Mr Bharatkumar Shamrao Patil

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I bring several years of extensive academic experience that would be valuable to a distinguished and growing institution such as the All India Shri Shivaji Memorial Society. Throughout my career, I have held various roles within the academic field, including serving as Head of Department. My expertise spans all phases of teaching and academic administration, including the development of Electronics/Instrumentation and Artificial Intelligence laboratories. I have also been actively involved in organizing workshops, seminars for industrial development, and industrial visits for students.

Notably, I played a pivotal role in establishing and managing a center at Yashwantrao Chavan Maharashtra Open University, which offered degree and diploma courses in technology, contributing significantly to revenue generation for our polytechnic. Additionally, I implemented short-duration courses in automation to further bolster revenue streams.

My tenure as Principal of A.I.S.S.M.S Polytechnic lasted for 10 years, during which I successfully organized annual workshops on Entrepreneurship Development with funding from the central government. I also coordinated induction training programs for teachers with support from the Maharashtra government. My initiatives extended to several MSBTE-sponsored staff development programs and state-level project competitions for final-year students, funded by MSBTE.

Professional Experience

Experience as a Principal 10 years

Sr.No.	Post	Institute	Period	Approval
1.	Principal	AISSMS,POLYTECHNIC,PUNE	01/09/2008 to 17/05/2018	10/NGP/approval/2011/2403

Experience as a HOD10 years

Total Teaching Experience: 26 Years

Sr. No.	Position held	Name of the College / Institution	Period	Nature of appointment (Temporary /Permanent)
1	HOD	AISSMS,POLYTECHNIC,PUNE	18/05/2018 to till now	Permanent
2	Principal	AISSMS,POLYTECHNIC,PUNE	01/09/2008 to 17/05/2018	Permanent
3	HOD	AISSMS POLYTECHNIC,PUNE	01/10/2005 to 31/08/2008	Permanent
4	Incharge HOD	AISSMS POLYTECHNIC,PUNE	16/10/1998 to 30/09/2005	Permanent
5	Lecturer	AISSMS POLYTECHNIC,PUNE	10/08/1998 to 05/10/1998	Permanent

Pioneered Activities

- Established and runned Yashwantrao Chavan Maharashtra Open University center in A.I.S.S.M.S for the following courses from June 2006 - May 2014
    1. B. Tech Electronics
    2. Diploma in computer technology
    3. Diploma in Electronics & Communication Engineering
    4. Diploma in Instrumentation Engineering
    5. Diploma in Industrial Electronics
    6. B.Tech Mechanical Engineering
    7. Diploma in Mechanical Engineering
    8. Diploma in Production Technology
    9. Diploma in Automobile Engineering
- Established Alumni Association in A.I.S.S.M.S Polytechnic, facilitating various activities that benefit current students.
- Training courses on PLC and automation
- Started celebration of Shiv Jayanti in A.I.S.S.M.S R.T.O office campus and grand Shiv Jayanti procession
- Hosted first ever State level project competition for diploma final year students which was sponsored by MSBTE
- Started state level paper presentation activity in A.I.S.S.M.S Polytechnic

Workshops and conferences

- Institution building and staff development
- Development of generic skills
- International conference on instrumentation INCON - 2004
- Entrepreneurship development
- Fruits and vegetable preservation training
- Conference on Designing destiny - Rediscovering our purpose
- Operation and maintenance of imaging systems used in clinical applications
- Effective teaching skills
- Small industry development program
- International conference on emerging trends in engineering - ICTE 2010
- Industrial training at Reliance infrastructure limited , (DTPS)
- Online course on energy management and climate action
- Online course on biocultural diversity conservation and climate action
- Online course on living with climate change and water management
- Online course on waste management and climate action
- Workshop on instrumentation and control
- Workshop on institution building and staff development
- Workshop on Development of Generic Skills
- International conference on computing methodologies and communication (ICCMC 2019)
- Training on mathematical modeling and analysis using Matlab and Simulink
- Workshop on Computational Modelling using ANSYS Fluent
- Faculty development program on "Role of OBE in Teaching and Learning "

Publications

Sr no	Title of paper	Level	Seminar / conference / journal organized by	Place / Duration
1	Automated steam bath system for clinical applications	International conference	International conference at PIET, Pune	19-12-2004 to 21-12-2004
2	Matlab based linear control system analysis	national conference	National conference at Annasaheb Dange college of engineering, Asta	15-01-2010 to 16-01-2010
3	matlab based linear control system analysis	International conference	J J Magdum college of engineering Jaysingpur	20-02-2010 to 21-02-2010
4	Matlab based linear control system in time domain	National	PVPIT, Budhgaon	18-02-2013 to 19-02-2013

5	A survey on optimal tuning pi controller or integrator delay time process	International Journal	International Journal [IJIRCCE]	Vol 4, December - 2016
6	Design of PID controller integrator system with time delay and DIP	International journal	International Journal [IJIRCCE]	Vol 4, December - 2016
7	Implementation of PID using STAS well process with effective interfacing	International journal	International Journal [IJIRCE]	Vol 7, March - 2019
8	SMC action with pi sliding for non linear plant	IEEE conference	ieee conference organized by Surya Engg. college, Tamil Nadu	27-03-2019 to 29-03-2019
9	Implementations of SMC for non linear plant	International Journal	International journal	Vol 4, December - 2016
10	Controller tuning for integrator plus delay processes	International Journal	International Journal of Engineering and Science (IJES)	Vol 6, June 2017
11	Vision Based Drowsiness Detector for Real Driving COnditions	International Journal	international Journal of Multidisciplinary Research in Science, Engineering, Technology & Management (IJMRSETM)	Volume 11, April-2024
12	Healthcare Card :- Disease Prediction: Exercise Recommendation: Medicine Recommendation Using Neural Network	International Journal	International Journal of Innovation Research in Computer and Communication Engineering	Volume 12, April 2024
13	Implementation Paper Brain Tumor Detection Using Convolutional Neural Networks in MRI Images	International Journal	International Journal of Multidisciplinary Research in Science, Engineering, Technology & Management (IJMRSETM)	Volume 11, April 2024

14	Speed Control of DC Motor Using Artificial Bee Colony Optimization technique	International Journal	International Journal of Advanced Research in Electrical, Electronics, and Instrumentation Engineering (IJAREEIE)	Volume 10, May 2021
15	Robust Predictive Speed Regulation of Converter- Driven DC Motors via a Discrete- TIme Reduced-Order GPIO with Genetic Algorithm	International Journal	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering	Volume 10, May 2021
16	Predictor Based Disturbance Rejection Control FOr Sampled System with Input Delay	International Journal	International Journal For Research & Development in Technology	Volume 15, June 2021
17	Paper Classification of Dental Images using Teeth Instance Segmentation for Dental Treatment	International Conference	Recent Advances in Materials, Manufacturing and Machine learning (RAMMML-2022)	April 2022
18	Frequency Domain Based Tuning of PID Controller For Higher-Order Oscillatory System With Improved Performance	International Journal	International Journal of Research And Analytical Reviews (IJRAR)	Vol 7, July 2020
19	Implementation of SMC Control Action with Pi Sliding Surface for Non Linear Plant Along with Changing Set Point	International Journal	International Journal of Innovative Technology and Exploring Engineering	Volume 8, June 2019

20	Advanced genetic algorithm-based PID controller for air levitation system	International Journal	International Journal Modelling, Identification and Control	Volume 41, 2022

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