



**SHARDA  
UNIVERSITY**  
*Beyond Boundaries*  
[www.sharda.ac.in](http://www.sharda.ac.in)

# **SHARDA SCHOOL OF DESIGN, ARCHITECTURE & PLANNING**



**AI Application in  
Architecture & Design  
NV41002**

**VALUE ADDED COURSE  
BROCHURE 2025-26**

## ABOUT THE UNIVERSITY

Sharda University is a leading NAAC A+ educational institution based out of Greater Noida, Delhi NCR. A venture of the well-known Sharda Group of Institutions (SGI), The University has established itself as a high-quality education provider with major focus on holistic learning and imbining competitive abilities in students.

## ABOUT SCHOOL

Sharda School of Design, Architecture & Planning (SSDAP) prepares the students for the real world they can make a lasting impact in designing the future and have an exciting and rewarding career. The students at SSDAP have crafted the world as renowned landscape architects, urban planners, urban designers, and history preservationists.

The school's nationally accredited degree programs, world-class faculty, and state-of-the-art facilities connect to provide the students with a broad range of opportunities in both the public and private sectors of the industry. SSDAP leads the students through both practical and theoretical learning until they can master in an innovative design that reflects art and science.

The school has forged numerous connections and partnerships with schools and professionals in countries around the world. The faculty comprises academicians from internationally renowned universities such as the School of Planning & Architecture, B.I.T Mesra, National Institute of Fashion Technology (NIFT), Sheffield University, Nottingham Trent University and Delhi College of Art, University of Delhi as well as leading Architectural practitioners and Planning professionals from all over the country.

## ABOUT DEPARTMENT

Department of Art & Design established in 2012 at Sharda University, as a multi-disciplinary department has been working tirelessly towards creating global design citizens. Holding their hands, driving them towards innovation through future aligned design thinking & design process, with continuous industry interactions through experiential project-based learning. Its aim is to establish Sharda as a premier center of Design education, where Students are surrounded by an environment of design intuitively based on strenuous research with an aim of developing a new generation of designers, who not only fill the gap of creative entrepreneurs but integrate social and environmental concern to become responsible designers with a mission of

- **Industry-based learning** within the classroom projects as the core of practical teaching, which will include continuous interaction with industries and industry experts to train students as confident Professionals for the future who are initiators & leaders.
- **Related Study Program (RSP)** as research projects based on complete business model by studying, analyzing crafts, connecting business with social impacts while exploring to the maximum and putting them on the forefront of the competitive design industry. Create craft-based design patents from RSPs as well as convert craft documentation into Publications & sources of innovation, combining craftsmanship with technology.
- **Sharda Design Center (SDC)**, used as a vehicle to connect industry with students, business with fresh minds and an instrument to establish Sharda as a multi-disciplinary design interaction center.

### Vision of Department

- To be at the Centre of Excellence in Art & Design Education to shape future-ready professionals catering the needs of the design industry and the society

### Mission of Department

- To create a global center of innovation and excellence in art and design industry.
- Promoting in-depth research in art and design studies for sustainable practices.
- To inculcate critical, analytical, cognitive, speculative and creative problem-solving skills.
- To develop a sense of social and professional ethics and values.
- To develop the essence of craftsmanship, future technological and vocational skills.

# About Value Added Course for Session 2025-2026

In accordance with the University requirement for Value Added Courses, the Department of Art & Design intends to conduct these courses in collaboration with Sharda Skills

**“AI AApplication in Architecture & Design” NV41002 for 5th Semester, 3rd year students pursuing Bachelors of Design and BVA respectively.**

## COURSE OUTCOMES

- CO1: Recognize AI’s impact across multiple design disciplines.
- CO2: Apply AI tools to visualize creative outputs for different domains.
- CO3: Evaluate and refine AI-generated outputs critically.
- CO4: Understand domain blending and cross-functional design strategies using AI.
- CO5: Produce visual outputs, concepts, and presentation material with tool support.

### AI –APPLICATION IN ARCHITECTURE & DESIGN (NV41002)

Outline syllabus		
WEEK	CONTENT	Duration Hrs.
18 July 2025	<b>AI for Moodboards &amp; Inspiration Curation</b>	2
25 July 2025	Generating AI-powered moodboards across domains Prompt banks for design ideation (e.g., colors, textures, concepts) Fashion: Trend-based color boards Communication: Branding palette ideation Interior: Material + texture boards Visual Arts: Theme/genre-based concept boards Architecture: Site inspiration and form vocabulary	2
01 Aug 2025	Hands-on Tools: Khroma, Canva, ChatGPT, Pinterest + AI integrations	2
08 Aug 2025	<b>Visual Composition &amp; Layout Generation with AI</b>	2
22 Aug 2025	AI for layout thinking: grids, balance, focal points Fashion: Lookbook page designs Communication: Poster and visual hierarchy testing Interior: Room zoning visualizations Visual Arts: Framing and compositional experiments Architecture: Conceptual site layout prompts	2
29 Aug 2025	Hands-on Tools: Canva AI, DALL·E, Planner5D, Morpholio	2
05 Sep 2025	<b>Material, Texture, and Pattern Generation</b>	2
12 Sep 2025	Exploring generative surface design Fashion: Fabric prints and surface embellishment Communication: Backgrounds, textures in posters Interior: Flooring, wall finishes, curtain/textile textures Visual Arts: Abstract/realistic texture layering Architecture: Facade pattern generation	2
19 Sep 2025	Hands-on Tools: DALL·E, RunwayML, Khroma	2
26 Sep 2025	<b>Storytelling and Concept Communication with AI</b>	2
03 Oct 2025	Using AI for narration, visual sequencing, and framing messages Fashion: Story-based collection boards Communication: Campaign storyline visualization Interior: Design narration boards Visual Arts: Illustrated visual tales Architecture: User journey and urban experience walkthrough	2
10 Oct 2025	Hands-on Tools: ChatGPT, Canva, RunwayML, Midjourney (demo)	2
17 Oct 2025	<b>Ethics, Bias &amp; Creative Decision Making in AI</b>	2
31 Oct 2025	Understanding bias in AI tools, aesthetic stereotypes, and copyright Reflective analysis across domains Fashion: Cultural misrepresentation, fairness in design Communication: Misinformation & design integrity Interior: Functionality vs. aesthetics	2
07 Nov 2025	Visual Arts: Originality, authorship Architecture: Social equity in spatial AI use	2
14 Nov 2025	Hands-on Activities: AI bias detection tasks, critique panels, design ethics journal	2

## FACULTY PROFILE



**Nishant Chaturvedi**  
**Technical Trainer (Sharda Informatics)**

More than 15 years of experience in designing, development, debugging and analyzing of large amount of data and implementation of software applications.

I hold a B.Tech. in Information Technology from UPTU and MTech. from BITS Pilani. I have worked in various product based and service-based companies. Some of my past organizations are HCL, Ericsson and Globallogic.

My past experience is mostly into Data Science and Machine Learning. My last engagement was with HCL as Senior Manager in Analytics and the job profile was to get real-time insights into user interactions and measure and analyze performance to drive customer engagement using Natural Language Processing.



**Girish Kumar Bharati**  
Assistant Professor, Art & Design  
girish.bharati@sharda.ac.in

With over 12 years of immersive involvement in the design sector, he possesses a profound reservoir of expertise and creativity that he infuses into every project he undertakes. Holding a Master's degree in Social Design from Ambedkar University, New Delhi and a Bachelor's degree in Textile Design from NIFT, Gandhinagar.

During his tenure as a UI/UX Designer at Dew Solutions, he played a pivotal role in shaping projects ranging from website UI creation to app UI migration. At Stamp (Schoolnet), his responsibilities as an AMHSSC Coordinator involved overseeing assessment processes with precision and diligence.

As a Designer at Rosanature and Eco Tasar Silk, he meticulously interpreted client visions, innovative designs in collection making, and fostered invaluable relationships with esteemed buyers. Moreover, his contributions at Jharcraft, underscore his dedication to community empowerment through initiatives for handloom weaver development.

Whether designing motif libraries or delving into research on traditional crafts, he consistently strives to push boundaries and create impactful experiences in the realm of design.

## FACULTY PROFILE



### **Pallavi Sharma**

Assistant Professor, Art & Design

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More than 12 years of experience in Architecture in Design . Bachelor in Architecture, Master in Landscape Design, Post Graduation in UI/UX Design and pursuing PhD. in Sustainability. She has Published Research Paper in Systematic review on UHI studies In “Advances in 21 st Century Human Settlements” (Springer, Scopus) . Also, Civil Engineering and Architecture (HRPUB) (Scopus Q2) (Published) Pallavi Sharma, Nithiyanandam Yogeswaran, Ramkishore Singh , “Longitudinal Study of Urban Heat Island Phenomena in Rapidly Developing Cities: The Case of Gurugram,” Civil Engineering and Architecture, Vol. 13, No. 4, pp. 2862 - 2875, 2025. DOI: 10.13189/cea.2025.130405. Published Research Paper in Creative Design for Sustainability in UI/UX: A Holistic Approach Research Paper in International conference proceedings on Assessment of the temperature elevations in rural areas of Delhi NCR region (Scopus). Published Research Paper in “Ambient Science” conference proceedings on Modelling the link between GW depletion and UHII (WOS). Published paper on Literature Review Paper of UHI studies to find the Gaps in Indian studies in comparison to International studies. (Google Scholar). Published Conference paper in 2016 on Continuous Productive Urban Landscape(Academia)

School: SSDAP Program: B.Design & BVA	Academic Year: 2025-2026
Branch: Design	Semester: 5th
Course Code	NV41002
Course Title	AI - Applcation in Architecture & Design
Credits	
Contact Hours	30 hrs
Course Type	NCVAC
Course Objective	To help students from diverse design disciplines experience AI tools and techniques in a cross-domain manner—ensuring they build interdisciplinary thinking, apply AI creatively, and understand how design fields intersect with technology.
Course Outcomes	After completion of this course, students will be able to: CO1: Recognize AI’s impact across multiple design disciplines. CO2: Apply AI tools to visualize creative outputs for different domains. CO3: Evaluate and refine AI-generated outputs critically. CO4: Understand domain blending and cross-functional design strategies using AI. CO5: Produce visual outputs, concepts, and presentation material with tool support.
Course Description	This interdisciplinary course integrates all five design domains—Fashion, Communication, Interior, Visual Arts, and Architecture—within each unit. Students explore AI-generated visuals, design prompt crafting, and cross-domain ideation through tools like DALL·E, Canva AI, RunwayML, Planner5D, Morpholio, and ChatGPT. Rather than focusing on siloed applications, this part encourages design thinking beyond boundaries, helping students learn how AI can empower creative expression, functional planning, and communication strategies across contexts.

Outline syllabus		CO Mapping
Unit 1	AI for Moodboards & Inspiration Curation	
A	Generating AI-powered moodboards across domains Prompt banks for design ideation (e.g., colors, textures, concepts) Fashion: Trend-based color boards Communication: Branding palette	CO1
B	Hands-on Tools: Khroma, Canva, ChatGPT, Pinterest + AI integrations	CO1
C	ideation Interior: Material + texture boards Visual Arts: Theme/genre-based concept boards Architecture: Site inspiration and form vocabulary	CO1
Unit 2	Visual Composition & Layout Generation with AI	CO2
A	AI for layout thinking: grids, balance, focal points Fashion: Lookbook page designs Communication: Poster and visual hierarchy testing	
B	Hands-on Tools: Canva AI, DALL·E, Planner5D, Morpholio	CO2
C	Interior: Room zoning visualizations Visual Arts: Framing and compositional experiments Architecture: Conceptual site layout prompts	CO2
Unit 3	Material, Texture, and Pattern Generation	
A	Exploring generative surface design Fashion: Fabric prints and surface embellishment Communication: Backgrounds, textures in posters	CO3
B	Hands-on Tools: DALL·E, RunwayML, Khroma	CO3
C	Interior: Flooring, wall finishes, curtain/textile textures Visual Arts: Abstract/realistic texture layering Architecture: Facade pattern generation	CO3
Unit 4	Storytelling and Concept Communication with AI	CO4
A	Using AI for narration, visual sequencing, and framing messages Fashion: Story-based collection boards Communication: Campaign storyline	
B	Hands-on Tools: ChatGPT, Canva, RunwayML, Midjourney (demo)	CO4
C	visualization Interior: Design narration boards Visual Arts: Illustrated visual tales Architecture: User journey and urban experience walkthrough	CO4
Unit 5	Ethics, Bias & Creative Decision Making in AI	CO5
A	Understanding bias in AI tools, aesthetic stereotypes, and copyright Reflective analysis across domains Fashion: Cultural misrepresentation, fairness in design Communication: Misinformation & design integrity Interior: Functionality vs. aesthetics	
B	Visual Arts: Originality, authorship Architecture: Social equity in spatial AI use	CO6
C	Hands-on Activities: AI bias detection tasks, critique panels, design ethics journal	CO6