CAD/CAM
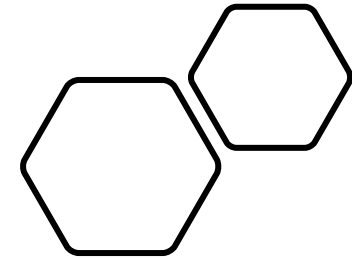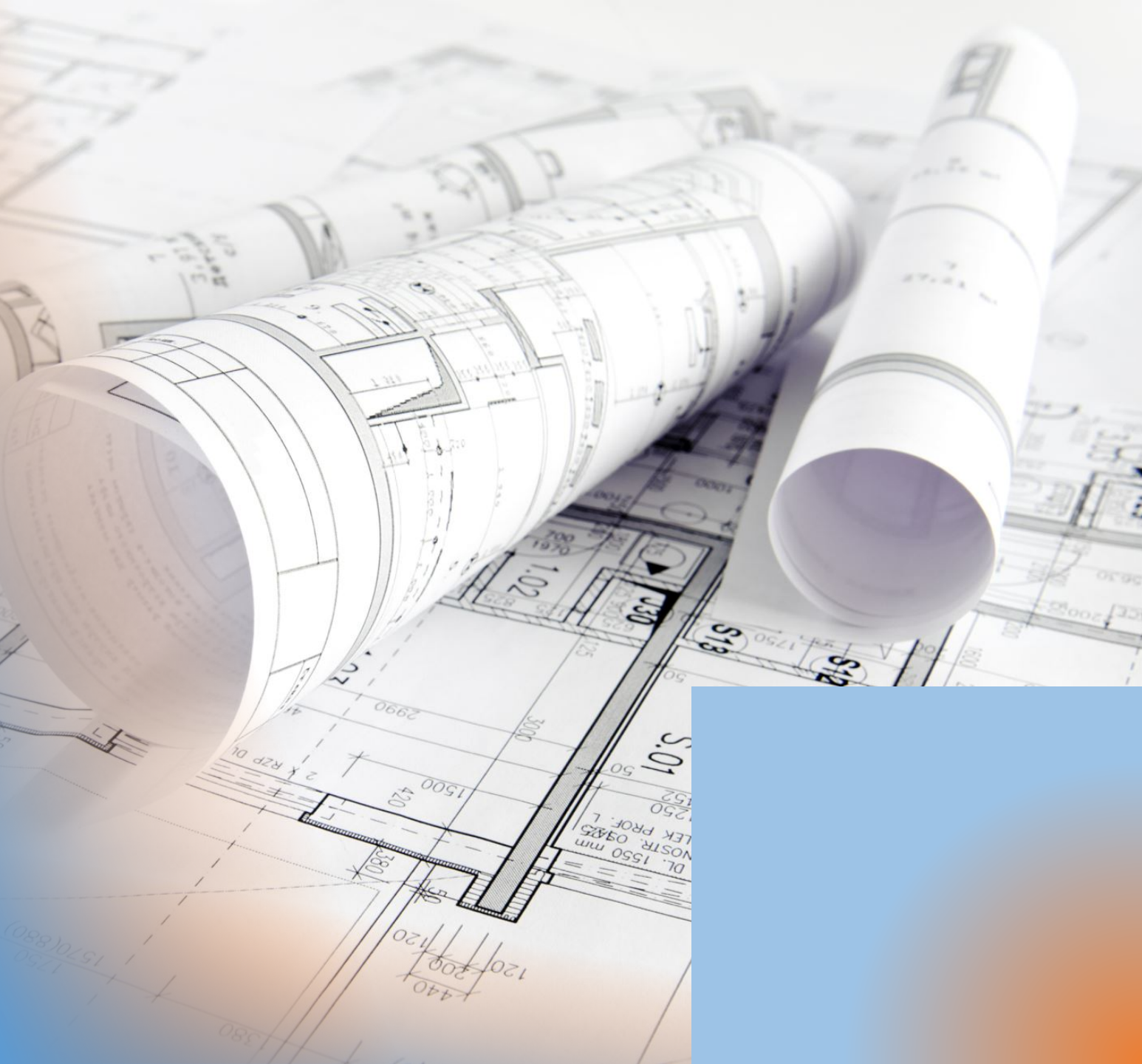# Architecture Course

BAVARSITY Campus

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Course Overview

The CAD/CAM Architecture Course is designed for individuals aspiring to create detailed architectural designs, 2D models, and realistic renders of homes and buildings

In this 20-module course, you will learn the ins and outs of Computer-Aided Design (CAD) and Computer-Aided Manufacturing (CAM) technology to bring your architectural visions to life

Whether you're a budding architect, interior designer, or simply passionate about architectural visualization, this course equips you with the skills to design and present your ideas professionally

Module 1 Introduction to CAD and CAM in Architecture

- Understand the role of CAD and CAM in architectural design

- Explore the software tools used in the field

MODULE 2 ARCHITECTURAL DRAWING FUNDAMENTALS

- Master the basics of architectural drawing

- Learn to create accurate floor plans and elevations

Module 3
2D Modelling
Techniques
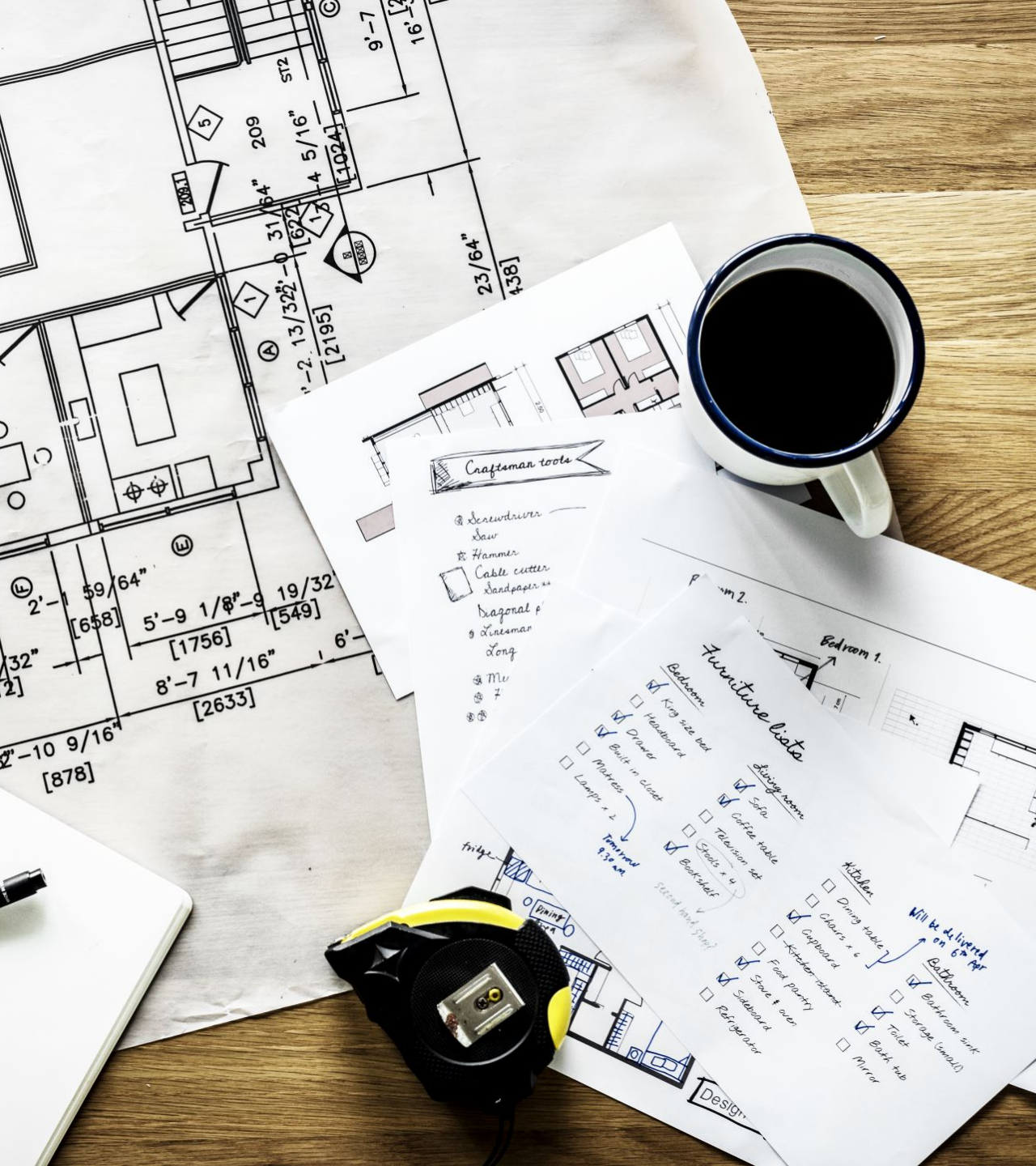
• Develop 2D modelling skills for architectural schematics

• Create precise and scaled drawings

Module 4
Introduction to CAD Software

• Get acquainted with CAD software interfaces

• Explore the fundamental tools and commands

Module 5
Creating Floor Plans

- Learn to design detailed floor plans for homes and buildings

- Incorporate measurements, layouts, and notations

Module 6 Elevations and Sections

- Understand how to create elevation views and cross-sections

- Incorporate architectural details and annotations

Module 7
Interior Design and Spatial Planning

- Explore interior design concepts and spatial planning

- Design functional and aesthetically pleasing interior
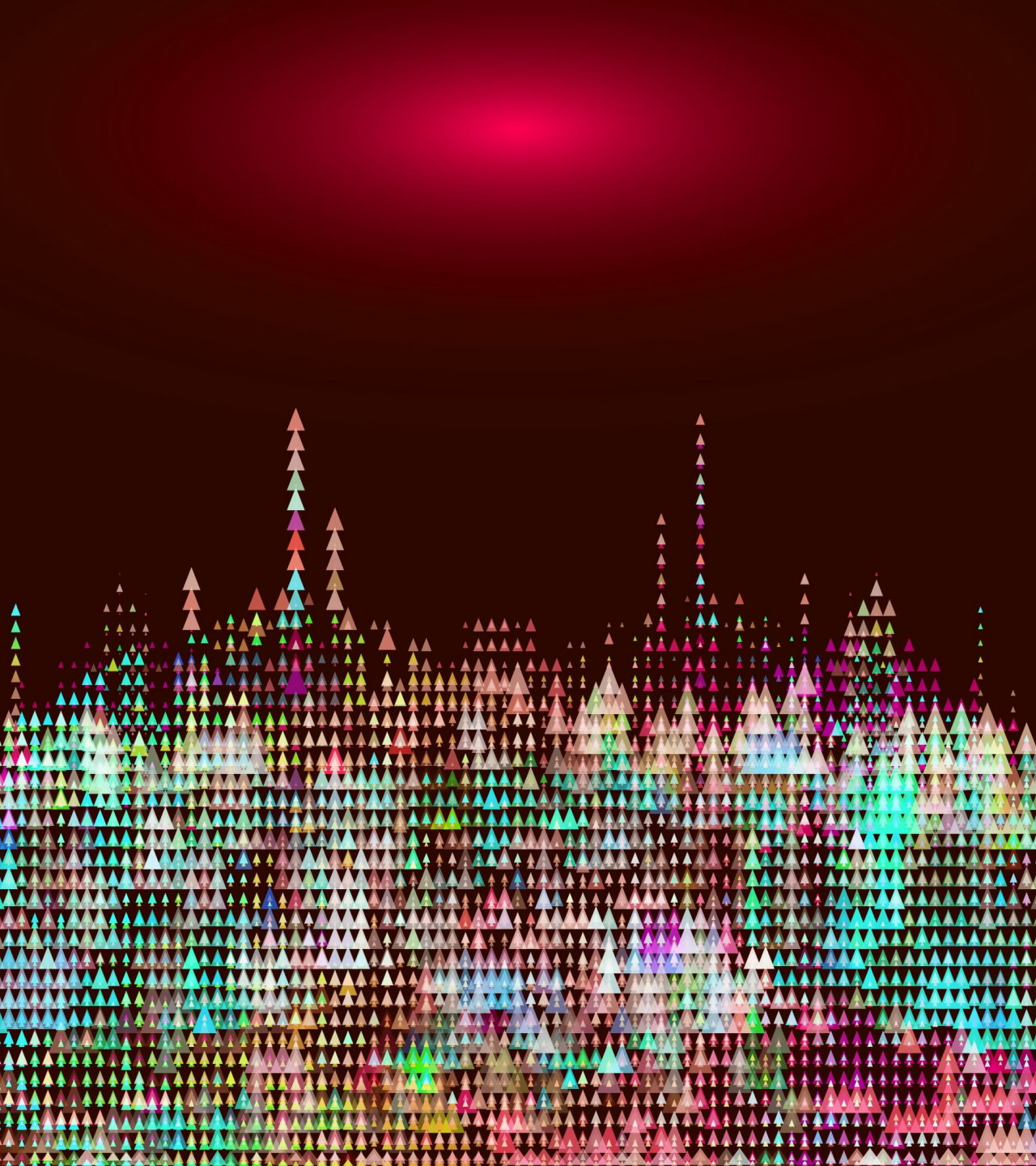
Module 8
CAD Software Proficiency

- Enhance your CAD software skills

- Work on complex architectural designs and project

Module 9
3D Modelling and Rendering

- Dive into 3D modelling and rendering techniques

- Create lifelike 3D architectural models and visualizations

Module 10
Lighting and Materials

- Understand how lighting and materials affect architectural renders

- Achieve realism in your designs
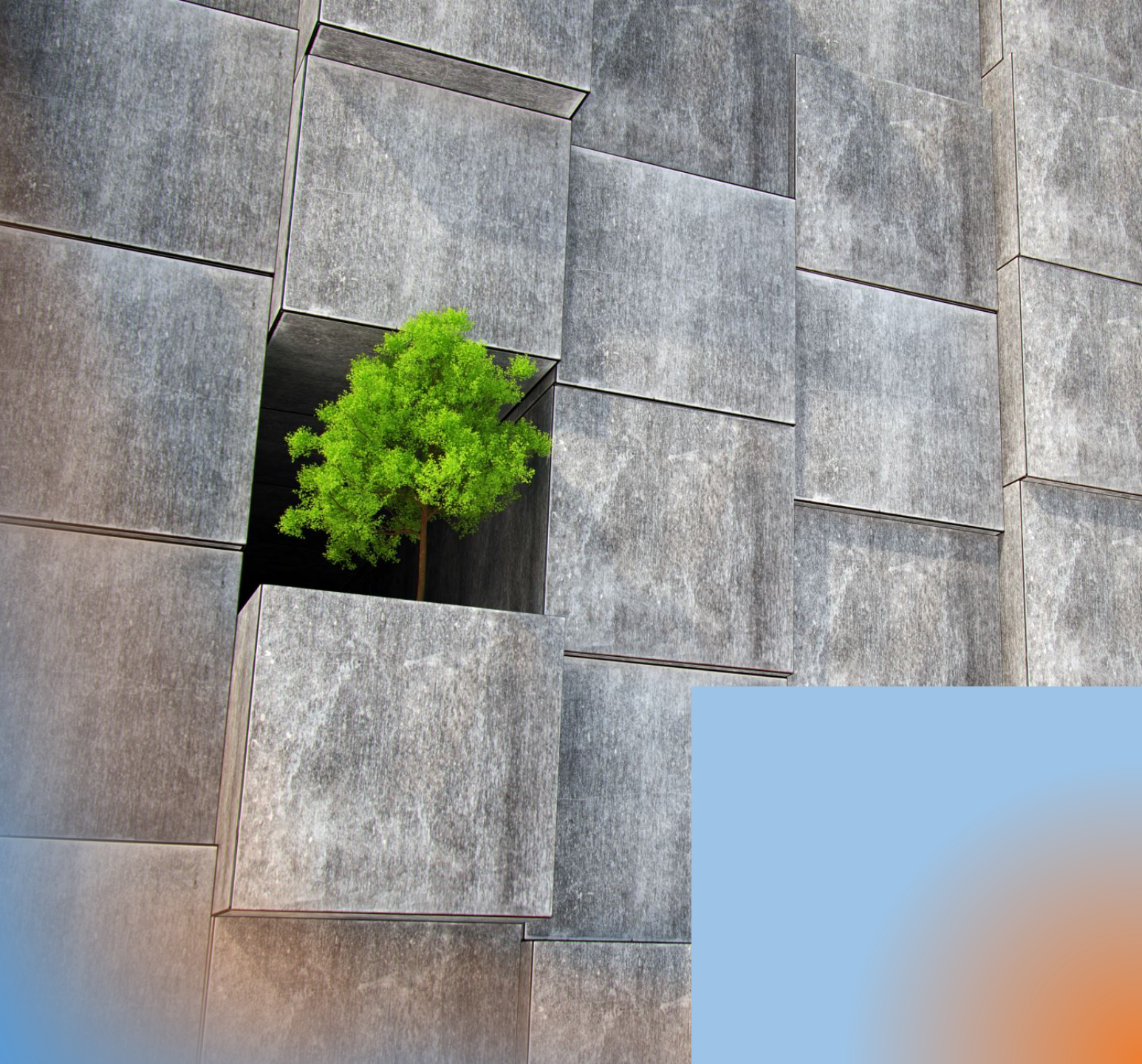
Module 11
Landscaping and
Outdoor Spaces

- Design outdoor spaces, gardens, and landscapes

- Integrate green spaces with your architectural projects

Module 12
Sustainable and Eco-Friendly Design

- Explore sustainable architectural design principles

- Create eco-friendly and energy-efficient designs

MODULE 13
CAD/CAM in Building Construction

- Learn how CAD/CAM technology is utilized in building construction

- Understand its role in optimizing construction processes

Module 14
Advanced 3D Rendering

- Master advanced 3D rendering techniques for stunning visualizations

- Add realism and ambiance to your designs
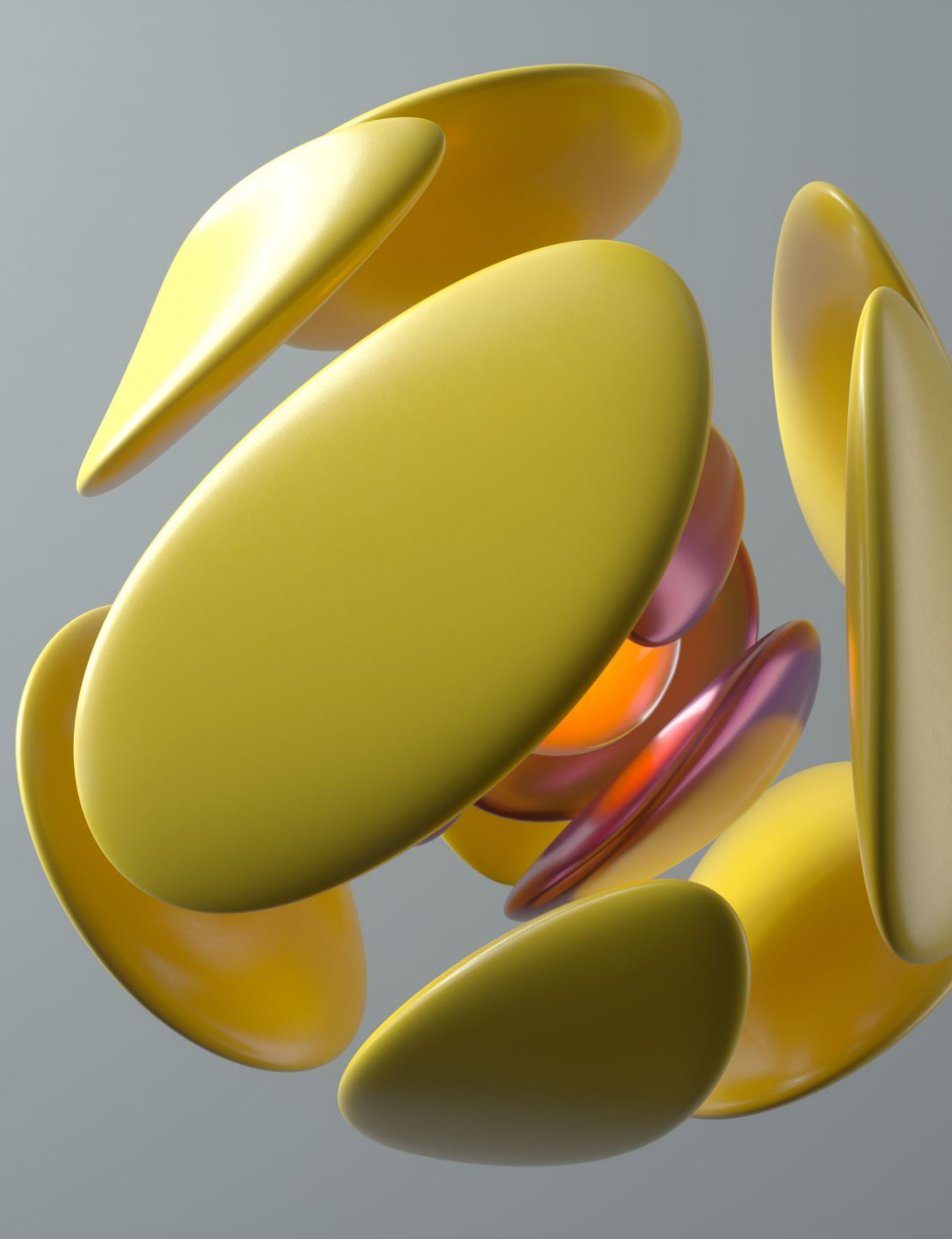
Module 15 Architectural Presentation

- Prepare professional architectural presentations

- Learn how to effectively communicate your design ideas

Module 16
Design Software Integration

- Explore how CAD/CAM tools can be integrated with other design software

- Enhance your workflow and productivity

Module 17
Building Codes and Regulations

- Understand local building codes and regulations

- Ensure compliance and safety in your designs

MODULE 18
Architectural Portfolio Development

- Create an impressive portfolio showcasing your work

- Prepare for job interviews and client presentations
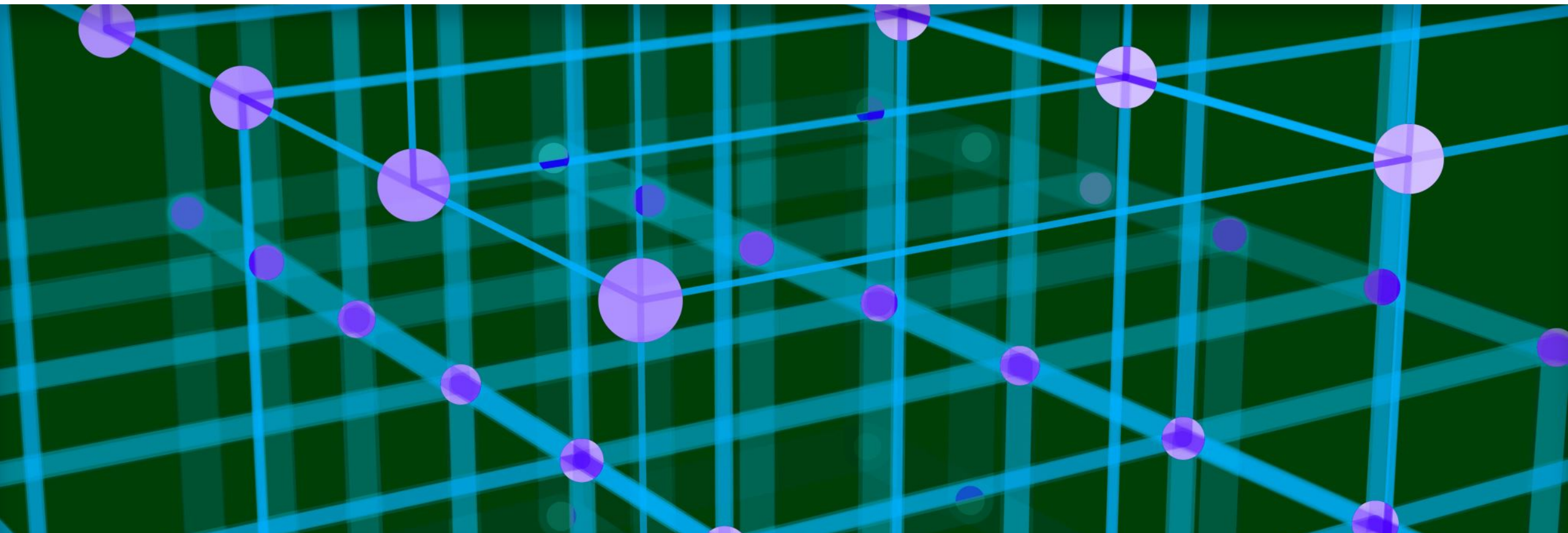
Module 19
Project Management in Architecture

- Learn project management skills specific to architectural projects

- Plan, budget, and execute projects effectively

Module 20
Capstone Project and Graduation

- Complete a comprehensive architectural design project

- Showcase your skills and creativity in a final exhibition

Upon completing this course, you will be well-equipped to pursue a rewarding career in architecture, interior design, or architectural visualization

You'll have the skills and portfolio to make your mark in the world of architectural design and presentation

BAVARSITY Campus - Paternoster

COURSE - CAD/CAM ARCHITECTURE COURSE

	STARTING	ENDING
AD1.1 MODULE 1: INTRODUCTION TO CAD AND CAM IN ARCHITECTURE	4 March 2024	4 March 2024
AD1.2 MODULE 2: ARCHITECTURAL DRAWING FUNDAMENTALS	5 March 2024	5 March 2024
AD1.3 MODULE 3: 2D MODELLING TECHNIQUES	6 March 2024	6 March 2024
AD1.4 MODULE 4: INTRODUCTION TO CAD SOFTWARE	7 March 2024	7 March 2024
AD1.5 MODULE 5: CREATING FLOOR PLANS	8 March 2024	8 March 2024
AD1.6 MODULE 6: ELEVATIONS AND SECTIONS	11 March 2024	11 March 2024
AD1.7 MODULE 7: INTERIOR DESIGN AND SPATIAL PLANNING	12 March 2024	12 March 2024
AD1.8 MODULE 8: CAD SOFTWARE PROFICIENCY	13 March 2024	13 March 2024
AD1.9 MODULE 9: 3D MODELLING AND RENDERING	14 March 2024	14 March 2024
AD1.10 MODULE 10: LIGHTING AND MATERIALS	15 March 2024	15 March 2024
AD1.11 MODULE 11: LANDSCAPING AND OUTDOOR SPACES	18 March 2024	18 March 2024
AD1.12 MODULE 12: SUSTAINABLE AND ECO-FRIENDLY DESIGN	19 March 2024	19 March 2024
AD1.13 MODULE 13: CAD/CAM IN BUILDING CONSTRUCTION	20 March 2024	20 March 2024
AD1.14 MODULE 14: ADVANCED 3D RENDERING	21 March 2024	21 March 2024
AD1.15 MODULE 15: ARCHITECTURAL PRESENTATION	22 March 2024	22 March 2024
AD1.16 MODULE 16: DESIGN SOFTWARE INTEGRATION	25 March 2024	25 March 2024
AD1.17 MODULE 17: BUILDING CODES AND REGULATIONS	26 March 2024	26 March 2024
AD1.18 MODULE 18: ARCHITECTURAL PORTFOLIO DEVELOPMENT	27 March 2024	27 March 2024
AD1.19 MODULE 19: PROJECT MANAGEMENT IN ARCHITECTURE	28 March 2024	28 March 2024
AD1.20 MODULE 20: CAPSTONE PROJECT AND GRADUATION	29 March 2024	29 March 2024

COURSE - CAD/CAM Architecture Course	STARTING	ENDING
AD1.1 MODULE 1: INTRODUCTION TO CAD AND CAM IN ARCHITECTURE - REMOTE ASSIGNMENTS	! April 2024	11 April 2024
AD1.2 MODULE 2: ARCHITECTURAL DRAWING FUNDAMENTALS - REMOTE ASSIGNMENTS	11 April 2024	25 April 2024
AD1.3 MODULE 3: GARMENT CONSTRUCTION BASICS - REMOTE ASSIGNMENTS	6 May 2024	16 May 2024
AD1.4 MODULE 4: INTRODUCTION TO CAD SOFTWARE - REMOTE ASSIGNMENTS	20 May 2024	30 May 2024
AD1.5 MODULE 5: CREATING FLOOR PLANS - REMOTE ASSIGNMENTS	3 June 2024	13 June 2024
AD1.6 MODULE 6: ELEVATIONS AND SECTIONS - REMOTE ASSIGNMENT	17 June 2024	27 June 2024
AD1.7 MODULE 7: INTERIOR DESIGN AND SPATIAL PLANNING - REMOTE ASSIGNMENT	1 July 2024	11 July 2024
AD1.8 MODULE 8: CAD SOFTWARE PROFICIENCY - REMOTE ASSIGNMENT	15 July 2024	25 July 2024
AD1.9 MODULE 9: 3D MODELLING AND RENDERING - REMOTE ASSIGNMENT	5 August 2024	15 August 2024
AD1.10 MODULE 10: LIGHTING AND MATERIALS - REMOTE ASSIGNMENT	19 August 2024	29 August 2024
AD1.11 MODULE 11: LANDSCAPING AND OUTDOOR SPACES - REMOTE ASSIGNMENT	2 September 2024	12 September 2024
AD1.12 MODULE 12: SUSTAINABLE AND ECO-FRIENDLY DESIGN - REMOTE ASSIGNMENT	16 September2024	26 September 2024
AD1.13 MODULE 13: CAD/CAM IN BUILDING CONSTRUCTION - REMOTE ASSIGNMENT	1 October 2024	10 October 2024
AD1.14 MODULE 14: ADVANCED 3D RENDERING - REMOTE ASSIGNMENT	14 October 2024	24 October 2024
AD1.15 MODULE 15: ARCHITECTURAL PRESENTATION - REMOTE ASSIGNMENT	4 November 2024	14 November 2024
AD1.16 MODULE 16: DESIGN SOFTWARE INTEGRATION - REMOTE ASSIGNMENT	18 November 2024	28 November 2024
AD1.17 MODULE 17: BUILDING CODES AND REGULATIONS - REMOTE ASSIGNMENT	2 December 2024	12 December 2024
AD1.18 MODULE 18: ARCHITECTURAL PORTFOLIO DEVELOPMENT - REMOTE ASSIGNMENT	13 January 2025	23 January 2025
AD1.19 MODULE 19: PROJECT MANAGEMENT IN ARCHITECTURE - REMOTE ASSIGNMENT	3 February 2025	13 February 2025
AD1.20 MODULE 20: CAPSTONE PROJECT AND GRADUATION - REMOTE ASSIGNMENT	17 February 2025	27 February 2025

JANUARY 2024

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FEBRUARY 2024

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APRIL 2024

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JUNE 2024

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JULY 2024

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AUGUST 2024

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SEPTEMBER 2024

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OCTOBER 2024

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NOVEMBER 2024

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DECEMBER 2024

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JANUARY 2025

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FEBRUARY 2025

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MARCH 2025

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APRIL 2025

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MAY 2025

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JUNE 2025

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