



Department of Production Engineering

Faculty Profile

Prof. Sandip Kondaji Bidgar

PhD Pursuing (Mechanical Engineering),
ME (Mechanical Engineering), BE (Production Engineering)
Assistant Professor

✉ skbidgar@aiissmscoe.com

☎ (020) 26058587; Extn: 1904



Research Areas / Areas of Interest

Cryogenic Machining, Non Conventional Machining, Hybrid EDM

Personal Details

Date of Birth : 29 / 05 / 1981

Domicile: Maharashtra

Gender : Male

Blood Group: AB+ve

Contact Details: D101, Shrinivas Greenland County, Manaji Nagar, S.No.42, Near
Jadawar School, 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

| S. No. | Type of Experience | Years | Months |
|--------------|--------------------|-----------|-----------|
| 1 | Teaching | 13 | 10 |
| 2 | Industry | 3 | 00 |
| Total | | 16 | 10 |

Subjects/Courses Taught

| S. No. | Subject | UG/PG | Class (FE/SE/TE/BE/ME) | No of times Subject Taught |
|--------|--|-------|------------------------|----------------------------|
| 1 | Manufacturing Process – II | UG | SE (Production SW) | 02 |
| 2 | Material Science & Metallurgy | UG | SE (Production SW) | 02 |
| 3 | Machine Drawing & Computer Graphics Lab | UG | SE (Production SW) | 02 |
| 4 | Material Science | UG | SE (Production SW) | 10 |
| 5 | Manufacturing Engineering & Metrology Practicess | UG | SE (Production SW) | 10 |
| 6 | Workshop Practicess II | UG | SE (Mechanical) | 10 |
| 7 | Workshop Practicess I | UG | FE | 08 |
| 8 | Industrial Inplant Training | UG | TE (Production SW) | 12 |
| 9 | Seminar | UG | TE (Production SW) | 12 |
| 10 | Industrial Inplant Training | UG | BE (Production SW) | 12 |
| 11 | Technical Paper Presentation | UG | BE (Production SW) | 12 |
| 12 | Project | UG | BE (Production SW) | 12 |

Research Publications

| | National | International | State | SCI/ Scopus Indexed | UGC Approved |
|--------------------|----------|---------------|-------|---------------------------|-----------------|
| Journals | -- | 03 | -- | -- | -- |
| Conferences | -- | 03 | -- | 01 | -- |

Publication Details (Journals)

| S. No | Document Details | Authors | Year | Source Details | ISBN/ ISSN | Publisher |
|-------|---|--|------|---|------------------|-----------|
| 01 | “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 |
| 02 | “Design & Development of Viscous Fluid Tank 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 | “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 | Online Assessment of Set Pressure of Safety Valves | Abhishekh Mohite & Sandip Kondaji Bidgar | 2020 | Future Intelligence in Science and Technology | ISSN: 0193-4120 Page No. 25548–25552 | Sinhgad Institute of Technology and Science, Pune |
| 02 | 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 |
| 03 | 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 | - | - | 72 |

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 (India) (IE) | National | Chartered Engineer | M-1592232 |
| The Indian Society for Technical Education (ISTE) | National | Life Member | LM-132947 |
| Solar Energy Society of India (SESI) | National | Life Member | LM/2580/2021 |
| Institute for Engineering Research and Publication (IFERP) | International | Life Member | PM-81326470 |

Patents/IPR Filed/Granted

| S. No | Investigator Details | Title | Year | Status (Filed/Grante d) | 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 Cryogenic Treatment Setup & Testing for Enhancing and Measurement of Tool Life. | 02 Years | ASPIRE 2020 SPPU Pune | 3 Lakh |

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 Worshop/STTP/FDP/Conferences Attended

| S.N | Title | Type | Duration | Organizer | Sponsoring Agency |
|-----|--|----------|---------------------------|--|--|
| 1 | Completed ISTE Sponsored One Week International FDP on "Industry 4.0 with Emphasis on Robotics and Automation" | FDP | 21 /02/2022 to 25/02/2022 | ISTE & IQAC Cell, DYPCOE, Akurdi, Pune | ISTE & IQAC Cell, DYPCOE Akurdi, Pune |
| 2 | 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. |
| 3 | 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 |
| 4 | Completed AICTE Quality Improvement Scheme (AQIS) Sponsored one week online | STTP | 22 /06/2021 to 27/06/2021 | Department of Production Engineering, AISSMS COE, Pune | Department of Production Engineering, AISSMS COE, Pune |

| | | | | | |
|----|--|------------------------------|---------------------------|---|--|
| | Short Term Training Program On "Innovative & Inventive Problem Solving" | | | | |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | Participated in Five Days FDP on "Software Based Case Studies for Development Of Multidisciplinary Projects" | FDP | 22/11/2021 to 26/11/2021 | Department of Computer Engineering, AISSMS COE, Pune | Department of Computer Engineering, AISSMS COE, Pune |
| 9 | 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 |
| 10 | 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 |
| 11 | AICTE-ISTE | FDP | 05 /05/2021 | Department of | AICTE-ISTE |

| | | | | | |
|----|---|------|--------------------------------|---|-------------------------------|
| | Sponsored One Week Induction / Refresher programme on “Role of ICT in Teaching-Learning Process” | | to 11/05/2021 | Information Technology, Sanjivani College of Engineering, Kopergaon, Maharashtra | |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | One week online Short Term Training Programme on “Linear Algebra and Statistics for Engineers And Scientists (LA & SES-2020)” | STTP | 02/09/2020 to 06/09/2020 | Government College of Engineering, Aurangabad, under Technical Education Quality Improvement Programme (TEQIP- III) | AICTE (TEQIP-III) |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

| | | | | | |
|----|---|-----|--------------------------|---|---|
| 19 | 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) |
| 20 | 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 |
| 21 | 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 |
| 22 | One Week Online FDP on "Promoting Quality Culture in Technical Institutions" | FDP | 25/05/2020 to 29/05/2020 | AISSMS College of Engineering, Pune | ISTE |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | One Week Online FDP on "Renewable | FDP | 15/05/2020 to | MKSSS Cummins COE for Women, | AICTE |

| | | | | | |
|----|---|-------------|---------------------------------|---|------------|
| | Energy Sources: A Way Ahead” | | 21/05/2020 | Nagpur | |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | Manufacturing Process Technology I and II | STTP Online | January – April 2020 (12 Weeks) | IIT Kanpur & NPTEL | AICTE |
| 34 | Introduction to Industry 4.0 and Industrial IOT | STTP Online | January – April 2020 (12 Weeks) | IIT Kharagpur & NPTEL | AICTE |
| 35 | Fundamentals of Tribology | QIP STTP | 07/10/2019 to 11/10/2019 | IISc, Bengluru | AICTE |
| 36 | Advances in Tribology | STTP | 04/11/2019 to 09/11/2019 | AISSMS College of Engg, Pune | AICTE |
| 37 | 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 |

| | | | | | |
|----|---|---------------------|---------------------------------------|---|-----------------|
| 38 | Manufacturing Process Technology | STTP | January - April 2019 (12 Week Course) | IIT Kanpur | AICTE |
| 39 | 52nd Orientation Programme | OP | 26/11/2018 to 22/12/2018 | by JNTU Hyderabad | UGC |
| 40 | Analysis of Sheet Metal Forming Processes” conducted by during | QIP STC | 07/05/2018 to 11/05/2018 | IIT Bombay | AICTE |
| 41 | Laboratory and Ergonomics Safety for Engineers | QIP STC | 12/06/2017 to 16/06/2017 | IIT Bombay | AICTE |
| 42 | One Week Industrial Training | IT | 30/05/2016 to 05/06/2016 | KAKADE LASER, Pune | AISSMS COE PUNE |
| 43 | Advances In Micro Manufacturing | FDP | 01/06/2015 to 12/06/2015 | Department of Mechanical Engineering, College Of Engineering Pune | AICTE |
| 44 | Advances In Product Design And Surface Engineering (APDSE-2013) | FDP | 18/11/2013 to 22/11/2013 | Dept. of Mech. Engg., in association with Indian Institute Of Metals, Pune Chapter held at Sinhgad College of Engg.Pune | AICTE |
| 45 | 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 | Member of Central Counseling and Mentoring Cell |
| 2 | Member of Central Examination Cell |
| 3 | Exam Coordinator – Production Department |
| 4 | CAP Coordinator – Production Department |
| 5 | Virtual Lab Coordinator - Production Department |
| 6 | Mentor Coordinator – Production Department |
| 7 | Tool Engineering Lab Incharge |
| 8 | Sandwich Placement Coordinator – Production Department |
| 9 | Co-ordinator - Technical Paper Presentation in Engineering Today – National Level Technical Symposium for students |

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)