

SNJB's
Shri H.H.J.B. Polytechnic, Chandwad
Department: Mechanical Engineering

Faculty Profile

Mr. Shailesh Somnath Parkhe



Qualification :	Ph.D. Mechanical Engg. Pursuing (JSPM's RSCOE, Tathawade, Pune) M.Tech Production Engg. (Government College of Engg., Karad), 2021. B.E. Mechanical Engg. (SNJB's KBJ COE, Chandwad), 2017.
Designation :	Lecturer
Date of Joining :	03/08/2020
Experience :	Teaching: 04 Years Industrial: 01 Year
Teaching/research Areas :	➤ Manufacturing ➤ Production ➤ Metrology and Quality Control Management
Courses / Subjects Involved With :	1st Year : 1) Engineering Graphics (EGE) 22003 2) Engineering Drawing (EDR) 22207 3) Manufacturing Technology (MPR)(312313) 2nd Year : 1) Engineering Metrology (EME) 223422) 2) Manufacturing Process (MPR) 22446 3) Production Drawing (PDR) (313311) 3rd Year : 1) Solid Modeling & Additive Mfg. (SMA) 22053 2) Emerging Trends in Mech. Engg. (ETM) 22652 3) Advanced Manufacturing Process (AMP) 22563 4) Management (MAN) 22509 5) Capstone Project Planning (22058)

**Staff training/FDP
attended in last 3 years**

- 1) Attended 06 days FDP on Development Entrepreneurship and Managerial skills organized by government polytechnic, Hingoli, Maharashtra.
- 2) Attended one-week FDP on Applications of Artificial intelligence and machine learning in mechanical Engineering organized by Kolhapur Institute of technology, college of engineering (Autonomous).
- 3) Attended 06 days FDP on Recent trends in renewable energy sources organized by MVP's RSM Polytechnic, Nashik.
- 4) Attended one-week STTP on Role of Teacher: To boost moral Values, Ethics in engineering education system. Organized by MVP's KBT COE, Nashik.
- 5) Attended two days FDP on Effective Skills and IOT Organized by Department of computer technology, SNJB's SHHJB Polytechnic, Chandwad.
- 6) Attended two days FDP on Cyber Security and Cyber Forensic Organized by Dept. of computer technology, SNJB's SHHJB Polytechnic, Chandwad.
- 7) Attended two days FDP on VLSI Design flow and application of Linux Organized by Department of E&tc, SNJB's SHHJB Polytechnic, Chandwad.
- 8) Attended two days FDP on Tools for Effective Teaching Organized by Dept. of Civil Engg., SNJB's SHHJB Polytechnic, and Chandwad.
- 9) Participated CII Workshop on Metallurgy Matters: Basics of welding Metallurgy.
- 10) Participated one month 3D Printing and 3D Modeling Internship Program by TECHNOCAD, Nashik.
- 11) 03 Days Teachers training program in enterprise education (TTPEE) organized by start-up and innovation cell of SNJB COE in association with Development education (International) society, DIES, Pune during 01-03rd June 2023.
- 12) One week FDP on "OBE and NEP Implementation" Conducted by Mechanical Engineering Department from 09/10/2023 to 13/10/2023 at NITTTR, Chandigarh.

	<p>13) 03 Days State level FDP on Introduction on basics of AUTO-CAD from 8th -10th January 2024</p> <p>14) 04 Week NPTEL -AICTE FDP on Product Design and development.</p> <p>15) 04 Week NPTEL -AICTE FDP on Inspection and quality control in manufacturing.</p> <p>16) 04 Week NPTEL -AICTE FDP on Manufacturing Process casting and Joining.</p>
<p>Paper presentation /conferences attended</p>	<p>1) Presented a Research Article on “3D Printing Basic Principles and application” in First international conference on computations in materials and applied engineering (CMAE), 26-27th June 2021.</p> <p>2) Presented a Research Article on “Implementation of IOT in Production and Manufacturing: An industry 4.0 approach” in the International conference on “Advances in Material science-ICAMS”organized by Arunai international research foundation in association with department of chemistry, University of Calicut, Kerala, 11-12th Sept 2021.</p> <p>3) Presented a Research Article on “Friction Stir welding on Aluminium alloy” in Fourth International Conference on Advances in civil and Structural engineering (ICACSE) jointly organized by Government college of Engineering, Karad and Rajkiya engineering college Azamgarh, 28 – 30th May 2020.</p> <p>4) Participated and present a paper in the 3rd international conference on mechanical and energy technologies ICMET-2023 organized by Galgotias COE, Noida in collaboration with NIT Delhi on 07– 08th Dec 2023.</p> <p>5) Participated and present a paper in the 3rd international E-conference (ICMMSE: IR 2023) Organized by Sandip institute of technology and Research Centre, Nashik on 12 – 13th Dec 2023.</p> <p>6) Participated and present a paper in 2nd International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (Hybrid Mode) (ICMech-REC-2024) Organized by Department of Mechanical Engineering NIT, Warangal on 29– 31th May 2024.</p>

<p>Paper published in journals</p>	<p>1) Published a Research Paper Entitled “To study the effect of tool pin Profile on AA3103 by Friction stir Welding.” In International Research Journal of Engineering and Technology – IRJET (2020).</p> <p>2) Published a Research Paper Entitled “3D Printing: Basic Principles and Application” in Elsevier Materials today Proceedings, Indexed in Scopus (2021).</p> <p>3) Published a Research Paper Entitled “Implementation of IOT in Production and Manufacturing: An industry 4.0” in Elsevier Materials today Proceedings, Indexed in Scopus (2022).</p> <p>4) Published a Research Paper Entitled “Review of Friction Stir Welding and Processing on Aluminium Alloys” in Scopus indexed journal Entitled “Journal of Mines, Metals and Fuels”, Indexed in Scopus (2023).</p> <p>5) Published a Scopus book chapter Entitled Nanoparticle characterization and bioremediation: Prospects for ecological advantages Sustainable Utilization of Nanoparticles and Nano fluids in Engineering Application, Indexed in Scopus (2023).</p> <p>6) Published an article Entitled "Friction Stir Welding and Processing: A Review “in Springer's Prestigious Lecture Notes in Mechanical Engineering (LNME) Series (2024).</p>
<p>Books published withISSN/ISBN number :</p>	<p>1) Author of a Text Book on Subject “Tool Engineering” for Mechanical Engineering Degree course under Tech-Knowledge Publication, Pune For Mumbai University. ISBN : 978-93-5563-180-0</p> <p>2) Author of a Text Book Entitled “Emerging Trends in Mechanical Engineering” For Mechanical Engineering Diploma Students under Tech-Knowledge Publication, Pune for MSBTE.</p>
<p>Participation in MSBTEactivities (RAC/DC/Theory/PR Exam/Curriculum development)</p>	<p>1) Performed duty as invigilator in MSBTE ESE Theory Exam. 2) Performed duty as Assessor in RAC. 3) Performed duty as a Supervisor in RAC. 4) Worked in RAC as a Quality Control Supervisor in Winter</p>

<p>List of projects guided at diploma level last 3 years</p>	<ol style="list-style-type: none"> 1) Blackboard Cleaning system 2021. 2) Automatic Bike Stand (Actual Implementation) 2022. 3) Pedal Operated Pottery Wheel (Patent Granted) 2023. 4) Design and Fabrication of Mini Harvester (Patent Granted) 2024 (MSBTE State Level Project Competition Winner – Rs. 01 Lakh). 5) Smart Solar and Petrol operated Car 2025. 6) Design and Fabrication of Maize harvesting machine 2025.
<p>Role and responsibilities at institute level</p>	<ol style="list-style-type: none"> 1) Member of Admission Process (Manmad region) 2) NBA Work : Working on Criterion 6 (Facility and Technical Support) 3) CII Cell Co-Ordinator 4) Coordinator (SPOC) of Smart India Hackathon SIH.
<p>Role and responsibilities at department level</p>	<ol style="list-style-type: none"> 1) Lecturer. 2) Class Coordinator. 3) Departmental Coordinator of Entrepreneurship Cell. 4) NBA Criterion 6 Co-ordinator. 5) Co-Ordinator for Newsletter Publication. 6) Co-Ordinator for 02 days FDP on Lean Manufacturing. 7) Co-Ordinator for 02 days FDP on Supply Chain Management. 8) Student Mentoring 9) Worked as an Internal Squad for Progressive assessment tests 10) Member of Research Committee 11) Lab In-Charge of Metrology and Quality Control Lab
<p>Major Achievements in last 5years</p>	<ol style="list-style-type: none"> 1) Published a Patent Entitled “Hoisting device combined with the Hydraulic dumped system of the pick-up bed of pick-up” 2017. Application Number: 201721018684 2) Awarded as a “Young Researcher Award - 2022 (YRA-2022)” From the Institute of Scholars (Insc), Bengaluru Karnataka. 3) UK Design Patent Granted Entitled "An FSW-Optimized Fixture for Non-Ferrous Metal Fusion", 2024. Design Number: 6368857 4) Indian Design Patent Granted Entitled "Multi Crop Mini Harvester", 2024. Design No. : 411439-001

- 5) **Indian Design Patent Granted** Entitled "Pedal Operated Pottery Wheel", 2024. Design No. : 418482-001
- 6) **Indian Design Patent Filled** Entitled "User Friendly Fixture for Circular Welding Process", 2024. Design No. : 419463-001
- 7) **Indian Design Patent Granted** Entitled “ Smart Door System “ ,2024 Design No. : 424628-001
- 8) **Indian Utility Patent Published** Entitled " Advanced Hydraulic Dump System For Pick-up Trucks with Enhanced Efficiency and Safety", 2024. Application Number: - 202421047019.
- 9) As a Project Guide own First Prize of **Rs. 01 Lakh** project Entitled “Design and Fabrication of Mini Harvester” in State Level Project Competition Organized by MSBTE at Gramin Technical and Management Institute, Nanded, 2024.
- 10) Successfully Completed **NPTEL** 12 Week Course Entitled "Fundamentals of Manufacturing Process" from IIT Roorkee with an **Elite Silver Medal** in 2019.
- 11) Completed **NPTEL** Workshop on “A hands-on introduction to Additive Manufacturing” by IIT Madras in 2023.
- 12) Successfully Completed **NPTEL** 04 Week Course Entitled "Product Design and Development" from IIT Roorkee with an **Elite Gold Medal** and Listed in **5% Topper's List** in 2023.
- 13) Successfully Completed **NPTEL** 04 Week Course Entitled "Inspection and Quality Control in Manufacturing" from IIT Roorkee With an **Elite Silver Medal** and Listed in **2% Topper's List** in 2024.
- 14) Successfully Completed **NPTEL** 04 Week Course Entitled "Manufacturing Process Casting and Joining" from IIT Kanpur With an **Elite Silver Medal** and Listed in **5% Topper's List** in 2024.
- 15) Recognized as a “**Reviewer**” of Insc International Publishing Platforms and also for technical events under stream: Mechanical Engineering.

Professional membership if any	1) Life Membership of the Indian Society for Technical Education (ISTE). 2) Professional Member of Insc International Publisher for a Lifetime. 3) Member of Quality Circle Forum of India (QCFI)
Additional information	Official Email Id: parkhe.sspoly@snjb.org Personal Email Id : parkhesnjbpoly18@gmail.com Blog: https://shaileshparkhe.wordpress.com/ YouTube Channel : https://www.youtube.com/channel/UCDET66rMIH2-9CNKIhfxRQQ Scopus Profile : Scopus ID: 57485256200 Contact Number: 8788397156