA project, GIZ
10:15 - 10:30 am	Mapping the expertise available in the room
10:30 am - 1:00 pm	Expert inputs. An overview of the issues in coastal and marine ecosystems and possible research themes (Presenters and practitioners in coastal and marine biodiversity from National and International Organizations)
1:00 - 2:00 Lunch	
2:00 - 3:30 pm	Gallery Walk: Faculty members share their research ideas
3:30 - 4:00 pm	Brainstorming session: Groupwise discussions on the research issues, potential partners and support opportunities
4:00 - 5:00 pm	High tea and networking session
5:00 pm	End of Knowledge Café

REGISTER NOW
 No registration fee
 Limited seats!!

Conditions for Registration: Faculty members from any discipline (Science, Humanities, Media) can apply. Faculty member must submit a research idea of about 200-250 words as the pre-condition for registration.

LAST DATE OF REGISTRATION:
2nd MARCH, 2016

Please register on the website of the St Xavier's College. For further details, contact: Dr. Pooja Sundarajan, Director, Cairus Research Laboratory, email: psundaraj@stxv.org

ORGANIZERS

GIZ Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH is an enterprise owned by the German Government. GIZ promotes socio-economic development through international cooperation in various fields of German and other partners. To address India's need for world-class and innovative growth in partnership with stakeholders, GIZ's key focus areas are Knowledge Management, Sustainable economic development.

The Indo-German Biodiversity Programme is working with its overarching goal of conservation of biological resources to create livelihoods for future generations. The programme addresses the challenges of sustainable conservation in the contemporary world, in collaboration with the Ministry of Environment, Forest and Climate Change (MEFCC), Government of India. The project is facilitating a holistic capacity development system for the key relevant sectors of forest, fisheries and media, addressing their knowledge, skills and values.

Cairus Research Laboratory for Interdisciplinary Research, St. Xavier's College - Autonomous
 Cairus can engage on various projects involving technology, sustainability, organic chemistry, history, inter-religious and heritage. It has produced a large number of PhD and M.A. researches and are offering research assistant in academic and industry in different parts of the world. The Laboratory also provides its expertise and facilities available in academic, governmental, corporate, and entrepreneurs for launching our R&D projects, on a collaborative or contract research basis. The research projects being carried out in the Laboratory are being funded by government through national, state, CSR, UNESCO, UNICEF, DLR - 80% and industry collaboration with LGI, Geni, TCS, Power etc.

On behalf of:
 Federal Ministry
 for the Environment, Nature Conservation,
 Building and Nuclear Safety
 of the Federal Republic of Germany

Certificate of Participation

This is to certify that
Dr. RADIYA PACHA GUPTA
 has participated in the
Knowledge Café
 on
Trends and opportunities for multidisciplinary and cross-sector research
in Coastal and Marine Ecosystems
 on March 11, 2016
 at SCAVI, St Xavier's College, Mumbai
 organised jointly by
 the Conservation and Sustainable Management of Coastal and Marine Protected Areas (CMPA) project, GIZ India
 and Cairus Research Laboratory, St. Xavier's College, Mumbai


 (Dr. Agnel Menezes)
 Principal
 St. Xavier's College- Autonomous,
 Mumbai


 (Dr. Neeraj Khera)
 Senior Technical Expert
 CMPA Project, Indo-German Biodiversity Programme,
 GIZ India



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GIZ Biodiversity Programme

To:
Dr. Priya Sundarajan
Associate Professor
St Xavier's College,
5, Mahapalika Marg, Mumbai, Maharashtra

Your reference NIL
Our reference 11.9299.6/16/16
Date: 28-03-2016

Biodiversity Programme Office

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Subject: Your Contribution in organizing a 'Knowledge Café on Trends and opportunities for multidisciplinary and cross-sector research in Coastal and Marine Ecosystems' in Mumbai on March 11th 2016

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Dr. Hans-Joachim Preuß
Cornelia Richter

Dear Dr. Sundarajan,

Greetings from GIZ Biodiversity Programme!

I am writing this letter to formally thank you for your valuable contribution as an Organizer on behalf of St. Xavier's College for the "Knowledge Café on Trends and opportunities for multidisciplinary and cross-sector research in Coastal and Marine Ecosystems" held for the faculty from various colleges of Mumbai, on 11th March, 2016 at St. Xavier's College.

This Knowledge Café was organized by GIZ Biodiversity Programme in collaboration with the Caius Research Laboratory for Interdisciplinary research, St Xavier's College under the project 'Conservation and Sustainable Management of Existing and Potential Coastal and Marine Protected Areas (CMPA)'. The project facilitates knowledge exchange on coastal and marine issues among the experts in a cross-sector and multidisciplinary group, and knowledge café is one of the instruments.

I look forward to working with you again on similar innovative ideas and events.

Yours sincerely,

Dr. Neeraj Khara
Senior Advisor, Biodiversity Programme



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