Council of Architecture's International Conference

in collaboration with

DY Patil Deemed to be University School of Architecture Navi Mumbai

Council of Architecture
Ministry of Education, Government of India

D Y PATIL
DEEMED TO BE
UNIVERSITY
— SCHOOL OF —
ARCHITECTURE
NAVI MUMBAI

TRANSFORMATIONS 2025
Co-scripting Change with Disruptive Technologies in Architecture, Design and Urbanism

JUNE 2025

📍 **Centre of Excellence,** DY Patil Deemed to be University, Navi Mumbai.

V6

TRANSFORMATIONS **2025**

Co-scripting Change with Disruptive Technologies in Architecture, Design and Urbanism.

In the fields of architecture, urbanism, and design, disruption represents significant, unexpected changes driven by groundbreaking innovations and transformative technological advancements. Historically, such breakthroughs have continuously advanced these domains, influencing both the built environment and broader societal directions. Disruptive technologies inherently have the power to deeply change existing patterns in the built environment. They create paradigm shifts in design thinking and practice, challenging established norms and promoting innovative solutions to complex challenges.

This transformative potential highlights the need for a dedicated conference to explore these phenomena. The idea is to come together and collaborate with research and innovations towards a sustainable future enriched by disruptive technologies.

The Council of Architecture envisions this conference as a platform to facilitate discussions between academia and industry, fostering continuous reforms in pedagogy, scholarship, and practice.

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Organizers

CA
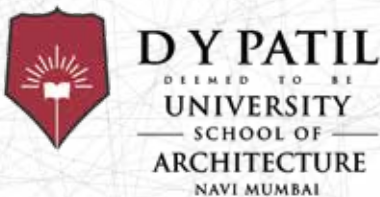## Council of Architecture
Ministry of Education, Government of India

The Council of Architecture (COA) is an autonomous statutory authority under Ministry of Education, Government of India, set up under the Architects Act, 1972, enacted by the Parliament of India. The Architects Act provides for registration of Architects, standards of education, recognized qualifications and standards of practice to be complied with by the practicing architects. The Council of Architecture is charged with the responsibility to regulate the education and practice of profession throughout India besides maintaining the register of architects.

Council of Architecture, being the competent authority for the purpose of fixing norms and standards for architectural institutions and having the necessary expertise holds the National Aptitude Test in Architecture (NATA) at national level to provide a single window system for appearing in aptitude test and to facilitate institutions, students and public at large for admission to First year of 5 year B.Arch Degree Course at all recognized Institutions all over India.

The Council is conducting design Competitions on behalf of various authorities of Govt. of India. The Training and Research Centres of COA, internationally recognized as one of the foremost multidisciplinary Institutions in the field of architecture education, research, training and service have been conducting Documentation, research and Publication initiatives for the architecture fraternity, Training Programs for architect professionals and educators, Awards Programs and for the undergraduate and post graduate students of architecture and Capacity Building Workshops.

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The D Y Patil School of Architecture, Nerul, Navi Mumbai established in 1992, has a legacy of 30 years in the field of architectural education and runs under the ambit of DY Patil Deemed to be University, Nerul, Navi Mumbai with the NAAC accreditation of 'A++' Grade. Ever since its inception, the school has been exploring studies in diverse domains of Architecture viz. Urban design and Planning, Building Sciences and Technology, Architecture History, Theory and Criticism and Arts - Crafts- Design. The spheres of enquiry have been ever expanding to reach out to current global scenarios, contemporary practices and major shifts on technology.

The school has now set out to take great strides in revolutionizing teaching and learning processes, developing new pedagogies under the Visionary leadership of the Honourable Chancellor Dr. Vijay D. Patil. To foster innovation and new knowledge, the school has also strategized to focus on two primary discourses of societal development and their interrelationships, one that of indigenous arts and crafts, and the other being emergent disruptive technologies as the way ahead. To do so a dedicated setup in the form of a state-of-the-art DY Patil Center Of Design (D'COD) with multidisciplinary Labs and Studios spaces has been envisaged, and set up to empower the faculty and students to innovate, experiment and collaborate with various disciplines as well as the industry.

Conference Steering Teams

Chief Patron:

Ar. Prof. Abhay Purohit,
President- COA
Council of Architecture.

Co-Patron:

Dr. Vijay D. Patil,
Hon. Chancellor
DY Patil Deemed to be University,
Navi Mumbai

Convenor:

Ar. Prof. Jayashree Deshpande,
Director, COA-TRC, Pune

Co-Convenor:

Prof. Aparna Surve,
Dean, DY Patil School of Architecture
Navi Mumbai

Conference Coordinator:

Shri. R. K. Oberoi, Registrar, Council of Architecture

Conference Advisors:

- **Ar. Gajanand Ram** (Vice President-Council of Architecture)

- **Members, Executive Committee, Council of Architecture**

- **Ar. Kiran S Mahajani,** (Principal Architect, Aayojan Architects and Principal & Director, Aayojan Schools of Architecture, Jaipur & Pune)

- **Prof. Pradyumna Vyas,** (President-elect, World Design Organisation (WDO) Senior Advisor, Confederation of Indian Industry (CII) Former Director – National Institute of Design (NID) Former Member Secretary- India Design Council (IDC))

- **Dr. Srivathsan Aravamuthan,** (Head, Centre for Research on Architecture and Urbanism, CEPT University)

- **Ar. Tushar Sogani,** (Chairman - Assocham RSDC, TSDPL Malaviya National Institute of Technology Jaipur

Scientific Committee:

- **Prof. Aneerudh Paul,** Professor at the Kamla Raheja Vidyanidhi Institute for Architecture and Environmental Studies (KRVIA), Technical Advisor, SPARC, Director of the Collaborative Design Studio

- **Ar. Krishnamurthy,** Principal Architect FOLDS Design Studio

- **Dr. Mathilde Marengo,** Head of Studies, Co-director of the Master in City and Technology, Faculty and PhD Supervisor at the Institute for Advanced Architecture of Catalonia.

- **Ar. Nuru Karim,** Founder & Design Principal Nudes

- **Ar. Prasad Vaidya,** Director Solar Decathlon India and the Sustainable Energy Lab at IIHS

- **Dr. Sanjeev Vidyarthi,** Former Professor and Department Head, Co-Director, Master of City Design Program, Department of Urban Planning and Policy, University of Illinois, Chicago

- **Prof. Sergio Porta,** Professor of Urban Design, Director of Urban Design Studies Unit, University of Strathclyde, Glasgow

- **Ar. Swaraj Datta Gupta,** Advisor, Infrastructure Digitalisation, The Confederation of Digital Construction Practitioners (India)

Publication Advisors:

- **Dr. Nandini Kulkarni** (Director, Symbiosis School of Planning, Architecture and Design, Nagpur)
- **Prof. Binumol Tom** (Dean, Dept of Architecture, Rajiv Gandhi Institute of Technology, Govt Engineering College, Kottayamm)

Core Committee (DY Patil School of Architecture, Navi Mumbai):

- **Prof. Anil Pawade**
- **Prof. Anita Shyam**
- **Prof. Dinesh Zope**
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- **Prof. Sachin Joshi**
- **Prof. Sampada Khokle**
- **Prof. Shailendra Thakan**
- **Prof. Suchita Karale**
- **Prof. Tanvi Deshpande**

Conference Brief

Within the domains of architecture and urbanism, the idea of disruption denotes profound, unforeseen change brought about by powerful forces like path-breaking thought innovations and norm-changing technological advancements. From the earliest known histories of architectural practice to present day narratives, technological breakthroughs have continuously and steadily propelled the profession forward, shaping not only the built environment as a result but also the larger societal trajectory as well.

Prominent examples, for instance, include new building types like shopping malls that emerged in India during the late 20th century and disrupted traditional bazaars and associated shopping habits as well as cleverly conceptualised spatial typologies such as planned neighbourhoods that disrupted traditional city living centred upon Wadas and Mohallas.

Important to note disruptive technologies are characterised by their intrinsic capacity to fundamentally alter the traditional patterns characterising the built environment before their advent. In this respect, they induce paradigm shifts in design thinking and practice, challenging conventional norms and fostering innovative solutions to complex challenges.

Turning the focus upon technological advancements, the aim of this conference is to stimulate discussions that uncover the transformative impact of disruptive technologies upon the landscape of Architecture, Design and Urbanism. By exploring and learning together how technological advancements have shaped the field in recent past, as well as their potential impact upon foreseeable future per ongoing trends, we hope the conference participants will acquire insights into how to navigate and utilise these disruptions to help co-create urban futures that are more sustainable, just, and resilient than the past.

Conference Aim

The aim of this conference is to stimulate discussions revealing the transformative potential of disruptive technologies in redefining architecture, urbanism and built and unbuilt landscapes.

Conference Objectives

Analysing Impacts of Disruptive Technologies:
Assess the profound impact of disruptive technologies on physical environments and socio-cultural realities reshaping our built and unbuilt landscapes.

Examining the Role of Innovation in employing disruptive technologies for sustainable development:
Delve into the role of innovation in navigating and utilising changes caused by disruptive technologies to create more sustainable, equitable, and resilient urban futures.

Foster Collaboration and Knowledge Exchange:
Facilitate interdisciplinary discussions and collaborations including but not limited to art, architecture, design, urban studies, engineering, economics, sociology, philosophy, political science, healthcare and law. Catalyse knowledge exchange among researchers, practitioners, policymakers, and industry professionals.

Keynote addresses and lectures by eminent speakers on:

- Foundations of Disruptive Technologies in Architecture and Urbanism and Historical perspectives on technological disruptions in architecture.
- Theoretical frameworks for understanding disruptive technologies in urban design.
- Case studies of early disruptive technologies in architecture and urbanism
- Envisioning the Future: The Dynamic Relationship Between Architecture, Urbanism, and Disruptive Technologies

Panel discussion:

The inaugural day of the Transformations 2025 conference will culminate in a Panel Discussion featuring a distinguished moderator alongside our eminent speakers and guests of honour. This forum will delve into the profound impact of disruptive technologies on the evolution of architecture, urban planning, and both physical and conceptual landscapes, laying the groundwork for further exploration on the second day of the conference.

Our primary objective is to create an environment that encourages inclusive dialogue and active participation, fostering meaningful exchanges and catalyzing collaborative action. By leveraging these discussions, the conference aims to drive positive societal transformations through the strategic use of disruptive technological advancements.

Town Hall Discussion

At the culmination of the Transformations 2025 conference, a Town Hall Discussion will convene, led by chief moderators of all tracks leading the discussions, serving as an open forum for professionals from diverse fields to engage in a comprehensive assessment of the holistic nature of disruptive technologies.

The Town Hall Discussion aims to foster collaborative dialogue and knowledge exchange among attendees, encouraging interdisciplinary interactions and innovative thinking. Participants will have the opportunity to pose questions, share experiences, and contribute to a collective understanding of how disruptive technologies are reshaping our world and shaping future urban landscapes. Through this inclusive and participatory forum, the Transformations 2025 conference seeks to facilitate meaningful exchanges and inspire collaborative action towards harnessing the potential of disruptive technologies for positive societal transformation.

Call For Abstracts

Submit your abstract of no more than 250 words. The primary language of the conference is English. Graphical Abstracts will not be accepted. We encourage you to send a concise yet informative abstract which is a compendious summary of a paper's substance including its background, purpose, methodology, results, and conclusion.

Click here for pre-registration and abstract upload

Eligibility

- Academicians
- Professionals
- Graduates and Post-Graduates of Architecture
- Graduates and Post-Graduates of Allied Fields
- Students pursuing Postgraduate studies
- Researchers
- PhD scholars and holders of Doctoral degrees

Important Dates

Brief distribution and abstract call :6th August 2024

Abstract upload opens from: 4th September 2024

Abstract submission deadline: 5th November 2024

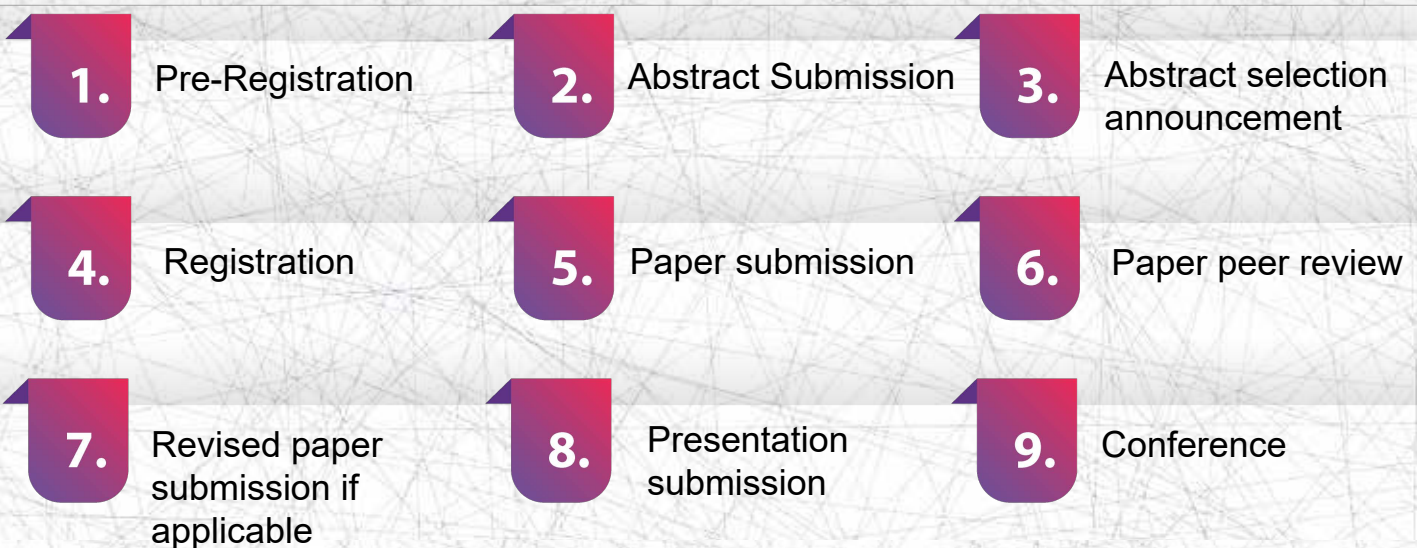Announcement of abstract selection : 16th December 2024

Research paper submission: 18th March 2025

Revised paper submission: 1st May 2025

Presentation submission: 1st June 2025

Conference dates: June 2025

The flow diagram

1. Pre-Registration

2. Abstract Submission

3. Abstract selection announcement

4. Registration

5. Paper submission

6. Paper peer review

7. Revised paper submission if applicable

8. Presentation submission

9. Conference

Registration Fees Details

Registration Details (Fees in INR)	Fees for Indian Delegates (INR)				Fees for Overseas Delegates ($)			
	Pre Registration	Early Bird	Standard	Delayed	Pre Registration	Early Bird	Standard	Delayed
Primary Author– Professional delegate Attend the conference with paper presentation	1500	4000	6000	8500	250	350	400	450
Additional Papers (same Primary Author – Professional delegate)	1200	3000	4500	6250	200	250	300	350
Co-Author– Professional delegate	NA	2000	2500	3500	NA	125	175	225
Primary Author-Student Delegate Attend the conference with paper presentation at Student Discounted Rate (Applicable only for students pursuing post graduation degrees or diplomas in architecture or allied fields)	1000	2500	4000	4750	150	200	250	300
Additional Papers (same Primary Author – Student Delegate)	750	2000	3000	3500	125	150	200	225
Co-Author- Student Delegate	NA	1750	2250	2750	NA	100	150	175
Poster presentation - Attend the conference with a Poster/Presentation Only – NO paper presentation	NA	3000	4500	6250	NA	250	300	350
Attendee	NA	2000	2500	3500	NA	125	175	225
PG Student Attendee	NA	1500	1750	2000	NA	80	100	150
UG Student Attendee	NA	1000	1500	1750	NA	50	80	100

Note:
- Graphical Abstracts will not be accepted.
- Pre-registration fees will be adjusted against the registration fees
- Deadlines of Early Bird, Standard and delayed will be published on the COA website, COA and DYPUSOA, conference social media channels. Link to follow is at the end of the brochure.

Pre-registration and Registration:
- Pre-registration is a must for submission of abstracts for Primary authors who wish to submit their papers. Kindly check the respective fees applicable.
- Upon acceptance of abstracts, Primary authors who have pre-registered can proceed with registration as per chosen price bands (Early Bird, Standard, Delayed)
- All other categories of participants must register as per chosen price bands (Early Bird, Standard, Delayed)

Registration fees includes:

- Entrance to all sessions of the Conference
- Associated Conference materials
- Lunch and refreshments during the conference day
- Coffee Breaks and Snacks: Refreshments will be provided during breaks in the conference schedule.
- Conference Program Booklets: Printing of schedules, speaker bios, and other relevant information.
- Identification: Personalized name tag for conference identification.
- Name Badges and Lanyards: Custom badges for participant identification and networking.
- Delegate Kits: Bags containing conference materials
- The conference Networking Dinner
- Recognition of Excellence: Authors of top-tier papers will receive the "Best Scientific Paper" certificate.

Categories of Delegates

Primary Author

Professional delegate (Academicians, Professionals, Graduates and Post-Graduates of Architecture, Graduates and Post-Graduates of Allied Fields, Researchers, PhD scholars and holders of Doctoral degrees):

The lead author of the research project.   They will also be the lead presenters of the paper. The pre-registration for the conference has to be done by the Primary Author only. There can only be one Primary author.

Student Delegates (Students pursuing Postgraduate studies only):

Students pursuing post-graduation can register under this category for paper submission. Mandatory submission of proof of being a student to be uploaded.

Co-Author

For papers with more than one author, only the presenting author needs to be registered. Other authors need to register as co-author only if they are attending the conference and they require a certificate. They don't need to register if they won't attend the conference. In case the co-author of one paper is the Primary author of another, they need not register again as co-author. Please refer registration matrix for applicable fees for professional delegates and student delegates.

Poster Presentation

Attend the conference with a Poster Only – NO paper publication. This option is being given to the candidates whose abstract is not selected and wish to present their work in a poster form. They can register for this category.
One may opt for this category independently as well. You will have access to all sessions as a poster presenting delegate.

Attendee / Listener

If you wish to attend the conference without submitting a paper you can register at this price. You can register anytime with fees as per the payment deadlines.
For all fees, please refer to the registration fees matrix.

Payment Information

Fees are payable in advance. We accept payment by most international credit or debit cards, UPI or bank transfer. The payment link and brochure will have all relevant details.

Themes and Tracks

THEME 1:
Disruptive technologies in architecture and urbanism

This track will help locate, situate, and map the idea of disruption, along with the agency of disruptive technologies, in shaping the field of design on the terrain of architectural history and theory. What lessons can we learn from influential past precedents?

Track 1: Evolution of disruptions and disruptive technologies as catalysts for change (Indicative list of domains could be, but not limited to)

- Situating the idea of disruption in Architecture
- Situating the idea of disruption in Design Pedagogy
- Situating the idea of disruption in Urbanism
- Sustainable materials and their role in Disruptive Construction Practices
- Governance and Policy Implications of Disruptive Technologies

Track 2: Disruptions, Societal Transformations and Built Form Impacts
(Indicative list of domains could be, but not limited to)

- Social Equity and Inclusive Design
- Community Engagement in Urban Planning
- Health and Well-being in Built Environments
- Urban Mobility and Transportation Systems
- Data-driven Urban Planning and Management

THEME 2:
Established disruptive technologies:
Collaborations and Conflict

This track focuses on well-established disruptive technologies that have already made significant impacts on architecture, design and urbanism. Participants are encouraged to explore the applications, and implications of technologies such as AI, Blockchain, Augmented Reality, and IoTs. Discussions may include studies showcasing successful implementations of these technologies in reshaping the built environments & enhancing urban experiences.

This theme will also help illustrate prominent intellectual positions & notable perspectives in the architectural, design and urbanism fields regarding first-hand experiences with disruptive technologies. For example, in what ways did the advent of CADD (computed aided design and drafting) shape the architectural field in the past three or so decades? For good, better or worse?

Track 1: Contemporary Disruptive Technologies, collaborative processes and Development of Disruptive Technologies (Indicative list of domains could be, but not limited to)

• From CADD to BIM, disruptions and changes
• Changes in Architectural Practice, a narrative through disruptions.
• AI and Machine Learning in Design
• Robotics and Automation in Construction
• Virtual and Augmented Reality in Urban Planning
• Digital Fabrication and 3D Printing in Architecture
• Smart Cities and IoT Integration
• Blockchain in Property and Land Management

Track 2: Sustainable Production Practices and Innovations in disruptive technologies (Indicative list of domains could be, but not limited to)

• Renaissance of Art and Craft in the Face of Disruptive Technologies
• Mass customization and its role in disrupting traditional / sustainable production methods
• Sustainable production practices in Architectural Design and Urban Design
• Collaborative and community-based production models
• Sustainable Implementation of Disruptive Technologies
• Urban-Rural Linkages and Food Systems
• Interdisciplinary collaborations towards Sustainable Production Practices

Emerging disruptive technologies: Symbiosis and Sustenance

This theme highlights emerging disruptive technologies that show great potential to transform not just architecture and urbanism but also the way society lives, in the near future. It also seeks to highlight interdisciplinary symbiosis for a resilient future.
Participants are invited to examine the latest developments and advancements in areas including, but not limited to nanotechnology, bio-design, generative design, & autonomous systems. Topics may include innovative uses of these technologies in addressing pressing urban challenges, fostering sustainability, & promoting inclusivity. Papers may also induce dialogues on ideations for disruptive technologies working towards   Sustainable Development Goals and inter or multidisciplinary collaborations.

Track 1: Designing for the Future: Vision, Speculation, Challenges and innovation as a response (Indicative list of domains could be, but not limited to)

* Designing for the Future: Transformative (impact) Vision and Speculation
* Innovation and production practices for Sustainable Future
* Future of Interdisciplinary Adaptive Pedagogies
* Emerging Digital Tools and Learning Environments
* Speculating Interdisciplinary Approaches in Education
* Emerging Pedagogical Strategies for Sustainable Development
* Speculative Design and Scenario Planning
* Future Cities and Imagined Realities
* Ethical Considerations in Speculative Urbanism
* Utopian vs. Dystopian Visions
* Design Fiction and Narrative in Urban Futures
* Role of Architects and Urban Designers as Futurists

Track 2: Multidisciplinary, Interdisciplinary and Transdisciplinary Integrations with Architecture and Urbanism. (Scholars from interdisciplinary or allied fields invited)

THEME 4:
Case studies illustrating the employment / influence of disruptive technologies in architecture, urbanism and productions.

This track will be organised in two parts. The first part will feature detailed case studies describing the practical use of recent, emergent technologies like VR, AR, AI, Digital technologies, GIS, and the second part will focus on sustainable solutions etc in the fields of architecture, urbanism and production of spaces, as well as the lessons learnt so far. The theme and both sessions will deliberate on the potential of these developments on the impending future. Multidisciplinary and transdisciplinary research will be valuable.

Track 1: Focussing on Technology (Indicative list of domains and presentations could be, but not limited to)

*   Infrastructure Development in Peri-Urban Areas
*   Digital fabrication and its impact on Architectural Production
*   Mass customization and its role in disrupting traditional production methods
*   Collaborative and community-based production models
*   Integration of traditional craftsmanship with modern production techniques
*   Successful Implementation of Disruptive Technologies
*   Scalability and Replicability of Solutions

Track 2: Focussing on Sustainability (Indicative list of domains and presentations could be, but not limited to)

*   Vernacular Architecture and Sustainable Practices
*   Informal Settlements and Participatory Planning
*   Sustainable production practices in Architecture and Urban Design
*   Urban Agriculture and Green Spaces
*   Collaborative and community-based production models
*   Integration of traditional craftsmanship with modern production techniques
*   Successful Implementation of Disruptive Technologies
*   Scalability and Replicability of Solutions

About the Venue

DY Patil University Centre of Excellence

The DY Patil University Centre of Excellence was born out of the conviction, foresight, and passion for educational excellence of the Honourable Chancellor of DY Patil Deemed to be University, Dr. Vijay D. Patil. To bring this vision to life, Dr. Vijay D. Patil collaborated with Foster + Partners to create this remarkable monument. The center supports the university's innovative and multidisciplinary teaching methods, legacy, and ethos of excellence, providing high-quality learning and living spaces for over 3,000 students. The project also features a vibrant two-acre sky garden with native plants, pond life, and relaxation areas.

Notably, this building is Foster + Partners' first educational project in India. The project has been awarded the LEED Platinum rating and was presented with the 'Public / Institutional Project of the Year' award at the Aces of Space Design Awards 2023.

To know more, please click here to watch "The Making of a Monument," an exclusive documentary on the creation of the Centre of Excellence.

How To Get There

DY Patil School of Architecture benefits from its strategic location in Nerul, Navi Mumbai, offering excellent connectivity to Mumbai and surrounding areas. Whether you choose to travel by rail, road, or air, you will find it convenient to reach the venue for the Transformations 2025 conference.

By Rail:
Nerul is a major station on the Harbour Line of the Mumbai Suburban Railway. From Chhatrapati Shivaji Maharaj Terminus (CSMT), and any station on the harbour line, you can take a direct local train to Nerul or Juinagar, another station in close proximity to the venue. The school is a short auto-rickshaw or taxi ride from the mentioned railway stations.

By Road:
Nerul is well-connected by road, with regular bus services from various parts of Mumbai and Navi Mumbai. The Mumbai-Pune Expressway also provides easy access for those coming from Pune and other nearby cities. Private cabs and app-based ride services are readily available for a convenient journey.

By Air:
For those arriving by air, Chhatrapati Shivaji Maharaj International Airport is the closest airport. From the airport, you can hire a taxi or use app-based ride services to reach Nerul, which is approximately 30 km away. The journey typically takes about an hour, depending on traffic conditions.
Click the map for the google location.
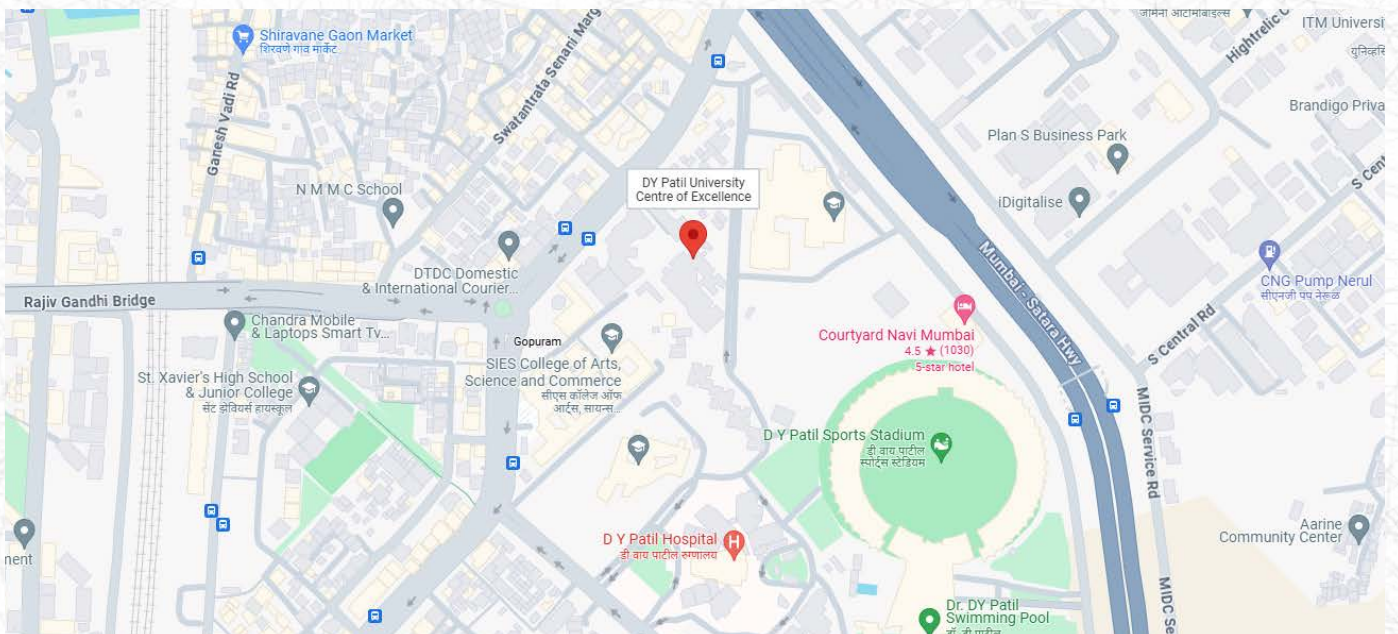
Contact

Contact us at transformations2025@gmail.com for any queries.

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