CURRICULUM VITAE

Dr. Sonu Saini
Associate Professor
Anand International College of Engineering Jaipur
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SonuSaini-GoogleScholar



Areas of Research Interest:
Polymer composites, Tribology, Design of Experiment, 3D printer, Heat Transfer

Education:

Qualification	School/College	Board/University	Year	Percentage / CGPA
Ph.D.	MNIT, Jaipur	MNIT Jaipur	2024	Awarded
M. Tech.	Mewar University	Mewar University	2015	7.2
B.E.	SMCET, Phagi, Jaipur	Rajasthan University, Jaipur	2009	66.5
HSSC	Govt. Sr. Sec. School Senthi, Chittorgarh	RBSE, Ajmer	2005	63
SSC	Govt. Sr. Sec. School Senthi, Chittorgarh	RBSE, Ajmer	1991	77.63

Employment Record

Academic Experience:

Organization	Designation	From	To
Anand International College of Engineering Jaipur	Associate Professor	12-12-2018	Continued
MNIT, Jaipur	Project Assistant	16-09-2017	01-12-2018
Mewar University	Assistant Professor	12-2-2012	15-09-2017
Rajasthan Institute OF Engineering & Technology , Chittorgarh	Lecturer	10-11-2010	10-2-2012

Industrial Experience:

Organization	Designation	From	To
Mechshot Blasting Equipment PVT. LTD. ,Jodhpur	Design Engineer (Pro-E)	04-10-2009	08-11-2010

Memberships of Professional bodies:

1. Attained membership of the International Association of Engineers (IAENG)
2. Editorial Board Member of the International Journal of Materials Science and Applications

Research

- Work in the Ministry of Steel–sponsored research project entitled "Economic production of iron through direct reduction of Mill Scale by low-grade coal of Rajasthan" at MNIT Jaipur, Rajasthan.

- Worked on "Enhancement of thermal conductivity of liquid by dispersing ultrafine particles" during M.Tech. As thesis work under the guidance of Pradeshi Ram (Department of Mechanical Engineering, Mewar University, Chittorgarh).

Publications:

Journals: 9

- **Saini, S**., Meena, A., & Patnaik, A. (2023). Investigation of physical, mechanical, thermal, and tribological characterization of tricalcium phosphate and zirconia particulate reinforced dental resin composite materials. **Tribology International**, 181, 108322. https://doi.org/10.1016/j.triboint.2023.108322. **SCI Indexed I.F = 6.1**
- **Saini, S.,** Meena, A., et al. (2024). Tribological, mechanical, and thermal properties of nano tricalcium phosphate and silver particulates reinforced Bis-GMA/TEGDMA dental resin composites. **Tribology International**, 110010. https://doi.org/10.1016/j.triboint.2024.110010**. SCI Indexed I.F = 6.1**
- **Saini, S.,** Meena, A., Yadav, R. et al. Fabrication, Evaluation, and Performance Ranking of Tricalcium Phosphate and Silica Reinforced Dental Resin Composite Materials. **Silicon** 15, 8045–8063 (2023). https://doi.org/10.1007/s12633-023-02646-6. **SCI Indexed I.F = 3.4**
- **Saini, S.,** & Meena, A. (2020). A comparative study of the effect of fillers and monomer on dental restorative material. Materials Today: Proceedings, 44, 5023-5027. https://doi.org/10.1016/j.matpr.2021.01.030**. (Scopus)**
- **Saini, S.,** Meena, A., Yadav, R. et al. Optimization and ranking of dental restorative composites by ENTROPY-VIKOR and VIKOR-MATLAB. Polym Adv Technol. 2024;35(7):e6526. doi:10.1002/pat.6526. **SCI Indexed I.F = 3.1**
- Meena, A., Bisht, D., Yadav, R., **Saini, S**., Dangayach, G. S., Patnaik, A., & Meena, M. L. (2022). Fabrication and characterization of micro alumina zirconia particulate filled dental restorative composite materials. Polymer Composites, 43(3), 1526-1535. https://doi.org/10.1002/pc.26473. **SCI Indexed I.F = 3.5**
- **Saini S**, Meena A. Optimizing dental composites with nano limestone and tricalcium particulate fillers: A study on physical and mechanical properties. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering. 2024;0(0). doi:10.1177/09544089241300043. **SCI**

Indexed I.F = 2.5

- Yadav R, Saini **S**, Huh YS. et al. Ranking analysis of tribological, mechanical, and thermal properties of nano hydroxyapatite filled dental restorative composite materials using the R-method. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering. 2024;0(0). doi:10.1002/pat.70010. **SCI Indexed I.F = 2.5**
- Development of the apparatus to measure the thermal conductivity of liquids International Journal of Innovative Science, Engineering & Technology 2015, R Chanda, S Saini, P Ram.

Conference Papers (Indexed):2

- ENHANCEMENT OF THERMAL CONDUCTIVITY OF LIQUID BY DISPERSING ULTRAFINE PARTICLES OF FLY ASH, ICRDET-2019, September 14-15, 2019, AICE, Jaipur, India International Journal of Technical Research & Science (Special Issue) ISSN No.:2454-2024 (online) S Saini, A Meena
- Mechanical Properties of Dental Restorative Composite Materials: A Review S.SAINI et.al., SCRS Proceedings of International Conference of Undergraduate Students, 2021.

Guest Lectures Delivered:

- Speaker in the **International Congress on Dentistry** held on July 29, 2021 (Webinar).

PhD Guidance:

Rajasthan Technical University (RTU Kota), recognized supervisor for Ph.D. in Mechanical Engineering Department.

M. Tech. Thesis Supervised:

S. No.	Name of Student	Title of Dissertation	Year
1	Krishna kumar	Study of continuous quality improvement in production environment using lean manufacturing	2025

B.Tech. Project Supervised

S. No.	Title of Project	Year
1	Design and development of Electric Golf Cart	2019
2	Design and development of Electric Cycle	2020
3	Design and development of Drone	2021
4	Humanoid Robot	2022

FDP/STC/Workshops/Seminar Organized:

Title	Category	From	Duration	Institute
DRONE ; Autonomous Technology: The Future of New India	FDP	09-02-2026	1week	Anand-ICE, Jaipur
Metal Matrix Composites: Exploring New Frontiers in	FDP	03-03-2025	1Week	Anand-ICE, Jaipur

Manufacturing and Automation				

Administrative Duties:

Designation	From	To	Nature of Work	Organization
Departmental Proctor	2019	Till now	All student welfare work	Anand-ICE, Jaipur
Departmental TimeTable Coordinator	2024	Till now	Department's classes / labs / master timetable formation	Anand-ICE, Jaipur
Anand Summer School Mentor	2022	Till now	Hands-on practical training for diploma Student	Anand-ICE, Jaipur
Project Proposal In charge	2020	Till now	Sponsored Project/FDP/Conference Proposal Submission	Anand-ICE, Jaipur
Batch Counsellor	2019	Till now	All student welfare work	Anand-ICE, Jaipur

Outreach Activity:

- Participated in the five-day GIAN course on "Manufacturing and Processing of Advanced Metallic, Ceramic and Composite Materials" organized by the Department of Mechanical Engineering, MNIT Jaipur, sponsored by GIAN, held from 14th to 18th March 2022 at MNIT Jaipur.
- Participated in the Conference on Human Values in Higher Education (ICHVHE 2024) organized by AICTE, held in November 2024 for 3 days.
- Participated in the Conference on Human Values in Higher Education (ICHVHE 2024) organized by AICTE, held in November 2024 for 3 days.
- Participated in the Five-Day FDP on Recent Trends in AI and ML for Smart Computing organized by ANAND ICE, conducted from 12–16 February 2024.
- Participated in the Five-Day FDP on AI & ML Applications in Industries organized by ANAND ICE, held from 15–19 April 2024.
- Participated in the Five-Day FDP on Life Skills for Blissful Life organized by ANAND ICE, conducted from 18–22 March 2024.
- Participated in the Five-Day FDP on Recent Trends in AI and ML for Smart Computing organized by ANAND ICE, held from 12–16 February 2024
- Participated in the Five-Day FDP on AI & ML Applications in Industries organized by ANAND ICE, conducted from 15–19 April 2024.
- Participated in the Five-Day FDP on Life Skills for Blissful Life organized by ANAND ICE, held from 18–22 March 2024.
- Speaker in the International Congress on Dentistry held on July 29, 2021 (Webinar).
- Participated in the International Webinar on Development of Advanced Materials and their Characterizations (IWDAMC 2021) held on September 15, 2021 at Amity School of Engineering and Technology, Amity University Madhya Pradesh, Gwalior.
- TEQIP-III / RTU, ATU–sponsored Five-Day Faculty Development Program on "Introduction to LaTeX and Multivariate Analysis using SPSS and MS Excel."
- Participated in the 2-week ISTE Workshop on "Engineering Thermodynamics", jointly organized by

MHRD & Indian Institute of Technology, Bombay.

- Participated in the 1-week Short Term Training Programme through ICT Mode (Online) on "NBA Accreditation."
- Participated in the 1-week AICTE-recognized Short Term Course on "Induction Training Programme" through ICT, conducted by the National Institute of Technical Teachers' Training and Research, Chandigarh.
- Member, Organizing Committee, International Conference on Supply Chain Management (ICSCM), January 2014, organized by the Department of Mechanical Engineering, Mewar University.
- Participated in the 2-week ISTE Workshop on "Fluid Mechanics", jointly organized by MHRD & Indian Institute of Technology, Kharagpur.
- Attended the National Conference on Material Science held at Mewar University.
- Attended the Two-Day Indo-Finland Bilateral Workshop on User-Centered Design.
- Attended the National Conference on Green Chemistry, held at Mewar University
- Participated twice in the Faculty Development Program held at Mewar University.

Personal Details:

All entries made in this resume are true to my knowledge and belief. I am willing to produce original certificates on demand at any stage.

- Date of Birth:08-05-1988
- Sex: Male
- Marital Status: Married
- Nationality: Indian
- Passport No.: S7301766

(Dr. Sonu Saini)