



# MICHIGAN STATE UNIVERSITY

Presents



Project by - TechnoStruct LLC

## BIM-READY<sup>®</sup> 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

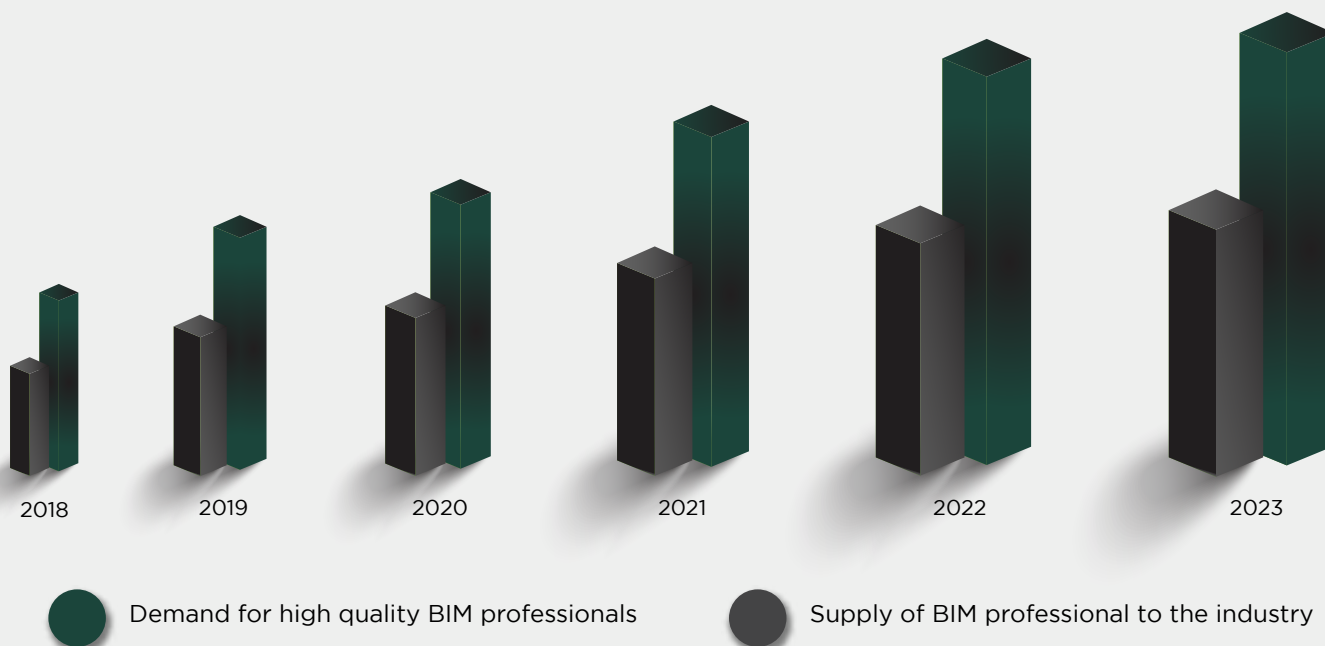
More information on MSU can be found at: [msu.edu](https://msu.edu)



## 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<sup>®</sup> Complete ?

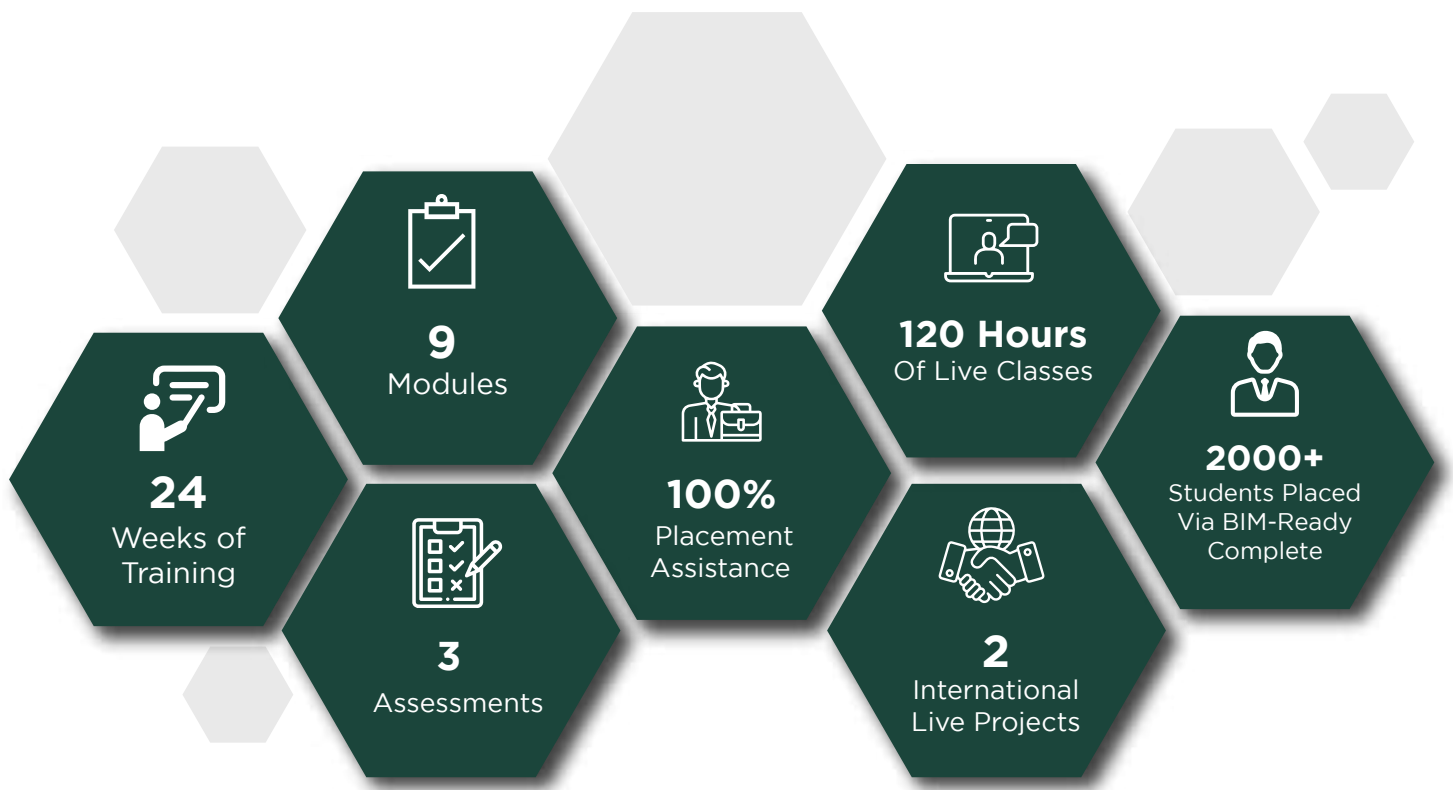
BIM-Ready Complete is an International Certification in BIM Modeling and coordination. It is one of the most practical and innovative academic programs designed to meet the requirements of the AEC industry and help with the BIM Coordination Training, which is ideal for professionals and students from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

5 Hours

## Introduction to BIM Authoring

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



Module 04

16 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

11 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

48 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

12 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


 AUTODESK<sup>®</sup>  
BIM 360<sup>™</sup>


 BIMTRACK<sup>™</sup>


 AUTODESK<sup>®</sup>  
CONSTRUCTION  
CLOUD


 Dynamo

 ENSCAPE<sup>™</sup>

 AUTODESK<sup>®</sup>  
REVIT<sup>™</sup>

 AUTODESK<sup>®</sup>  
NAVISWORKS<sup>™</sup>

 AUTODESK<sup>®</sup>  
RECAP

 AUTODESK<sup>®</sup> 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



# Triple Certification Program



Michigan State University Certification



International Post Graduate 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
Last date to apply	29-03-24
Commence date	01-04-24

Program Fees

~~\$2,000~~

Inaugural offer \$1,600

**Fee payment plan-** Flexible Payment Options: Pay your tuition fees upfront or in two easy installments.

## 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



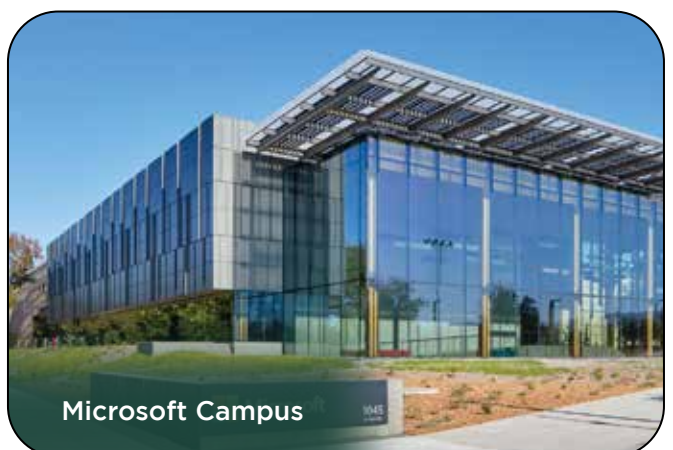
TechnoStruct LLC is a licensed Design Engineering firm headquartered in California. TechnoStruct is a pioneer in Design & Construction technology, offering localized Engineering and BIM/VDC services, ensuring timely and budget-friendly projects. As a leading BIM global company, the VDC solutions drive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



# 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

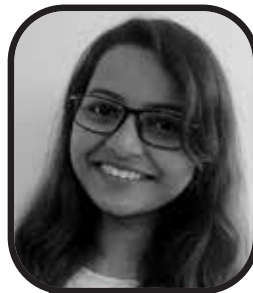
Completing the BIM READY COMPLETE course at

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<sup>®</sup> Complete**

**Enroll Now!**

[msu.edu](https://msu.edu)

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Or mail us at: [coordinator@technostruct.com](mailto:coordinator@technostruct.com)