

'Design for Sustainability' - Architecture / Industrial Design & - Research

- Present role(s)**
- * **Assistant Professor**
July 2018 - (present)
Department of Design
Indian Institute of Technology, Hyderabad - 502285, India
 - * Recommended for **DST funded Research Project** : (₹5 million) 2018-21
 - * **LeNSin Project Partner** - (LeNS Polimi, Italy, EU)
- Contact**
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shivaji@iith.ac.in arshivaji@gmail.com
- * **Google Scholar** page <https://goo.gl/iKxebA>
 - * **ResearchGate** page https://www.researchgate.net/profile/Shiva_Ji
 - * **LinkedIn** page <https://www.linkedin.com/in/arshivaji>
- Areas of Interest**
- Design for Sustainability | Sustainability Assessment | LCA | Architecture Theory
Innovation by System Design | New Age Products/Services
- Education**
- * **Doctor of Philosophy**
Dec 2014 - (pursuing) Under 'Design Innovation Center' - MHRD (Course work CPI: 10.00)
Dept. of Design, Indian Institute of Technology, Guwahati
 - * **Post Graduate Diploma Programme in Design (Master of Design)**
2005 - 2007 (CSGPA: 7.59)
National Institute of Design, Ahmedabad
 - * **Bachelor of Architecture**
1999 - 2004 (73.8%)
Government College of Architecture (now FoA, APKTU), Lucknow
 - * Professional Certificate Course on Environment & Sustainable Development
2011 - 2011 (71.6%)
CEPT University, Ahmedabad
 - * Certificate Course of Sustainability in Practice (online)
2014 - 2014 (83.5%)
PennDesign, University of Pennsylvania, Pennsylvania
- Parallel Education**
- * **Master of Business Administration**
2011 (62.0%)
Indira Gandhi National Open University, New Delhi
- Academic Experience**
- 2 Years 1 Month**
Department of Planning & Architecture, Mizoram University, Aizawl - 796004, India
- Industry Experience**
- 8 Years & 7 Months*** (Detail in "My Industry Experience & Executed Projects/Products")
In capacity as (an employee & individual professional):
- Completed various projects in Architecture (Residential, Commercial, etc.)
 - Over 37 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**
- 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 India Habitat Center, New Delhi by National Design Business Incubator, Ahmedabad
 - All India Rank: **36** in **CEED-2005** conducted by **IIT - Mumbai**
 - Received **Ford Foundation Scholarship**
 - Received **Design Innovation Center Fellowship** from MHRD, Govt. of India
- Affiliations**
- Registered Architect with Council of Architecture, India
 - Registered member with Green Building Certification Institute, USA
 - Life member with Indian Science Congress Association, India

Published & Presented Articles

1. Ji, Shiva., Punekar, Ravi M., 2018. Exploring Attributes Of Vernacular Assam Type House Design Techniques In Contemporary Setting. International Symposium on Earthen Structures (ISES2018). Center for Sustainable Technologies, Indian Institute of Science, Bangalore
2. 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
3. Ji, Shiva., Punekar, Ravi M., 2018. Exploring the Adequacy of SA Methods 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.
4. Ji, Shiva. Banerjee, Sharmistha, Punekar, Ravi M., 2017. Assessment of GRIHA and LEED on the parameters of Sustainable Development. 6th International Conference on Research into Design 2017 [**Springer** 'Research into Design for Communities, Volume 2, Smart Innovation, Systems and Technologies 66'. ISSN 2190-3018, ISBN 978-981-10-3520-3, 978-981-10-3521-0 (eBook), DOI 10.1007/978-981-10-3521-0_15] Page 179-188.
5. Majumdar, Prarthana., Ji, Shiva., Banerjee, Sharmistha., 2017. Disconnect between consumer preferences of urban buyers and value proposition of cane and bamboo furniture makers of Assam. 6th International Conference on Research into Design 2017 [**Springer** 'Research into Design for Communities, Volume 1, Smart Innovation, Systems and Technologies 65'. ISSN 2190-3018, ISBN 978-981-10-3517-3, ISBN 978-981-10-3518-0 (eBook), DOI 10.1007/978-981-10-3518-0_58.] Page 665-677.
6. 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.
7. Ji, Shiva., Punekar, Ravi M., 2016. Sustainability 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.
8. 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.
9. 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
10. 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)
11. 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.
12. 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.
13. Ji, Shiva. 2014. Digital India & Design. USID Foundation and Indian Institute of Technology Kanpur.
14. 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.
15. 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]
16. Ji, Shiva. 2003. A Study for the Conscience of Agrarian and Industrialized Age. Principia - ZH College of Engineering and Technology, AMU Aligarh.
17. Ji, Shiva. 2011. Book: "Easy Construction Manual". For internal circulation among construction company to deliver design and manufacturing/construction details, etc. (Not yet published).

► Publication of articles in acclaimed magazines like "A+D" and "Indian Architect and Builder".

Articles Accepted / Submitted

18. Ji, Shiva., Punekar, Ravi M., 2018. A Critical Study of Choke Point in Sustainable Recycling of Household Waste in an Assamese Village Setting. International Conference on Research into Design 2019. Indian Institute of Science, Bangalore (*Accepted*)
19. Ji, Shiva., Punekar, Ravi M., 2018. The Ethnocultural Influences on 'Assam Type' Building Typology - A case of Barduwa, Assam. International Conference on Research into Design 2019. Indian Institute of Science, Bangalore (*Accepted*)
20. 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 (*Submitted*)
21. Ji, Shiva. 2018. Investigating Recurring Depreciation in Precipitation using Data-Mining in Mizoram. International Water Association's 'Water Research' Journal [ISSN: 0043-1354] by Elsevier (*Submitted*)
22. 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 (ICS BE), University of Peradeniya, Peradeniya, Sri Lanka (*Submitted*)

Articles in Working

- Ji, Shiva. Exploring Design for Sustainability Pedagogy in Higher Education using a Field-based and Cross-Disciplinary Approach. (in working)
- Ji, Shiva. Seasonal cultural tourism and craft design, development and its sustenance in today's context
- Ji, Shiva. Problem of water dissipation from soil water soak pits in monsoon in high water table areas of Assam and probable local solutions
- Ji, Shiva. Sustainable Business Models for Two Differently Sized Handicraft Industries and the Cotton Handloom Industry in Rural Assam
- Ji, Shiva. Dynamics of a self sustaining habitat of Assam valley and model planning
- Ji, Shiva. Assam type house and its modern relevance in context of seismic zone-V region and building designs
- Ji, Shiva. Glass as a building material - a property & application based analysis for sustainability check
- Ji, Shiva. Book: "Design for Sustainability - a Preamble". (in writing).

Industry Accomplished Commercial Projects and Products, etc.

#	Projects, Products & Product Ranges	Contribution
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.lsadademia.com	
9	e-Commerce portal www.lsnnet.in	
10	Android app for e-Commerce portal www.lsnnet.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.	

Software Skills

AutoCAD, SketchUp, KeyShot, CorelDraw, Photoshop, InDesign, Illustrator, Rhinoceros, etc. (macOS / Windows)

Hobbies

- Listening Instrumental Music, Calligraphy, Swimming, Traveling
- Designed over 75 posters on Environment related issues.

References

- **Prof. Deepak John Mathew**
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Personal Info

- Date of birth: 01 January 1982
- Gender: Male
- Marital status: Married