J.S. University, Shikohabad

Established by UP Govt. Act No. 07 of 2015
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Value Added Course

(Introduction Of 3D Modeling)

Faculty of CIVIL ENGINEERING

	J.S. University, Shikohabad Faculty of Civil Engineering	Value Added Course AY: 2021-22

Introduction Of 3D Modeling

Learning Objective:

This Course will provide knowledge of 3D modeling.

Duration: 30 Hours. (Theory and Practical)

Course Outcomes: -

Maximum Exposure has to be given on Practical Oriented

On successful completion of the course students will be able to:

1) Demonstrate a critical understanding of a range of specialised principles and concepts of 3D modelling for visualisation.
2) Plan and execute a visualisation project, from data provided .
3) Use a range of software to support and enhance 3D modelling work, and undertake critical evaluations of the range of 3D data and models used and created.

	J.S. University, Shikohabad Faculty of Civil Engineering	Value Added Course
		AY: 2021-22

Syllabus Outline

1. **Module-1**

   Simulation & Effects:

   Bind to Space Warp object, Gravity, wind, displace force object, deflectors, FFD space warp, wave, ripple, bomb, Creating particle system through parray, understandingparticle flow user interface, how to particle flow works. 3D Printing

2. **Module-2**

   3DModelling :

   Modeling with Polygons, using the graphite, working with XRefs, Building simple scenes, Building complex scenes with XRefs, using assets tracking, deforming surfaces & using the mesh modifiers, modeling with patches & NURBS.

3. **Module-3**

   Simulation & Effects:

   Bind to Space Warp object, Gravity, wind, displace force object, deflectors, FFD space warp, wave, ripple, bomb, Creating particle system through parray, understanding particle flow user interface, how to particle flow works. 3D Printing

	J.S. University, Shikohabad Faculty of Civil Engineering	Value Added Course
		AY: 2022-22

References:-

1) SketchUp for Civil Engineering and Heavy Construction by Vladimir F. Simonovski

2) Mastering AutoCAD 2019 and AutoCAD LT 2019 by Brian C. Benton, George Omura

(Name of Faculty)	(Name of Faculty)	(Name of Faculty)
Course Coordinator	Dean Academics	Director/Principle/Dean of Faculty/Department
Er. Chhavi Lal Singh	Dr. A Khilet	Er. Amit Yadav