



MICHIGAN STATE UNIVERSITY

Presents

Google Bay View



Project by - TechnoStruct LLC

BIM-READY[®] COMPLETE

Global Academic Partner- TechnoStruct Academy

MICHIGAN STATE
UNIVERSITY

School of Planning, Design
and Construction

MICHIGAN STATE UNIVERSITY

HOME OF THE SPARTANS

Michigan State University (MSU) stands as a beacon of academic excellence and innovation, etching its mark as one of the premier institutions in the United States. Nestled in East Lansing, MSU stands as a rich legacy of over 165 years, shaping the minds of countless leaders, thinkers, and professionals.

Renowned for its top-tier research, diverse academic programs, and commitment to fostering a vibrant community, MSU stands at the forefront of higher education. It offers a diverse array of courses spanning various disciplines, from engineering and business to arts and sciences, catering to students' diverse academic interests. With over 200 undergraduate and graduate programs, MSU provides opportunities for students to pursue their passions and excel in their chosen fields.

Ranked Amongst
Top 100
Global
Universities

17
Degree Granting
Colleges

700+
Student Clubs &
Academic
Organizations

50,000+
UG & PG
Students

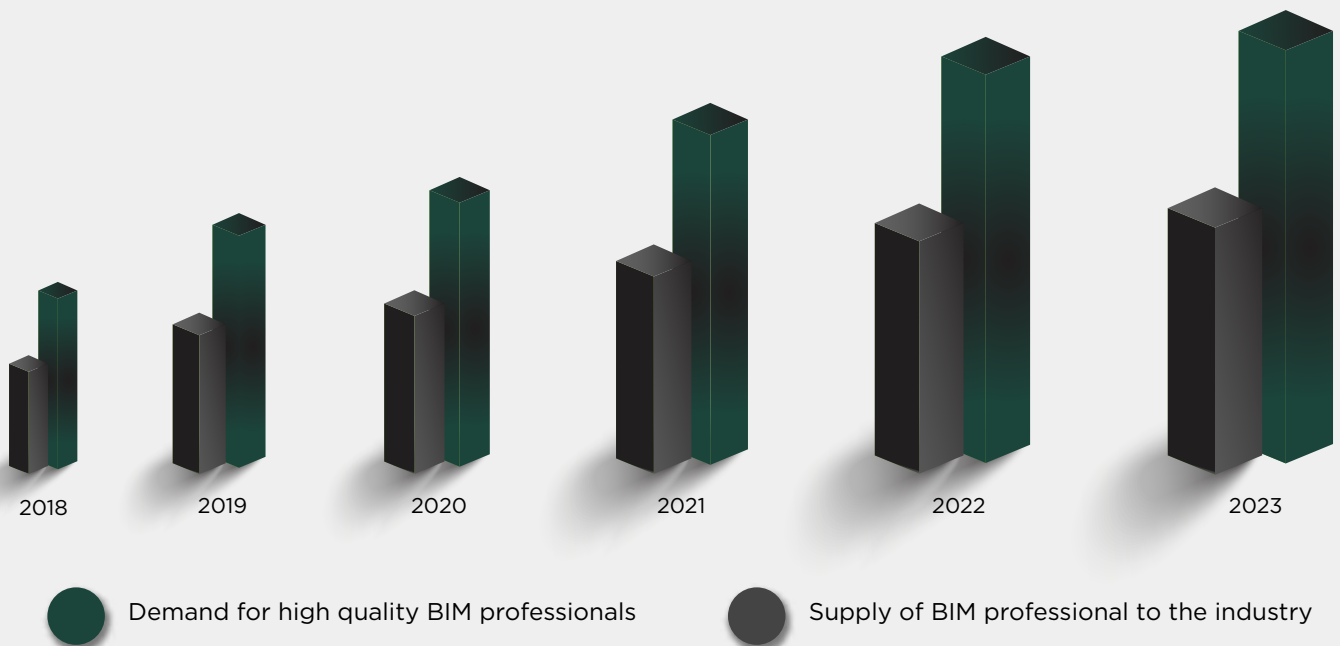
More information on MSU can be found at: msu.edu



What is BIM?

Building Information Modeling (BIM) is a collaborative process, allowing multiple stakeholders like architects, engineers, and construction (AEC) professionals to work together on the planning, designing, and construction of projects through a 3D model. It provides a real-time update at each stage of the process

Supply Demand Analysis of BIM Industry



Demand for high quality BIM professionals is rising



The supply of BIM professionals in the industry is very less

There is a huge talent void in the industry which needs to be filled.

What is BIM-Ready® Complete ?

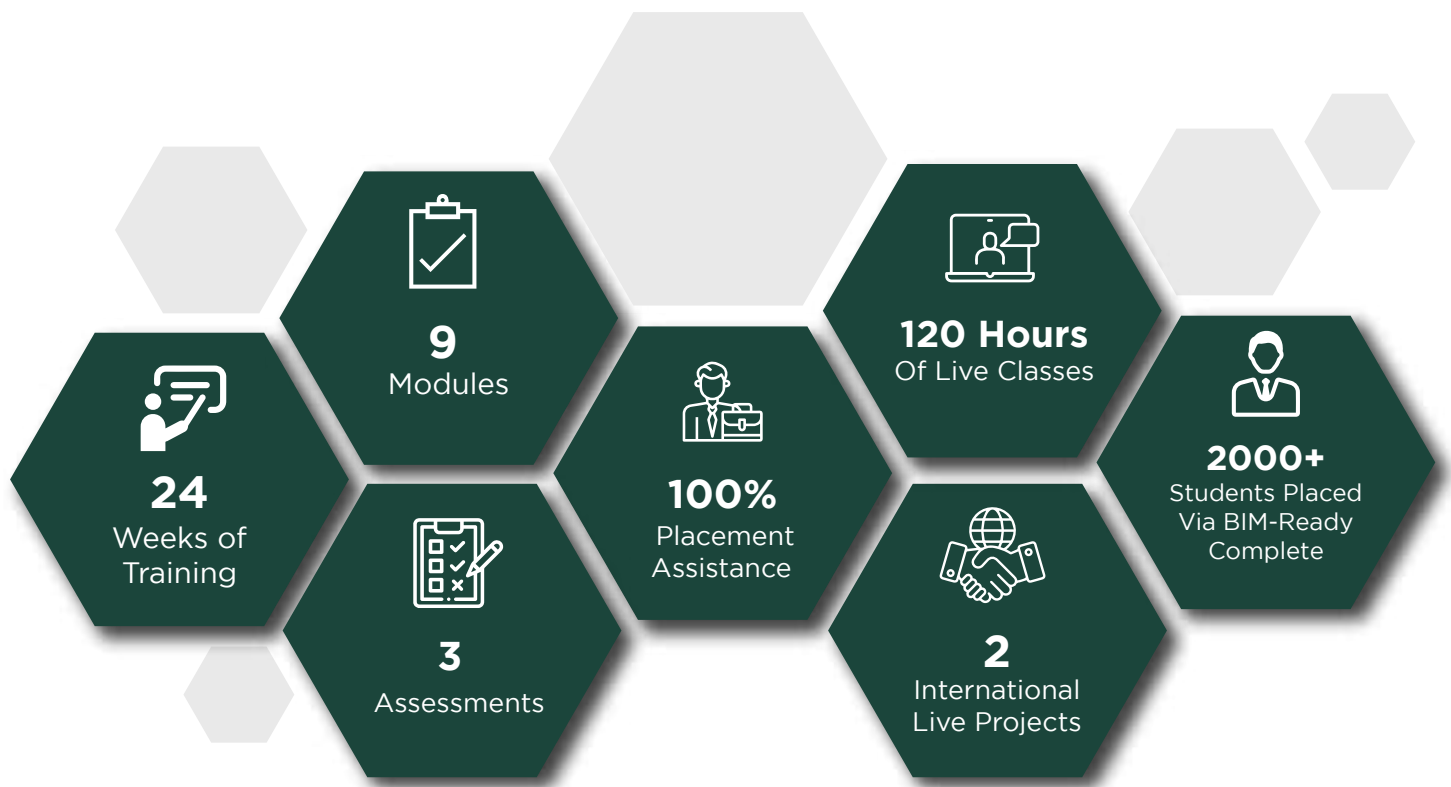
BIM-Ready Complete is an International Certification in BIM Modeling and coordination. It is one of the most practical and innovative academic programs designed to meet the requirements of the AEC industry and help with the BIM Coordination Training, which is ideal for professionals and students from Architecture, Civil, Mechanical & Electrical Engineering backgrounds.

This program is certified by ACCE (American Council for Construction Education) making it a global premium program.



Course Highlights

- Excel in ASMEPF disciplines as a BIM expert, navigating open BIM seamlessly
- Explore the latest BIM software and methodologies for effective project lifecycle implementation
- Get 1:1 personalized guidance and daily interactions, ensuring program alignment with your operations, and guaranteed placement based on your career aspirations.
- Experience personalized mentoring in our Final Project Internship for exceptional growth
- Free lifetime membership to the TSA placement cell.



Who can apply?

- ✓ Architects
- ✓ Civil engineers
- ✓ Mechanical engineers
- ✓ Electrical engineers
- ✓ Construction professionals

Final year students & working professionals can apply for this program



Academic Curriculum

Module 01

4 Hours

Orientation Program

- Program Overview: Learn about academic programs and course options.
- IT and Tech support: Software installations and access to learning portal.
- Community Building: Connect with peers from similar backgrounds.
- Career Prep: Placement orientation and career path visualization.

Module 02

3 Hours

Introduction to BIM

- BIM Introduction part offers the broad understanding of BIM terminologies, LODs, BIM Maturity and BIM standards used globally in AEC projects.

Module 03

7 Hours

Introduction to BIM Authoring

- Exposure to BIM authoring tools where a student will learn about initial project setup.



Module 04

23 Hours

BIM Architecture Design Development

- Modeling of architectural components
- Landscaping and site
- Parametric content creation for architecture (Family)
- Detailing and creation of shop drawings
- Extraction of Bill of Quantities (BOQ) and Bill of Materials (BOM)..



Module 05

17 Hours

BIM in Structure Design Development

- Modeling of Structural components
- Parametric content creation for structure (Family)
- Detailing and creation of shop drawings
- Extraction of Bill of Quantities (BOQ) and Bill of Materials (BOM).



Module 06

46 Hours

BIM in MEPF Design Development

- Modeling of Mechanical Systems
- Modeling of Plumbing Systems
- Modeling of Fire Protection Systems
- Modeling of Electrical Systems (ELV, HV, LV)
- Parametric content creation for MEPF (Family)
- Detailing and creation of shop drawings
- Extraction of Bill of Quantities (BOQ) and Bill of Materials (BOM).



Module 07

13 Hours

Coordination and Field Management

- Performing ASMEPF coordination (clash detection)
- Simulation and Project Timeline
- Online BIM collaboration and Model management
- RFI and construction issues management.



Module 08

8 Hours

Cutting-Edge Technologies in BIM

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



Module 09

Final Project Thesis Submission

This integrated project internship program exposes students to a live US project of TechnoStruct LLC in California, where they will work on complex BIM projects from the start of the program. Participants are moulded on international projects to create BIM models, coordinate between various discipline stakeholders, and produce shop drawings and fabrication drawings for construction.

Key Contents:

- ✔ CV & Portfolio Session
- ✔ Mock Interviews
- ✔ Final Tool Test
- ✔ Entry to Placement Cell

3 Placement Sessions

 Convocation

Software you will learn

B AUTODESK®
BIM 360™

 **BIMTRACK**™

 AUTODESK®
CONSTRUCTION
CLOUD

 **Dynamo**

 **ENSCAPE**™

R AUTODESK®
REVIT™

N AUTODESK®
NAVISWORKS®

 AUTODESK®
RECAP

R AUTODESK® ROBOT
STRUCTURAL ANALYSIS
PROFESSIONAL

Career Growth Prospects

Upon graduation from the BIM Ready Complete course, students will emerge as versatile professionals, equipped to excel as BIM engineers, architects, and coordinators in the forefront of modern design and construction.



By completing this course, you can directly jump to becoming a BIM Co-ordinator from being an engineer/architect.

Architect



Head of Department Architecture

BIM Manager Architecture

BIM Lead Architecture

BIM Co-ordinator

BIM Architect



Civil Engineer



Head of Department Structure

BIM Manager Structure

BIM Lead Structure

BIM Co-ordinator

BIM Engineer



Mech/Elec. Engineer



Head of Department MEP

BIM Manager MEP

BIM Lead-MEP

BIM Co-ordinator

BIM-MEP Engineer



Certifications



Michigan State University Certification



Work Experience Certificate from
TechnoStruct LLC, California

Expert Mentor



Dr. Matt Syal
LEED®AP, CPC, CGP

Dr. Matt Syal, a distinguished professor in Construction Management at the School of Planning, Design, and Construction at MSU. He brings a wealth of expertise with over 30 years of industry experience across the globe. As a LEED® accredited professional and prolific researcher, he has led numerous projects and authored over 100 refereed/professional papers. Prof. Syal's guidance and insights enrich the educational journey of aspiring professionals in the field. He takes the stage to deliver expert lectures in the transformative BIM-Ready Complete course!

Course Information

Course Duration	6 Months
Language	English
No of Modules	9
Certificate issued by	Michigan State University
Eligibility	Architecture, Civil, Mechanical, and Electrical Engineering students or professionals



TechnoStruct Academy &
School of Planning, Design and Construction
Michigan State University

Award this certificate to

Robert Edwin Lumbera

In recognition of successful completion of
Advanced Postgraduate Training in Building Information Modeling

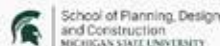
January 2025



Parth Makwana
TSA Training Coordinator



Armin Yeganeh, Ph.D
MSU-SPDC Training Coordinator



Advanced Postgraduate Training
in **Building Information Modeling**

Gain 4 Official Autodesk Certifications: Industry-Recognized Globally!



Work Experience Letter From TechnoStruct LLC, CA, USA



Date: Monday, 10 February 2025

To Whomever It May Concern

This is to certify that Students Name has completed the International Certification in BIM Modeling & Coordination course successfully. The certificate is enclosed with this letter.

The course included **120** days of classroom training with an **integrated internship** for the period **9th April 2024 – 20th December 2025**. As an intern, they have worked on an **affordable living and community space project** with a total built-up area of approximately **165,830 square feet** for the project **HUNTERS POINT SHIPYARD BLOCKS 52 & 54** and a **healthcare project** with a total built-up area of approximately **301,435 square feet** for the project **San Jose Behavioral Health Hospital**.

The project description is as follows:

- ✚ Project Name: HUNTERS POINT SHIPYARD BLOCKS 52 & 54
- ✚ Project Location: 151 & 351 FRIEDEL St, USA
- ✚ Project Area: 165,830 square feet
- ✚ Scope of Work: Creation of BIM Models, BIM Coordination, Extraction of shop drawings and BOQ.

- ✚ Project Name: San Jose Behavioral Health Hospital
- ✚ Project Location: San Jose, California
- ✚ Project Area: 301,435 square feet
- ✚ Scope of Work: Creation of BIM Models and BIM Coordination

The attached certificate is verifiable via the QR Code present in the certificate. For any further information on the student or the course, please feel free to contact the undersigned.

Thank you,

Roy Aniruddha
Founder Director & Business Head
TechnoStruct, LLC

TECHNOSTRUCT, LLC.
643 Beir Island Road | Suite 101,
Redwood City, CA 94063
www.technostruct.com

Placement

BIM Ready Complete Graduates **work with the best**

Our Alumni work at some of the most prestigious and reputed companies in the AEC industry. Our placement assistance doesn't stop with you landing your first job. We continue to provide career guidance and job assistance throughout your career lifetime placement assistance.

100%

Placement assistance
in top global MNCs

70-80%

Average Salary hike

95%

Placement record
for last 8 yrs

200+ MNCs across the globe are partnered with our Placement Cell



Service providers



TechnoStruct LLC is a licensed Design Engineering firm headquartered in California. TechnoStruct is a pioneer in Design & Construction technology, offering localized Engineering and BIM/VDC services, ensuring timely and budget-friendly projects. As a leading BIM global company, the VDC solutions drive better decisions and faster design interpretation.



TechnoStruct Academy (TSA) is the education arm of Technostruct and is recognised as one of the leading institutes globally for Building Information Modelling (BIM) Education.

TechnoStruct has been making inroads into some of the most prestigious projects globally, including Google Bayview project, Apple Headquarters, SFO International Airport Extension, Transbay Transit Center, New Stanford Hospital, Lucile Packard Children Hospital (LPCH), Ford Research, and Innovation Center, Kaiser Permanente Medical Buildings, to name a few.

Our Notable Projects



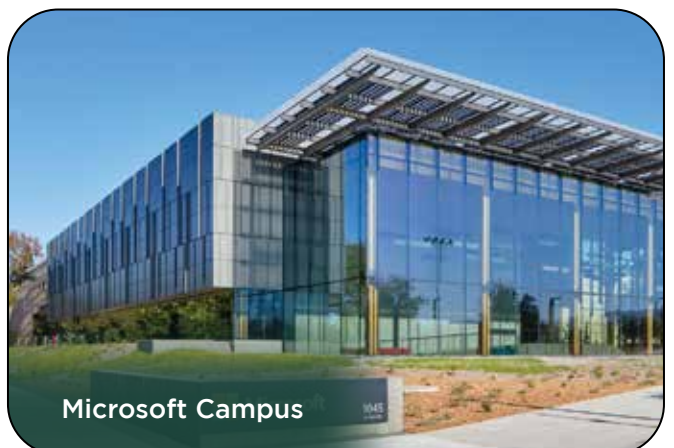
Apple Park



San Francisco International Airport



Meta Headquarters



Microsoft Campus

Listen To What Our **Alumni** Have To Say



Slim Barbouche,
Tunisia

The BIM-READY COMPLETE course at TechnoStruct Academy was fantastic! It gave me practical skills and my internship was really productive, preparing me well for the industry. I enjoyed my time here and I'm thankful for the experience.



Stephen Terhorst,
Germany

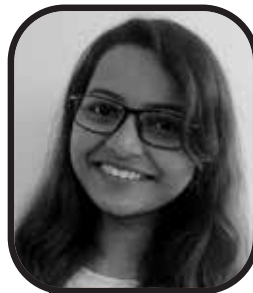
Completing the BIM
READY COMPLETE
course at

TechnoStruct Academy was an enlightening experience, equipping me with invaluable skills in BIM. My internship at TechnoStruct further amplified my learning, providing hands-on exposure to real-world projects and nurturing my growth as a BIM professional.



Marian Hakim,
Tunisia

The BIM-READY COMPLETE course at TechnoStruct Academy was fantastic! It gave me practical skills and my internship was really productive, preparing me well for the industry. I enjoyed my time here and I'm thankful for the experience.



Shipra Raman,
India

The course is very well structured covering topics from AutoCAD, 2D 3D MEP to Revit architecture, Revit structure, Revit MEP, as well as Dynamo, and Navisworks. The staff is really helpful with clearing my doubts and very supportive and accommodating.



Ovais Hamid, India

I'm fortunate enough that I got an opportunity to work under the guidance and mentorship of professionally trained subject experts an, Dr. Divya Shree, and Mr. Pragatish for being there to mentor us and clearing all our doubts at every single stage of this course.

Now, I feel confident enough and optimistic about landing myself a substantial employer just because of TechnoStruct Academy.

Elevate your Future in the AEC Industry with
BIM-Ready® Complete by
**MICHIGAN STATE
UNIVERSITY**

Enroll Now

Contact- +1 209-330-9013/ +91-89107-20119

Or mail us at: coordinator@technostruct.com