DEREE COLLEGE SYLLABUS FOR: ITC 3120 DIGITAL VIDEO AND AUDIO TECHNOLOGIES 2/1/2		
(Updated Spring 2016)		EVEL 5
PREREQUISITES:	ITC1070 LE Information Technology Fundamentals –or-CS1070 Introduction to Information Systems	
CATALOG DESCRIPTION:	Digital video and audio technologies, file formats, comp strategies, codecs, editing techniques, transitions, effects motion graphics, recorded audio, processing and transfor Methods of audio/video hardware and software integration.	, titling, mation.
RATIONALE:	Audio and Video are two of the most important types of required in the integration of a multimedia system. The cours to provide the knowledge and skills required to produce a covideo & audio clip.	se aims
LEARNING OUTCOMES:	As a result of taking this course, the student should be able 1. Identify and analyse fundamental concepts of video and technologies.	
	2. Distinguish between various compressions strategies.	
	 Evaluate aesthetics principles and apply motion design i sequences. 	n video
	4. Utilize appropriate video and audio editing software to digital A/V projects ready for multi-platform delivery.	levelop
METHOD OF TEACHING AND LEARNING:	In congruence with the teaching and learning strategy college, the following tools are used:	of the
	Classroom lectures, class discussions.	
	Laboratory sessions, involving training and practice creation of video and audio clips.	in the
	Instructor office hours	
	Use of the Blackboard Learning platform, where instructions, announcements, as well as additional resources.	tructors timely
ASSESSMENT:	Summative:	
	Project: requirements analysis/video and audio clip editing / processing /documentation	50%
	Final Examination (2-hour comprehensive): combination of short essay questions and case problems	50%
	Formative:	
	In class "diagnostic" test: short answers to essay questions.	0
	Coursework: creation and editing of video and audio clips / case problems	0

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	The formative assessments aim to prepare students for the examination and for the project.
	The "Project" tests Learning Outcomes 3, 4
	The "Final examination" tests Learning Outcomes 1, 2, 3
INDICATIVE READING:	REQUIRED READING: Chapman N., Chapman J. (2009). <i>Digital Multimedia</i> , John Wiley & Sons Ltd.
	Bruce Fries, Marty Fries. (2005). <i>Digital Audio Essentials</i> , O'Reilly, Safari Books.
	Adobe Video and Audio Collection software manuals
	Instructor Notes and On-Line Help
	RECOMMENDED READING:
	Adobe Creative Team. (2015). <i>Adobe Premiere Pro CC Classroom in a Book</i> , Adobe Press.
	Greenberg J. (2013). <i>Adobe Premiere Pro Studio Techniques</i> , Adobe Press.
	Harrington R. (2011). <i>An Editor's Guide to Adobe Premiere Pro</i> , Peachpit Press.
	Herbert Zettl. (2010). Video Basics, Cengage learning.
	Ling Guan, Sun-Yuan Kung, Jan Larsen, S. Y. Kung. (2012).
	Multimedia Image and Video Processing, CRC Press
INDICATIVE MATERIAL:	REQUIRED MATERIAL: N/A
INDICATIVE MATERIAL: (e.g. audiovisual, digital material, etc.)	<u> </u>
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(e.g. audiovisual, digital material, etc.) COMMUNICATION	REQUIRED MATERIAL: N/A RECOMMENDED MATERIAL: N/A Daily access to the course's site on the College's Blackboard CMS.
(e.g. audiovisual, digital material, etc.) COMMUNICATION REQUIREMENTS: SOFTWARE	REQUIRED MATERIAL: N/A RECOMMENDED MATERIAL: N/A Daily access to the course's site on the College's Blackboard CMS. Use of word processing and e-mail.
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- Capturing video and audio (acquisition phase)
 2.1. Audio hardware
 2.2. Video hardware
- 3. Video and audio editing environment (ingestion phase)
 - 3.1. Importing files

2.3. Device control

- 3.2. File organization
- 3.3. Views and adjustments
- 3.4. The timeline
- 3.5. Navigation controls
- 4. Playing and watching media
- 5. The editing workflow
 - 5.1. Basic editing
 - 5.2. Timeline editing
- 6. Transitions and effects
- 7. Audio techniques and integration
 - 7.1. Importing
 - 7.2. Volume levels
- 8. Recording and editing a voiceover
 - 8.1. Speed adjustments
 - 8.2. Pitch shifting
- 9. Applying audio effects and mixing
- 10. Working with still images
 - 10.1. Image sizes and scaling
 - 10.2. Sequences
- 11. Applying project titling and templates
 - 11.1. Creating and managing titles
 - 11.2. Working with logos
 - 11.3. Working with templates
- 12. Applying advanced editing techniques
 - 12.1. Trimming and modifying
 - 12.2. Establishing synchronization
 - 12.3. Color correction and matching
- 13. Mastering & multi-platform delivery
 - 13.1. Exporting techniques and formats
 - 13.2. Signal conversions
 - 13.3. Encoding and compression
 - 13.4. Recording mediums and standards.