

1. Name of the Faculty: Dr. Amar Appasaheb Dum

2. Designation: Assistant Professor

3. Highest Qualification: Ph.D. (Electronics Engineering)



4. Educational Qualifications:

Sr. No	Examination Passed	Subject with specialization	Class obtained	Name & Address of the University awarding Certificate / Degree
1.	UG	B.E. (Electronics and Telecommunication)	Frist Class	Shivaji University, Kolhapur
2.	PG	M.Tech. (Electronics Technology)	First Class with Distinction	Shivaji University, Kolhapur
3	Ph.D.	Electronics Engineering	--	Shivaji University, Kolhapur
4.	Other	Diploma (Industrial Electronics)	First class	MSBTE

5. Teaching Experience:

Designation	From	To	Name & Address of the Institution
Assistant Professor	29/09/2010	Till date	Department of Technology, Shivaji University, Kolhapur
Lecturer	05/07/2008	30/06/2010	Dr. D Y Patil college of Engineering and Technology, kolhapur
Lecturer	20/07/2007	30/05/2008	DKTEs Textile and Engineering Institute, Ichalkaranji

6. Details of Funding received:

S. No.	Title of Project	Funding agency	Duration (Year)	Cost In INR
1	Sound Source Localizing Robot	Research Strengthening scheme (RSS) , Shivaji University, Kolhapur	2019-20 to 2021-22	75,000/-
2	2 Days Workshop on 'IPR and Patent Filing'	LEAD College, SUK	2022	52000/-
3	2 Days Workshop on 'Advance Java Programming'	LEAD College, SUK	2024	32000/-

7. Areas of consultancy and income generated:

Sr. No.	Work Details	Agency	Academic Year	Cost in INR
1	Solar on and off grid system and Water Purification Plant 3 rd party inspection	Zilha Parishad, Kolhapur and Gram Panchayat	2020-2026	2,10,000/-

8. No. of M.E./M.Tech. students guided: 05

9. Publications:

A) Research papers published:

	International Journals	National Journals	University. State level Journals	Conference/ Seminar proceeding etc.	Total
Published	14			8	22

ii) List of publications

S. No.	Name of Author/s	Year	Title of the Paper	Name of Journal / Conference
1	Mr. Amar A Dum	2009	Energy Efficient Processor Architecture for Compute Intensive Embedded System.	National Conference on Information Science, Manipal
2	Mr. Amar A Dum	2009	An Extensions and Stability Issues of OSPF Protocol for IPv6.	National Conference on Information Science, Manipal
3	Mr. Amar A Dum	February 2009	FPGA Based Efficient Implementation of PID Control Algorithm.	National Conference on Emerging Trends in Communication, Chandigrah
4	Mr. Amar A Dum	February, 2010	Design of PID-Fuzzy Logic controller for higher order nonlinear system	International Conference on Emerging Trends in Electronics, Jaysinghpur
5	Mr. Amar A Dum Mr. Md. S Alam	February 2010	Multi-Path Dynamic Algorithm for SPT Calculation and its performance evaluation.	International conference on emerging trends in electronics, Jaysinghpur
6	Mr. Amar A Dum	March 2010	Implementation of PID Fuzzy Logic Controller on FPGA for Process Control.	National Level Symposium, Rajendra Mane College of Engineering and Technology

7	Mr. Amar A Dum Mr. P C Bhaskar	March 2010	Design and Implementation of Fuzzy based PID Controller in FPGA.	National Level Symposium, Shadan College of Engineering and Technology, Hydrabad
8	Mr Amar A Dum Mr Aditya JAdhav	August 2015	Improved Fuzzy C-means algorithm With Local Information And Trade-Off Weighted Fuzzy Factor for Image Segmentation	International Research Journal of Engineering and Technology
9	Mr Amar A Dum Mr Rajesh Savatekar	March 2016	Implementation of Articulated Robot for Object Dimension Measurement	International Journal of Current Trends in Engineering & Research
10	Mr Amar A Dum Mr Rajesh Savatekar	March 2016	Design of control system for articulation robot using LEAP motion sensor.	International Research Journal of Engineering and Technology
11	Mr. Amar A Dum Mr. Sahil Mujawar	Jan 2017	Overview of various digital watermarking methodes	International journal of scientific research and development
12	Mr. Amar A Dum Mr. Sahil Mujawar	May 2017	Watermarking method based on dct intended for high embedding capacity	International Journal of Latest Trends in Engineering & Research
13	Mr A A Dum Ms. Sonali S. Mengane	Nov 2018	Object Tracking and Significance of Color Features: A Review	International Journal for Research in Applied Science & Engineering Technology
14	Mr A A Dum Ms. Sonali S. Mengane	April 2019	Improved Object Tracking Technique using Hybrid Approach	3rd IEEE International Conference on Trends in Electronics and Information at SCAD College of Engineering and Technology, Cheranmahadevi, Tirunelveli, India
15	Dr. D. M. Nangare Mr A A Dum	Feb 2024	Comparison of energy consumption in pervaporation with molecular sieve processes for Ethanol water azeotrope separation	Indian Journal of Science and Technology

16	Mansi R. Patil , Shivani P. Salavi , Sneha S. Bhise , Amar A. Dum	March 2023	A Development of Web Based Placement Management System	Journal of Science & Technology Shivaji University, Kolhapur (issue 2018, pp-80-89)
17	Mr A A Dum Dr. K V Kullhali	Sept 2023	An Effective diagnosis of Alzheimer's Disease using Multimodal Image data Fusion	13th India- Japan Science and Technology Conclave: International Conference on Frontier Areas of Science and Technology (ICFAST-2023)
18	AA Dum, KV Kulhalli, P Singh	2026	Alzheimer's detection using discrete wavelet transform based image fusion and vision information transformer	Frontiers in Signal Processing
19	A A Dum, KV Kulhalli	2026	A Performance Comparison of Conventional and Adaptive Multi-modal Fusion Frameworks for Alzheimer's Disease Classification	International Conference on Sustainable Innovation with Artificial Intelligence
20	AA Dum, KV Kulhalli, P Singh	2025	Alzheimer's Disease Dementia Detection Using Transfer Learning Based Convolutional Neural Network Model	International Journal Bioautomation

10. Invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies

Sr. No.	Name of the Workshop	Duration	Organization
1	Short Term Course on Scilab and MATLAB	26/06/2018 to 30/06/2018	Department of Mathematics, Shivaji University, Kolhapur
2	Value Added program on 'Computational Mathematics with Scilab and MATLAB'	17/12/2019 to 21/12/2019	Department of Mathematics, Shivaji University, Kolhapur
3	Invited talk on 'Sensors for Data acquisition in AI Systems'	17/03/2026	Center of Excellence in AI for Sustainable Development, Department of Statistics, Shivaji University Kolhapur

11. Participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies

Name of the Course/ Summer School	Place	Duration	Sponsoring Agency
Introduction to Research Methodology	Shivaji University Kolhapur	25 June to 4 July 2012	MHRD Government of India / IIT Bombay
Writing Effective conference paper	Kolhapur Institute of Technology, Kolhapur	18-19 Feb. 2012	MHRD Government of India / IIT Bombay
Analog Electronics	DKTE Ichalkaranji	4 June to 14 June 2013	MHRD Government of India / IIT Khargpur
Lecture Series on Biomedical Imaging	Dr. Daulatrao Aher College of Engineering Karad	5 th oct and 3 rd Nov 2012	
Computer Programming	DOT, SUK	Two week	IIT Bombay, MHRD Gov. of India
Robotics and Embedded System	DOT, SUK	One week	Capmus Component Pvt. Ltd.
Digital Controls and Applications	DOT, SUK	one week 13-17 Dec 2014	IIT Bombay
Computational Techniques for Solving Engineering problems	DOT, SUK	One week 18-22 Feb 2015	IIT Bombay
Control Systems	DOT, SUK	Two weeks 2-12 Dec 2014	IIT Bombay
Technology Enabled Teaching and Learning	IIM Kozhikode	One week 19-23 Aug. 2014	IIM Kozhikode
Soft Skill Development program	Infosys Mysore	Two Weeks 22 nd – 30 th Aug 2016.	Infosys Systems
Orientation Program	DOT,SUK	Four Weeks 2 nd to 29 th Dec 2016	TEQIP-II
Android Developer Fundamentals	Compute Department, SUK	One week 4 th to 8 th july 2017.	Google
Computer Vision Applications with open CV	Bharati Vidyapeets COE, Kolhapur	One week 12 th to 16 th December 2017.	ISTE, Mumbai
Machine Learning	Online MOOC	8 weeks (Aug-Oct 2018)	IIT, Madras

Deep Learning	Online MOOC	12 weeks (July-Oct 2018)	IIT, Bombay
Basic Programming Skills using MATLAB and PYTHON	NIT, Shrinagar	One week 27 th to 31 st May 2019.	TEQIP-3
Digital Signal Processing Algorithms : Optimization and Implementations	DKTE Ichalkaranji	One week 2 nd to 7 th Dec 2019.	AICTE
Signal, Image & Video Processing: A Practical Approach	College of Engineering, Karad	One week 26 th to 30 st May 2020.	TEQIP-III
Advanced Concepts for Developing MOOCS	Ramanujan College University Of Delhi, Delhi.	Two Week 2nd July to 17th July, 2020	TEQIP-III
Artificial Intelligence and Machine Learning	DKTE Ichalkaranji	One week 19th to 24st Dec 2020.	AICTE
Research Methodology, Research Publication and Patent Filing	SIT, Yadrav	One week 20th to 24st Sept 2021.	IEEE Bombay section
Artificial Intelligence Applications in Medical Diagnosis	B.S Abdur Rahman Crescent Institute of Science and Technology	One week 04th to 08st Oct 2021.	AICTE Training and Learning (ATAL) Academy
Role of Artificial Intelligence for computer vision and medical applications	NIT warangal	4 to 12 March 2024	Electronics and ICT academy
Art of keeping students engaged: gaining Mastery	MIT-ADE University, Pune	22 to 27 April 2024	Research Culture Society ISRA

12. Patent:

- Design Patent on 'IOT-BASED PORTABLE GLUCOSE MONITORING PEN'
- Design Patent on 'OIL SEPARATOR FOR FOOD PREPARATION'

13. Responsibilities

- 'Training and Placement officer' for Electronics and Telecommunication Engineering.
- Established 'E-Yantra' Robotic Research lab Sponsored by IIT Bombay.
- Former Co-ordinator for 'Start-up Cell' for Department of Technology, SUK.
- Former Co-ordinator for Pradhan Mantri Kaushlya Vikas Yojana (PMKVY), Sponsored by MHRD.