

Modeling and Simulation for Academics

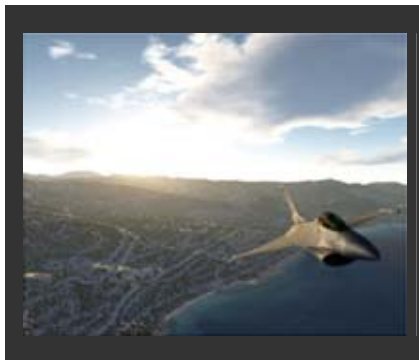
The fast-paced demands of the modeling and simulation community require academic organizations to stay one step ahead of the industry. EDS Technologies in partnership with PRESAGIS- world leader in Visual Simulation solutions provides an ideal framework for rapidly configuring, creating, and deploying advanced simulation applications to ultimately foster innovation at the academic level. By participating with universities and research institutions across the country, we prepare the next generation to meet the demands of our increasingly integrated global reality while encouraging innovation at the same time.

Through Visual simulation courses students are expected to:

- i) Be familiar with various modeling methods.
- ii) Be able to design and perform simple simulation techniques.
- iii) Recognize the approximations and level of accuracy to be expected from each modeling technique.
- iv) Be able to critically read the scientific literature on computational modeling and simulation of scenarios.

Benefits:

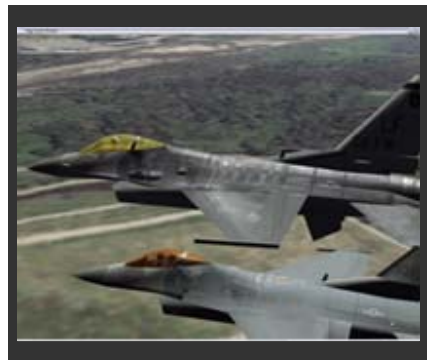
- Creates authentic 3D computer models & digital terrains of significant sites around the world.
- Provides highly realistic simulated training environments for students.
- Achieving the highest possible scientific accuracy for real-time and internet projects.



Screenshot of a 3D scenario rendered using Vega Prime



Cockpit display designed using the Human Machine Interface Tool



Flight models created using Creator

Course concepts of Visual Simulation:

- Creation- Develop highly detailed and immersive content for simulation applications.
- Simulation- Reliable and accurate software to simulate real-world scenarios.
- Visualization- Bring realistic visual experience to simulation applications.
- Human Machine Interface- Rapidly develops dynamic interactive real-time graphical displays.

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