

## Profile

### Name: Sandeep B. Pankade

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

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**Google Scholar:** <https://scholar.google.com/citations?user=yHovph4AAAAJ&hl=en>

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### Academic Credentials

Qualification	Specialization	University/ Institute	University	Year of Passing	Percentage	Remark
Ph. D.	Mechanical Engineering	-----	Dr. BAMU, Aurangabad	Pursuing	-----	-----
M. Tech.	Tool Design and Manufacturing	TRTC, New Delhi (Now known as DITE, Delhi)	TRTC, New Delhi	Nov 1999	84.85 %	-
B. E.	Production Engineering	JNEC, Aurangabad	Marathwada University, Aurangabad	July 1993	73.4 %	University Merit 4 <sup>th</sup> rank

**M. Tech. Project:** 1. Design of progression press tool for ferrule.

2. Design of two impression injection mould design for contactor.

#### Key Research Areas:

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

## Experience (26 Years)

Sr. No.	Organization	Post	From	To	No. of Years/ months
01	Maharashtra Institute of Technology Aurangabad	Associate Professor-Mechanical Engineering and Training and Placement Officer	Aug 2020	Till Date	4 Months
02	Marathwada Institute of Technology Aurangabad	Associate Professor-Mechanical Engineering	July 2018	July 2020	2 Years
		Associate Professor-Mechanical Engineering and Training and Placement Officer	Jan 2015	June 2018	3 Years and 6 months
		Associate Professor-Mechanical Engineering and In-charge COE-CAE	Jan 2011	Dec 2014	3 Years
		Assistant Professor-Mechanical Engineering and In-charge COE-CAE	May 2010	Dec 2010	8 Months
03	Indo German Tool Room Aurangabad	Senior Engineer	Feb 2007	April 2010	3 Years and 3 Months
04	Auroras Engineering College, Bhuvangiri (AP)	Assistant Professor	April 2004	Feb 2007	2 Years and 9 Months
05	JNEC Aurangabad	Lecturer	Feb 1995	April 2004	9 Years and 3 Months
06	Videocon Appliances Limited, Chitegaon. (Refrigerator Division)	Engineer - Press shop	Aug 1993	Feb 1995	1 year and 6 Months
07	Pembril Engineering Aurangabad	Trainee	May 1992	July 1992	2 Months

### 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.

## 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. Certificate Course in *HR Development & Training*, Symbiosis Center for Distance Learning, Pune. March 2019 to Oct, 2019.
3. Certified *Six Sigma White belt*: Council for six Sigma Certification, New York USA. Certification Number: qLntKieUPN, From May 2018.
4. Certified *Lean Six Sigma White belt*: Council for six Sigma Certification, New York USA. Certification Number: zZHXqVYr5Q, From May2018.
5. Certified *Six Sigma Yellow belt*: International Six Sigma Institute, Zurich Switzerland. Certification Number: 16758637430611, From April 2018.
6. Certified *Six Sigma Green belt*: International Six Sigma Institute, Zurich Switzerland. Certification Number: 52973901777528, From April 2018.
7. Certified *Life Coach Practitioner Diploma*, The Academy of Modern Applied, USA Oct 2020.
8. Certified "*Kaizen Lean Manager*" Asian Institute of Quality Management, Pune. Accredited by ASCB-USA.
9. "*Become an Learning & Development Professional*", Certificate of Completion, LinkedIn, Sept. 2020

## NPTEL – Swayam Certification

1. NPTEL Certification: *Product Design and Development* (IIT Roorkee) secured 82%. April 2019.
2. NPTEL Certification: *Design Thinking-A Primer* (IIT Madras) secured 79%. May 2019.
3. NPTEL Certification: *Accreditation and outcome-based learning* (IIT Kharagpur) secured 87%. Nov 2019.

## Courses offered

In my 23 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, 22<sup>nd</sup> October 2010.
2. *Computer Aided tool engineering – Cases*, For third year Mechanical Engineering students, DIEMS, Aurangabad, 25<sup>th</sup> Feb. 2015.
3. *Computer Aided press tool design*, For third year Mechanical Engineering students, DIEMS, Aurangabad, 20<sup>th</sup> April 2016.
4. *Creativity, problem solving and life skills*, For third year Mechanical Engineering students, DIEMS, Aurangabad, 08<sup>th</sup> October 2016.
5. *Advanced Teaching Techniques and soft skills for teachers. (Faculty Development Program)*, Shreyesh College of Engineering & Technology, Aurangabad, 04<sup>th</sup> January 2017.
6. *Manufacturing Excellence through Industry 4.0*\_(Faculty Development Program), DIEMS, Aurangabad, 02<sup>nd</sup> May 2017.
7. *Additive Manufacturing Processes (Faculty Development Program)*, DIEMS, Aurangabad, 04<sup>th</sup> May 2017.
8. *Recent trends in Tool engineering (Students Development Program)*, Peoples Education Society's, PES College of Engineering & Technology, Aurangabad, 20<sup>th</sup> February 2018.
9. *Recent trends in Tool engineering (Students Development Program)*, MSS College of Engineering & Technology, Jalan, 22<sup>nd</sup> 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, 06<sup>th</sup> March 2019.

### Workshop/ STTP/ Conference/ Event organized

1. *Two days' workshop on Advances in Heat and cryogenic treatment (AHCT-2012)*, July 7<sup>th</sup> – 8<sup>th</sup>, 2012. Organized by MIT Aurangabad and IIM Pune chapter. Role: Organizing Secretary
2. *Reliable Welds (RW-2013)*, July 5<sup>th</sup>, 6<sup>th</sup>, and 7<sup>th</sup> 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. BATU** 1<sup>st</sup> to 6<sup>th</sup> March 2019. Role: Programme Coordinator.

### Professional Training Designed and Imparted

Sr. No.	Course	Organisation	Date/ Duration
01	Geometrical Dimensioning and Tolerancing (GD&T)”	For Design professionals at M/s Butler International, Hyderabad	16 <sup>th</sup> – 20 <sup>th</sup> March 2006.
02	“Solid Modeling using Pro-Engineer	For Engineering Students during Summer Vacation at Aurora’s Engineering College, Bhongir (AEC), Bhongir	12 <sup>th</sup> to 16 <sup>th</sup> November 2006.
03	Computer aided injection Mould Design and manufacturing using Pro-E	For tooling Professionals from Srilanka at IGTR- MSME Tool Room, Aurangabad	Aug 2007 January 2008.
04	Application of Solid works and COSMOS	For graduate trainees of L & T Engineering Solutions, Baroda at IGTR, Aurangabad	June -July 2008
05	CAD-Unigraphics NX	300 trainees, Center of Excellence in computer aided engineering (COE-CAE), MIT Aurangabad.	July 2010 to Dec 2014
06	Hypermesh and hyper-form	50 trainees, Center of Excellence in computer aided engineering (COE-CAE), MIT Aurangabad.	July 2013 to Dec 2014

## Post Graduate students supervised

Sr. No	Name of Students	Program/ Course	Title of Dissertation	Academic Year
01	Sahil Negate	M E Manufacturing Engineering	Design and optimization of engine cradle bracket using FEA.	2011-12
02	Praveenkumar Moon	M E Manufacturing Engineering	Some design considerations in single stage drawing of cylindrical cup.	2012-13
03	Abhijeet Kadam	M E Heat Power	Design and development of low-cost vertical axis wind turbine.	2013-14
04	Mohan Satpute	M E Heat Power	Thermo-mechanical modelling of Friction stir welding process.	2014-15
05	Vinod Shejwal	M E Manufacturing	Some studies on OEE improvement through implementation of '5S' techniques as a lean manufacturing tool.	2014-15
06	Umesh Ghodwale	M E Manufacturing	Comparative study of TIG welding and Solid-state welding of AA7075 aluminium alloy plates.	2015-16
07	Apurva Kulkarni	M E Automation	Design and Development of low-cost automated pesticide liquid filling machine.	2016-17
08	Bhardwaj Kulkarni	M E Manufacturing	Effect of backing plate on corrosion and mechanical properties of friction stir welded AA 6061 joints.	2017-18

## Publications: Book Chapter (04)

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](https://link.springer.com/chapter/10.1007/978-981-13-0378-4_4)

### Publications: International Journal (09)

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. 28-34
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 (04)

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*", 7<sup>th</sup> 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*", 6<sup>th</sup> 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*, 2<sup>nd</sup> 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 (07)

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 (19)

1. Three-Day Workshop on "*Blueprint for Success*" By Shiv Khera, Organized by Qualified Learning Systems Inc. USA and JNEC Aurangabad, 28<sup>th</sup>February to 2<sup>nd</sup>March. 2003.
2. Three-day National Workshop on "*Simulation in Manufacturing Systems*", Organized by National Institute of Technology, Warangal, 7<sup>th</sup>to 9<sup>th</sup>October, 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, 10<sup>th</sup> to 16<sup>th</sup> July 2007.
4. One Day International Workshop on "*Futuristic manufacturing Opportunities & Challenges*" organized by MGM JNEC, Aurangabad 26<sup>th</sup> November 2007.
5. One-week AICTE Sponsored STTP on "*Rapid Product Development*" (RPD-2009), organized by CAD/CAM center, VNIT, Nagpur, 14<sup>th</sup> to 19<sup>th</sup> 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, 16<sup>th</sup>- 18<sup>th</sup>April, 2015
10. One Day workshop on "*VSSC ISRO's FEAST FEA Technology*", organized by MIT Aurangabad, 11<sup>th</sup>November, 2016.
11. Faculty development Program on "*Product Design Engineering*", under PMMMNMTT/ 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, 1<sup>st</sup> to 6<sup>th</sup> 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 22<sup>n</sup>-26<sup>th</sup> 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 29<sup>th</sup> to 30<sup>th</sup> 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, 1<sup>st</sup> June 2020 to 5<sup>th</sup> 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 5<sup>th</sup> June 2020 to 9<sup>th</sup> June 2020.
17. One-week online faculty development program on "*Advanced Materials and Additive Manufacturing*", organised by Nalla Malla Reddy Engineering College, Hyderabad. From 12<sup>th</sup> June 2020 to 16<sup>th</sup> 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- 06<sup>th</sup> July 2020 to 10<sup>th</sup> July 2020.
19. One-week online expert lectures on "*Emerging Research opportunities for Mechanical Engineering*", CMR Engineering College, Hyderabad, from 10<sup>th</sup> -14<sup>th</sup> 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)- 50258.
3. Life member: [\*Quality Circle Forum of India\*](#) (QCFI) – 049926118454
4. Life member: [\*Quality Council of India\*](#) (QCI):

**Place: Aurangabad**

**Sandeep Pankade**