Picasso Institute
Nothing Can Stop You

3D MAX RENDERING

Course Outline

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Picasso Institute

We are a family that is passionate about art, publishing it and transferring it from being a luxury, to works of art that are at the core of life and form its patterns and are inseparable from it.Picasso institute, has a new creative vision to reformulate the social beliefs about learning and creativity. We are keen on providing high quality vocational training and determined to boost the Jordanian and the Arab Market with the best graduates who will change the world colors. . Our specializations, training diplomas, are unique, elite and help visualize and create your own future. At Picasso institute, you have to start off with your imagination, we provide you with the means that make this imagination a reality. The tools and the information provided by Picasso professionals emboss an inscription on your hands. As the great artist Pablo Picasso said '' Everyone is born an artist'', we have to protect the artist that lies in you and create tangible art.

Founded in 2014 in Jordan

Branches

- Jordan-Amman
- UAE-Dubai
- UAE-Abu Dhabi
- KSA-Riyadh
- Qatar-Lusail

Course Overview

The 3D Max Rendering Course in Interior Design is designed to teach students the essential skills needed to create realistic and visually engaging 3D renderings for interior spaces. The course introduces students to the fundamentals of 3D Max software, covering navigation, interface, and basic modeling techniques. From there, students will learn to develop detailed interior models, including walls, furniture, and decor, applying textures, materials, and lighting to bring designs to life. A focus on lighting settings and effects, along with an exploration of realistic material rendering, will help students achieve high-quality images that capture the ambiance and detail of the space. By the end of the course, students will be able to create professional-grade renderings that communicate their design ideas effectively and attractively, making this course essential for those looking to excel in the field of interior design visualization.

Course Content

- Introduction to Lighting in 3DMax with Corona Render.
- Introduction to Corona Render and its advantages compared to other render engines.
- Setting Corona Render as the primary engine for the project.
- Understanding lighting types in Corona: Corona Sun, Corona Sky, and Corona Light.
- How to add and modify light sources.
- Practical exercise on creating a scene with basic lighting using Corona Light.
- Advanced Lighting Techniques with Corona Render.
- Realistic interior and exterior lighting techniques in Corona.
- Using IES Lights with Corona for natural lighting.
- Setting up Global Illumination in Corona.
- Working with shadows and reflections to improve lighting quality.
- Practical applications on lighting complex architectural scenes with Corona.
- Introduction to Materials in Corona Render.
- Using the Corona Material Editor.
- Setting up and applying basic materials: metals, wood, and glass.

- Material properties in Corona: reflection, refraction, and scattering.
- Creating Corona materials with maps like Bump and Reflection.
- Practical exercises on applying different materials to objects using Corona.
- Advanced Material Setup with Corona Render.
- Using Corona Multi-Material to create complex materials.
- Applying advanced maps such as Displacement and Normal Maps.
- Setting up complex materials for architectural elements like walls, floors, and glass.
- Using Corona Scatter to dynamically distribute objects on surfaces.
- Practical application on creating advanced materials for an interior scene.
- Final Rendering with Corona Render.
- Corona Render settings for achieving the best render quality.
- Optimizing render speed without sacrificing quality.
- Using Corona Camera to set up scene angles and camera effects.
- Adding post-processing effects within Corona to enhance scenes.
- Rendering a complete architectural scene using advanced Corona techniques.

Course Delivery Method

Classroom

Learning Outcomes

By the end of this course, students will be able to:
- Proficiency in 3D Max Software for Interior Design.
- Navigate and operate the 3D Max interface with confidence, including tools for modeling, modifying, and rendering interior scenes.
- Demonstrate foundational skills in creating and organizing 3D models tailored to interior design.
- Skill in Interior Space Modeling.
- Develop accurate and detailed 3D models of interior elements such as walls, furniture, fixtures, and decor.

- Apply modeling techniques to design and arrange objects in a realistic and functional layout.
- Understanding of Lighting Principles in 3D Rendering.
- Set up and manipulate various lighting types (natural, artificial, and ambient) to achieve realistic interior lighting conditions.
- Utilize lighting techniques to create mood, depth, and atmosphere within interior renderings.
- Select and apply appropriate materials and textures to interior elements, ensuring accurate representation of surfaces like wood, fabric, metal, and glass.
- Use texture mapping and material settings to enhance realism in interior details.
- Produce high-resolution, photo-realistic renderings that capture the design's ambiance and aesthetic.
- Apply post-processing techniques to refine renderings, adjusting color balance, contrast, and other elements to create a polished final image.
- Identify and resolve common rendering challenges, such as lighting errors, material inconsistencies, and rendering times.
- Optimize settings and techniques to balance quality with efficiency, ensuring smooth workflow and effective use of resources.
- Create renderings that effectively communicate design intent, mood, and spatial layout to clients or stakeholders.
- Compile and present a final portfolio of completed renderings, showcasing technical skill, attention to detail, and design vision.

Final Project

- The students will carry out the production of an Interior Design scene based on what has been learned in the 3D Max course, including the application of mood lighting, illumination, and rendering to produce a nearly photorealistic final image.

Requirements for Successfully Passing the Course

- Commitment to attend the training course and not to exceed the permitted absence rate, which is 15% of the number of hours for the training course.
- Submission of the course project.

Who Can Join

At Picasso institute, anyone can join, regardless of their background or experience. Whether you're a beginner or have some prior knowledge, you are welcome to explore and develop your creativity with us. No previous experience is required.

Minimum Age to Join

At Picasso institute, anyone 16 and older can join.

Course Language

At Picasso Institute, the course is structured as follows

- Presentations and course materials are provided in English.
- The explanation and instruction are delivered in Arabic.

Privileges for Students at Picasso Institute

- Visits from the institute to enhance their experience.
- Full access to all institute facilities.
- Opportunities for one-on-one consultations with experts in various fields.
- Participation in many hands-on workshops.
- Exclusive networking events with industry professionals.
- Access to special exhibitions and guest lectures.
- Personalized mentorship to help guide creative projects.
- Opportunities to showcase student work in school-organized exhibitions

At Picasso Institute, we believe that every artist has a unique story to tell and limitless potential to unlock. As you begin this creative journey with us, know that you are not just a student but an integral part of a community that celebrates imagination, passion, and innovation. We are here to support and guide you every step of the way. Stay curious, embrace challenges, and let your creativity shine. We can't wait to see the extraordinary work you will create!

Welcome to the Picasso Institute family!