TechnoStruct Academy
LEARNING BIM SIMPLIFIED

BIM READY +

International Post-Graduate Certification in BIM Management

BIM in Design & Construction Management

WHO ARE WE

TechnoStruct Group

TECHNOSTRUCT ENGINEERING
Design Engineering Redefined

MEP Design, Fire Alarm & Seismic Engineering

TECHNOSTRUCT
Assembling Dreams Into Reality

BIM, Estimating, Project Management

TECHNOSTRUCT ACADEMY
LEARNING BIM SIMPLIFIED

BIM Education and Placements

TechnoStruct LLC

TechnoStruct Academy

Amalgamating Design Engineering and BIM/VDC implementation services, we have curated a niche' Constructability Space which is currently unique.

With unique processes distinguishing us from our competitors, we at **TechnoStruct** are well-poised to be the powerhouse brand that is a One-Stop-Shop in the Global Design & Construction Space.

Registered Office:
San Francisco, CA

Operations Centers:
Redwood City, CA
Mexico and India

TSA – TechnoStruct Academy, is the educational enterprise of TechnoStruct, LLC, California.

TechnoStruct Academy training programs' primary goal is to enable students and industry professionals to perform better in their chosen disciplines and to bring them to an efficiency level where they become job-ready!

TSA Course Selection Panel

Samuel Labi
Purdue University

Michael Garvin
Virginia Tech

Hubo Cai
Purdue University

Mark Hastak
Purdue University

S Mukherjee
University of Buffalo
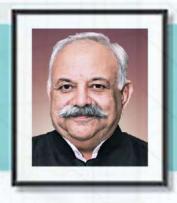
Amr Kandil
Qatar State Bureau

OUR TEAM

Roy Aniruddha
*Founder Director &
Business Head*

Parth Makwana
*Co-Founder Director &
Marketing Lead*

Arindam G Roy
*Sales Head - Retail
Business*

Arun Kochar
*Pan India Head,
Institutional Business
(TIBCam)*

Kriti Kochar
*Director of Accounting &
Human Resources*

James Varnadore (Jym)
Director BIM / VDC

Stephen Barnes
*Director of Strategy &
Acquisitions*

Bharat Parmar
Strategic Advisor

PROJECT PORTFOLIO

HEALTHCARE

1. **Gilead Sciences Nb357 & 324**
2. **Lucile Packard Children's Hospital**
3. **Kaiser Permanente Santa Rosa**
4. **Stanford Redwood City**
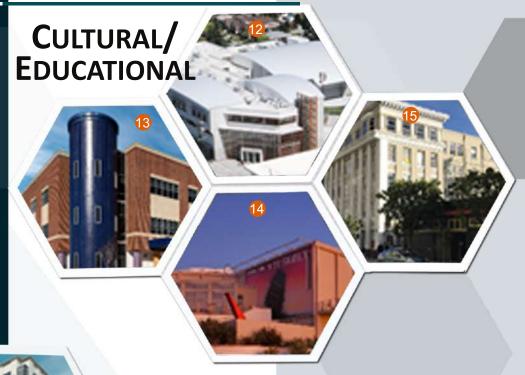
INFRASTRUCTURE

CORPORATE/ INSTITUTIONAL

5. **Apple Headquarters**
6. **Ford Research & Innovation Ctr**
7. **UC Davis Jess Jackson & Winery**

8. **Transbay Transit Center**
9. **SFO Terminal 1 Redevelopment**
10. **SF W-side Recycled W Treatment**
11. **SFO-Terminal 1C**

PROJECT PORTFOLIO

CULTURAL/ EDUCATIONAL

RESIDENTIAL

HOSPITALITY

BIM READY PLUS

International Post-Graduate Certification in BIM Management

BIM Ready Plus is an elite BIM and construction management program designed by the experts from Construction industry and professors from world class universities. This program will enable construction professionals working with conventional technologies to become experts in the latest BIM technologies, international codes, and standards.

On successful completion of the program, participants will become next global leaders in BIM implementation and management. They will have the skills and competencies to become a BIM management professional capable of managing a BIM project from initial planning to the operation and maintenance phase.

In this program you will learn an efficient collaborative way to integrate your team's efforts and knowledge, making it possible to work with every sector involved in a project. This collaborative way of working will streamline the process and optimize costs all around the project. Its academic structure gives the right blend of theory and practice, involving case studies and assignments based on actual Technostruct projects. In this way, participants will gain exposure to global projects along with an International PG certification in BIM Management.

BIM READY PLUS

International Post-Graduate Certification in BIM Management

Course Duration – 8 Months– 160 Hrs
Number of Modules – 8
Number of Assessments - 8
Methodology – LIVE Virtual Classes

Who Can Apply

Construction industry professionals or Architects/ Engineers
with minimum 2 years of relevant work experience

BENEFITS & COURSE OUTCOMES

1 Become a BIM Management professional specialized in managing all ASMEPF projects working with open BIM and interoperability.

2 Exposure to global BIM standards and documentation procedures.

3 Discover all the latest BIM software and the appropriate methodologies to use it over the different project life cycles.

4 Experience the complete project workflow during the Final Project Internship (Includes Personalized Mentoring).

5 Free lifetime membership to the TSA placement cell.

6 Designed and led by industry experts at Technostruct, bringing you over 20 years of research and knowledge in BIM.

BIM READY PLUS
International Post-Graduate Certification in BIM Management
***Course Duration:** 8 Months - 160 hours*

3D BIM-MODEL AUTHORING

Exposure to authoring BIM tools where a professional will learn about initial Project setup to complete ASMEP modelling.

- Advanced Autocad
- Modelling of Architectural components.
- Modelling of Structural components.
- Modelling of Mechanical Systems.
- Modelling of Plumbing Systems.
- Modelling of Fire Protection Systems.
- Modelling of Electrical Systems (ELV,HV,LV)
- Landscaping and Site
- Parametric content creation for ASMEPF(Family)
- Heating and Cooling Load Analysis
- Detailing and creation of shop drawings.
- Extraction of Bill of Quantities (BOQ) and Bill of Materials(BOM)

Key Software :
- **Autodesk Revit**
- **AutoCAD**

Assessment Test 2

M.1 — *28 hours*

M.2 — *62 hours*

BIM MANAGEMENT

This module deals with the complete documentation and planning part involved in BIM projects.

- Introduction to VDC – BIM Maturity Levels, Dimensions of BIM.
- Level of Development in BIM (LOD)
- Top BIM standards and BIM acronyms used around the world.
- RIBA Plan of work, IFC, BCF (open BIM) and data drop points.
- ISO19650 Part 1, 2, 3 & 5
- Employer Information Requirement- EIR.
- IPD, Design Build, Design Assist, Design Bid-Build process.
- BIM Execution Plan. (Pre contact BEP/ Post contract BEP)
- MIDP and MPDT documents.
- BIM Proposal, Project Bidding & awarding process.
- Plannerly.
- RFI, Clash-Coordination Documentations and Trackers.
- Group Discussions, Assessments and Project Assignment Review.

Assessment Test 1

1) Daily 1-hour live session from Monday to Friday.
2) Daily practical assignments.
3) Live sessions will be available online for future reference.
4) Daily doubt clearing time.

BIM READY PLUS
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MODULES & CONTENT
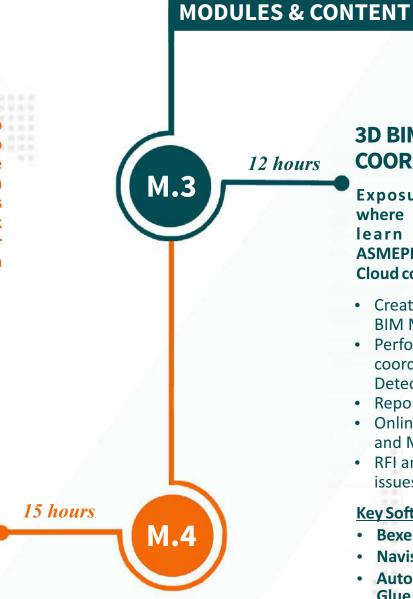
4D BIM - TIME & SCHEDULE

Participants will learn to integrate "time" aspect to a 3D BIM model, to create proper construction schedules. Participants will learn to avoid rework and redesigns at a later stage of construction with the help of 4D BIM Tools.

- Creation of construction schedules
- 4D Simulation
- Importing MS Project and Primavera schedules
- Bexel Manager Scheduling options and settings
- Extract QTO associated at each project stage.

Key Software :
- **Bexel Manager**
- **Primavera**
- **Microsoft Projects**
- **Navisworks**

Assessment Test 4

M.3

12 hours

15 hours

M.4

3D BIM - MODEL COORDINATION

Exposure to BIM tools where a professional will learn about complete ASMEPF coordination and Cloud collaboration.

- Creation of Federated BIM Models
- Performing ASMEPF coordinaon (Clash Detection)
- Reporting and analytics
- Online BIM collaboration and Model management
- RFI and construction issues management

Key Software :
- **Bexel Manager**
- **Navisworks**
- **Autodesk BIM 360-Docs, Glue/ Coordination**
- **Autodesk Construction Cloud**
- **BIM Track**

Assessment Test 3

1) Daily 1-hour live session from Monday to Friday.
2) Daily practical assignments.
3) Live sessions will be available online for future reference.
4) Daily doubt clearing time.

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6D BIM - SUSTAINABILITY

BEXEL Manager FM Platform Demonstration of Common Data Environment Functionalities.

- Construction progress input; Planned vs Actual comparisation; Reporting
- Bexel Manager – Trimble connect – progress data exchange Using BCF format
- Monthly Payment certification in BIM environment
- Power BI, CDE, Data integration and intro to API
- Exporting data into power BI
- API explanation and add-ins
- Use of Bexel Manager API

Key Software :
- Bexel Manager

Assessment Test 6

M.5

M.6

10 hours

5 hours

5D BIM - COST & BUDGET

In this module participants will learn to integrate "cost" aspect to a 3-D model, making the cost estimation technique consistent, automated and unique.

- Creating model based quantity takeoffs
- Import and Export of cost databases
- Custom breakdown of assigned items
- Assigning Cost Items to model elements
- Using different cost versions for cost comparisons
- Task Report and Cash flow analysis
- Resource flows (manpower, Material and Equipment) and Resource leveling

Key Software :
- **Bexel Manager**
- **Primavera**
- **Microsoft Projects**
- **Navisworks**

Assessment Test 5

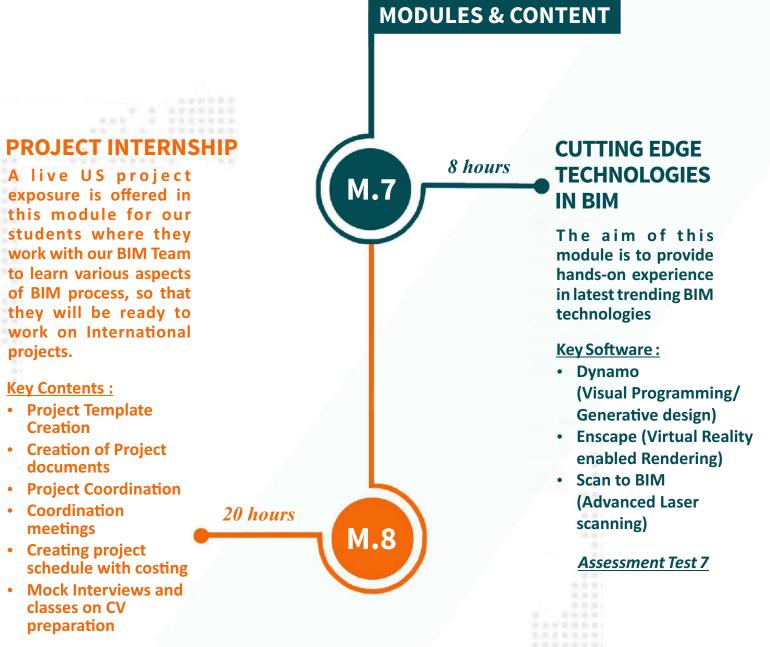1) Daily 1-hour live session from Monday to Friday.
2) Daily practical assignments.
3) Live sessions will be available online for future reference.
4) Daily doubt clearing time.

BIM READY PLUS
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MODULES & CONTENT

M.7

8 hours

M.8

20 hours

PROJECT INTERNSHIP

A live US project exposure is offered in this module for our students where they work with our BIM Team to learn various aspects of BIM process, so that they will be ready to work on International projects.

Key Contents :

*   **Project Template Creation**
*   **Creation of Project documents**
*   **Project Coordination**
*   **Coordination meetings**
*   **Creating project schedule with costing**
*   **Mock Interviews and classes on CV preparation**

Final Assessment Test

CUTTING EDGE TECHNOLOGIES IN BIM

The aim of this module is to provide hands-on experience in latest trending BIM technologies

Key Software :

*   **Dynamo (Visual Programming/ Generative design)**
*   **Enscape (Virtual Reality enabled Rendering)**
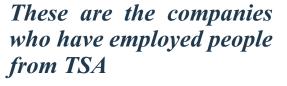*   **Scan to BIM (Advanced Laser scanning)**

Assessment Test 7

1) Daily 1-hour live session from Monday to Friday.
2) Daily practical assignments.
3) Live sessions will be available online for future reference.
4) Daily doubt clearing time.

BIM READY + STUDENT ROADMAP

Session -1- *Induction Program*

1

2

Session -2- *VDC/BIM Introduction*

28

Session -28- *Expert in BIM Management*

Session -90- *Expert in 3D Model Authoring*

90

Session -102- *Model Coordination Expert*

102

117

Session -117- *Expert in 4D BIM*

132

Session -132- *Expert in 5D & 6D BIM*

Session -157- *Final Assessment*

157

Session -158- *CV/Portfolio & Linkedin Profile Management*

158

159

Session -159- *Mock Interviews*

Session -160- *BIM Management Professional*

160

PLACEMENT CORNER

OVER 80% PLACEMENT RECORD FOR LAST 4 YEARS

These are the companies who have employed people from TSA

The placement cell of TechnoStruct Academy (TSA), has been dedicatedly working towards the placement of students as per their profile of preference.

TSA has a versatile team headed by Mr. Arindam G Roy, Business Head India, an Associate Professor and HR Manager of the company. More than 50 companies, including the top design and construction companies contact TechnoStruct Academy for placements every year. Our BIM training courses offer the most relevant and up-to-date tools to perform in today's Design & Construction space.

ALUMNI SPEAK

SUSHANT TSA BATCH

"Sir, I have been selected for Excelize Software Pvt Ltd. in Aurangabad, Maharashtra, as a Trainee Production Engineer. Hired for Architecture and Structure work, begun working here from March 18, 2021. Thank you, Sir, for your training and guidance. The BIM training as well as REVIT and all real time projects gave me the confidence I needed to develop my skill and understanding. My instructor's hands on attention at each step made all the difference. THANKS A LOT, TEAM TSA"

Shushant
TechnoStruct Academy,
BIM Ready Complete

PARAG SONAWANE
TechnoStruct Talent Development Program

"Sir, I have been selected in Excelize Software Pvt Ltd, Aurangabad, Maharashtra as a Trainee Production Engineer for the Architecture and Structure work. I have joined this company from the 10th of March 2021. Thank you for your training and guidance. For a career with BIM and for an in depth understanding there is no place like TSA! I am job ready and have software mastery. Thanks a lot!"

Parag
TechnoStruct Academy,
BIM Ready Complete

SAHIL VIJAY SHARMA
TECHNOSTRUCT 'OLIVE BATCH'

"I am glad to share that I have joined International Service Partners, LLC, Surat. I am very pleased to have learnt at TSA & highly recommend them for any aspiring Civil Engineer. It was only possible because of the guidance I got from TSA and my mentors and a big thanks to you Sir.
Thank you TSA"

Sahil Vijay Sharma
TechnoStruct Academy,
BIM Ready Complete

SHIVANI DESHPANDE

"Last month I started working full time with Neilsoft as a Junior Architect. If I had not received the mentoring that I have both in my course study as well with the placement assistance. I would not have been able to crack my interview round with confidence.
The course was very helpful and during the technical round, it is this knowledge that helped. Thank you team TSA. I highly recommend TSA for all aspiring Architects for a hands on learning and excellent academics with mastery over the subject."

Shivani Deshpande
TechnoStruct Academy,
BIM Ready Complete

MADHAN PAMURI *AECOM*

"I can surely say that it is a place where we can acquire the Knowledge of BIM.
At TSA, they will evaluate the student's performance, place them in reputed MNC companies say, ATKINS, AECOM, Intec Infra, WSP, TATA PROJECTS, AEC DIGITALS, etc. TechnoStruct has given me a bridge to travel to put my career in a good path"
THANKS A LOT, TEAM TSA

Madhan Pamuri
TechnoStruct Academy,
BIM Ready Complete

SUPRIYA TANDON, *BIM ENGINEER*

"Technostruct Academy (TSA) is one the best academy related to BIM trainings. They not only helped me enhancing my skill set with Revit software but also made well versed with the technology by making me work on one of their projects. I am really thankful to my trainers Kumar Bhosaley, Suvigya and TSA for making me conversant with BIM. They helped me throughout my training with BIM Ready Complete and their support is not only limited till the training but they were equally helpful with placements after the course."

Supriya Tandon
TechnoStruct Academy,
BIM Ready Complete

ALUMNI SPEAK

Johnson Controls

ROHITH KANMADE
TSA BATCH

"Thank you Sir!
I had learnt a lot and expanded myself under your trainings. Kiran Sir had mentored me very well and given me those aspects of BIM visualization and methodology."

THANKS A LOT, TEAM TSA"

Rohith Kanmade
TechnoStruct Academy,
BIM Ready Complete

LIVIO

DIPTYAJIT DAS
TECHNOSTRUCT #BATCH_EPSILON

"Thank you so much Sir!
I am working as BIM ENGINEER in Livio Building System, Pune. First of all thanks a lot to my mentor Kiran S Mohan, I really enjoyed learning this time. He guided me in the best possible way throughout the industry training. I practiced them with other projects too and that's how I cracked the interview..
Thanks a lot to you Sir for your support."

Diptyajit Das
TechnoStruct Academy,
BIM Ready Complete

ASC TECHNOLOGY SOLUTIONS

KAILASH
TECHNOSTRUCT FAM N OCEAN BATCH

"Thank you so much!
Special Thanks to Rajat Sir and Pragatheesh Sir! Cracked more than 5 companies like BASE4, ASC TECHNO, TREISTEK, TECHNOVANCE

Joined ASC TECHNOLOGY
Last month as a Jr. BIM Engineer
THANK YOU SIR !

Kailash
TechnoStruct Academy,
BIM Ready Complete

R RELY SERVICES

KRISHNA JOSHI
TECHNOSTRUCT #BATCH_FRERSIA

"Thank you so much Sir!
This month I started working full time with #relyservices at a BIM Modeler position. Cracked more than 3 companies TECHNOVANCE, Hi-Tech iSolution, SAISYSTEM TECHNOLOGY. I had learnt a lot and expanded myself under your trainings. Rajat Sir mentored me very well and taught me those aspects of BIM visualisation and methodology. Many thanks to Mr. Rajat Badyal Sir and Team TSA"

Krishna Joshi
TechnoStruct Academy,
BIM Ready Complete

KAUTUK WALKADE

"I am thankful to Technostruct Academy and its management team for their supportive nature. I got to learn all BIM concepts and TSA helped me to improve my software skills and knowledge with the guidance of professional faculty.
After this course, I got a job in a leading MNC. Being a fresher I feel that TSA was the best choice to jumpstart my career in BIM Technology."

Kautuk Walkade
TechnoStruct Academy,
BIM Ready Complete

ISP INTERNATIONAL SERVICE PARTNERS, LLC

SHUBHAM SURVE
TECHNOSTRUCT #BATCH_VENUS

"Recently, I got an opportunity in Scan to Bim in International Service Partners, Surat. Actually my profile is Scan to Bim Modeller. Thank you so much for helping and guiding me on the right career path.

THANKS A LOT, TEAM TSA"

Shubham Surve
TechnoStruct Academy,
BIM Ready Complete

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