111-2 Full Curriculum of Da-Yeh University

Information			
Title	Advanced Particle Effect Practice	Serial No./ID	0553 /MDI4013
Required/Credit	Optinal /2	Time/Place	(Mon)78 /H615
Language	Chinese	Grade Type	Number
Lecturer /Full- or Part-time	/Full-time	Graduate Class	Graduating Class
School System /Dept /Class, Grade	Bachelor /Bachelor Program for Multimedia Digital Content /Class 2, Grade 4		
Office Hour / Place	(Mon) 13:20~14:10, (Tue) 12:00~13:20, (Wed) 12:00~13:20 / px301		
Lecturer	n.a.		

Introduction

Introduction: advanced special effects production
Objective: To enable students to learn the effects of film animation industry production methods

Outline

1.Maya particle
2.Advanced Maya particle
3.particle Comp

Prerequisite

Maya particle
COMP

The Relationship Between Courses and Departmental Core Competencies and Basic Skills

- Acquire professional knowledge of multimedia digital content design
- Acquire the technologies, skills and the capability of using modern tools for practicing multimedia digital content design
- Acquire the capability of integrating multimedia digital content knowledge and technologies
- Acquire the capability of finding out, analyzing and solving complex interdisciplinary multimedia design problems

Acquire the capability of managing project, communicating each other, respecting different viewpoints and cooperating within the team

Acquire the capability of lifetime learning。

Acquire the capability of collecting, interpreting and analyzing global multimedia industry trends, and participating in multimedia practical design。

Acquire professional working ethics and society responsibility

Teaching Plan						
Core Capability	Weight(%)【A】	Ability index(Performance Indicators)	Teaching Methods	Assessment and Weight	Core Competency Learning Outcomes【B】	Final Exam Grades【C=B*A】
Acquire professional knowledge of multimedia digital content design	25	Cultivate the capability of realizing multimedia digital content theory。 Cultivate the capability of being familiar with multimedia digital content knowledge。 Cultivate the capability of being possessed of multimedia digital content professional knowledge, including animation, comic, game design, and so on。 Cultivate the capability of being possessed of multimedia digital content design quality and accomplishment, including cultural creativity, art, esthetics, and so on。	Film Appreciation Practical Operation (Experiment, Machine Operation Case Study Lecturing	Course Participation: 10% Homework Assignment: 30% Final Exam: 30% Product Manufacturing: 30%	Total: 100	25
Acquire the technologies, skills and the capability of using modern tools for practicing multimedia digital content design	25	Cultivate the capability of being possessed of and applying multimedia digital content professional design technologies and skills。 Cultivate the capability of using modern multimedia software and hardware tools。 Cultivate the capability of implementing multimedia digital content system。	Film Appreciation Practical Operation (Experiment, Machine Operation Case Study Lecturing Special Report	Course Participation: 10% Homework Assignment: 30% Final Exam: 30% Product Manufacturing: 30%	Total: 100	25

Acquire the capability of integrating multimedia digital content knowledge and technologies	25	Cultivate the capability of integrating theoretical knowledge and practical technology。 Cultivate the capability of integrating visual communication, information technology and content management knowledge。	Film Appreciation Practical Operation (Experiment, Machine Operation Case Study Lecturing	Final Exam: 30% Homework Assignment: 30% Course Participation: 10% Product Manufacturing: 30%	Total: 100	25
Acquire the capability of finding out, analyzing and solving complex interdisciplinary multimedia design problems	25	Cultivate the capability of exploring complex multimedia design problems。 Cultivate the capability of analyzing and organizing complex multimedia design problems。 Cultivate the capability of solving and practicing complex multimedia design systems。	Film Appreciation Practical Operation (Experiment, Machine Operation Group Discussion Special Report Lecturing	Final Exam: 30% Homework Assignment: 30% Course Participation: 10% Product Manufacturing: 30%	Total: 100	25

Grade Auditing

Homework Assignment: 30%
Final Exam: 30%
Product Manufacturing: 30%
Course Participation: 10%

Book Type (Respect intellectual property rights. Please use official textbooks and do not illegally photocopy others' works.)

Book Type	Book name	Author
Instructor-compiled	進階分子特效實務	李中魁

Lesson Plan

Weeks	Content	Teaching Methods

1	Getting familiar with Maya's editing environment & Intellectual Property Protection (use legitimate textbooks only) & Traffic safety Propaganda	Lecturing、 Case Study、 Practical Operation (Experiment, Machine Operation 、 Film Appreciation
2	Understanding & Learning Maya's Interface	Lecturing、 Case Study、 Practical Operation (Experiment, Machine Operation 、 Film Appreciation
3	Understanding & Learning Maya's Mel	Lecturing、 Case Study、 Practical Operation (Experiment, Machine Operation 、 Film Appreciation
4	Introduction to Maya Instancer-1	Lecturing、 Group Discussion、 Practical Operation (Experiment, Machine Operation 、 Film Appreciation
5	Introduction to Maya Instancer-2	Lecturing、 Case Study、 Practical Operation (Experiment, Machine Operation 、 Film Appreciation
6	Maya MASH introduction and operation-1	Lecturing、 Case Study、 Practical Operation (Experiment, Machine Operation 、 Film Appreciation
7	Maya MASH introduction and operation-2	Lecturing、 Case Study、 Practical Operation (Experiment, Machine Operation 、 Film Appreciation
8	Maya MASH introduction and operation-3	Lecturing、 Case Study、 Practical Operation (Experiment, Machine Operation 、 Film Appreciation
9	Mid-term assignment production and submission	Lecturing、 Case Study、 Practical Operation (Experiment, Machine Operation 、 Film Appreciation
10	Pulldownit explanation and operation-1	Lecturing、 Case Study、 Practical Operation (Experiment, Machine Operation 、 Film Appreciation
11	Pulldownit explanation and operation-2	Lecturing、 Case Study、 Practical Operation (Experiment, Machine Operation 、 Film Appreciation
12	Pulldownit explanation and operation-3	Lecturing、 Case Study、 Practical Operation (Experiment, Machine Operation 、 Film Appreciation

13	FumeFX explanation and operation-1	Lecturing、 Case Study、 Practical Operation (Experiment, Machine Operation 、 Film Appreciation
14	FumeFX explanation and operation-2	Lecturing、 Case Study、 Practical Operation (Experiment, Machine Operation 、 Film Appreciation
15	FumeFX explanation and operation-3	Lecturing、 Case Study、 Practical Operation (Experiment, Machine Operation 、 Film Appreciation
16	VFX Rendering & Compositions explanation	Lecturing、 Case Study、 Practical Operation (Experiment, Machine Operation 、 Film Appreciation
17	Final homework production and submission	Lecturing、 Case Study、 Practical Operation (Experiment, Machine Operation 、 Film Appreciation
18	Final homework production and submission	Lecturing、 Case Study、 Practical Operation (Experiment, Machine Operation 、 Film Appreciation