

# B. K. Birla College of Arts, Science and Commerce, Kalyan

(Empowered Autonomous Status)

Conducted by Kalyan Citizens' Education Society  
Affiliated to University of Mumbai

Reaccredited by NAAC with 'A' Grade (CGPA – 3.58) (2014-23)

'College of Excellence' Status by UGC (2015-2020)

'Performance Excellence Trophy - 2011 in Education' by IMC RBNQA Trust

'Best College Award' by the University of Mumbai (2009)

ISO Certification 9001: 2015.



## One Day National Symposium on

## Development of Resilient Technologies for Climate Change Mitigation

the Tuesday, 22<sup>nd</sup> August, 2023

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Organized by

Department of Environmental Sciences

Jointly with



International Centre for  
Climate and Sustainability  
Action Foundation



## Organizing Committee

Chairman	:	<b>Dr. Naresh Chandra</b> Director (Education), BKBC
Co-Chairman	:	<b>Dr. Avinash Patil</b> Principal, BKBC
Convener	:	<b>Prof. Maninder Kaur Dhaliwal</b> Vice-Principal, BKBC Head, Department of Microbiology
Organizing Secretary	:	<b>Dr. Sonal Tawde</b> In-charge, Department of Environmental Sciences, BKBC
Joint Secretary	:	<b>Dr. Vandana Gupta</b> Assistant Professor, Department of Environmental Sciences, BKBC
Treasurer	:	<b>Dr. Shivani Kakkar Khanna</b> Assistant Professor, Department of Biotechnology, BKBC
Member	:	<b>Dr. Annika Durve Gupta</b> <b>Dr. Sonali Patil</b> <b>Mrs. Shruti Shah</b> <b>Dr. Minal Trivedi</b> <b>Dr. Pooja Gupta</b> <b>Dr. Mugdha Pathak</b> <b>Dr. Sweta Das</b> <b>Dr. Sneha Dokhale</b>

<b>Registration Fee:</b>	
For Faculty Delegates:	Rs. 500/-
For Student/ Research Scholar Delegates:	Rs. 300/-
<b>Registration Link:</b>	<a href="https://forms.gle/pzhnjcZCNQdcPSBZ7">https://forms.gle/pzhnjcZCNQdcPSBZ7</a>
<b>Payment Details:</b>	Account number 0209101040623
Account Name:	B. K. Birla College Other Expenditure
Bank Name:	Canara Bank
Account Type:	Savings Bank
IFSC Code:	CNRB0000209
Branch:	Kalyan Main Branch
<b>Contact Details:</b>	9820950052, <a href="mailto:vandana.gupta@bkbirlacollegekalyan.com">vandana.gupta@bkbirlacollegekalyan.com</a> 9833291515, <a href="mailto:sonal.tawde@bkbirlacollegekalyan.com">sonal.tawde@bkbirlacollegekalyan.com</a>

## COLLEGE PROFILE

B. K. Birla College of Arts, Science and Commerce, an Empowered Autonomous College (conferred by University of Mumbai on 30<sup>th</sup> June 2023 for the period of 10 years from the academic year 2023-24 to 2032-2033), is a multi-faculty premier institution of higher learning, with an enrolment of 13,500+ students (9,100 students in UG, PG and Research Programmes and 4,400 in Junior College) is affiliated to the University of Mumbai (UoM). The College was established in 1972, by Kalyan Citizens' Education Society with the blessings of Pujya Shri B. K. Birla ji and Pujya Smt. Sarala ji Birla. The College is spread over 20 acres of land (including B. K. Birla Public School) in the prime location of Kalyan city. The college has 72 classrooms with ICT facility, with 50% being smart classrooms and one 3D studio. The College has taken several initiatives towards green campus including the facility of ETP, STP and Rainwater Harvesting. The College has a well-equipped Central Library (Green Library) with IT infrastructure. The Chairman and Faculty members have sponsored 25 new cycles to the needy students as a green initiative during the current year. The New Building (55,000 sq. ft.) has been added to provide new Science Labs and Classrooms. The College offers 32 UG, 33 PG courses and 09 Ph.D. programs. The College also conducts PG Diploma in Bio-nanotechnology, PG Diploma in Global Education and A-DMLT Courses. The College has recently introduced new age study programmes B. VOC in Cyber Security and Forensics, M.Sc. (Data Science and Big Data Analytics), M.Sc. (Finance), M.Sc. (Artificial Intelligence), M.Sc. (Food Science and Nutraceuticals) and B.M.S. in Retail Management in association with Maruti Suzuki Pvt. Ltd. from the Academic Year 2022-23. The UGC has sanctioned a Community College for Diploma in Accounting and Taxation in 2015-16. The College has been reaccredited (3rd Cycle) by NAAC and awarded 'A' Grade (CGPA- 3.58) in 2014. The College was granted 'College of Excellence' status by UGC (2015-20) and ISO 9001:2015 certified. The College has been granted 'Autonomous Status' by UGC and UoM from 2018-19. The depts. of Botany, Chemistry, Microbiology, Physics and Zoology have been awarded 'Star Status' (2017-20) and the depts. of Mathematics, Information Technology and Computer Science have been selected under Star College Scheme by Dept. of Biotechnology (DBT) (2017-20), Govt. of India, New Delhi. The Rashtriya Uchcharat Shiksha Abhiyan (RUSA) has sanctioned financial support of Rs. 5.00 crore to our college for 'Enhancing Quality and Excellence' under Component-8. The College has been approved as a Potential 'Mentor Institution', by UGC under PARAMARSH scheme (2019-20).

The College has established Mpower Counselling Cell instituted by our patron Respected Dr. Neerja ji Birla, Founder and Chairperson of Mpower and ABET to provide holistic mental health care solutions. On the occasion of Celebration of Golden Jubilee Year of our College and Birth Centenary Year of our Founder Pujya Shri B. K. Birla ji, the Postal Stamp was released with the College logo and photo of Pujya Shri B. K. Birla ji by the Department of Posts, Government of India at the gracious hands of Shri Bhagat Singh ji Koshyari, Hon'ble Governor of Maharashtra and Chancellor of Universities in Maharashtra State and Padma Bhushan Smt. Rajashree ji Birla, our Chief Patron, Chairperson, Aditya Birla Centre for Community Initiatives and Rural Development (Digitally) on Thursday, 14 October, 2021 at Raj Bhavan, Mumbai. The College in the pursuit of excellence has attained numerous awards and accolades. The College has been consistently ranked among the best colleges of India in different education surveys nationwide. Recently, the College has been Ranked No. 2 in India, 1<sup>st</sup> in Maharashtra and 1st in Mumbai in the category of 'Extraordinary Contribution to Local Community' by Education World Grand Jury India Higher Education Rankings (2023-24); Ranked No. 1 as 'Promising Future Ready - Institution' by Education World, India Higher Education Rankings 2021-22, Ranked 1<sup>st</sup> in Country as 'New Age Study Leader Programme Leader' by EducationWorld (2022-23) and Ranked 2nd in 'Student Diversity' by Education World (2020-21).

B. K. Birla College has a vibrant work-culture with holistic approach to education. The teaching - learning process is supported by the use of ICT, interactive exercises, projects, assignments, etc. in addition to chalk and talk method. It has taken special efforts towards developing IT enabled campus and Digital Footprints and also introduced several new age programs to cope up with the market trends. The academic results have always been higher than the University results. Every year a few students figure in the University merit list. Research is an integral part of teaching. 25 faculty members are Ph.D. Guides. Many faculty members have worked on Major and Minor Research Projects and have published many research papers and authored books. 45 Patents (29 Granted and 16 Published) have been contributed by the Faculty Members. The college has established Career guidance and Placement cell and Entrepreneurship cell and Skill Hub to provide help, support and guidance. Hon'ble Prime Minister Shri Narendra Modi ji inaugurated B. K. Birla College - Entrepreneurship Cell and Skill Hub (RUSA) on 03.02.2019 digitally. The performance of students is excellent in extra-curricular activities including NCC, NSS, Sports, etc. The College NCC Units have bagged the Vice Chancellor's banner for 12 times out of 20 for being best NCC Unit of UoM. Our cadets participate in Republic Day Camp, Thal Sainik Camp and All India Nau Sainik Camp regularly. The management provides financial support to the students for participating at International and National Level.

The College provides Tuition fee concession to needy students in addition to scholarships / freeships by Government. A number of students have qualified for the UPSC / MPSC, IIT- JAM, NET and SET examinations and have received INSPIRE fellowship. The college has signed MoU with University of West Georgia and few other national and international institutes for faculty and student exchange and to promote research. We have signed MoU with Century Rayon, Shahad, Century Enka Ltd., Pune and Rajashree Polyfil Ltd., Bharuch, for strengthening academics and research.

We stand committed for the cause of higher education.

## DEPARTMENT OF ENVIRONMENTAL SCIENCES

Department of Environmental Sciences is a Self-Financing Post Graduate department started in the year 2003-04. The department caters to the students having B. Sc. degree in Chemistry and Biological Sciences, interested in pursuing career in Environmental Sciences. The syllabus is designed as per NEP 2020 and it aims at overall development of the learners. The Environmental Sciences Laboratory is accredited with NABL. Scholarly lectures by eminent personalities, field visits, exposure to research activities through seminars/webinars and conferences enhances their professional skills for acquiring competitive jobs. Students completing the course have wide range of placement opportunities in industry, consultancies, research institutes, government agencies, NGO's, etc.

## About ICCSA

International Centre for Climate and Sustainability Action (ICCSA) Foundation is a public-interest research and advocacy organisation based in New Delhi, Mumbai and Guwahati. ICCSA Foundation researches into, lobbies for and communicates the urgency of development that is both sustainable and equitable. Based on their previous experience and specialisation, ICCSA Foundation carries out knowledge-based environmental design implementation. They have developed and implemented Nature-based Solutions (NbS) for various environmental problems. The foundation works extensively with grassroots organisations, industry leaders, experts, government agencies and mass media in India and abroad in lobbying for equitable and sustainable actions.

## ABOUT THE SYMPOSIUM

According to the 2018 Intergovernmental Panel on Climate Change (IPCC) special report, Global Warming of 1.5°C highlights the urgency of needed climate actions: global emissions will peak by 2030 and rapidly decrease to net-zero by 2050, if we are to be able to stay within the safety limits established by the Paris Agreement. Climate change calls for new approaches to sustainable development that consider complex interactions between climate, social and ecological systems. Climate-resilient pathways are development trajectories that combine adaptation and mitigation to realize the goal of sustainable development. They can be seen as iterative, continually evolving processes for managing change within complex systems. Climate-resilient pathways include strategies, choices, and actions that reduce climate change and its impacts. They also include actions to ensure that effective risk management and adaptation can be implemented and sustained. More research about the relationship between mitigation, adaptation, and sustainable development is needed, as well as research on the relationship between incremental changes and more significant transformations for sustainable development. Hence, there is a need to enhance the researchers, scholars, young environmentalists and students with upgradation of knowledge, technology and skills to meet the future environmental challenges with sustainable and green solutions to make the earth a better place for survival. This symposium will make an attempt to explore the present status of climate change and through experts, it will provide a platform to understand new technologies used in climate change mitigation. This Symposium invites a collective wisdom and new ideas from various fields of Botany, Biotechnology, Zoology, Environmental Sciences, Chemistry, Physics and other related subjects to discuss on different issues related to environmental problems and solutions. Thus, the symposium aims at deliberation of interdisciplinary knowledge across disciplines by merging the boundaries across different subjects. Since, by 2035, global energy demand is projected to grow by more than 50 percent, and even faster in developing countries, the symposium will also highlight on alternative energy sources.

Link for Whatsapp Group: <https://chat.whatsapp.com/HITLbh9gzhO4kDv6EFwWTU>