

Best Practices

The institute adopts two best practices “Learn from stalwarts” and “Enriching expressions” which promotes the student engagement through active learning from eminent speaker of premier institutes and alumni of the institute.

Best Practice-1

1. Title of the Practice

LEARN FROM STALWARTS

2. Objectives of the Practice

- Promoting student engagement through active learning
- Enable the class to address important topics from multiple perspectives, thus increasing students’ curiosity for, and engagement with, course content.
- Actively involve students in a wide range of experiences while also advancing the goals of a given curriculum.

3. The Context

Education is shifting the emphasis from a teacher-centred to a learner-centred environment in which learner explores topics in greater depth and creates meaningful learning opportunities. Learn from stalwarts’ activity brings a truly interactive learning experience into classrooms where students and teachers share their knowledge background theoretically on various contemporary topics.

4. The Practice

During the session various elite researchers and academicians from premier institutes i.e. BARC, IISER, Pune and IIT, Mumbai have delivered the lectures and motivated the students towards research and thorough in-depth knowledge on various topics. The lecture series also includes the career counselling for postgraduate students to realise the importance of Basic Natural sciences.

5. Evidence of Success

List of Lectures organised in academic year 2020-21

Sr. No	Department	Title of the event	Name and designation of speaker	Date	beneficiaries
1	Chemistry	Chemistry Lecture Series	<p>1] Prof A K Bakshi Founding Vice-Chancellor of PDM University Chairman National Resource Centre of Chemistry, MHRD</p> <p>2] Prof. Diwan Singh Rawant FRSC, President of Indian Science Congress Department of Chemistry University of Delhi</p> <p>3] Prof. M S Balkrishna Department of Chemistry IIT-Bombay</p> <p>4] Dr. Adhish Tyagi Scientific Officer "E" Chemistry Division, BARC</p> <p>5] Dr. Sandip Nigam Scientific Officer "G"</p>	17 th and 18 th Feb 2021	324 on zoom and 1300 on youtube

			Chemistry Division, BARC		
2	Chemistry	Importance of Innovation in Chemical Sciences – Examples from BASF	Dr. Dietmar Heuglin, Director, Innovation Campus (RA/OM), Vice President, Advanced Materials & Systems Research	20 th May 2020	135 students
3	Chemistry	How to get to the top of your career with Chemistry?	Dr. Prabodh Chobe, Former senior general manager and Head, R & D centre, BASF	25 th July 2020	232 students
4	Chemistry	Utilizing time and managing studies effectively in midst of a pandemic	R. Srinagesh, Author, Life Coach, Professor of Happiness for students	20 th July 2020	56 students
5	Chemistry	Taking right decisions for a bright career	Dr. Prabodh Chobe Former Senior General Manager & Head, R & D Centre, BASF	28 th Oct 2020	495 students
6	Chemistry	Challenges and Way out for higher educational activities during and post Covid-19 pandemic	Chief Guest: Prof. M. M. Salunkhe, Vice-chancellor, Bharati Vidyapeeth Pune Guest Speaker: Prof. N. V. Thakkar, Ex- professor, The institute of Science, Mumbai	21 st Sept 2020	102 teachers

			Chairperson (Discussion session): Prof. A. K. Singh, Ex-Professor, Department of Chemistry, IIT, Bombay		
7	Microbiology	First Made in India COVID 19 test kits By Mylabs	Mr. Debarshi Dey, Marketing Head, MyLab Discovery solutions	23 rd May 2020	900 participants
8	Geology	Monogenetic Volcanoes: Origin, Evolution and their control on local Paleoenvironment conditions	Dr. Pooja Kshirsagar Professor- Investigator, Department of Engineering in Mines, Metallurgy and Geology, Mexico	29 th June 2020	182 students
9	Geology	Deglacial Origin of Barrier Reefs Along Low-Latitude Mixed Siliciclastic and Carbonate Continental Shelf Edges	Dr. Andre Droxler, Professor at the Department of Earth, Environmental and Planetary Sciences (DEEPS at Rice University and scholar at the Baker Institute for Public Policies, Houston, Texas, USA	30 th June 2020	138 students

10	Geology	A Serpentine story on the Origin of Life	Dr.Alik Sundar Majumdar, Assistant Professor, IIT (ISM) Dhanbad	6 th July 2020	177 students
11	Geology	Shear Zone-special reference to southern granulite terrain, India	Dr. Durga P Mohanty Assistant Professor, Pune University, India	16 th July 2020	177 students
12	Geology	Tectonic Evolution of Aravallis	Prof. T.K. Biswal, Dept of Earth Sciences, IIT Bombay, India	31 st July 2020	2000 participants
13	Zoology	Natural history museum and biodiversity	Thomasina Dsouza, Assistant Curator, CSNVS, Fort	8th May, 2020	30 students
14	Zoology	Importance of Honey Bee	TB Nikam, Former HOD, Zoology, RYK College	21st May, 2020	25 students
15	Zoology	World Wildlife day	Mr.Nikhil Phophale, founder member of Gaia Eco Tours	3rd March, 2021	55 students and 10 teaching staff
16	Botany	Pharmaceutical, cosmeceutical and nutraceutical significance of algae	Dr. MA Deodhar, Head, Dept of Botany, Vaze College, Mumbai	5th May, 2020	205 students
17	Botany	COVID 19 Insights into research	Dr. Shailesh Sonar, Principal Scientist, Biogenomics, Thane	9th May, 2020	82 students
18	Botany	Role of Industry in Development of Academics	Dr. SS Barve, Deputy Director,	12th May, 2020	250 students

			SRC, Vaze College, Mumbai		
19	Botany	Drug discovery and medicinal plants	Dr. Ajay Namdeo, head, Poona College of Pharmacy	16th May, 2020	269 students
20	Botany	Mangrove and mangrove associates - Natural strugglers	Dr. Mangal Patwardhan, head, dept of Botany, Gogate-Jogalekar College, Ratnagiri	22nd May, 2020	250 students
21	Botany	biodiversity conservation- Why and How?	Dr. Veena Gupta, head, Scientist, Division of Germplasm Conservation, ICAR-NBPGR, New Delhi	28th May, 2020	256 students
22	Mathematics	Origami	Mr. Sagar Shrivastava, Ph.D. Fellow, Pure Mathematics at the School of Mathematics, TIFR Mumbai	25th January 2021	180 Students
23	Nutraceutical	Food safety and risk assessment during COVID 19	Dr. Sheetal Gupta, Deputy Director, FSSAI	15th May, 2020	210 students
24	Nutraceutical	Tryst with ancient vedic heritage through nutraceuticals: a wellness connect	Dr. Jyoti Vora, former HOD, Biochemistry, Ruia College, Mumbai	9 th ,16 th and 23 rd July 2020	94 Students

25	Business law	Role of Youth in Standing Up Against Racism	Dr. Kiran Sharma, Asst Professor of Law, KC College, Mumbai	24 th March 2021	246 students
26	Physics	“Muon g-2 anomaly - Hunt of new Physics”	Dr. Jai More, DST-Women Scientist, Theoretical High energy Physics, IITB	23th April 2021	89
27	Physics	Online Physics Lecture series	1] Prof. Joseph Samuel Raman Research Institute, Bangalore 2] DR. S M Ahmed University of Hyderabad, 3] DR. Atul Mody IAPT Mumbai SRC President, Mumbai 4] DR. Shriganesh Prabhu, TIFR, Mumbai 5] Prof. Ajit M Srivastava, Institute of Physics, Bhuvaneshwar 6] Mr. ShivaKumar, MG Solar Powertronics LLP.,	23 rd July to 27 th August 2020	150
28	Physics	International Short course on advanced physics	1] Mr. Ram Saadon, Israel 2] Dr. Olivier Calay-Roche, Faculty electrical engineering, Axi-Marseille Academy, France	6 th to 8 August 2020	130



			3] Dr Punit Kumar, Lucknow University, India 4] Deepak Jalla, K. J. Somaiya College of Science and commerce, India 5]Dr. S. S. Gaur, Delhi University		
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6. Problems Encountered and Resources Required

- Raising funds for activities
- Ensuring active student participation

Best Practice-2

1. Title of the Practice

Enriching Expressions

2. Objective of the Practice

- To build a strong network of past and current students.
- To encourage, foster and promote close relations between K J Somaiya College of Science and Commerce and its Alumni for the growth of the institution in the areas of industry interaction, admissions, internships and placement.
- Alumni are great mentors for current students as they can share their insights about the competitive market for opting better opportunities

3. The Context

Alumni associations have been a part of educational institutions. “Enriching Expressions” activity makes optimum use of alumni expertise to conduct Alumni – student knowledge exchange programmes like professional lectures, panel discussion, etc.

4. The Practice

Lecture/workshop series ‘Enriching Expressions’ involves organisation of talks/workshops/discussions by eminent alumni in their area of expertise. The students are benefited by the experience of the alumni in topics of current areas of research etc. Every year during the annual reunion, eminent Alumni are felicitated. This year Mr. Parmanand Bhatia an alumnus of the microbiology department was felicitated. Mr. Parmanand Bhatia is the co-founder of Lab Diagnostics Pvt Ltd. A rapid covid-19 test of this company was approved by the ICMR last year.

Every department of the college seeks to develop innovative courses through alumni engagement. One such initiative has been taken up by the Department of Chemistry - A skill

enhancement course titled ‘Business skills for Chemists’. This course is designed for TYBSc Semester V and conducted by the alumni of the chemistry department who are working in the industry for 10 to 15 years and are well versed with their domain. 104 TYBSc students enrolled for this course in academic year 2020-21.

Alumni are regularly involved as judge for department festivals of Biochemistry. Chemistry department organised Panel discussion with Alumni during “Rasayan” festival. In panel discussion present students interviewed alumni about their career path. Physics department organised career guidance session by alumni.

5. Evidence of Success

List of Events organised in academic year 2020-21

Sr. No	Department	Title of the event	Name and designation of speaker	Date	beneficiaries
1	Environmental Science and Alumni association	Webinar on ‘Why is Biodiversity important? Who cares?’	Solicitor Vishwanath Mannadiar	22/05/2020	98
2	Chemistry	TYBSC Sem V SEC: Business Skill in chemistry course	1] Dr. Rajesh Rajeshirke Manager technology and outsourcing BASF 2] Dr. Shrikant Nalawade, Technical Manager, Milliken Chemical and Textile Co Pvt Ltd 3] Dr. Rikhil Shah, Analyst, Intellectual	June 2020 to October 2020	104 TYBSc students.

			property, Avient Corpotation 4] Mr. Saurabh Oak, General Manager, International Business, Microgen		
3	Chemistry	Panel Discussion during “Rasayan”	1] Prof. Ganesh Naik Director of Chemistry and Environmental Sustainability Program Professor of Chemistry 2] Dr. Nischal Singh, Senior Scientist II physical chemistry at Abbvie, Syracuse University, Chicago 3] Dr. Rajiva Koturkar 4] Dr. Rajesh Rajeshirke Manager technology and outsourcing BASF 5] Dr. Rikhil Shah, Analyst, Intellectual property, Avient Corpotation 6] Mr. Saurabh Oak, General	30/01/2021	182

			Manager, International Business, Microgen Hygiene Pvt Ltd 7] Dr. Shrikant Nalawade, Technical Manager, Milliken Chemical and Textile Co Pvt Ltd		
4	Physics	Career guidance session	1] Mr. Nilesh Deokar perusing doctorate from Germany 2] Ms. Surabhi, IT professional 3] Mr. Viveka Singh Persuing PhD 4] Mr. Yash Lapsiya, persuing PhD 5] Mr. Sudheer Yadav, Assistant Commandant, Indian Coast Guard	11/07/2020	40
5	Biochemistry	Alumni were invited as judges for all the events under Health Fair 2020-21. Ten alumni of biochemistry department	1] Mr. Ravi Nayakwadi, Omniactive Health technologies Pvt Ltd 2] Ms.Laxmi Dalvi, PRA Health Sciences	29/01/2021	170

		participated in judging events	<p>3] Mrs.Minal Sawant, TATA institute of social Science</p> <p>4] Ms Seethalaxmi, Ridik Pvt Ltd</p> <p>5] Mr.Nikhil Ghade, Biogenomics Ltd</p> <p>6] Ms.Supriya Raote, TATA consultancy Services</p> <p>7] Pritesh Patel, PRA Health Sciences</p> <p>8] Ms.Shweta Narayanswamy, Novartis Healthcare Pvt Ltd</p> <p>9] Mr.Girish Poojary, Baytech Solution</p> <p>10] Mr. Ratish Raman, university of Liege</p>		
6	Chemistry	Decoding brain and Neuro Consciousness	<p>Prof. Ganesh Naik Director of Chemistry and Environmental Sustainability Program Professor of Chemistry</p>	29/08/20	44

6. Problems Encountered and Resources Required

- Registration of alumni



Anshu
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