



BIRLA INSTITUTE OF TECHNOLOGY, MESRA

www.bitmesra.ac.in

Department of
ARCHITECTURE

The background of the page is a detailed architectural drawing. It features two large, rolled-up blueprints in the center, showing various technical drawings and measurements. In the foreground, there are drafting tools including a compass and a pencil. The overall color scheme is blue and white, giving it a professional and technical appearance.

**PLACEMENT
BROCHURE
2021 - 22**



Programmes Offered :

Undergraduate Programmes

- B.Arch. (5 years)

Post-Graduate Programmes

- Master of Urban Planning (2 years)

Doctoral Programmes

- Ph.D.

The Department of Architecture was established at BIT Mesra in the year 1993, in keeping with the multifarious scope of Architecture as the art and science of designing spaces and adding value to a meaningful, built environment. It is a subject which is a combination of faculties of engineering, science as well as arts. The programme is a balanced combination of all these streams, yet follows a unique pedagogical methodology that is its hallmark.

The underlying vision for the Department of Architecture is to make the department an academic knowledge hub that will actively contribute in the contemporary domain, by providing innovative professionals who will contribute wholesomely to nation building, individuals who can make significant contribution to the advancement of the society and by preparing students for leadership roles in the fields of Architecture.

The mission of the Department of Architecture is to foster a student-centered educational program in architecture. The programme through its pedagogy which is heuristic and responsive to technological, cultural, and social environments, seeks to offer a diverse, interdisciplinary and rigorous curriculum that will promote personal development and professional excellence.

The course structure is poised between theoretical knowledge and its practical application with ample application based labs objects evenly distributed throughout the syllabus the practical orientation of working in an actual office is also taken care of in the practical training subject in the final year of the course. Students also get a scope to exercise the applicability of the entire course learning in the final year thesis dissemination.

- Principles of architecture
- Mathematics for architects
- Primary building materials
- Fundamentals of Unix and C programming
- History of architecture
- Theory of design
- Building construction
- Creative workshop
- Building services
- Computer application and architecture
- Structural mechanics
- Surveying
- Site planning and landscape architecture
- Concrete structure
- Structural design RCC
- Depth elective
- Structural design bracket Steel
- Specification, Estimation and Costing
- Steel structures
- Management, marketing
- Structural concepts in architecture
- Housing and settlement systems
- Interior design
- Principles of human settlements in urban design
- City and metropolitan planning
- Introduction to CS project in research methodology
- Industrial architecture
- Professional practice and tendering process

The Department is a seat of learning powered by state of art laboratories. Architecture students spend time in laboratories and design studios working on a wide variety of projects. The department houses within its laboratories various softwares and state of art instruments. The department is also facilitated by A0 printing and scanning facility.

The Model making workshop accommodates updated instrument like Zodiac Cut Curve 442. 3-D printing facility, a central facility of the Institute, gives students n unique opportunity to manifest imaginations.

SOFTWARES

- AUTOCAD
- NVMET 4.0
- ARCGIS 10.4.1
- Bentley Building Information Modeling
- IBM SPSS Statistics 24

INSTRUMENTS

- Total weather station
- Surface temperature measuring gun
- Data logger
- Light meter
- Indoor Air Quality Handled meter

Publications

- Dash M. and Chakraborty, M., Outdoor Ventilation and Ground Coverage: Exploring a Climate Centric Approach to Building Byelaws for Multi Storied Apartment in Bhubaneswar, Journal of Sustainable Architecture and Civil Engineering (Nov 2020)
- Gupta J., Chakraborty M., Sharon Mathew, Alankar Jharia, Mud as a construction material in Rural Dwellings: Study of Thermal Performance in Composite Climate, International Journal of Advanced Science and Technology (Oct 2020)
- Gupta J., Chakraborty M., Hema Sree Rallapalli and Nivedhitha.R, Climate-Responsive Architecture in Rural Vernacular Dwellings: A Study in Composite Climate in Ranchi, Jharkhand, India., AEGAEUM Journal (August 2020)
- Roy Bimal C., Sarkar Satyaki, Sinha Rajan C., Srivastava I., Identification of a new industrial area based on a macro level analysis - a Case of Bokaro District, Jharkhand, India, International Journal of Engineering and Advanced Technology (December 2019)

Sponsored Research and Consultancy Projects

- Upgradation of Birsa Munda Airport Ranchi.
- Landscaping work of A.N. Sinha Institute for the new B.I.T. Extension Centre at Patna.
- Design of proposed Engineering College at Chaibasa, Jharkhand.
- Preparation of Conservation cum Development Plan of Sutiamba, Jharkhand.
- Design of proposed Cultural Heritage Center for Excellence at Ranchi, Jharkhand.
- Preparation of City Development Plan for Gumla.
- Checking of Bill of Quantities and Schedule of Rates for Buddha Smriti Park at Patna.
- Project titled "Study of Energy consumption trends, Demand and Supply trends in all building types in India", completed in March 2008, funded by UTRC, USA.
- Design of the proposed Redevelopment of Megalith site at Hazaribagh for NTPC.
- Redevelopment of Pahari Mandir Temple Complex, Project of Govt. of Jharkhand.
- Gram Panchayat Spatial Development Plan, for Neori and Kandra GP Jharkhand.

ABACUS (ISSN: 0973-8339)

Since 2006, the Department publishes a bi-annual journal on Architecture, Conservation and Urban Studies named ABACUS. The journal is refereed by an international panel of eminent architects and planners from the field of academics and industry.

With the first issue released in Monsoon 2006, BIT created another milestone by pioneering the first ever researched journal in the field of Architecture and Planning being published from an academic institution.

SSA WORKS (STUDENT SOCIETY OF ARCHITECTURE)

Workshops Conducted – Ps, Rhino, Sketchup, AutoCad, Revit, Lumion, Grasshopper

Interactive – Model making, Bamboo Workshop, Handcrafting, Sketching, Painting, Building material workshop, Photography workshop

Others – IGBC workshop, G Shanker, Birla White Workshop, pavilion, Habitat Group

WORKSHOPS CONDUCTED IN DEPARTMENT

- SILVER JUBILEE CELEBRATION
- GHANI ZAMAN
- BRICK ARCH CONSTRUCTION WORKSHOP
- WRI WORKSHOP
- ECBC WORKSHOP
- SUSTAINABLE FUTURE
- REVIT WORKSHOP
- HOW TO FESTIVAL
- GRIHA WORKSHOP
- SUSTAINABLE BUILDING TECHNOLOGY
- RHINO WORKSHOP
- GOURAB KAR WORKSHOP



- ▶ **LIXIL Mentorship Program** organised by GROHE India and National Association of Students of Architecture (NASA) - Deeptam Das was selected amongst the top 15 students, nation-wide, to be mentored by Ar. Hiren Patel, over the course of 8 weeks.
Deeptam Das was also awarded with the Best Mentee Award by Ar. Hiren Patel.
Naritya Choudhary and Sri Sahiti Vemavarapu were selected amongst the top 15 students, nation-wide, to be mentored by Ar. Vivek Singh Rathore, over the course of 8 weeks.
Debarati Ghosh was also shortlisted for the same.
Sri Sahiti Vemavarapu also qualified (75 of 1500+ students) for the LIXIL Mentorship Program Season 2 under Ar. Niels Schonfeider.
- ▶ **mOOO Summer Workshop Scholarships** - Debarati Ghosh received two scholarship offers from mOOO summer workshop 2021 and Bedatri Anand was shortlisted to the interview phase for the same.
- ▶ **3rd International Architecture Design Competition - The Attendance: Reconfiguring Government Schools in India** by Archmello Competitions; Jury: Sanjay Puri Architects
Deeptam Das, Razi Ahmad and Ankit Kumar won the 2nd runner up position.
Satwik Singh Rathour and Yogesh M. Singh were among the honourable mentions.
- ▶ **120 Hours Architectural Competition** - Satwik Singh Rathour and Yogesh M. Singh were selected amongst the honourable mentions.
- ▶ **Future of Work Architectural competition** by ArchiHacks - Keshav Jasoriya and Yogesh M. Singh won the First position in (Work from Home category).
- ▶ **Annual NASA Design Competition (ANDC) 2020 – Top 40**
Two teams from Department of Architecture, BIT Mesra were shortlisted in the top 40 entries at the Annual NASA Design Competition 2020.

The students have in them a varied sense of understanding in the current methods and operating procedures by the help of subsequent internships during summer and winter breaks. In order to facilitate the students with new advancements the department also ensures industrial visits over the period of semester so that students are convinced by practical means of theoretical sorts. These are some of the places wherein our students have worked as interns:

Industries:

- BSRDC
- SAIL
- Tech Mahindra
- Cognizant
- ODA Classes
- NHAI
- L & T
- Rodic
- MECON
- Navayog
- DMRC

Institutes:

- Illinois Institute of Technology, Chicago
- IIM Ranchi
- IIT Delhi
- CBRI, Roorkee
- IIT, Indore
- IIT, Kharagpur
- Virigina Tech



Few of our proud
RECRUITERS



Thank You

for your Time & Attention !

Contact Us :

placement@bitmesra.ac.in