ଓଡ଼ିଶା ରାଜ୍ୟ ମୁକ୍ତ ବିଶ୍ୱବିଦ୍ୟାଳୟ, ସମ୍ବଲପୁର, ଓଡ଼ିଶା
Odisha State Open University, Sambalpur, Odisha
Established by an Act of Government of Odisha.

ASSIGNMENTS

DIPLOMA IN MULTIMEDIA AND ANIMATION

(DMA)

SUBMISSION DATES FOR ASSIGNMENTS

SESSION: 2017-18 (January 2018) [DMA181]

Course Code	Course Title	Submission Date
DMA-1	Introduction to Multimedia	25th November 2018
DMA-2	Digital Imaging	25th November 2018
DMA-3	2D Animation	25th November 2018
DMA-4	3D Animation	25th November 2018
DMA-5	AV Production	25th November 2018

SESSION: 2018-19 (July 2018) [DMA182]

Course Code	Course Title	Submission Date
DMA-1	Introduction to Multimedia	25th November 2018
DMA-2	Digital Imaging	25th November 2018
DMA-3	2D Animation	25th November 2018
DMA-4	3D Animation	14th April 2019
DMA-5	AV Production	14th April 2019

INSTRUCTIONS

Dear Learners,

Welcome to the Diploma Programme in Multimedia and Animation (DMA) offered by Odisha State Open University, Sambalpur. You are required to submit one assignment per course within the stipulated time in order to become eligible to appear in the term-end examination. The assignments will be evaluated by the counselors at your Study Centre. Please submit your assignment response to Coordinator of the Study Centre. Before you attempt the assignments, please go through the course materials carefully. Please read the instructions pertaining to an assignment before your start writing your answer. Do not copy from the course material or from any other source. You are advised to read the material carefully, understand the same and write answers in your own language and style so that you will get good marks/grades.

Purpose of Assignments:

1. Assignments are part of the continuous evaluation process in Open and Distance Learning (ODL) system. Due weightage is given to the marks/grades you obtain in assignments. This will help you for better performance in the term-end examination. If you secure good grades/marks in assignments, your overall performance will improve.

2. Assignments are also a part of the teaching-learning process in ODL. Your assignment, after evaluation, will be returned back to you with specific and general comments by the evaluator. This will help you to know your strength as well as your weakness. Thus, it will establish a two-way communication between learner and evaluator.

How to write assignments:

1. Write your name, programme code, course title, enrolment no. and study centre code in the top sheet of the assignment answer booklet.

2. Write the answers in your handwriting. Give sufficient margin in the left side of each page so that the evaluator will give comments on each paragraph/page. Do not cross the word limit given in each question.

3. Your handwriting should be neat and readable.

Weightage for each assignment:

1. Each assignment will carry 25% weithtage and term-end examination will carry 75% weithtage.

2. Each assignment will be of 100 marks. But it will carry 25% weightage.

3. You have to score minimum pass mark i.e. 40% in each assignment. In case you do not submit assignment or get fail mark in assignment you have to re-submit in the next year.

Introduction to Multimedia

GROUP-A

1.   **Answer all questions.**   **1x10=10 Marks**

    a.   Write down some Input and output devices name with examples.

    b.   What is an OS (Operating System) and write down the type of OS used in a PC.

    c.   Define desktop publishing with some names of software.

    d.   Draw the flowchart of 2D animation in a flowchart.

    e.   What is sound and how to measure it?

    f.   How many type of images used for multimedia with definition?

    g.   Describe the rules of thirds of composition with appropriate photograph.

    h.   What are the two type of inkjet printing?

    i.   Define video editing and Describe types of video editing.

    j.   How does television generate revenue through subscription?

GROUP-B

2.   **Answer any four questions within the word limit of 50 words.**   **5x4=20 Marks**

    a.   List the types of communication network that are used to provide multimedia communication services.

    b.   List 10 types of works which can be done through Desktop Publishing.

    c.   How photographic printing process works?

    d.   Distinguish between container and Empty tag.

    e.   Write a brief note on mass media governance.

    f.   Name three foreign new agencies operating in India.

GROUP-C

3.   **Answer any four questions within the word limit of 200 words.**   **10x4=40 Marks**

    a.   Write types of tags used is HTML with its uses to formulate a website.

    b.   How does dot matrix printer work?

    c.   Describe audio and its components.

    d.   What are different types of images?

    e.   Name any five application software with their uses.

    f.   Identify video production equipment/components.

GROUP-D

4.   Answer any two questions within the word limit of 200 words.   15x2=30 Marks

A. Create four web pages with below specifications.

      i)   Save these pages as home.html, page I .html, page2.html, page3 .html

      ii)   Show three links on homepage

      iii)   Connect the link of remaining 3 pages with homepage

B.   Name the basic elements of Multimedia with their utility.

C. Write down the step by step process to upload and share an album of 10 photographs on your Facebook account.

D. What are the sources of income in electronics media?

Digital Imaging

1. **Answer all questions.** **1x10=10 Marks**

   a. Name the person who invented Computer Graphics?

   b. Define Graphic Design and explain the role of Resolution in graphics.

   c. Describe the common aspect ratios used in video.

   d. Write the full forms of BMP and GIF.

   e. Name two software's used for Digital Composition.

   f. Name the person who established the Rule of Third.

   g. List three Vector Graphic Software name.

   h. Which tool is used for cleaning spots on a face in Krita software?

   i. Which format should be used for export so that the background transparency is maintained in INKSCAPE?

   J. What is DPI?

2. **Answer any four questions within the word limit of 50 words.** **5x4=20 Marks**

   a. Differentiate between primary, secondary and tertiary colors.

   b. Explain the Rule of Third with an example.

   c. Create a typography style using your own name.

   d. Mention any three open source graphic design software's and define the role of such open source software's in the society.

   e. What is Layer masks In GIMP?

   f. Write down the names of any four types of T-Shirt printing techniques.

3. **Answer any four questions within the word limit of 200 words.** **10x4=40 Marks**

   Create the following designs and submit the soft copy (CD/DVD) and hard copy (A4 Size/A3 size)

   a. Create a Digital Painting of any size in Krita.

   b. Create a Digital Composition using any four images.

   c. Create a masking effect of an image inside a text.

   d. Create a Visiting card using Krita or Inkscape.

   e. Define any three elements of Design with graphics of your own.

   f. Define any three formats of Graphics design.

GROUP-D

4.   Answer any two questions within the word limit of 250 words.   15x2=30 Marks

Create the following designs and submit the soft copy (CD/DVD) and hard copy (A4 Size/A3 size)

      a.   Create a T-Shirt design using vector Art.

      b.   Crate a Logo design in Inkscape.

      c.   Create an Animated globe of any three planets using Synfig studio.

            (Only soft copy)

      d.   Create a still header and footer design for a T.V. News Programme.

2D Animation

GROUP-A

1. **Answer all questions.**   **1x10=10 Marks**

   a.   Who developed the twelve principles of animation in 1930?
   b.   What are the three stages of a creating an animation movies?
   c.   2H is a kind of _____pencil?
   d.   Simplify is a ------------------to sketch?
   e.   Dry media is a type of----------------media?
   f.   GIMP is meant for what?
   g.   What is the current stable version of GIMP?
   h.   --------- Express is a faster way to crop, resize, rotate, adjust and add photo effects to your photos?
   i.   ----------shot allows the audience to see what's going on through a character's eyes?
   j.   What is the free and open-source 2D animation software available for various operating systems?

GROUP-B

2. **Answer any four questions within the word limit of 50 words.**   **5x4=20 Marks**

   a.   Explain the process of layout designing with examples.
   b.   Explain types of storyboards with self-drawn examples.
   c.   Give examples of three stop motion animation movies with the name of the Animation studio and the movie director.
   d.   Explain Sketching. Why is the knowledge of sketching important for a 2D animator?
   e.   Explain the rules for creating a portfolio in 2D Animation.
   f.   Write short notes on PIXlr Express.

GROUP-C

3. **Answer any four questions within the word limit of 200 words.**   **10x4=40 Marks**

   a.   Describe the contemporary art.
   b.   Write a note on fresco.
   c.   Differentiate between hard and soft pencil.
   d.   What are the three main interfaces of Synfig studio?
   e.   What is the uniqueness of POV shots?
   f.   How do you select an exact color in GIMP software?

GROUP-D

4. **Answer any two questions within the word limit of 250 words.   15x2=30 Marks**

Create the following designs and submit the soft copy (CD/DVD) and hard copy in A4 size paper.

a. Create a walk cycle using any open source 2D Animation software.

b. Create an animated banner advertisement using Synfig studio.

c. Create a stop motion animation of 60 frames.

d. Create a storyboard for a short story.

3D Animation

GROUP-A

1.   Answer all questions.   1x10=10 Marks

a. What are the various Display modes in 3D space?
b. FK is…………………..?
c. What is IK?
d. What is motion track?
e. -----------------------allows you to change the way objects are displayed in the viewport?
f. A----------------------- is primarily a single point or position in 3D space.
g. What can be seen when the Bone is in edit mode?
h. ------------------- is also known as God rays?
i. Spot is a --------------------- source of light?
j. Define self collision.

GROUP-B

2.   Answer any four questions within the word limit of 50 words.   5x4=20 Marks

a. Write short notes on Nurbs Curves & editing
b. Modeling with Nurbs surface?
c. Differentiate between Function Curves & editing in Animation
d. What are the different types of constraints used in Rigging?
e. What is 2D stabilization?
f. What is the difference between key frame & path Animation? Give Examples

GROUP-C

3.   Answer any four questions within the word limit of 200 words.   10x4=40 Marks

a. What are the Various Display modes in 3D space & its uses?
b. Differentiate between low-poly & high poly models?
c. Define Extrude. Write about different types of extrude.
d. What is the different process of converting the 2d shape into 3d object? Give Examples
e. Write five different options on Header and its functions in detail?
f. Describe Halo Textures with examples.

4. **Answer any two questions within the word limit of 250 words.   15x2=30 Marks**

a. What is the concept of space in Blender? Explain different types of navigation & selection tools with proper examples.

b. Describe the role of Polygon Modeling in Blender? Explain the process of using the components of polygon while modeling an object with examples.

c. What is rigging? Explain different tools & process used for rigging an object or a character with proper examples.

d. Explain the difference between 2d & 3D Animation. Describe the role of 3D Animation in Entertainment?

AV Production

<u>**GROUP-A**</u>

1.   **Answer all questions.**   **1x10=10 Marks**

   a.   We measure the wave length in_____.
   b.   Briefly discuss the connectors used in the studio.
   c.   Pre production is the -----------------stage of video or film production?
   d.   Who are capable of writing both words and music piece?
   e.   Who is responsible for all the expenditure in the shooting?
   f.   Name the different types of shot.
   g.   How many columns are there in clapboard?
   h.   A Camera can work without lens. Is it true or false?
   i.   What is EDL?
   j.   What is the aspect ratio of DV, HD and 4K video?

<u>**GROUP-B**</u>

2.   **Answer any four questions within the word limit of 50 words.**   **5x4=20 Marks**

   a.   Discuss the characteristics of waveform.
   b.   What are the main aspects of a shooting script?
   c.   What is the focal length of a fixed length?
   d.   What is the aspect ratio of DV, HD and 4K video?
   e.   Define pre-production in 5 lines.
   f.   Differentiate between linear and non linear editing.

<u>**GROUP-C**</u>

3.   **Answer any four questions within the word limit of 200 words.**   **10x4=40 Marks**

   a.   Explain the construction and function of condenser microphone.
   b.   What is the role of visual effects supervisor in the pre-production stage of film making?
   c.   Name different types of lens used for video production.
   d.   What is TRP and how it has been calculated?
   e.   Discuss different noise reduction systems.
   f.   What is pre roll and post roll?

GROUP-D

4. **Answer any two questions within the word limit of 250 words.** **15x2=30 Marks**

a. Define Sound and write down the steps how to record and mix a multi track sound.

b. List out the steps to prepare a good storyboard with proper examples.

c. How to shoot a documentary on calamity of Odisha?

d. What is editing and what are the steps taken while editing a music video?