# **Multimedia Project Planning**



**Title: Multimedia Project Planning** 

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### Chapter 9 Multimedia Project Costing

#### **Learning Outcome**

### Objectives of this chapter are: -

- Estimating Multimedia Project
- Monitoring Multimedia Project Budget

#### Introduction to multimedia project costing

Project costing involved in two areas, first, to estimate the project cost and second monitoring multimedia project cost according to the estimated cost.

### Estimating the multimedia project costing

Before we start any multimedia project, we need to allocate our resources to the tasks and estimate the cost of each. For this purpose, we need to understand what resources are needed for the multimedia projects.

### What is the multimedia project resources?

First of all, we need to understand what is mean by resources, the resource is anything we need or use to complete our projects.

Generally, the resources are classified as three types as follows: -

- Human resources
- Machinery resources
- > And material resources

#### **Human Resources**

Human resources are included the production team. A large-scope, High-quality multimedia product requires a team which is very highly skilled and specialized.

producing multimedia, the smallest team may include only a designer and a programmer. However, most professional multimedia production firms include the following personnel.

- Production Manager
- Public Relations officer
- Multimedia writer
- Graphic Designer

- Photographer
- Videographer
- > Audio Engineer
- Video Engineer
- Technical Engineer
- > 2D/3D editor / Animator
- Computer Programmer

These are the team member which explain in detail in chapter 4.

#### **Machinery Resources**

Machinery resources are the piece of machinery or equipment that consume time when working on activity. Most multimedia equipment used for production are: -

- > Video Equipment
- > Audio Equipment
- > Lighting equipment

#### Video Equipment

Video equipment are included digital cameras. A digital camera is a hardware device that captures photographs and stores the images as data on a memory card. Cameras can be categories as still image cameras or Video cameras. Still image cameras are taking one image at a time. The figures bellow shows the still Image cameras.



Figure 1 DSLR Camera



Figure 2 DSLR Camera with different types of lenses

### **Video Cameras**

Video cameras are the camera which take images at a sequence according to the camera setting. Example if we set the camera frame rate to 25, means it will take 25 image a second.



### **Tripods**

Tripods are the stand which camera fixed on them. The figures below are showing different types of cameras stands.



### **Audio Equipment**

In multimedia projects, we need audio equipment to perform our job efficiently. In Multimedia project audio is most important element. For that purpose, we need to have tools. Here we will look at some audio tools required in multimedia project.

### **Microphones**

We can use Microphone to record a voice for our multimedia projects. There are many types of microphones are available with difference qualities.

The bellow figures are some types of microphones used for recording: -



#### Lighting

Lighting is a fundamental to film because it creates a visual mood, atmosphere, and sense of meaning for the audience. Whether it's dressing a film set or blocking actors, every step of the cinematic process affects the lighting setup, and vice-versa. Lighting tells the audience where to look.

Firstly, the correct lighting for your film can set the mood for your content. This allows viewers to understand how they should be feeling emotionally whilst watching.

It's important to remember that a video camera doesn't capture lights in the same way our eyes do. It can seem like a good idea to rely on natural light if visibility that day is good, but this can prove a bad idea.

### **Lighting equipment**

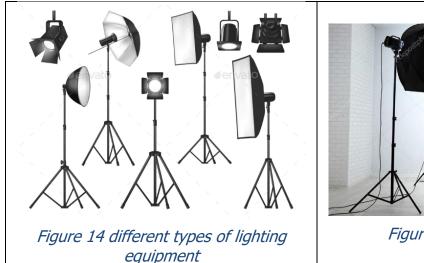




Figure 15 lighting studio

### **Lighting system**

Three lights used for professional videos are: -

- ➤ Key Light Used as your primary lighting point
- > Fill Light Used to fill opposite the key light
- ➤ Backlight Used to extract the third dimension

The figure below shows the power are the three lights.

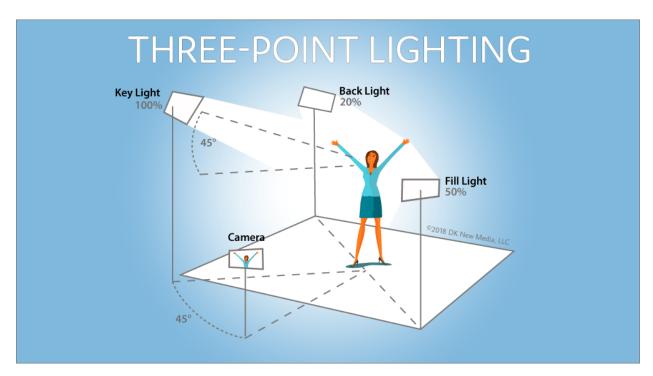


Figure 16 Power used in three lighting system

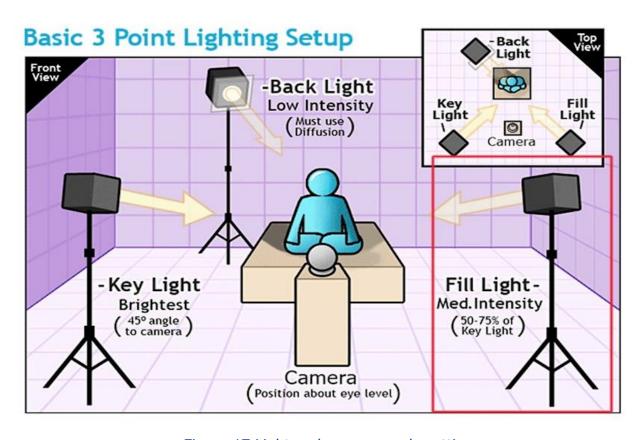


Figure 17 Light and camera angle setting

### **Computer System of Multimedia project**

For multimedia project we need a computer system to edit and develop the project. Multimedia project need high performance computer system with large memory system. Here are some recommendations for multimedia projects.

### **Computer Hardware**

A computer hardware is the tangible part of the computer which we can see, like case, monitor, keyboard and so on. For multimedia project we need a high-performance computer system which be able to carry out or develop the project with ease and fastest way. There are FIVE major factors for a computer to be powerful: -

- > Speed
- > Reliability
- Accuracy
- Storage
- Communication

The important part of computer hardware consists of the following items: -

- ➤ **Motherboard / mainboard** A motherboard is the main printed circuit board (PCB) in general-purpose computers and other expandable systems. It holds and allows communication between many of the crucial electronic components of a system, such as the central processing unit (CPU) and memory, and provides connectors for other peripherals.
- ➤ **Central processing Unit (CPU)** A central processing unit (CPU) is the electronic circuitry that executes instructions comprising a computer program. The CPU performs basic arithmetic, logic, controlling, and input/output (I/O) operations specified by the instructions in the program.
- ➤ Random Access Memory (RAM) Random-access memory is a form of computer memory that can be read and changed in any order, typically used to store working data and machine code.
- ➤ **Graphic Cards** A graphics card is an expansion card which generates a feed of output images to a display device (such as a computer monitor). At the core of both is the graphics processing unit (GPU), which is the main part that does the actual computations.
- ➤ **Hard Disks** A hard disk drive (HDD) is an electro-mechanical data storage device that stores and retrieves digital data using magnetic storage and one or more rigid rapidly rotating platters coated with magnetic material.
- ➤ **Power Supply** A power supply unit converts mains AC to low-voltage regulated DC power for the internal components of a computer. Modern personal computers universally use switched-mode power supplies.

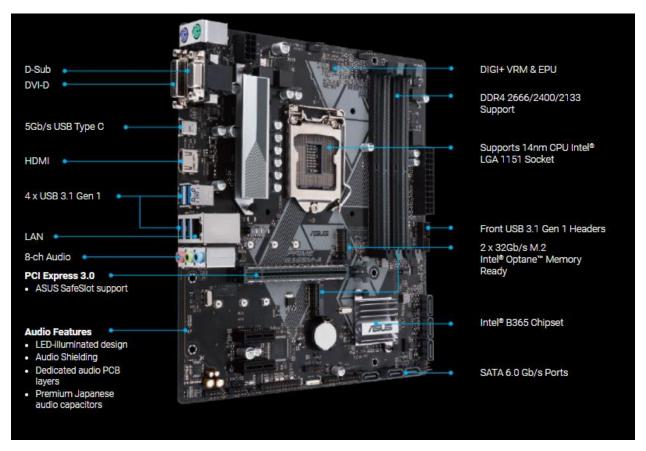


Figure 18 Asus Motherboard example

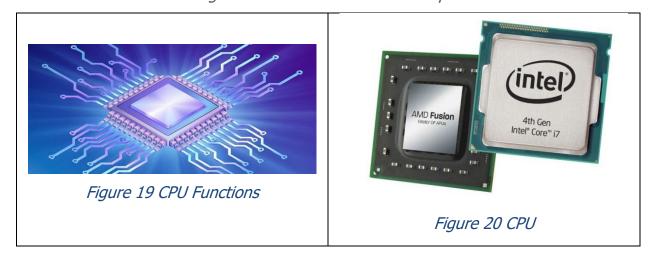




Figure 21 RAM installed on Motherboard



Figure 22 RAM



Figure 23 Graphic card





Figure 26 Computer power supply

### **Computer Software**

Computer software is a program that tells a computer how to perform tasks. A program is a series of step-by-step instructions that tell the computer precisely what actions to perform. For multimedia project we choose program according to our project type. Example for video projects we choose video editing programs such as Adobe premiere. For game development projects we choose program like Unity 3D.



Figure 27 Adobe Premiere CC



Figure 28 Unity 3D

## **Multimedia Project costing**

Multimedia project costing is estimating cost of the resources involved in project. As we learned previously the item required for the multimedia project. As we received confirmation of the project, we have to write down all resources involved or required for the project and we estimate the budget for the multimedia project. The sample below is the estimated cost for small multimedia project.

### Sample multimedia budget

ABC Multimedia Enterprise			
No	Description	Budgeted (RM)	Remarks
1	Initialization cost	RM500.00	
2	Scriptwriter	RM350.00	
3	Videographer (Cameraman)	RM1500.00	Including Video camera and equipment
4	Photographer	RM760.00	Including camera and equipment
5	Video editor	RM1200.00	Estimated of 20 hours working day
6	Audio specialist (Including cost of music and songs)	RM490.00	Royalty fee to music producers
7	Storage device (DVD's, USB's, etc.)	RM1100.00	
8	Other staff budgets (including Background stage staff like Public Relations staff and etc.)	RM600.00	
9	Transportation fee	RM2300.00	
10	Other costs	RM1000.00	
Tot	al Costs	RM9800.00	
Remarks: 30% payment in advance prior to project approval.			

When they agree for the project, they should pay for 30% of the total amount and then the project will start and there will be an agreement between two parties. And all terms and condition such as cancelling project, delay on project will be mention there.

# Monitoring the estimated project Cost

The monitoring of the project cost involves the allocation of the budget to the resourced involved in the project. Our duty is to make sure our budget allocation not excided the total project budget.

Example, if the total budget of the multimedia project is 100000 US dollar. We must allocate the money to our resources such a way that not excided 100000 US Dollar. As we saw in Microsoft Project, we allocated cost to the resources.