



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

(Empowered Autonomous Status)

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

## Department of Mathematics

### *Two-day workshop on “Optimization of Industrial Operations over Time”*

#### Objective of the Workshop

- To prepare for industry projects on optimization, cost reduction and optimal production
- Understanding of optimization for industry techniques, specifically in Industry 4.0 (Type of Industry-Process and manufacturing industries)
- To be ready for industry collaborations

#### Eligibility

Students of UG/PG from Mathematics/IT/CS/Data Science

#### Schedule

**Duration:** Two Consecutive days. **Time:** 10.00 am to 05.00 pm.

**Date:** 15-16 March 2024

#### Topics to be covered

1. Cost Optimization, Optimal Production and Product Differentiators
2. Uncertainty in Industrial Measurements
3. Dynamics of Industrial Systems
4. Industrial Process Modelling and Optimization
5. Plant Process Performance Monitoring
6. Process Control Systems and Plant Tuning
7. Dynamic Programming Approach for Optimal Policy
8. Formulating the Industrial Optimization Problem
9. Stochastic Control for State Variable Systems
10. Practical Issues in Industrial Operations of Machines and Processes

#### How to apply?

LINK : [Google form](#)

Intake: **40**

Selection : First come first basis

Registration Fees: **Rs. 200/-** (Which includes Lunch and Tea)

#### About the speaker

**Dr. Ajay Deshmukh**

Dr. Ajay V. Deshmukh, did his Ph.D. from IIT Bombay in 2006. He has 30 years of experience in academics as the Professor of Instrumentation & Control in Cummins College of Engineering for Women, VIT Pune, and as the Principal of Engineering colleges: Bajaj Institute of Technology Wardha, DACOE Karad, SEC Someshwar, SSASIT Surat, Gujarat. He is also Honorary Director at Centre for Industrial Mathematics, *Bhaskaracharya Pratishthana* Pune and Ashokrao Mane Group of Institutions, Kolhapur.

#### Organizing Team

1. Mr. Prakash Sansare - Head of Department
2. Mr. Gajanan Dhumal
3. Dr. Krishna Ghode
4. Mr Sachin Gondke
5. Ms. Komal Badgujar
6. Mrs. Vaibhavi Kedar Mulmule
7. Ms. Shaima Thange
8. Mr Nitin Tomar (Prime Minister Research Fellow)

#### Contact Details

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**Website :** [College](#), [Department](#)