

Sandesh Sanjeev Phalke, Ph.D.

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🌐 <https://shorturl.at/F0SBx>

Employment History

- Oct, 2024 – Present 📌 **Assistant Professor**, Department of Arts, Science and Design, IIIT Dharwad.
- Sept, 2023 – Present 📌 **Technical Consultant and Board Member**, Aarogya Aadhar Pvt. Ltd. Pune.
- July, 2024 – Nov, 2024 📌 **Visiting Faculty**, Department of Design, MIT-WPU Pune.

Education

- 2019 – 2024 📌 **Ph.D., Department of Design, IIT Guwahati**
Thesis title: *Visual Design Guidelines for representing curriculum-based digital content for children living with ADHD in typical learning environments.*
- 2017 – 2019 📌 **M.Tech, Advanced Manufacturing, SASTRA Deemed to be University Thanjavur**
- 2013 – 2017 📌 **B.E., Production Engineering, Shivaji University Kolhapur**

Research Publications

Journal Articles

- 1 S. S. Phalke, A. Shrivastava, and K. Quadros, "Appropriate visual design elements for curriculum-based digital content representation used by children living with ADHD in typical learning environments.," *International Journal of Visual Design*, vol. 19(2), pp. 1–20, 2025.
- 2 A. Chetry, S. S. Phalke, and A. Nandy, "Achieving high precision and productivity in laser machining of Ti6Al4V alloy: A comprehensive study using a n-predictor polynomial regression model and PSO algorithm," *International Journal of Lightweight Materials and Manufacture*, 2024.
- 3 S. S. Phalke, A. Shrivastava, and P. Sahgal, "Identification of digital font size and font type to enhance the attention span of children living with ADHD in a typical learning environment," *International Journal of Visual Design*, vol. 17, 2023.
- 4 R. Navin, P. D. Babu, P. Marimuthu, and S. S. Phalke, "Distribution of residual compressive stresses in induction hardened steel gears: Effect of parameters on distortion, hardness and phase composition," *Metal Science and Heat Treatment*, vol. 63, pp. 449–455, 2021.

Conference Proceedings

- 1 S. S. Phalke, A. Shrivastava, and M. Phukon, "Auditory interactions: A potential way for managing the children living with ADHD," in *International Conference on Research into Design*, Springer, 2023, pp. 751–759.
- 2 S. S. Phalke and A. Shrivastava, "HI applications for ADHD children: A case for enhanced visual representations using novel and adapted guidelines," in *International Conference on Trends in Electronics and Health Informatics*, Springer, 2022, pp. 207–226.
- 3 S. Martin Vinoth, P. Dinesh Babu, P. Marimuthu, and S. S. Phalke, "Laser cladding of nickel powder on AISI 202 stainless steel and optimization of the process parameters," in *Advances in Manufacturing Processes: Select Proceedings of ICEMMM 2018*, Springer, 2019, pp. 197–203.

Books and Chapters

- 1 S. S. Phalke and A. Shrivastava, "Hi applications for adhd children: The graphic design perspective," in *Brain-like Super Intelligence from Bio-electromagnetism*, Springer, 2024, pp. 105–127.
- 2 S. S. Phalke and A. Shrivastava, "Directions to design assistive digital aid for the children living with attention deficit hyperactivity disorder," in *Exergaming Intervention for Children, Adolescents, and Elderly People*, IGI Global, 2023, pp. 93–107.

Skills

Design Skills	<ul style="list-style-type: none"> ▀ Co-Designing, Design Thinking, Interaction Design, UI UX, Inclusive Designing, Usability Testing, User flow.
Management Skills	<ul style="list-style-type: none"> ▀ Operation Management, Process Planning, Process Control.
Software's	<ul style="list-style-type: none"> ▀ Overleaf, Microsoft Office, Mini Tab, SPSS, VoS Viewer, Zotero, Auto-Cad, Figma, Procreat, ProE, ANSYS, Creo, Image J, Design Expert.
Languages	<ul style="list-style-type: none"> ▀ Strong reading, writing and speaking competencies for English, Hindi, Marathi.

Miscellaneous Experience

Awards and Achievements

November 2024 - Present	<ul style="list-style-type: none"> ▀ General Co-Chair India HCI 2025, The 16th International Conference of Human-Computer Interaction (HCI) Design & Research.
June 2019- July 2024	<ul style="list-style-type: none"> ▀ Ph.D. Research Fellowship - MoE. Gov. of India
May 2021	<ul style="list-style-type: none"> ▀ CHI 2021 Symposium Grants - CHI 2021.
May - July 2018	<ul style="list-style-type: none"> ▀ Summer Research Fellowship 2018 - IIT Delhi.
2023	<ul style="list-style-type: none"> ▀ Resource Person, Prototype Design and Development, Under Govt. of India Institute Innovation Council, Prototype Design and Development, Under Government of India Institute Innovation Council.

Certification

2024	<ul style="list-style-type: none"> ▀ Online MBA, Project Management. CGPA: 8.02/10, Online MBA, DYPU Pune, Pune, Maharashtra, India.
May 2020 - June 2020	<ul style="list-style-type: none"> ▀ Child Psychology and Counseling. Manoved Foundation Pune. ▀ Online CBT and REBT course. Manoved Foundation Pune.