Multimedia Techniques & Applications

Syllabus (教學大綱)

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- 一、【開課系所】: 資訊工程學系(>學士班□進修學士班□碩士班□碩士在職專班)
- 二、【開課年級】:二年級
- 三、【修別】:選修
- 四、【科目名稱】(中文): 多媒體技術與應用

(英文): Multimedia Techniques & Applications

- 五、【先修科目】: N/A
- 六、【學分數】: 下學期 3 學分
- 七、【授課時數】: (正課) 3 小時
- 八、【教學目標】:

Multimedia has become an indispensable part of modern computer technology.

In this course, students will be introduced to principles and current technologies of multi media system design and gain hands-on experience in this area. Topics include multimedia a systems design, multimedia hardware and software, issues in effectively representing, p rocessing, and retrieving multimedia data such as text, graphics, sound and music, image and video.

九、【内容綱要】:

- 1. Introduction & Fundamentals (Chapters 1 & 2)
- 2. Bitmapped Images (Chapters 4 & 5)
- 3. Vector Graphics (Chapter 3)
- 4. Video (Chapter 6)
- 5. 3D Stereo Image
- 6. Workshops: PhotoShop, Lightroom, Adobe Premier, Unity & Blender. (+Presentation Tools).

十、Textbook:

N. Chapman and J. Chapman, "Digital Multimedia", 3rd ed. Wiley, 2009

Course materials are available on my web-site.

十一、【成績評定原則】:

*電機資訊學院同學:

- 1. Two On-site Programming Exams 20% (10% each)
- 2. Four Projects: (1) PhotoShop (10%), (2) Lightroom (10%),
 - (3) Adobe Premier (20%) Teamwork, (4) Unity & Blender (15%)

嚴禁抄襲或違反著作權, 違者零分計算

Grading Policy: A: 15% of class (score=95),

B: 30% of class (score=85),

C: 30% of class (score=75),

D: 15% of class (score=65),

F: 缺交或遲交 (score=0),

Your project score = the average of two TAs' grades

- 3. Final Exam open book (20%)
- 4. Field Trip/Exhibition Experiencing and Report (5%)
- 5. Class Attendance: take out 1% per absence.

*非電機資訊學院同學:

- 1. One Multimedia Presentation Tool Practice 10%
- 2. Four Projects: (1) PhotoShop (15%), (2) Lightroom (10%),
 - (3) Adobe Premier (20%) Teamwork, (4) Unity (20%)

嚴禁抄襲或違反著作權, 違者零分計算

Grading Policy: A: 15% of class (score=95),

B: 30% of class (score=85),

C: 30% of class (score=75),

D: 15% of class (score=65),

F: 缺交或遲交 (score=0),

Your project score = the average of two TAs' grades

- 3. Final Exam open book (20%)
- 4. Field Trip/Exhibition Experiencing and Report (5%)
- 5. Class Attendance: take out 1% per absence.

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