

# HINDU COLLEGE, AMRITSAR

PG Department of  
Computer Science & Multimedia

# ADVANCED MAYA



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# Add on Course

PG Department of Computer Science and Multimedia  
Academic year 2023-2024

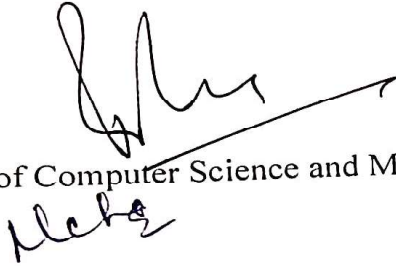
NOTICE

This is for the information of the students that the PG Department of Computer Science and Multimedia is going to start the value added course on 16<sup>th</sup> jan,2023.

| Course Name      | Timings            |
|------------------|--------------------|
| Advanced Editing | 2:20 pm to 3:00 pm |
| Advanced Maya    | 8:20 am to 9:00 am |

Incharge

PG Department of Computer Science and Multimedia



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P.G Department of Computer Science and Multimedia

P.G Department of Computer Science and Multimedia

**Syllabus of Advanced Maya  
(Add on Course)**

| Sr. No. | Topic Name           | Days |
|---------|----------------------|------|
| 1.      | Introduction of Maya | 1    |
| 2.      | Ghost Selected       | 3    |
| 3.      | Skin                 | 5    |
| 4.      | Skeleton             | 5    |
| 5.      | Lighting             | 5    |
| 6.      | Cloth                | 5    |
| 7.      | Hypergraph           | 6    |
| 8.      | Paint Effects        | 5    |
| 9.      | Play blast           | 3    |
| 10.     | Rendering            | 4    |

**Vision of Course:** The goal is to prepare students for outlines the company's long-term goals and aspirations for the future in terms of its growth and impact on the world. Your mission defines what your organization does and what you stand for, while your vision statement speaks to your goals and ideals for the future.

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# Department of Computer Science and Multimedia

## Syllabus of Advanced Editing

### Course outcome

- **Understanding of Maya Interface:** Students will become proficient in navigating the Autodesk Maya interface, including understanding the layout of panels, menus, and toolsets, and using keyboard shortcuts for efficient workflow.
- **Proficiency in 3D Modeling:** Graduates will demonstrate proficiency in creating 3D models using various modeling techniques in Maya, including polygonal modeling, NURBS modeling, and sculpting tools such as the Sculpt Geometry Tool and the Multi-Cut Tool.
- **UV Mapping and Texturing:** Students will learn how to unwrap UVs and apply textures to 3D models in Maya, including creating UV layouts, applying materials, shaders, and textures using the Hypershade editor, and using UV texture editors for precise texture placement.
- **Lighting and Rendering:** Graduates will understand principles of lighting and rendering in Maya, including different types of lights, light properties, shadow types, and rendering techniques using the Maya software renderer or third-party render engines like Arnold or V-Ray.
- **Animation Techniques:** Students will learn animation principles and techniques in Maya, including keyframing, animation curves, constraints, blend shapes, and rigging for character animation using the HumanIK or Biped rigs.
- **Rigging and Character Setup:** Graduates will learn rigging concepts and techniques in Maya, including creating bone structures, skinning, IK/FK systems, controllers, and setting up complex character rigs for animation.
- **Particle Systems and Dynamics:** Students will explore particle systems and dynamics simulations in Maya, including effects such as smoke, fire, water, cloth simulation, and rigid body dynamics using the nCloth and nParticle systems.
- **Maya Scripting and Automation:** Graduates will understand basic scripting concepts in Maya using MEL (Maya Embedded Language) or Python scripting, and how to automate repetitive tasks, create custom tools, and extend Maya's functionality through scripting.
- **Workflow Optimization:** Students will learn tips, tricks, and workflow techniques for optimizing their workflow in Maya.

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# List of Students for Add on course on Advanced Maya 2023

The Following students have been enrolled in Add on course in  
Advanced Maya 2023

| Sr.No. | Roll No. | Name       | Signature  |
|--------|----------|------------|------------|
| 1      | 9059     | Robin      | R. Rana    |
| 2      | 9055     | Prerna     | Prerna     |
| 3      | 9153     | Jashandeep | Jashandeep |
| 4      | 9156     | Kunal      | Kunal      |
| 5      | 9014     | Priyam     | Priyam     |
| 6      | 9101     | Sheetal    | Sheetal    |
| 7      | 9019     | Mohit      | Mohit      |
| 8      | 9022     | Suneha     | Suneha     |
| 9      | 9021     | Neha       | Neha       |
| 10     | 9023     | Hardik     | Hardik     |
| 11     | 9003     | Armaan     | Armaan     |
| 12     | 9016     | Lakshay    | Lakshay    |
| 13     | 9005     | Dhairya    | Dhairya    |

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# Introduction to Advanced Maya (Add on Course) Questionnaire

Time: 2 Hrs

Max Marks: 50

Attempt any 5 of the given 8 questions. All questions carry equal marks.

1. Can you explain the Bifrost Glowing Effect in Autodesk Maya and the critical components of creating this effect?
2. What would be your approach to optimize a scene in Maya, ensuring that render times are minimal and the final rendered output is of high quality?
3. What does CAD stand for in Autodesk software?
  - a) Computer-Aided Design
  - b) Computer-Aided Development
  - c) Creative Architecture Design
  - d) Computerized Animation Design
4. What is Maya used for in VFX?
5. What is the main purpose of Maya software?
6. Which company develops Autodesk software?
  - a) Adobe
  - b) Microsoft
  - c) Autodesk
  - d) Apple
7. Which Autodesk software is used for mechanical design and product development?
  - a) Inventor
  - b) Maya
  - c) AutoCAD
  - d) Fusion 360
8. Explain the attribute editor?
  - a) Maya
  - b) 3ds Max
  - c) Inventor
  - d) AutoCAD Plant 3D

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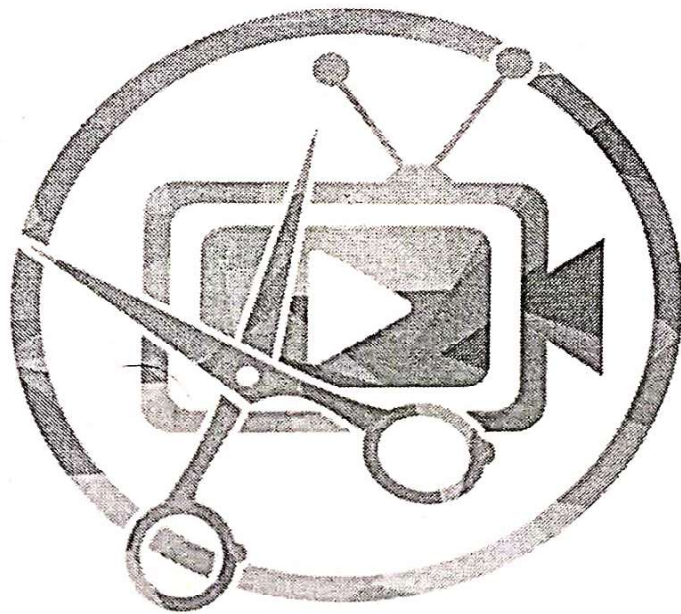
Shruti Bhakta

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# HINDU COLLEGE, AMRITSAR

PG Department of  
Computer Science & Multimedia

## ADVANCED EDITING



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**Add on Course**

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P.G Department of Computer Science and Multimedia  
**Syllabus of Advanced Editing**  
**(Add on Course)**

| Sr. No. | Topic Name  | Days |
|---------|---|------|
| 1.      | Introduction of Editing   | 1    |
| 2.      | Applying Video Transitions  | 3    |
| 3.      | Advanced Editing & Video Effects                                      | 5    |
| 4.      | Working With Audio  | 4    |
| 5.      | Exporting The Final Project   | 4    |
| 6.      | Authoring Dvds With Adobe Encore.                                     | 5    |
| 7.      | Adjusting Motion & Opacity , Applying Color Correction                | 4    |
| 8.      | Recording a Narration with the Audio Mixer , Transcribing Speech      | 5    |
| 9.      | Exporting Media , Working with Adobe Media Encoder                    | 3    |
| 10.     | Importing Media into the Project Panel , Organizing the Project Panel | 7    |

**Vision of Course:** The goal is to prepare students for outlines the company's long-term goals and aspirations for the future in terms of its growth and impact on the world. Your mission defines what you do and what you stand for, while your vision statement speaks to your goals and ideals for the future.

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## Course Outcomes

- **Proficiency in Software Navigation:** Students will become proficient in navigating the Adobe Premiere Pro interface, including understanding the layout of panels, tools, timelines, and keyboard shortcuts.
- **Understanding of Video Editing Fundamentals:** Graduates will demonstrate an understanding of fundamental video editing concepts and techniques, including importing media, organizing footage, trimming clips, and arranging sequences on the timeline.
- **Advanced Editing Techniques:** Students will learn advanced editing techniques such as ripple editing, rolling edits, slip and slide edits, keyframing, multicam editing, nested sequences, and advanced timeline management.
- **Color Correction and Grading:** Graduates will develop skills in color correction and grading, including adjusting exposure, contrast, color balance, and saturation, applying color presets and LUTs, and creating stylized looks and visual effects.
- **Audio Editing and Mixing:** Students will learn audio editing and mixing techniques, including adjusting levels, applying effects and filters, synchronizing audio with video, and creating audio transitions and mixes.

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# List of Students for Add on course on Advanced Editing 2023

The Following students have been enrolled in Add on course in  
Advanced Editing 2023

| Sr.No. | Roll No. | Name        | Signature   |
|--------|----------|-------------|-------------|
| 1      | 9101     | Sheetal     | Sheetal     |
| 2      | 9102     | Lakhan      | Lakhan      |
| 3      | 9009     | Anmol       | Anmol       |
| 4      | 9001     | Harmanpreet | Harmanpreet |
| 5      | 9105     | Varinderjit | Varinderjit |
| 6      | 9108     | Sahil       | Sahil       |
| 7      | 9106     | Rohit       | Rohit       |
| 8      | 9108     | Sahil       | Sahil       |
| 9      | 9107     | Ritik       | Ritik       |
| 10     | 9153     | Jashandeep  | Jashandeep  |
| 11     | 9012     | Kartik      | Kartik      |
| 12     | 9057     | Mosmi       | Mosmi       |
| 13     | 9061     | Hari        | Hari        |

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# HINDU COLLEGE

Register of Daily Attendance of

Advanced Kalita

| Roll No. | Name of Scholar | Friday |   |   |   | Saturday |   |   |   |   |    |    | Sunday |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|-----------------|--------|---|---|---|----------|---|---|---|---|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|          |                 | 1      | 2 | 3 | 4 | 5        | 6 | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 1        | Sheetal         | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 2        | Katikan         | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 3        | Anmol           | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 4        | Mohammpriya     | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 5        | Vaishnavi       | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 6        | Sahil           | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 7        | Rohit           | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 8        | Sahil           | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 9        | Ritika          | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 10       | Jashandeep      | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 11       | Kaetika         | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 12       | Masmi           | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 13       | Mahi            | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |

# AMRITSAR.

class for the month of Feb 2023

| Roll No. | Name of Scholar | Friday |   |   |   | Saturday |   |   |   |   |    |    | Sunday |    |    |    |    |    |    | No. of Attendances for the month | No. of Attendances brought forward | Total of Attendances | Remarks |    |    |    |    |    |    |    |    |    |    |    |  |
|----------|-----------------|--------|---|---|---|----------|---|---|---|---|----|----|--------|----|----|----|----|----|----|----------------------------------|------------------------------------|----------------------|---------|----|----|----|----|----|----|----|----|----|----|----|--|
|          |                 | 1      | 2 | 3 | 4 | 5        | 6 | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18 |                                  |                                    |                      |         | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |  |
| 1        | Sheetal         | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P                                | P                                  | P                    | P       | P  | P  | P  | P  | P  | P  | P  |    |    |    |    |  |
| 2        | Katikan         | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P                                | P                                  | P                    | P       | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |  |
| 3        | Anmol           | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P                                | P                                  | P                    | P       | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |  |
| 4        | Mohammpriya     | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P                                | P                                  | P                    | P       | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |  |
| 5        | Vaishnavi       | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P                                | P                                  | P                    | P       | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |  |
| 6        | Sahil           | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P                                | P                                  | P                    | P       | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |  |
| 7        | Rohit           | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P                                | P                                  | P                    | P       | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |  |
| 8        | Sahil           | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P                                | P                                  | P                    | P       | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |  |
| 9        | Ritika          | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P                                | P                                  | P                    | P       | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |  |
| 10       | Jashandeep      | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P                                | P                                  | P                    | P       | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |  |
| 11       | Kaetika         | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P                                | P                                  | P                    | P       | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |  |
| 12       | Masmi           | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P                                | P                                  | P                    | P       | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |  |
| 13       | Mahi            | P      | P | P | P | P        | P | P | P | P | P  | P  | P      | P  | P  | P  | P  | P  | P  | P                                | P                                  | P                    | P       | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |  |

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Introduction to Advanced Editing  
(Add on Course)  
Questionnaire

Time:2 Hrs

Max Marks: 50

Attempt any 5 of the give 8 questions. All question carry equal marks.

1. Explain project and sequence settings?
2. Write in detail how you record an audio voice-over in Adobe premiere?
3. What is Adobe Premiere Pro?
4. How does the timeline work in Premiere Pro?
5. How can I learn more about using Premiere Pro?
6. What are basic steps to edit in Premiere Pro?
7. What are the 4 main panels in Premiere Pro?
8. Why do you think Premiere Pro is better than final cut?

*Joshi*  
*Rakesh*  

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*Rakesh*

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