



Department of Mechanical Engineering

Faculty Profile

Prof. Sandip Kondaji Bidgar

PhD Pursuing (Mechanical Engineering),

ME (Mechanical Engineering), BE (Production Engineering)

Assistant Professor

✉ skbidgar@aisssmscoe.com

☎ (020) 26058587



Research Areas / Areas of Interest

Cryogenic Machining, Non Conventional Machining

Personal Details

Date of Birth : 29 / 05 / 1981

Domicile: Maharashtra

Gender : Male

Blood Group: AB⁺

Contact Details: D101, Shrinivas Greenland County, S.No.42, Manaji Nagar, Near Jadhavar College, Narhe, Pune – 411041.

Academic Background

S. NO.	Qualification	Specialization	University	Class/ Grade	Year of Passing
1	Ph.D.	Mechanical Engineering	COEP Pune	Pursuing	-
2	M.E.	Mechanical Engineering - Automotive Technology	Pune	I st	Nov 2013
3	B.E.	Production Engineering	COEP Pune	I st	May 2005

Work Experience		Experience	Years	Months
1		Teaching	17	00
2		Industry	3	00
Total			20	00

Subjects/Courses Taught

S. No.	Subject	UG/PG	Class (FE/SE/TE/BE/ME)	No of times Subject Taught
1	Machining Science & Technology	UG	TE (Mechanical)	01
2	Project	UG	BE (Mechanical)	01
3	Industrial Inplant Training	UG	BE (Mechanical SW)	01
4	Technical Paper Presentation	UG	BE (Mechanical SW)	01
5	Project	UG	BE (Mechanical SW)	01
6	Manufacturing Process – II	UG	SE (Production SW)	05
7	Material Science & Metallurgy	UG	SE (Production SW)	05
8	Material Science	UG	SE (Production SW)	10
9	Manufacturing Engineering & Metrology Practicess	UG	SE (Production SW)	10
10	Workshop Practicess II	UG	SE (Mechanical)	10
11	Workshop Practicess I	UG	FE	10
12	Industrial Inplant Training	UG	TE (Production SW)	15
13	Seminar	UG	TE (Production SW)	15
14	Industrial Inplant	UG	BE (Production SW)	15

	Training			
15	Technical Paper Presentation	UG	BE (Production SW)	15
16	Project	UG	BE (Production SW)	15

Research Publications

	National	International	State	SCI/ Scopus Indexed	UGC Approved
Journals	--	04	--	--	01
Conferences	--	04	--	02	--

Publication Details (Journals)

S. No	Document Details	Authors	Year	Source Details	ISBN/ ISSN	Publisher
01	"Soft Robotics- An Analysis on Trends and Technologies"	Mitesha Dange, Sandip K. Bidgar	2025	INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY, Volume 12 Issue 1, June 2025	ISSN: 2349-6002	IJIRT
02	"Design & Development of Viscous Fluid Mixing Nozzle of Dispensing Machine for Automotive Applications"	Sandip K. Bidgar, Prof. V Kumar, Prof. S. V. Chaitanya	2014	International Journal of Engineering Research & Technology	ISSN: 2278-0181	IJERT
03	"Design &	Sandip K.	2014	International	ISSN: 2278-	IJERT

	Development of Viscous Fluid Tank of Dispensing Machine for Automotive Applications”	Bidgar, Prof. V Kumar, Prof. S. V. Chaitanya		Journal of Engineering Research & Technology	0181	
04	“Laser Scribing of High Performance and Flexible Graphene Based Electrochemical Capacitor”	Mohan L Chanpur, Shriram Sathe and Sandip K Bidgar	2013	International Journal of Current Engineering and Technology	ISSN 2277 - 4106	INPRESSCO

Publication Details (Conferences)

S. No	Document Details	Authors	Year	Conference Details	ISBN	Organised by
01	A Review on Machinability of Difficult to Machine (DTM) Materials using Cryogenically Treated Cutting Tool Inserts	Sandip K. Bidgar, Dr B U Sonawane & Dr B D Bachchhav	2025	2nd National Conference on Recent Advancements in Manufacturing Technology & Management RAMTM–II 2025 16 - 17th January, 2025	978-81-986567-9-7	Department of Production Engineering, Jadavpur University
02	Online Assessment of Set Pressure of	Abhishekh Mohite & Sandip Kondaji	2020	Future Intelligence in Science and	ISSN: 0193-4120 Page	Sinhgad Institute of Technology

	Safety Valves	Bidgar		Technology	No. 25548– 25552	and Science, Pune
03	Adsorption Refrigeration: Recent Developments in Efficient and Innovative Refrigeration	N.T.Dhokane, S.K.Bidgar & A.M.Patil	2012	Advances In Mechanical Engineering	--	Department of Mechanical Engg. Amrutvahini COE Sangamner
04	Development of Material Strategy: A Case Study	S.H.Wankhade, S.K.Bidgar & M.L.Chanpur	2012	Advances In Mechanical Engineering	--	Department of Mechanical Engg. Amrutvahini COE Sangamner

PhD / ME / BE Student Guided for Project

Level	Ph.D.	M.E. (PG)	B.E. (UG)
No. of Student guided	-	-	60

Professional Memberships

Professional Body	Level (National/ International)	Type (Fellow/Life/Annual)	Membership No.
Institute of Engineers (India) (IE)	National	Life Member	M-1592232
Institute of Engineers	National	Chartered Engineer	M-1592232

(India) (IE)			
The Indian Society for Technical Education (ISTE)	National	Life Member	LM-132947
Solar Energy Society of India (SESI)	National	Life Member	LM/2580/2021
The Robotics Society (RSI)	National	Life Member	LM/R232759
International Association of Engineers (IAENG)	International	Life Member	LM/ 346030

Patents/IPR Filed/Granted

S. No	Investigator Details	Title	Year	Status (Filed/Granted)	Details
01	Sandip K Bidgar	Hybrid Technology for facilitating parking for vehicles in congested area	2022	Filed	-

Books Published

S. No	Title	Name of the Publisher	ISBN/ISSN Number
-	-	-	-

Research Grants Received

S. No	Program	Duration	Funding Agency	Grant Amount
01	Development of	02 Years	ASPIRE 2020	3 Lakh

	Cryogenic Treatment Setup & Testing for Enhancing and Measurement of Tool Life.		SPPU Pune	
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Details of Workshop/STTP/FDP/Seminar / Conferences Organized

S. No	Title	Type	Duration	Level (State/National/ International)	Sponsoring Agency
01	Non Destructive Testing and its application in Aerospace	Seminar	25 Feb 2019	State	ASM International Pune Chapter
02	Recent Trends in New Product Development	Seminar	08-09 March 2018	State	Savitribai Phule Pune University Pune
03	Mechatronics – An industrial Application Approach	Seminar	03-04 March 2017	State	Savitribai Phule Pune University Pune
04	Zero Defect - Quality improvement in Industries	Seminar	03-04 March 2016	State	Savitribai Phule Pune University Pune

Contribution as Resource Person

S. No.	Place/ Organization	Topic	Level(National/Int/ State/Regional)	Date
01	Modern Education Societys COE Pune	VLab Outreach Workshop	Regional	12-08-2020
02	Parikrama GOI COE Kashti	VLab Outreach Workshop	Regional	18-08-2020

Details of Workshop/STTP/FDP/Conferences Attended

S.N	Title	Type	Duration	Organizer	Sponsoring Agency
1	One Week Faculty Development Program (FDP) (Online) On "Empowering Educators as Authors & Content Creators"	FDP	01 (23rd to 28th June 2025)	PCCOE, Department of Computer Engineering (Regional Language), Akurdi, Pune - 412101	PCCOE, Department of Computer Engineering (Regional Language), Akurdi, Pune - 412101
2	One Week International Faculty Development Program (FDP) (Online) On "Advanced Materials for Defence and Aerospace Applications"	FDP	01 (27th Jan to 01th Feb 2025)	Department of Mechanical Engineering, Ballari Institute of Technology & Management, Karnataka	Department of Mechanical Engineering, Ballari Institute of Technology & Management, Karnataka
3	21st Century Materials: Advancements in Material Science and Technology	FDP	09/12/2024 to 14/12/2024	AICTE Training And Learning (ATAL) Bureau & MKSSS'S CUMMINS COE For Women, Nagpur	AICTE Training And Learning (ATAL) Bureau
4	National Level 5-Days Workshop (Online) on "Application Of Multi Criteria Decision Making Methods"	FDP	02/04/2024 to 06/04/2024	Department of Mechanical Engineering PCCOER, Ravet, Pune - 412101	Department of Mechanical Engineering PCCOER, Ravet, Pune - 412101
5	Recent Advancement in Material, Micro-Manufacturing and Characterization (RAMMC-23)	FDP	13/03/2023 to 17/03/2023	ISTE & Dr. D. Y. Patil Institute of Technology, Pimpri, Pune	ISTE & Dr. D. Y. Patil Institute of Technology, Pimpri, Pune
6	LaTeX and Desktop Publishing	FDP	22/08/2022 to 26/08/2022	NITTTR Chennai	NITTTR Chennai
7	E-Learning Authoring Tools	FDP	17/10/2022 to 21/10/2022	NITTTR Chennai	NITTTR Chennai
8	Completed ISTE Sponsored One Week International FDP on	FDP	21 /02/2022 to 25/02/2022	ISTE & IQAC Cell, DYPCOE, Akurdi, Pune	ISTE & IQAC Cell, DYPCOE Akurdi, Pune

	"Industry 4.0 with Emphasis on Robotics and Automation"				
9	Completed Three Day Workshop on "Advanced Materials Characterisation Techniques"	Workshop	01 /03/2022 to 03/03/2022	Department of Mechanical Engineering, ANNAI VAILANKANNI COE, Pottalkulam, Kanyakumari.	Department of Mechanical Engineering, ANNAI VAILANKANNI COE, Pottalkulam, Kanyakumari.
10	Completed ISTE approved one week FDP on "Augmented Reality and Virtual Reality"	FDP	21 /06/2021 to 25/06/2021	AISSMS College of Engineering, Pune	AISSMS College of Engineering, Pune
11	Completed AICTE Quality Improvement Scheme (AQIS) Sponsored one week online Short Term Training Program On "Innovative & Inventive Problem Solving"	STTP	22 /06/2021 to 27/06/2021	Department of Production Engineering, AISSMS COE, Pune	Department of Production Engineering, AISSMS COE, Pune
12	Attended one week online FDP on "Foundations of Data Science"	FDP	26 /07/2021 to 30/07/2021	MIT Academy of Engineering, Alandi	MIT Academy of Engineering, Alandi
13	National Level Workshop on "Recent Trends in Mechatronics and Automation"	Workshop	24 /09/2021 to 25/09/2021	Karmaveer Adv. Baburao Ganpatrao Thakare COE, Nashik	Karmaveer Adv. Baburao Ganpatrao Thakare COE, Nashik
14	Completed the AICTE-ISTE approved One Week FDP on "Electric Mobility as a Future"	FDP	25/10/2021 to 29/10/2021	Dr. D.Y.Patil IOEM&R Akurdi Pune in association with SAE India	Dr. D.Y.Patil IOEM&R Akurdi Pune in association with SAE India
15	Participated in Five	FDP	22/11/2021	Department of	Department of

	Days FDP on "Software Based Case Studies for Development Of Multidisciplinary Projects"		to 26/11/2021	Computer Engineering, AISSMS COE, Pune	Computer Engineering, AISSMS COE, Pune
16	Completed the AICTE-ISTE approved Orientation/ Refresher Programme on "Nanotechnology Application in Mechanical Engineering"	Oriental Refresher Programme	10/12/2021 to 16/12/2021	Muffakham Jah COE&T, Hyderabad	Muffakham Jah COE&T, Hyderabad
17	One week Online FDP on "Internet of Things for Futuristic Smart System"	FDP	17 /05/2021 to 21/05/2021	Department of Electronics and Telecommunication, Bharati Vidyapeeth (Deemed to be University) College of Engineering Pune	Bharati Vidyapeeth (Deemed to be University) Pune
18	AICTE-ISTE Sponsored One Week Induction / Refresher programme on "Role of ICT in Teaching-Learning Process"	FDP	05 /05/2021 to 11/05/2021	Department of Information Technology, Sanjivani College of Engineering, Kopergaon, Maharashtra	AICTE-ISTE
19	Online Training Program on "Geometric Dimensioning and Tolerancing"	FDP	23/02/2021 to 26/02/2021	Department of Mechanical Engineering AISSMS College of Engineering, Pune & CAD Infield Technologies, Pune	CAD Infield Technologie, Pune
20	AICTE Training And Learning (ATAL) Academy Online FDP on "Electric Vehicles"	FDP	05/10/2020 to 09/10/2020	All India Shri Shivaji Memorial Society's College of Engineering Pune	ATAL AICTE FDP
21	AICTE Training And Learning (ATAL) Academy Online FDP on "3D Printing & Design"	FDP	14/09/2020 to 18/09/2020	Bharati Vidyapeeth College of Engineering Mumbai	ATAL AICTE FDP
22	One week online Short Term Training Programme on	STTP	02/09/2020 to 06/09/2020	Government College of Engineering, Aurangabad,	AICTE (TEQIP-III)

	"Linear Algebra and Statistics for Engineers And Scientists (LA & SES-2020)"			under Technical Education Quality Improvement Programme (TEQIP- III)	
23	Online Short Term Training Programme (STTP) "on Recent trends in cutting tool technology and force measurement using MATLAB"	STTP	24/08/2020 to 29/08/2020	The Department of Mechanical Engineering of D.K.T.E. Society's Textile & Engineering Institute, Ichalkaranji	AICTE
24	AICTE Sponsored Online Short Term Training Programme (STTP) on "Smart Manufacturing – Opportunities & Challenges"	STTP	17/08/2020 to 22/08/2020	Department of Mechanical Engineering, St. Joseph's College of Engineering, Chennai	AICTE
25	Online One week FDP on "Moodle Learning Management System"	FDP	06/07/2020 to 10/07/2020	DYPU in Association with Spoken Tutorial IIT Bombay	IIT Bombay
26	Applications of Finite Element Analysis (FEA) and Computational Dynamics (CFD) using ANSYS	FDP	13/06/2020 to 17/06/2020	Government College of Engineering, Karad & Rajikiya Engineering College, Azamgarh	AICTE (TEQIP-III)
27	One Week Online National Level Faculty Development Program on "G Suite and Allied Tools in Education, Teaching & e-Content Development"	FDP	29/06/2020 to 04/07/2020	P G Department of Computer Science & Engg., Sant Gadge Baba Amravati University, Amravati	Sant Gadge Baba Amravati University, Amravati
28	One Week Online National Level Faculty Development Program on "Futuristic Technologies in Mechanical Industries"	FDP	05/06/2020 to 09/06/2020	Dr. D Y Patil Pratishthan's, Dr. D Y Patil Institute of Engg, Management & Research, Akurdi, Pune	ISTE & IWS
29	One Week Online FDP on "Promoting Quality Culture in	FDP	25/05/2020 to 29/05/2020	AISSMS College of Engineering, Pune	ISTE

	Technical Institutions”				
30	One Week Online FDP on “Technical Teacher’s Training”	FDP	22/05/2020 to 27/05/2020	Shri Vidyavardhini Educational Academy’s Vidyavardhini Institute of Technology, Pal	ISTE
31	One Week Online National Level FDP on” ICT Tools in Education Using MOODLE”	FDP	22/05/2020 to 26/05/2020	PACE Institute of Technology and Sciences, Ongole	PACE Institute of Technology and Sciences
32	Two Weeks Online International Faculty Development Program On “Emerging Trends in Industry 4.0”	FDP	18/05/2020 to 29/05/2020	JSPM’s Rajarshi Shahu College of Engineering, Pune	JSPM’s Rajarshi Shahu College of Engg, Pune
33	One Week Online Faculty Development Program on “Spoken Tutorial Technology”	FDP	18/05/2020 to 22/05/2020	STES’s, SKN COE, Vadgaon, Pune	IIT Bombay
34	One Week Online FDP on “Renewable Energy Sources: A Way Ahead”	FDP	15/05/2020 to 21/05/2020	MKSSS Cummins COE for Women, Nagpur	AICTE
35	One Week Online Faculty Development Program on “Introduction to Forensic Science and Digital & Cyber Forensics”	FDP	15/05/2020 to 19/05/2020	Nagpur Institute of Technology, Nagpur	AICTE
36	One Week Online Faculty Development Program on “Outcome Based Education: A Step Towards Excellence”	FDP	11/05/2020 to 15/05/2020	Government COE, Karad	AICTE
37	One Week Online FDP on “Faculty Awareness Program on NAAC Accreditation”	FDP	10/05/2020 to 15/05/2020	RD’s Shri Chhatrapati Shivajiraje COE, Dhangawadi, Pune	AICTE
38	One Week Online Faculty Development Program entitled “DRUPAL”	FDP	04/05/2020 to 09/05/2020	STES’s, SITS, Narhe, Pune in association with Spoken Tutorial, IIT Bombay	IIT Bombay

39	National Level One Week Online Faculty Development Program on “LaTeX”	FDP	28/04/2020 to 04/05/2020	Production Engg Dept , AISSMS COE, Pune in association with Spoken Tutorial, IIT Bombay	IIT Bombay
40	Manufacturing Process Technology I and II	STTP Online	January – April 2020 (12 Weeks)	IIT Kanpur & NPTEL	AICTE
41	Introduction to Industry 4.0 and Industrial IOT	STTP Online	January – April 2020 (12 Weeks)	IIT Kharagpur & NPTEL	AICTE
42	Fundamentals of Tribology	QIP STTP	07/10/2019 to 11/10/2019	IISc, Bengluru	AICTE
43	Advances in Tribology	STTP	04/11/2019 to 09/11/2019	AISSMS College of Engg, Pune	AICTE
44	Vision-Mission-PEO-PSO-PO-CO: Framing, Mapping, Assessment and Attainment	FDP	10/06/2019 to 15/06/2019	AISSMS College of Engg, Pune	ISTE
45	Manufacturing Process Technology	STTP	January - April 2019 (12 Week Course)	IIT Kanpur	AICTE
46	52nd Orientation Programme	OP	26/11/2018 to 22/12/2018	by JNTU Hyderabad	UGC
47	Analysis of Sheet Metal Forming Processes” conducted by during	QIP STC	07/05/2018 to 11/05/2018	IIT Bombay	AICTE
48	Laboratory and Ergonomics Safety for Engineers	QIP STC	12/06/2017 to 16/06/2017	IIT Bombay	AICTE
49	One Week Industrial Training	IT	30/05/2016 to 05/06/2016	KAKADE LASER, Pune	AISSMS COE PUNE
50	Advances In Micro Manufacturing	FDP	01/06/2015 to 12/06/2015	Department of Mechanical Engineering, College Of Engineering Pune	AICTE
51	Advances In Product Design And Surface Engineering	FDP	18/11/2013 to 22/11/2013	Dept. of Mech. Engg., in association with Indian Institute Of	AICTE

	(APDSE-2013)			Metals, Pune Chapter held at Sinhgad College of Engg.Pune	
52	Automotive Emission And Control Technologies (AECT-2012)	QIP TE QIP-II	08/10/2012 to 12/10/2012	Mech. Engg. Dept., Sinhgad College of Engg., Pune	AICTE

Major Professional Responsibilities Handled

S. No.	Role and Responsibilities
1	Metrology and Quality Control Lab Incharge - Mechanical Department
2	FDP / STTP Organised and Attended Coordinator - - Mechanical Department
3	Member of Central Counseling and Mentoring Cell - Production Department
4	Member of Central Examination Cell - Production Department
5	Exam Coordinator – Production Department
6	CAP Coordinator – Production Department
7	Virtual Lab Coordinator - Production Department
8	Mentor Coordinator – Production Department
9	Tool Engineering Lab Incharge - Production Department
10	Sandwich Placement Coordinator – Production Department
11	Co-ordinator - Technical Paper Presentation in Engineering Today – National Level Technical Symposium for students - Production Department

Awards Received

S. No.	Awards
-	-

Declaration: I hereby declare that all the statement made above are correct to the best of my knowledge and belief.



Sandip Kondaji Bidgar

(Name with Signature)