Dr. Shiva Ji

'Design for Sustainability' - *Architecture / Industrial Design / Heritage* - Research

Present role(s)	* **Associate Professor** (*April 2024 - till date*) Department of Design Affiliate Faculty in GSS / Dept of Climate Change and Dept of Heritage Science & Technology **Indian Institute of Technology Hyderabad** - TS 502284, India
	* **PI** at **Dept. of Science & Technology, Govt. of India funded research project(s)** * **F**aculty **I**n-**C**harge of **Public Relations** at IIT Hyderabad * **PI** at "**Design for Sustainability Lab**" and "**Digital Heritage Lab**" * **Member** of **Programme Committee** of **ICoRD** and **Chaired Sessions** in Conferences * **Technology Expert** for Technical Support to Implement TechEmerge Resilience India Pilot Projects (for Disaster Management) of RIKA/**ADPC** funded by the **World Bank**
Previous Acad. Exp.	* Assistant Professor Grade I - IIT Hyderabad (July 2018 - April 2024) * Assistant Professor - Mizoram Central University, Aizawl (June 2016 - July 2018)
Affiliations	• **Registered Architect** with **Council of Architecture**, under Architects Act 1972, Govt of India • **Commission Member** - **CEESP, IUCN** (International Union for Conservation of Nature) • **Associate Fellow** of the Indian Institute of Architects (**IIA**) • Life member with Indian National Trust for Art and Cultural Heritage (**INTACH**) • Member of the International Council on Monuments and Sites (**ICOMOS** India) • Registered with Green Building Certification Institute, USA • Life member with **Indian Science Congress** Association, India • **LeNSin** Project Partner - LeNS Polimi, Italy, EU and LeNS India • Professional Member with Association of Designers of India (**IDA**)
Contact	shivaji@des.iith.ac.in	arshivaji@gmail.com * IITh page * ORCiD page * LinkedIn page * G-Scholar page * IRINS page * YouTube page
Areas of Interest	Design for Sustainability	Sustainability Assessment	LCA	New Age Products/Services	Architectural Heritage Digital Reconstruction	AR VR MR Digital Twin

Core Education	* **Doctor of Philosophy**
	    2015 - 2020, Dept. of Design, Indian Institute of Technology Guwahati, India
	
	 * **Master of Design (PGDPD)**
	    2005 - 2007, National Institute of Design, Ahmedabad, India
	
	 * **Bachelor of Architecture**
	    1999 - 2004, Government College of Architecture (now FoA, APKTU), Lucknow, India
	
	 * Professional Certificate Course on Environment & Sustainable Development
	    2011 - 2011, CEPT University, Ahmedabad, India
	
	 * Certificate Course of Sustainability in Practice (online)
	    2014 - 2014, PennDesign, University of Pennsylvania, Pennsylvania, USA

Parallel Education	* **Master of Business Administration** *2011,* Indira Gandhi National Open University, New Delhi, India
Industry Experience	**8 Years & 7 Months** *In capacity as (an employee & individual professional):* • Completed various projects in Architecture (Residential, Commercial, etc.) • Over 43 designed products commercially available in market • Head of Design vertical, Concept development, Design, Detailing, Prototyping, Rollout, Presentations, Recruitment, Team management, Vendor management, etc. • Set up mini factory for production of Smart Product Design (RFID, EM, Hybrid technology enabled). Facilities of Prototyping, Material(s) working units, Finishing jobs and Packaging, etc
Achievements	• **Fellowship** from **Japan Science and Technology Agency** for Japan-Asia Youth Exchange Program • Won **Best Paper Award** in ICET2023 at MA NIT Bhopal, 10 April 2023 • Won (two) **Best Research Paper Awards at ICoRD'23, IISc Bangalore** on 11 Jan 2023 • Awarded **3rd winner** in Click! Japan Photo Contest 2020 by Embassy of Japan & Japan Foundation • **Fellowship** from **Japan International Cooperation Agency** to visit Japanese Universities • Mentored two week long course organized by LeNSin on S-PSS & DE at IIT Guwahati • Mentored a week long workshop organized by USID Foundation & IITK at IIT Kanpur • Citation in Annual NASA Design Competition-2002 • Selection and display of two products in "Design Idea Fair' 2006" at IHC, New Delhi by NDBI • All India Rank: **36** in **CEED-2005** conducted by **IIT Bombay** • **Ford Foundation Scholarship** and **NID Ahmedabad Scholarship** • **Design Innovation Center Fellowship** from Ministry of Education, Govt. of India

#	Commissioned Projects, Products & Product Ranges	Contribution
	Industry Accomplished Commercial Projects and Products, etc.	
1	Architectural Projects - IT offices, Houses, Resort, Commercial, etc. (No. of Completed Projects: 9)	Designed, detailed, supervised, project completed
2	Spaces - Offices, Commercial, Showrooms, Hospitals, Restaurants, Food courts, etc. (No. of Completed Projects: 16)	
3	New age office furniture solutions (range of office work stations, tables, meeting tables, reception table, CEO table, coffee table, etc.)	Designed, detailed, prototyped, roll out
4	Standalone alone OPAC product console	
5	RFID enabled self check-in/out smart product range for library automation	
6	RFID enabled bookdrop for library automation	
7	LIBSYS7 library management software user interface	Designed, detailed, tested, application (in team as team leader)
8	Enterprise resource planning software LSAcademia www.lsacademia.com	
9	e-Commerce portal www.lsnet.in	
10	Android app for e-Commerce portal www.lsnet.in (available on Google play store)	
11	Android app for ERP software LSAcademia (available on Google play store)	
12	RFID enabled LSmart product range for library automation	
13	RFID enabled realtime record keeping console	Designed, detailed, prototyped, roll out
14	Kiosk for NOKIA music phones	
15	WonderSkool Career Awareness Brand Identity and Applications (web/desktop)	Designed, detailed
16	Miscellaneous unlisted Projects and Products, etc.	

Patents / Design Regn.

- **Granted**: One; **In review**: Two

Students supervised

- **PhD Open Colloquium / Thesis submission done**: One
- **On going supervision**:
    - **Post Doctoral Fellow**: One
    - **PhD**: Four;
    - **JRF**: One
    - Masters Thesis: Four
- **Completed**: Masters Thesis: 16 and Masters Dissertation: 10

Swayam / NPTEL Courses

1. "Strategies for Sustainable Design": 2021-1972, 2022-2106, 2023-2601, 2024-2919
2. "United Nations Sustainable Development Goals": 2023-1280, 2024-1367 students

Courses taught

- Product Design
- Design for Sustainability
- Strategies for Sustainable Design
- UN Sustainable Development Goals
- Climate Change and Design Innovation
- FORM Explorations
- FORM Language
- Digital Heritage
- Elements & Principles of Design
- Thesis & Dissertation
- Design Research Seminar
- Automobile Design Explorations
- Environmental Exposure
- Thesis Project(s)

Research Projects

- Creating Digital Immersive Heritage Experience, Risk Assessment and Vernacular Architecture Analysis of Five Historically Significant Temple Marvels of Kashi - DST / Govt of India
- Creating Digital Heritage of Representative Architectural Marvels from Each State of North East India - DST / Govt of India
- Digital Immersive Heritage Experience (DIHE) to Create Virtual Reality Experience of Historically Important Places - Seed Grant / IIT Hyd
- Intervening On 'Building As A Product' and 'Habitation As A Service' in Contemporary Urban Settings For Adaptive Micro Habitation Design
- Micro Habitation in City of Hyderabad
- Parametric generative design automation for building design optimization
- Architectural heritage map of City of Hyderabad
- To evolve digital surfacing mechanism and design framework for autonomous vehicles

Schooling from

Jawahar Navodaya Vidyalaya (CBSE)

Hobbies

- Indian Classical Music - SPICMACAY Volunteer, Calligraphy, Swimming
- Designed over 75 posters on Environmental issues

Published & Presented Articles

- Sharma, Aman; Ji, Shiva. Linkages between Traditional Water Systems (TWS) and Sustainable Development Goals (SDGs): A case of Govardhan, India, **Social Sciences & Humanities Open**, Volume 9, 2024, 100816, ISSN 2590-2911, https://doi.org/10.1016/j.ssaho.2024.100816. (https://www.sciencedirect.com/science/article/pii/S2590291124000135)

- Kumar, Shylesh., Ji, Shiva. 2024. Adaptive Slicing for 3D Printing based on Load Concentration in 3rd International Conference on **Industry 4.0 and Advanced Manufacturing**, 11 - 12 Jan 2024, **Indian Institute of Science, Bangalore**, India

- Kumar, Shylesh., Ji, Shiva. 2024. Creating Digital Immersive Heritage Experience of Historically significant Architectural Structure in 3rd International Conference on **Industry 4.0 and Advanced Manufacturing**, 11 - 12 Jan 2024, **Indian Institute of Science, Bangalore**, India

- Sharma, A., Ji, Shiva. (2023). The Significance of Traditional Water Bodies on the Shaping of the Braj. National Conference on 75 Shades of Heritage at School of Planning and Architecture, Bhopal. 29 Sept - 01 Oct, 2023

- Chakraborty, S., Ji, Shiva. Heritage impact assessment of Adi Ganga Kalighat, Kolkata, India, towards SDG 11.4 and 8.9 for urban heritage. **Journal of Engineering and Applied Science**. 70, 102 (2023) **Springer** Nature. https://doi.org/10.1186/s44147-023-00269-7

- Pawar, T., Sharma, A., Ji, Shiva. (2023). Characteristic Development of Art Style and Identifying Proportions in Arju House of Ao Tribe in Nagaland. In: Chakrabarti, A., Singh, V. (eds) Design in the Era of Industry 4.0, Volume 3, pp 127–135. ICORD 2023. Smart Innovation, Systems and Technologies, vol 346, pp 127-135. **Springer**, Singapore. https://doi.org/10.1007/978-981-99-0428-0_11

- Mohapatra, S., Ji, Shiva., Burry, Jane. (2023). Indoor air quality analysis of 80 year old traditional house in Kalabgoor, Telangana, India. In: International Conference on Innovations in Clean Energy Technologies (ICET) 2023 organised by Energy Center, Maulana Azad National Institute of Technology, Bhopal, 08-10 Apr 2023. - **WON BEST PAPER AWARD (First Prize)!**

- Chakraborty, S., Ji, Shiva. (2023). Exploring Architectural Façade characteristics of Bag Bazar Street, Kolkata. In: Chakrabarti, A., Singh, V. (eds) Design in the Era of Industry 4.0, Volume 1, pp 49–59. ICORD 2023. Smart Innovation, Systems and Technologies, vol 343. **Springer**, Singapore. https://doi.org/10.1007/978-981-99-0293-4_5

- Chakraborty, S., Ji, Shiva. (2023). Urban Metamorphosis of Kolkata Through Visual Mapping (1690–1962). In: Chakrabarti, A., Singh, V. (eds) Design in the Era of Industry 4.0, Volume 2, pp 829–839. ICORD 2023. Smart Innovation, Systems and Technologies, vol 342. **Springer**, Singapore. https://doi.org/10.1007/978-981-99-0264-4_68

- Chakraborty, S., Ji, Shiva. (2023). Visualization Techniques for Visibility Graph Analysis in Virtual Reality for the Case of the Indian Institute of Technology, Hyderabad. In: Chakrabarti, A., Singh, V. (eds) Design in the Era of Industry 4.0, Volume 1,pp 941–951. ICORD 2023. Smart Innovation, Systems and Technologies, vol 343. **Springer**, Singapore. https://doi.org/10.1007/978-981-99-0293-4_75

- Pawar, T., Sharma, A., Ji, Shiva. (2023). Projection Mapping on Building Facade Using Augmented Reality. In: Chakrabarti, A., Singh, V. (eds) Design in the Era of Industry 4.0, Volume 1, pp 953–960. ICORD 2023. Smart Innovation, Systems and Technologies, vol 343. **Springer**, Singapore. https://doi.org/10.1007/978-981-99-0293-4_76

- Sharma, A., Pawar, T., Ji, Shiva. (2023). Exploring Site-Responsive Characteristics in the Tribal Architecture of Northeastern Indian States (Meghalaya, Nagaland). In: Chakrabarti, A., Singh, V. (eds) Design in the Era of Industry 4.0, Volume 2, pp 1041–1051. ICORD 2023. Smart Innovation, Systems and Technologies, vol 342. **Springer**, Singapore. https://doi.org/10.1007/978-981-99-0264-4_85

- Sridharan, K., Ji, Shiva. (2023). Climate Change Impacts on the Built Heritage of Hyderabad. In: Chakrabarti, A., Singh, V. (eds) Design in the Era of Industry 4.0, Volume 2, pp 1087–1101. ICORD 2023. Smart Innovation, Systems and Technologies, vol 342. **Springer**, Singapore. https://doi.org/10.1007/978-981-99-0264-4_89 - **WON BEST PAPER AWARD!**

- Sridharan, K., Pawar, T., Sharma, A., Ji, Shiva. (2023). The Architecture of the Ao Nagas: Culturally Deep-Rooted to Venerate and Conserve the Local Biodiversity. In: Chakrabarti, A., Singh, V. (eds) Design in the Era of Industry 4.0, Volume 2, pp 1115–1127. ICORD 2023. Smart Innovation, Systems and Technologies, vol 342. **Springer**, Singapore. https://doi.org/10.1007/978-981-99-0264-4_91

- Sridharan, K., Sharma, A., Ji, Shiva. (2023). Cultural Heritage Conservation Through the Framework of UNSDG. In: Chakrabarti, A., Singh, V. (eds) Design in the Era of Industry 4.0, Volume 2, pp 1129–1145. ICORD 2023. Smart Innovation, Systems and Technologies, vol 342. **Springer**, Singapore. https://doi.org/10.1007/978-981-99-0264-4_92

- Sharma, A., Pawar, T., Ji, Shiva. (2023). Solar Passive Design Features in the Vernacular Architecture of Telangana. In: Chakrabarti, A., Singh, V. (eds) Design in the Era of Industry 4.0, Volume 2, pp 687–696. ICORD 2023. Smart Innovation, Systems and Technologies, vol 342. **Springer**, Singapore. https://doi.org/10.1007/978-981-99-0264-4_57

- Krishna, E.A., Mohapatra, S., Ji, Shiva. (2023). Furniture Design: Reimagining a Designer's Workstation Through an Ergonomic Lens. In: Chakrabarti, A., Singh, V. (eds) Design in the Era of Industry 4.0, Volume 1, pp 315–324. ICORD 2023. Smart Innovation, Systems and Technologies, vol 343. **Springer**, Singapore. https://doi.org/10.1007/978-981-99-0293-4_25

- Avinash, P.K., Mohapatra, S., Ji, Shiva. (2023). The Transition of Food Grain Purchasing Systems in Urban Gated Communities Towards a Circular Economy in India. In: Chakrabarti, A., Singh, V. (eds) Design in the Era of Industry 4.0, Volume 2, pp 1185–1194. ICORD 2023. Smart Innovation, Systems and Technologies, vol 342. **Springer**, Singapore. https://doi.org/10.1007/978-981-99-0264-4_96 - **WON BEST PAPER AWARD!**

- Sharma, A., Mohapatra, S., Pawar, T., Ji, Shiva. (2023). Aligning the Criteria of UNSDG's Goal 11 with Vernacular Habitats of North-East India. In: Chakrabarti, A., Singh, V. (eds) Design in the Era of Industry 4.0, Volume 2, pp 1205–1213. ICORD 2023. Smart Innovation, Systems and Technologies, vol 342. **Springer**, Singapore. https://doi.org/10.1007/978-981-99-0264-4_98

- Pawar, T., Sharma, A., Ji, Shiva. (2022). *Heritage Representation of Kashi Vishweshwar Temple at Kalabgoor, Telangana with Augmented Reality Application Using Photogrammetry*. In: Mudenagudi, U., Nigam, A., Sarvadevabhatla, R.K., Choudhary, A. (eds) Proceedings of the Satellite Workshops of ICVGIP 2021. Lecture Notes in Electrical Engineering, vol 924. **Springer**, Singapore. https://doi.org/10.1007/978-981-19-4136-8_3

- Chakraborty, S., Ji, Shiva. (2022). *Evolution of Bagbazar Street Through Visibility Graph Analysis (1746–2020)*. In: Mudenagudi, U., Nigam, A., Sarvadevabhatla, R.K., Choudhary, A. (eds) Proceedings of the Satellite Workshops of ICVGIP 2021. Lecture Notes in Electrical Engineering, vol 924. **Springer**, Singapore. https://doi.org/10.1007/978-981-19-4136-8_5

- Sharma A., Ji, Shiva., Varma, A. (2022). E*nhancing Water Resilience by Rejuvenation of Traditional Water Management Systems Through Community Participation: A Case of Water Systems of Govardhan, Mathura, India*. International Conference on Climate and Weather- related Extremes by IIT Roorkee 19-20 Sept 2022

- Mohapatra, S., Ji, Shiva., Burry, J. (2022). *Investigating Indoor Air Quality of Educational Cum Residential Campus – A Case of Indian Institute of Technology, Hyderabad*. Mathura, India. International Conference on Climate and Weather- related Extremes by IIT Roorkee 19-20 Sept 2022

- Chakraborty, S., Ji, Shiva. (2022). *A Sustainable Approach for the Urban Sprawl of Kolkata (Circa 1690–2020)*. In: Chakrabarti, D., Karmakar, S., Salve, U.R. (eds) Ergonomics for Design and Innovation. HWWE 2017. Lecture Notes in Networks and Systems, vol 391. **Springer**, Cham. https://doi.org/10.1007/978-3-030-94277-9_100
- S. Chakraborty and Shiva. Ji, 2022. *Space syntax analysis of Total connectivity through the evolution of Bag Bazar Street, Kolkata (1746-2020)*, **IEEE** International Conference on Signal Processing, Informatics, Communication and Energy Systems (SPICES), 2022, pp. 513-518, doi: 10.1109/SPICES52834.2022.9774258
- Ravishankar S., Ji Shiva. 2021 *Bio-architecture of Living Root Bridges*. Design for Tomorrow—Volume 1. Smart Innovation, Systems and Technologies, vol 221. pp 881-887. **Springer**, Singapore. https://doi.org/10.1007/978-981-16-0041-8_72
- Ravishankar S., Ji Shiva. 2021 *Exploring Two Housing Typologies in the Vernacular Architecture of Assam*. Design for Tomorrow—Volume 1. Smart Innovation, Systems and Technologies, vol 221. pp 949-959. **Springer**, Singapore. https://doi.org/10.1007/978-981-16-0041-8_78
- Ravishankar, Srinidhi., Ji, Shiva. 2021. Influence of Culture and Art in the Tribal Architecture of Meghalaya. Smart Innovation, Systems and Technologies 223, Design for Tomorrow–Volume 3, pp 775-782. **Springer**, Singapore. https://doi.org/10.1007/978-981-16-0084-5_63
- Ravishankar, Srinidhi., Ji, Shiva. 2020. *Evolution of Sustainable Vernacular Architecture in Assam* at International Seminar on Recent Advances in Science and technology, NEAST - presented 18 Nov 2020
- Kumar, Shylesh., Ji, Shiva. 2020. *Exploring 3D Modelling of Architectural Plan using Camera Tracing*. Science and Technology Journal Vol. 8 Issue 2 July 2020 ISSN: 2321-3388, pp 40-43. https://doi.org/10.22232/stj.2020.08.02.07
- Mohamed, Fathima., Ji, Shiva. 2021. *Post Occupancy Evaluation of an Institute Hostel Building- IIT Hyderabad, India*. ISBN : 978-93-90211-61-6, pp 116-123. at International Conference on Resilient and Livable City Planning -RLCP2020, organized by School of Planning and Architecture Vijayawada, 10-13 February 2021
- Malviya, Manoj., Ji, Shiva. 2021. *Exploring Form and Visual Characteristics of 12 Jyotirlingas* at International Conference on Research into Design, organized by Indian Institute of Science, Bangalore held at IIT Bombay, 7-10 January 2021
- Ravishankar, Srinidhi., Ji, Shiva. 2020. Architecture without Architects' in North East India at International Conference on Sustainability and Equity Digital Society, KIIT Bhubaneswar - presented 24 Nov 2020
- Ji Shiva., Punekar R.M. 2019. *Intervening On 'Building As A Product' and 'Habitation As A Service' in Contemporary Urban Settings For Adaptive Micro Habitation Design – Indicative Global Case Studies*. ISBN: 978-88-95651-26-2, pp 1123-1128. Edizioni POLI.design, Milano, Italy
- Ji Shiva., Punekar R.M. 2019. *Exploring Attributes of Vernacular Assam Type House Design Techniques in Contemporary Setting*. In: Reddy B., Mani M., Walker P. (eds) Earthen Dwellings and Structures. Springer Transactions in Civil and Environmental Engineering. pp 419-433 **Springer**, Singapore
- Ji Shiva., Punekar R.M. 2019. *The Ethno-Cultural Influences on "Assam Type" Building Typology—A Case of Barduwa, Assam*. In: Chakrabarti A. (eds) Research into Design for a Connected World. Smart Innovation, Systems and Technologies, vol 134, pp 15-26. **Springer**, Singapore
- Ji Shiva., Punekar R.M. 2019. *A Critical Study of Choke Point in Sustainable Recycling of Household Waste in an Assamese Village Setting*. In: Chakrabarti A. (eds) Research into Design for a Connected World. Smart Innovation, Systems and Technologies, vol 135, pp 165-173. **Springer**, Singapore
- Ji, Shiva., Punekar, Ravi M., 2018. *Paradox Of Intensive Orographic Rainfall And Challenges Of Water Scarcity In North-East India - A Participatory Planning Approach For Sustainable Community*. 9Th International Conference On Sustainable Built Environment 2018 (ICSBE2018), University of Peradeniya, Kandy, Sri Lanka
- Ji, Shiva., Punekar, Ravi M., 2018. *Assessment of Impact of Infrastructural Growth and Development on Bio-Diversity in Indian Context*. CESDOC 2018, 2nd International Conference on Sustainability, Assam Engineering College, Guwahati
- Ji, Shiva., 2018. *Architecture as a Service (AaaS) : Micro Habitation Planning with Sustainable Product Service System Approach*. A Three Day National Workshop on Workshop on Integration of Art & Modern Technology in Architecture, Mizoram University, Aizawl
- Ji, Shiva., Punekar, Ravi M., 2018. *Exploring the Adequacy of SA Methods in Addressing Impact of Buildings on Bio-Diversity*. International Symposium on Biodiversity and Biobanking (Biodiverse 2018). Association for DNA fingerprinting and Associated DNA Technology (ADNAT) and IIT Guwahati.
- Ji Shiva., Banerjee S., Punekar R.M. 2017 *Assessment of GRIHA and LEED on the Parameters of Sustainable Design and Development of Buildings*. In: Chakrabarti A., Chakrabarti D. (eds) Research into Design for Communities, Volume 2. ICoRD 2017. Smart Innovation, Systems and Technologies, vol 66. pp 179-188. **Springer**, Singapore
- Majumdar P., Ji Shiva., Banerjee S. 2017 *Consumer Preferences and Value Proposition Disconnect—Assam Rattan and Bamboo Furniture Industry*. In: Chakrabarti A., Chakrabarti D. (eds) Research into Design for Communities, Volume 1. ICoRD 2017. Smart Innovation, Systems and Technologies, vol 65. pp 665-677. **Springer**, Singapore
- Ji, Shiva 2017. *Exploring Future Water Situation and Retention Possibilities in Gorges of Aizawl / Mizoram*. Section of Engineering Sciences, 104th Indian Science Congress 2017. Proceedings of the Section of Engineering Sciences, Page 25.
- Ji, Shiva., Punekar, Ravi M., 2016. S*ustainability Assessment Method of GRIHA for Sustainable Built Environment: A Review Based on a Design Perspective*. Science & Technology Journal (ISSN: 2321 3388) [http://doi.org/10.22232/stj.2016.04.02.11] Page 156-163.
- Ji, Shiva., Punekar, Ravi M., 2016. *Ceramic-ware along the Ancient Silk Trade Route—A Short Study of Cross-Cultural Influences on Product Form*. Science & Technology Journal (ISSN: 2321 3388) [http://doi.org/10.22232/stj.2016.04.02.02] Page 84-96.
- Ji, Shiva., Punekar, Ravi M., 2016. *Design for Sustainability - A Participatory Approach for a Rural Community in Assam*. International Conference on The Eastern Himalaya III: When the Mountains Move and Waters Rise: Coping with Earthquakes and Flooding – The Health and Housing Dimensions. Centre for North East Studies and Policy Research, JMI - New Delhi
- Punekar, Ravi M., Ji, Shiva., 2016. *The Silk Route Trade and its Cross-Cultural influence on Indian Industrial crafts practices*. Making Trans/national Contemporary Design History ICDHS 2016 Taipei | The 10th International Conference on Design History and Design Studies (ICDHS)
- Ji, Shiva. 2015. *India's Rurban Spurt - Towards Self Sustaining Micro Cities / Living Units and Responsive Policies & Design*. International Conference on Creativity and Innovation at Grassroots 3, IIM Ahmedabad.
- Punekar, Ravi M., Ji, Shiva., 2015. *Cross Cultural Infusion on Product Form - A Study of Changsha Pottery vis-a-vis Indian Pottery & Metalware along the Silk Trade Route*. New Silk Road Program, School of Design, Hunan University, China.
- Ji, Shiva. 2014. *Digital India & Design*. USID Foundation and Indian Institute of Technology Kanpur.
- Ji, Shiva. 2014. *Bird Feeder - The Contemporary Relevance of Chabutaros or Bird Feeders is Inconspicuous but Acknowledged as a Significant Urban Element with the Possibility of Design Intervention*. Indian Architect & Builder [ISSN: 0971-5509] Vol.28(3), Page 72-75.
- Ji, Shiva. 2011. *Green Building Materials and their common use in everyday life*. Center for Environmental Planning and Training University Ahmedabad [RG DOI: 10.13140/RG.2.1.1635.4323]
- Ji, Shiva. 2003. *A Study for the Conscience of Agrarian and Industrialized Age*. Principia - ZH College of Engineering and Technology, AMU Aligarh.

- **FDP Resource Person** on "Architecture Research Writing: Using Case Study Approach" in Research Methods and Techniques in Architecture and Planning at Sri Sri University, Cuttack, 08 Jan 2024
- **Invited Key Speaker** at Distributed Innovation Design International Dialogue 2023 at **Wuhan University of Technology, China**, titled *"Design Strategies for Social Insights,"* 16-17 December 2023.
- **FDP Resource Person** on "Research Writing and Analysis in Architecture: using Case Study Approach" in Research Paper Writing Workshop at BMS College of Architecture, Bengaluru. 04 Oct 2023
- **Resource Person** on "Sustainability Design Concepts for Vehicles: The LCA approach" at 5 Days Symposium cum Workshop at **IIT Hyderabad** on **Fundamentals and Applied Skills for Futuristic Vehicles**, 02 July 2023
- **Expert Lecture** on *"Aspects around various domains of Design for Sustainability Ethics"* at International Joint Design Course in Design Party 2023, 19 June 2023 organised by **Wuhan University of Technology, China**
- **Expert Lecture** on *"Research Literature Study through Case Study Approach: Advantages and Disadvantages"* at GITAM School of Architecture, Hyderabad, 10 June 2023
- **Workshop Chair** in "*Digital Technology of Photogrammetry and its Applications in Heritage*" at ICoRD'23, **IISc Bangalore**, 11 Jan 2023
- **FDP Expert Lecture** in National Online Faculty Development Program, titled, "*The Case Study Approach: Advantages and Disadvantages*" by **CoA-TRC Bhopal** and Chitkara University, Chandigarh, 09 November 2022
- **Industry Guest Lecture** titled, Design Thinking & New Age Applications of Technology in Design, at **VIT-AP** School of Social Sciences & Humanities, 17 Sept 2022
- **FDP Expert Lecture** in National Online Faculty Development Program, Interpreting and Main-Streaming Living Indian Urban Heritage - titled *"Technologies for Digital Documentation and Digitisation *Heritage *Digital techniques and tools"* by **CoA-TRC Bhopal** and SSMS College of Architecture, Pune, 16 Sept 2022
- **FDP Expert Lecture** in National Online Faculty Development Program, titled "*Correlational Research: Methods & Techniques*" by **CoA-TRC Bhopal** and Indira Gandhi **Delhi Technical University** for Women, Delhi, 02 Aug 2022
- **Expert Lecture** in Tech-emerge Resilience India Challenge Webinar, titled *"Design Strategies for Social Innovation,"* funded by **World Bank** and **ADPC**, organized by ADPC & RIKA, 31 March 2022
- **Expert Lecture** in MDes235 **Design Studies** under Design Samvad Lecture Series at **SPA Bhopal**, titled *"SDG 12 — Approaches for Design,"* 19 Jan 2022
- **FDP Expert Lecture** in National Online Faculty Development Program, titled "*Correlational Research: Methods & Techniques*" by **CoA-TRC Bhopal** and Indira Gandhi **Delhi Technical University** for Women, Delhi, 02 Aug 2022
- **FDP Resource Person** at Faculty Development Program in Amity School of Architecture and Planning at Amity University, Jaipur titled *"Localization of SDG 11: for Indian Cities and Communities - Approaches for Increasing People's Participation in Urban Planning,"* 07 January 2022.
- **Key Speaker** at Distributed Innovation Design International Dialogue 2021 at **Wuhan University of Technology, China**, titled *"Climate Change and Innovation in Design,"* 25-26 December 2021.
- **Key Speaker** at Workshop in Short Term Training Programme (STTP) under AICTE on "Design Thinking" at GRIET, Hyderabad, titled *"Design Thinking and Innovation,"* 16 December 2021.
- **Expert Session** on Design and Society at **NIFT Mumbai**. "*Design, Social Approach & Impact: Concept behind Sustainable & Green Design AND Traditional Practices of Sustainable Design*" 23 September 2021
- **Resource Person** at short term certificate course cum workshop under SPARC Scheme of Ministry of Education, Govt. of India on "*Responsible Design for Social & Environmental Change"* at **BHU Varanasi**, 22 June 2021
- **Resource Person** at short term certificate course cum workshop under SPARC Scheme of Ministry of Education, Govt. of India on *"Aspects around various domains of Design for Sustainability Ethics - Sustainability for Social Design"* at **BHU Varanasi**, 18 June 2021
- **FDP Resource Person** at AICTE Sponsored Short Term FDP Course under Opportunities & Challenges in Sustainable Construction Practices titled "*Vision of New India and our Preparedness for Sustainability Assessment of Built-Environments*" at **IIT BHU Varanasi**, 01-06 Feb 2021
- **Workshop Chair** titled *Design with One Sustainable Strategy at A Time : "Design for Re-Purposability"* held at International Conference on Research into Design, organized by **Indian Institute of Science, Bangalore** held at **IIT Bombay**, 7-10 January 2021.
- **Key Speaker** at Distributed Innovation Design International Dialogue 2020 at **Wuhan University of Technology, China**, titled "*Need for Innovation in Design Process,*" 26-27 December 2020.
- **Key Speaker** during Urban Thinkers Campus 2020 talk on Think innovAte aCT For Urban CLimate Change titled "*Climate Change and Design Innovation,*" 09 Dec 2020, **VNIT Nagpur**
- **FDP Key Speaker** at e-FDP Parametric, Digital Design & Artificial Intelligence, titled "*Transformation of Visual Perceptual Spaces through Virtual Reality - its Applications in Design,*" 22 June 2020, FoA, APJ AKTU, Lucknow
- **Invited Talk** at Probabilistic Prediction Of Earthquakes And Sustainability Of Heritage Structures Under High Seismic Activity, 25 Feb 2020 at KS School of Engineering and Management, Bangalore
- **Panelist** at International Heritage Symposium and Exhibition (IHSE) 15-16 Jan 2020, **National Museum, New Delhi** organized by **DST** and **IIT Delhi**
- **Keynote Address** at Virtual Reality and Augmented Reality Center of Excellence, **IIT Bhubaneswar**, 12 Jan 2020
- **Speaker** at UX India 2019 on 10 Sept 2019 at Hyderabad International Convention Center
- **Gave Talk** at Conduent lab (formerly Xerox Research), Bangalore on Industry 4.0 and Design with Empathy : Integration of Technology and Inclusive Design - Emerging Contexts, 21 Aug 2019
- **Session Chair** in International Conference on Sustainable Built Environment 2018 (ICSBE2018), on 15 Dec 2018 at **University of Peradeniya, Kandy, Sri Lanka**

Sessions Organized

- **G20 India Presidency** Panel Discussion in collaboration with Akashvani (All India Radio) on **Digital Transformation and Digital Literacy** at IIT Hyderabad on 14 August 2023
- 1st **Symposium on Confluence of Heritage, Climate and Technology** at Salar Jung Museum on the **World Heritage Day** in collaboration with INTACH and Salar Jung Museum, Hyderabad on 18 April 2022
- **DfS workshop** on *Sustainable Design Thinking - Research Reflections and Teaching Cases* by **Dr Shaohua Han** from **Wuhan University of Technology, China**, under course Strategies for Sustainable Design (DS5253), 11 March 2022
- Urban Thinkers Campus 2020 talk on Think innovAte aCT For Urban CLimate Change titled "*Climate Change and Design Innovation,*" 09 Dec 2020, with **VNIT Nagpur**