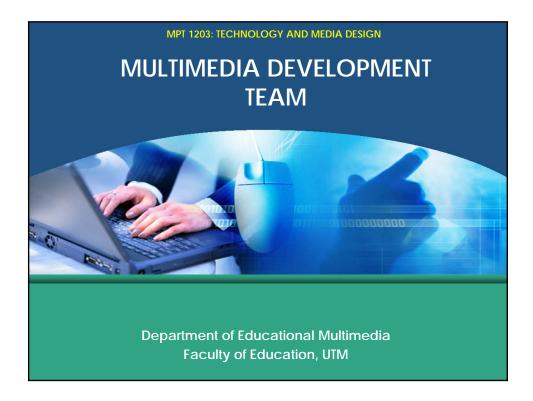




# INTRODUCTION

- Multimedia Development
  - What skills required?
  - Guidance and suggestions for getting started ?
  - The Process ?
  - New Trend in Multimedia Development?

3



# **MULTIMEDIA DEVELOPMENT TEAM**

- Developing instructional multimedia is seldom an individual effort.
- Typically, several people work together to create projects that involve more than just text and graphics but instead involve a pedagogically sound design with interactive exercises and activities as well as assessments and communication approaches that facilitate teaching and learning.

5

Faculty of Education, UTM

# **MULTIMEDIA DEVELOPMENT TEAM**

#### Multimedia Development Team:

- Executive Producer
- Producer/Project Manager
- Creative Director/ Multimedia Designer
- Art Director/Visual Designer
- Graphics Artist
- Interface Designer
- Game Designer
- Subject Matter Expert
- Instructional Designer/Training Specialist

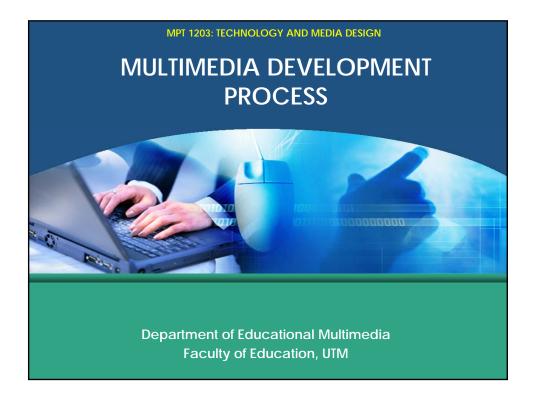
- Script Writer
- Animator (2D/3D)
- Sound Producer
- Music Composer
- Video Producer
- Multimedia Programmer
- HTML Coder
- Lawyer/Media Acquisition
- Marketing Director

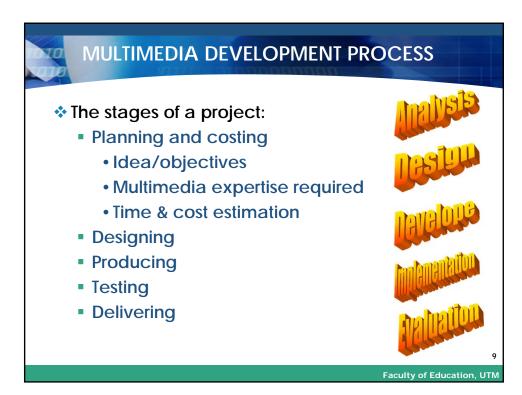
6

# **MULTIMEDIA DEVELOPMENT TEAM**

- Depending on the size of the project, an individual may take responsibility for more than one of these roles
- In one person projects, you are all these..!!!

7





- Multimedia development process usually based on systematic approach as suggested in Instructional Design Model.
- What is Instructional Design Model?

10

- Instructional Design is the systematic process of translating general principles of learning and instruction into plans for instructional materials and learning.
- It includes development of instructional materials and activities; and tryout and evaluation of all instruction and learner activities.

11

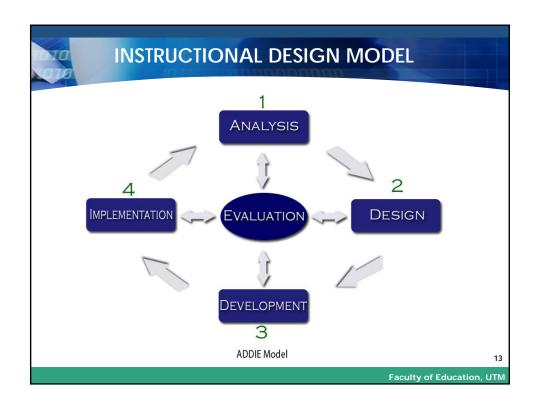
Faculty of Education, UTM

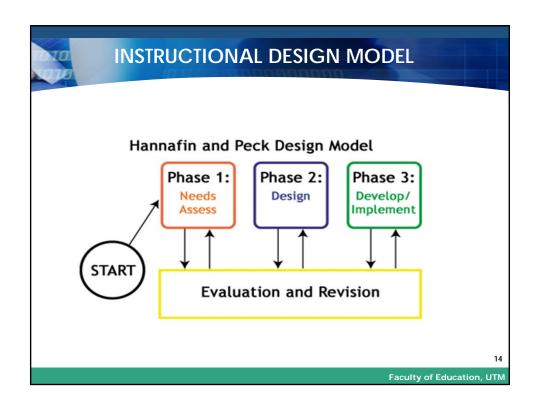
#### **INSTRUCTIONAL DESIGN MODEL**

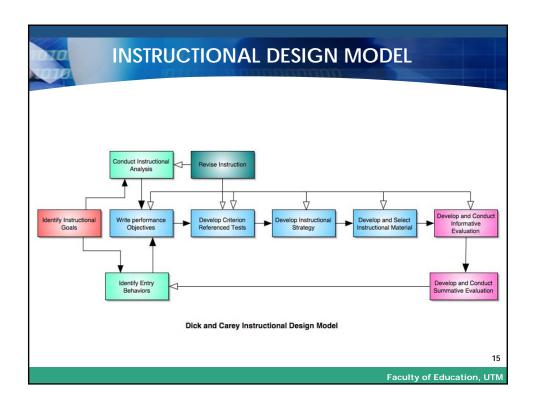
#### **Examples of ID model:**

- ADDIE Model
- ASSURE Model
- Dick & Carey Model
- Hannafin & Peck Model
- Waterfall Model
- Rapid Prototyping Model
- ◆ etc.....

12







- This class (MPT 1203: Technology & Media Design) will focus on 2<sup>nd</sup> phase (Design) of ID Model/Systematic approach.
- Phase 1 (Planning/Analysis):
  - MPT 1113 (Foundation of Educational Technology)

16

- Phase 3 (Multimedia Development):
  - MPT 1193 (Authoring System). Pre-requisite for MPT 1293 & MPT 1393
- Phase 3 (Digital Media Production):
  - MPT 1483 (Visual Technology Production) or...
  - MPT 1383 (Video & Animation Technology Production)

17

Faculty of Education, UTM

### **MULTIMEDIA DEVELOPMENT PROCESS**

- Phase 1, 2, 3 & 4 (All)
  - MPT 1293 (Multimedia Development: CD-ROM based) or ....
  - MPT 1393 (Multimedia Development: Web Based).

18

- Phase 1: Planning/Analysis
- needs/requirements?
- "brainstorming": who, what, why, where, when & how?
- Audience analysis: Who is it for?
- Needs analysis: Why develop it?
- Content analysis: What will it cover?
- Resource analysis: How and how much?
- Estimate: When will it get done?
- Where: platform, marketing and distribution?

19

Faculty of Education, UTM

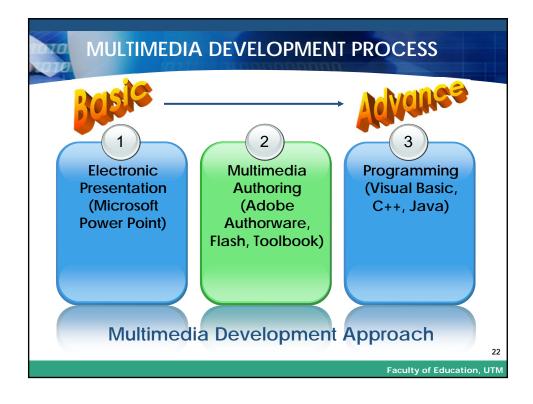
### **MULTIMEDIA DEVELOPMENT PROCESS**

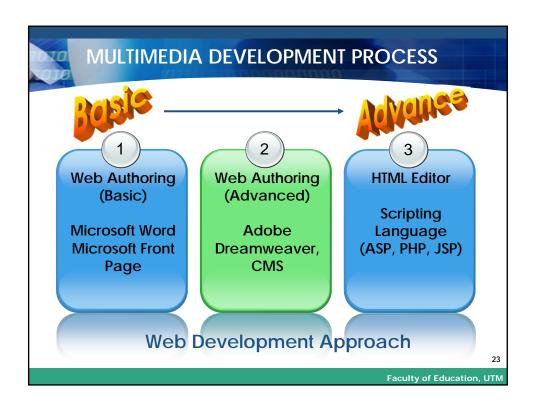
- Phase 2: Design
- What's the difference between analysis and design?
- Storyboards: design content as sequence of scenes or screens.
- Scripts: design content in textual form.
- Flowcharts: show navigational structure.
- Design in detail before programming/authoring!!

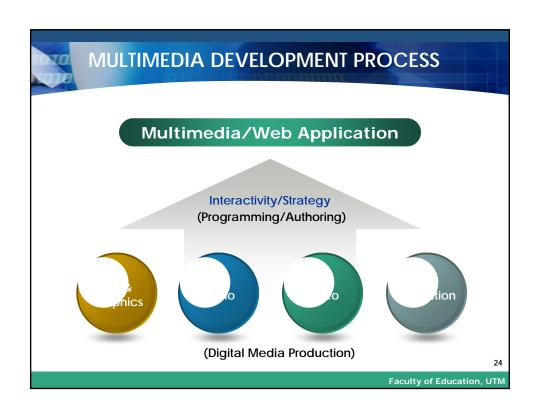
20

- Phase 3: Development
- Who will be involved in this project and what responsibilities will each person have?
- Authoring or programming of the project.

21







### **DIGITAL MEDIA PRODUCTION FOR MPP**

- Graphics: MPT 1483 (Visual Technology Production).
  - Image Manipulation (Adobe Photoshop)
  - Photography (Analog and Digital)
- Audio, Video dan Animation : MPT 1383 (Video & Animation Technology Production).
  - Video editing (Avid Xpress, Final Cut Pro, Adobe Premiere)
  - Animation (Adobe Flash).

25

Faculty of Education, UTM

### **MULTIMEDIA PRODUCTION FOR MPP**

- Interactivity: MPT 1193 (Authoring System).
  - Adobe Flash (CD-ROM Based)
  - Adobe Dreamweaver (Web Based)

26

- Phase 4: Implementation
- How is multimedia development different from systems programming?
- Why is prototyping a good idea?
- Programming uses authoring tools (Scripting)
- Media development involves special tools for graphics, sound, video, etc.
- User testing, user observations and focus groups

27

Faculty of Education, UTM

## **MULTIMEDIA DEVELOPMENT PROCESS**

- Phase 5: Testing & Evaluation
- \* How will you know if the instructional objectives have been achieved?
- What method will you use for collecting feedback from the users of the software regarding the interface, sequencing of information, and its content?
- Formative & Summative.

28