

Sandeep B. Pankade

Nee Sandeep S. Patil (Gazette for Name change: Reg. No. X-17075 Date : 7-13Aug2014)

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Academic background

1. **B. E.** (Production Engineering),
Marathwada University (Now known as Dr. Babasaheb Ambedkar Marathwada University), Aurangabad, 1993.
2. **M. Tech.** (Production Engineering- Tool Design and Manufacturing),
Tool Room and Training Center (Now known as Delhi Institute of Tool Engineering), New Delhi, 1999.
3. **Ph. D** (Mechanical Engineering): Pursuing
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Professional Experience (Total 27 Years: 5 years Industrial and 22 years academic)

1. Maharashtra Institute of Technology, Aurangabad:
 - a. *Training and Placement Officer*: **Aug 2020 to till date**
 - b. *Associate Professor*, Department of Mechanical Engineering: **Aug 2020 to till date.**
2. G S Mandal's Marathwada Institute of Technology, Aurangabad:
 - a. *Associate Professor*, Department of Mechanical Engineering: **July 2018 to July 2020.**
 - b. *Training and Placement Officer*, MIT Aurangabad & Associate Professor, Department of Mechanical Engineering: **Jan 2015 to June 2018.**

- c. *Associate Professor*, Department of Mechanical Engineering: **Jan 2011 to Dec 2014.**
- d. *Assistant Professor*, Department of Mechanical Engineering: **May 2010 to Dec 2010.**
3. Indo-German Tool Room (MSME Tool Room), Aurangabad, *Senior Engineer (Training)*, **February 2007 to April 2010.**
4. Auroras Engineering College, Bhuvanagiri, Dist. Nalgonda (AP), *Assistant Professor*, Department of Mechanical Engineering: **April 2004 to February 2007.**
5. MGM's Jawaharlal Nehru Engineering College, Aurangabad, *Lecturer*, Department of Production Engineering: **February 1995 to April 2004.**
6. Videocon Appliances Limited, Chitegaon, Aurangabad, *Engineer*, **Aug 1993 to Feb 1995**
7. Pembril Engineering Ltd., Aurangabad, *Trainee*, **May 1992 to July 1992.**

Professional Certification

1. Certificate course in FEA using MOLDFLOW. From M/S. Central Institute of Plastic Engineering and Technology (CIPET), Hyderabad. (April 2006- June 2006).
2. Certified Six Sigma White belt: Council for six Sigma Certification, New York USA. Certification Number : qLntKieUPN, From May 2018.
3. Certified Lean Six Sigma White belt: Council for six Sigma Certification, New York USA. Certification Number: zZHXqVYr5Q, From May2018.
4. Certified Six Sigma Yellow belt: International Six Sigma Institute, Zurich Switzerland. Certification Number: 16758637430611, From April 2018.

5. Certified [Six Sigma Green belt](#): International Six Sigma Institute, Zurich Switzerland. Certification Number: 52973901777528, From April 2018.
6. NPTEL Certification: [Product Design and Development](#) (IIT Roorkee) secured 82%. April 2019.
7. NPTEL Certification: [Design Thinking-A Primer](#) (IIT Madras) secured 79%. May 2019.
8. [Certificate Course in HR Development & Training](#) , Symbiosis Center for Distance Learning, Pune . March, 2019 to Oct, 2019.
9. NPTEL Certification: [Accreditation and outcome based learning](#) (IIT Kharagpur) secured 87%. Nov 2019.
10. [Life Coach Practitioner Diploma](#), The Academy of Modern Applied, USA Oct, 2020.
11. ["Certified Kaizen Lean Manager"](#) Asian Institute of Quality Management, Pune. Accredited by ASCB-USA.
12. ["Become an L&D Professional"](#), Certificate of Completion, LinkedIn, Sept. 2020

Achievements

1. [Fourth Rank](#) in Marathwada University, Aurangabad in BE Production engineering Examination - July 1993.
2. Recognized with [first prize for best presentation](#) at HyperWorks Technology Conference (HTC) - August 2011, Pune.

Research Interest

1. Computer Aided Tool Engineering
2. Finite Element Analysis of Metal Forming
3. Sheet Metal Forming Processes
4. Friction Stir Welding
5. Additive Manufacturing
6. Injection Moulding

Courses offered

In my 22 years stint at various institutes, I have taught undergraduate and post graduate students the following subjects:

- Total Quality Management
- Modern Management Systems
- Engineering Metallurgy
- Machine Drawing
- Engineering Drawing / Graphics
- Automatic Control Systems
- Tool Engineering
- Project Management and Operations Research
- Product Design Engineering
- Material Science and Metallurgy
- Advanced Joining Processes
- CAD/CAM
- Design of Injection Mould, Press Tools and Die casting Design

Invited Talk / Guest Speaker

1. [CAE using Mold-Flow](#), For design professionals, CIPET Aurangabad, 22nd October 2010.
2. [Computer Aided tool engineering - Cases](#), For third year Mechanical Engineering students, DIEMS, Aurangabad, 25th Feb. 2015.
3. [Computer Aided press tool design](#), For third year Mechanical Engineering students, DIEMS, Aurangabad, 20th April 2016.

4. [*Creativity, problem solving and life skills*](#), For third year Mechanical Engineering students, DIEMS, Aurangabad, 08th October 2016.
5. [*Advanced Teaching Techniques and soft skills for teachers*](#). (Faculty Development Program), Shreyesh College of Engineering & Technology, Aurangabad, 04th January 2017.
6. [*Manufacturing Excellence through Industry 4.0*](#) (Faculty Development Program), DIEMS, Aurangabad, 02nd May 2017.
7. [*Additive Manufacturing Processes*](#) (Faculty Development Program), DIEMS, Aurangabad, 04th May 2017.
8. [*Recent trends in Tool engineering*](#) (Students Development Program), Peoples Education Society's, PES College of Engineering & Technology, Aurangabad, 20th February 2018.
9. [*Recent trends in Tool engineering*](#) (Students Development Program), MSS College of Engineering & Technology, Jalan, 22nd March 2018.
10. [*Friction stir welding latest trend and challenges*](#), STTP on Advances in Materials and Manufacturing Technology (AMMT 2019) organized at MIT Aurangabad in association with Dr Babasaheb Ambedkar Technological University, Lonere, 06th March 2019.

Workshop/ STTP/ Conference/ Event organized

1. [Two days' workshop on Advances in Heat and cryogenic treatment \(AHCT-2012\)](#), July 7th - 8th, 2012. Organized by MIT Aurangabad and IIM Pune chapter. Role: Organizing Secretary
2. [Reliable Welds \(RW-2013\)](#), July 5th, 6th, and 7th 2013, organized by MIT Aurangabad in association with IIM Pune chapter. Role: Coordinator, RW 2013).
3. [International Conference on Materials, Manufacturing and Design \(ICMMD 2017\)](#), at MIT Aurangabad. Dec 2017, Role: Coordinator
4. One-week STTP on "[Advances in Materials and Manufacturing Technology](#)" (AMMT 2019), organized at **MIT Aurangabad in association with Dr. Babasaheb Ambedkar Technological University, Lonere**, 1st to 6th March 2019. Role: Programme Coordinator.

Professional Training Imparted

1. Course on "[Geometrical Dimensioning and Tolerancing \(GD&T\)](#)" for Design professionals at M/s Butler International, Hyderabad, reputed MNC as part of Consultancy project of Aurora's Engineering College, Bhongir. 16th - 20th March 2006.
2. Course on "[Solid Modeling using Pro-Engineer](#)" Five Days Adjunct Course on for Engineering Students during Summer Vacation at Aurora's Engineering College, Bhongir (AEC), Bhongir. 12th to 16th November, 2006.
3. Course on "[Computer aided injection Mould Design and manufacturing using Pro-E](#)", for tooling Professionals from Srilanka at IGTR- MSME Tool Room, Aurangabad- Aug 2007 and January 2008.

6. **Umesh Ghodwale:** 2015-16 M E Manufacturing
Dissertation Topic: Comparative study of TIG welding and Solid state welding of AA7075 aluminium alloy plates.
7. **Apurva Kulkarni:** 2016-17 M E Automation
Dissertation Topic: Design and Development of low cost automated pesticide liquid filling machine.
8. **Bhardwaj Kulkarni:** 2017-18 M E Manufacturing
Dissertation Topic: Effect of backing plate on corrosion and mechanical properties of friction stir welded AA 6061 joints.

Publications: Book Chapter

1. Sandeep P. and Sankpal J., *Process improvement Via Rapid Prototyping in investment casting*, **Investment Casting**, Allied Publishers Pvt. Ltd, 2004 pp. 143 - 149.
<https://tinyurl.com/y9vqxofq>
2. Sankpal J. B., Sandeep P. and Ramdasi P., *Process improvement Via Rapid Prototyping in investment casting*, **Investment Casting**, Allied Publishers Pvt. Ltd, 2004 pp. 88 - 94 <https://tinyurl.com/yag99ezn>
3. Sandeep P., Choudhari U. M. and Reddy A. C., *Design of Injection Mould for Plastics Computer Integrated approach*, **Product Design and Manufacturing: A Product Life Cycle Approach**, New Age International (p) Ltd. 2014
4. Pankade S. B., Ambad P. M., Wahane R. and Gogte C. L., *Effect of the Post-weld Heat Treatments on Mechanical and Corrosion Properties of Friction Stir-Welded AA 7075-T6 Aluminium Alloy*, **Strengthening and Joining by Plastic Deformation**, Chapter 4, Springer Nature-Springer, Singapore (2019) Pp 79-94.
https://link.springer.com/chapter/10.1007/978-981-13-0378-4_4

Publications: International Journal

1. **Sandeep P**, Choudhari U.M. and Reddy A. C., "[Computer Integrated Injection Mould Split Design- Reverse Engineering Approach](#), International Journal of Applied Engineering Research, Volume 6, Number 13 (2011) pp. 1661-1672.
2. Naghate S. and **Sandeep P.**, [Modal Analysis of Engine Mounting Bracket Using FEA](#), International Journal of Engineering Research and Applications, Vol. 2, Issue4, (2012) pp.1973-1979.
3. Naghate S and **Sandeep P.**, [Modal Analysis of Engine-mounting Bracket Using FEA for Circular Cross Section](#), Trends in Mechanical Engineering & Technology, STM Journals, Volume 3 Issue 1 (2013) Pp 23-28.
4. Kadam A. and **Sandeep P.**, [A review study on Savonius wind rotors for accessing the power performance](#), Journal of Mechanical and Civil Engineering, IOSR Journals, Volume -5 (2013) PP: 18-24.
5. Satpute M. and **Sandeep P.**, [Thermo-mechanical modeling of friction stir welding for different material using Altair's HyperWeld FSW](#), International Journal of Engineering Research and Technology, Volume 4 Issue12, (2015) pp 1-5.
6. Moon P. and **Sandeep P.**, [Some Design consideration of single stage drawing of cylindrical cup using Altair Hyperworks](#), Asian Journal of Multidimensional Research, Vol.5, Issue 2, (2016) pp.
7. Khedekar D., **Sandeep P.** and Gogte C. L. , [Mechanical Characterization of Hardness and Surface Roughness for Cryo-Treated 7075 Al Alloy](#), Advances in Intelligent Systems Research, Atlantis Press, Vol. 137, (2017) pp. 160-164.

8. **Pankade S. B.**, Khedekar D. S., and Gogte C L, [*The influence of heat treatments on electrical conductivity and corrosion performance of AA 7075-T6 al alloy*](#), Procedia Manufacturing, Vol 20, (2018) pp 53–58.
9. Kulkarni B. S., **Pankade S. B.**, Andhale S. R., and Gogte C L, [*Effect of backing plate material diffusivity on microstructure, mechanical properties of friction stir welded joints: A Review*](#), Procedia Manufacturing, Vol 20, (2018) pp 59-63.

Presentation and publications: International conferences

1. **Sandeep P.** and Choudhari U. M., [*“Feature Based Knowledge Management Methodology for Injection Mould Design”*](#) International Symposium on Advanced Materials and Processing (ISAMAP2k4)- 2004 at Indian Institute of Technology (IIT), Kharagpur.
2. **Sandeep P.** and Gogte C. L., [*“On thermal effect on friction stir weldment of AA 7075-T6”*](#), 7th Asia pacific IIW welding congress (IIW 2013), Singapore, organized by The International Institute of Welding, 13-14 July 2013.
3. **Sandeep P.**, Patil M., Sharma D., and Gogte C. L., [*“Effect of RRA on corrosion performance of age hardenable aluminium alloy”*](#), 6th International Congress of Environmental Research, organized by MAC Aurangabad and JERED, 19-21 December 2013.
4. Pankade S. B. , Khedekar D. S. and Gogte C. L., [*The influence of heat treatments on electrical conductivity and corrosion performance of AA 7075-T6 aluminium alloy*](#), 2nd International Conference on Materials Manufacturing and Design Engineering (ICMMD 2017), Organized by MIT Aurangabad and DBATU, Lonere, 11-12, December 2017.

Presentation and publications: National conferences

1. Sandeep P. and Sankpal J. B., [Process Improvement Via Rapid Prototyping in Investment Casting](#), National Conference on Investment Casting (NCIC-2003), organized by Central Mechanical Engineering Research institute (CMERI), Durgapur, 3-4 August 2003.
2. Sandeep P., Andhale S., and Deshmukh S. D., [Shortening the design time in injection Mould development"](#), Recent advances in Mechanical Engineering (RAME-2004), organized by KKWCOE, Nashik, 16-17 January 2004.
3. Sandeep P., Choudhari U.M., and Reddy A. C. [Computer integrated injection mould design analysis and development](#) CAME 2005 JNTU, Anantpur12-14, Oct 2005
4. Sandeep P, Choudhari U.M., and Reddy A. C., [Design of Injection Mould for Plastics Computer Integrated approach](#), DPLC-2006 BITS, Pilani17-18, February 2006.
5. Sandeep P, and Tated R. G., [Formability analysis for trapezoidal cup forming using HyperForm](#)HyperWorks Technology Conference, HTC 2011 Altair's HyperWorks Technology Conference, Pune August 4-5, 2011 **(Won first prize for best presentation)**.
6. Sandeep P. and Chapke U., [Relevance of sheet metal forming simulation using Altair's Hyper Form for academics](#). India HyperWorks Technology Conference, 2012. Altair India, Bangalore17-18 July 2012
7. Sandeep P., Praveen M., [Formability Analysis of Single Stage Drawing of Cylindrical Cup Using Altair HyperWorks](#). iATC 2015 Altair, Bangalore14-15 July 2015

Workshop / STTP attended

1. Three-Day Workshop on ["Blue Print for Success"](#) By Shiv Khera, Organized by **Qualified Learning Systems Inc. USA and JNEC Aurangabad**, 28thFebruary to 2ndMarch. 2003.
2. Three-day National Workshop on ["Simulation in Manufacturing Systems](#), Organized by **National Institute of Technology, Warangal**, 7thto 9thOctober, 2004.
3. One-week National Workshop on ["Training for Trainers"](#) organized by **Indo-German Institute of Advanced Technology (IGIAT), Vizag, TITI Nepal/ Ministry of MSME Govt. of India**, 10th to 16th July, 2007.
4. One Day International Workshop on ["Futuristic manufacturing Opportunities & Challenges"](#) organized by **MGM JNEC, Aurangabad** 26th November 2007.
5. One-week AICTE Sponsored STTP on [Rapid Product Development "RPD-2009"](#), organized by **CAD/CAM center, VNIT, Nagpur**, 14th to 19th December, 2009.
6. Two-week ISTE workshop on [Engineering Thermodynamics](#), **IIT Bombay and ICT (MHRD)**, 11th to 21st December 2012.
7. Short Term Course on ["Characterization of materials](#), organized by **Dept of Metallurgy and Materials Engineering, VNIT Nagpur**, 22nd to 24th March 2013.
8. Two days National level Workshop on [Research Methodology.](#), organized by Department of ETC,**MITA/ISTE**, 13th to 14th March, 2015
9. 3 days' workshop on [Microscopic Techniques in Aluminum industry](#), organized by **JNARDDC, Nagpur/ MIT Aurangabad**, 16th- 18thApril, 2015

10. One Day workshop on "[VSSC ISRO's FEAST FEA Technology](#)", organized by MIT Aurangabad, 11th November, 2016.
11. Faculty development Program on "[Product Design Engineering](#)", under PMMMNTT/ TEQIP-III organized by Dr. Babasaheb Ambedkar Technological University, Lonere, 28th September to 2nd October 2018.
12. One-week STTP on "[Advances in Materials and Manufacturing Technology](#)" (AMMT 2019), Organized at MIT Aurangabad in association with Dr. Babasaheb Ambedkar Technological University, Lonere, 1st to 6th March 2019.
13. 5 day Online National FDP on "[Artificial Intelligence](#)" organized by Department of Information Technology, Anil Neerukonda Institute of Technology & Sciences in collaboration with Brain-O-Vision & National Youth Council of India from 22ⁿ-26th May 2020.
14. Two days online Faculty Hands- On faculty Development Program on "[Effective Use of ICT Tools for Efficient Online Teaching](#)" organised by Pune Institute Computer Technology, Pune on 29th to 30th May 2020.
15. One-week online faculty orientation programme on "[Recent Advances in Modeling and Optimization Techniques](#)" organised at Sharad Institute of Technology College of Engineering Yardav- Ichalkaranji, 1st June 2020 to 5th June 2020.
16. One week Online National level Faculty Development Program on "[Futuristic Technologies in mechanical Industries](#)" organised by Dr. D Y Patil Institute of engineering, Management & Research, Akurdi, Pune. From 5th June 2020 to 9th June 2020.
17. One-week online faculty development program on "[Advanced Materials and Additive Manufacturing](#)", organised by Nalla Malla Reddy Engineering College, Hyderabad. From 12th June 2020 to 16th June 2020.

18. One-week online STTP on "[Hybrid Manufacturing processes- Opportunities and Challenges](#)"

Organised at Dr. B R Ambedkar National Institute of technology, Jalandar under TEQIP-III- 06th July 2020 to 10th July 2020.

19. One-week online expert lectures on "[Emerging Research opportunities for Mechanical Engineering](#)", CMR Engineering College, Hyderabad, from 10th -14th August, 2020.

Membership of professional bodies

1. Life member of [Indian Society for Technical Education](#) (ISTE), LM 21536.
2. Life Member of [Indian Institute of Metals](#) (IIM), Membership Number – 50258.
3. Life member: [Quality Circle Forum of India](#) (QCFI) – 049926118454

Place: Aurangabad

Sandeep Pankade