

**DEREE COLLEGE SYLLABUS FOR:
ITC 3128 DIGITAL IMAGING**

2/1/2

(Updated Spring 2016)

**UK LEVEL 5
UK CREDITS: 10**

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| PREREQUISITES: | ITC 1070 LE Information technology Fundamentals –or- CS 1070 Introduction to Information Systems | | | | | | | | |
| CATALOG DESCRIPTION: | Digital imaging fundamentals. Bitmap/vector comparative analysis. Digital capture process. Platforms and output devices. Color theory. Color management. Image editing & compositing. Post production techniques. | | | | | | | | |
| RATIONALE: | The course is intended for students, who wish to acquire familiarity with the tools and techniques used for digital image editing & composition. While it focuses on hands-on experience, it also exposes students to the necessary theoretical concepts in order to form a comprehensive background on the topic. | | | | | | | | |
| LEARNING OUTCOMES: | <p>As a result of taking this course, the student should be able to:</p> <ol style="list-style-type: none"> 1. Identify and analyze fundamental concepts of the digital imaging domain. 2. Evaluate the different platforms for digital capture and output. 3. Examine proper application and management of color, inside digital compositions. 4. Utilize appropriate digital imaging techniques to compose, mix and edit image compositions and illustrations. | | | | | | | | |
| METHOD OF TEACHING AND LEARNING: | <p>In congruence with the teaching and learning strategy of the college, the following tools are used:</p> <ul style="list-style-type: none"> • Lectures and class discussions. • Laboratory sessions involving training on image editing. • Office hours held by the instructor to provide further assistance to students. • Use of the Blackboard Learning platform to further support communication, by posting lecture notes, assignment instruction, timely announcements, and online submission of assignments | | | | | | | | |
| ASSESSMENT: | <p>Summative:</p> <table border="1" data-bbox="643 1472 1442 1631"> <tr> <td>Project: (preparation of an image editing composition)</td> <td style="text-align: center;">50%</td> </tr> <tr> <td>Final Examination (2-hour comprehensive): combination of short essay questions and case problems</td> <td style="text-align: center;">50%</td> </tr> </table> <p>Formative:</p> <table border="1" data-bbox="643 1694 1442 1841"> <tr> <td>In-class, 1-hour, “diagnostic” test (short essay questions and case problems)</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Coursework: practical exercises / creation of a digital image composition/ case problems</td> <td style="text-align: center;">0</td> </tr> </table> | Project: (preparation of an image editing composition) | 50% | Final Examination (2-hour comprehensive): combination of short essay questions and case problems | 50% | In-class, 1-hour, “diagnostic” test (short essay questions and case problems) | 0 | Coursework: practical exercises / creation of a digital image composition/ case problems | 0 |
| Project: (preparation of an image editing composition) | 50% | | | | | | | | |
| Final Examination (2-hour comprehensive): combination of short essay questions and case problems | 50% | | | | | | | | |
| In-class, 1-hour, “diagnostic” test (short essay questions and case problems) | 0 | | | | | | | | |
| Coursework: practical exercises / creation of a digital image composition/ case problems | 0 | | | | | | | | |

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| | <p>The formative assessments aim to prepare students for the project and the examination.</p> <p>The Project tests learning outcome 4</p> <p>The Final examination tests Learning Outcomes 1, 2, 3</p> |
| INDICATIVE READING: | <p>REQUIRED READING: Chapman, N., & Chapman, J. (2009). <i>Digital multimedia</i> (3rd ed.). Chichester: John Wiley.</p> <p>RECOMMENDED READING: Adobe Creative Team, (2015). <i>Adobe Photoshop CC Classroom in a Book</i>, Adobe Press</p> <p>Evening, M. (2015). <i>Adobe Photoshop CC for Photographers</i>, Focal Press</p> <p>Evening, M. (2015). <i>The Adobe Photoshop Lightroom CC / Lightroom 6 Book: The Complete Guide for Photographers</i>, Adobe Press</p> <p>Gonnella, R. (2014). <i>Design fundamentals notes on color (theory)</i>. San Fransico: Peachpit Press.</p> <p>Gonnella, R., & Navetta, C. (n.d.). <i>Design fundamentals: Notes on visual elements and principles of composition</i>.</p> <p>Harrington, R. (2006), <i>Understanding Adobe Photoshop: Digital Imaging Concepts and Techniques</i>, Pearson Education</p> |
| COMMUNICATION REQUIREMENTS: | <p>Daily access to the course's site on the College's Blackboard CMS.</p> <p>Effective presentation skills using proper written and oral English.</p> |
| SOFTWARE REQUIREMENTS: | <p>Adobe Creative Suite, Latest Edition</p> |
| WWW RESOURCES: | <ul style="list-style-type: none"> • The Imaging Resource (www.imaging-resource.com) • Digital Image Magazine (www.digitalimagemagazine.com) • Adobe developer connection (www.adobe.com/devnet.html) • Adobe Create Magazine (create.adobe.com) • Smashing Magazine (www.smashingmagazine.com) |
| INDICATIVE CONTENT: | <ol style="list-style-type: none"> 1. Digital Imaging fundamentals <ol style="list-style-type: none"> 1.1. Digital Canvas <ol style="list-style-type: none"> 1.1.1. Pixels 1.1.2. Image Mode 1.2. Bitmaps-Raster Images <ol style="list-style-type: none"> 1.2.1. Properties <ol style="list-style-type: none"> 1.2.1.1. Resolution 1.2.1.2. Size-Dimensions 1.2.1.3. Bit depth 1.2.2. Composition & Acquisition 1.3. Vector Images <ol style="list-style-type: none"> 1.3.1. Properties |

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| | <ul style="list-style-type: none">1.3.1.1. Fill1.3.1.2. Outline/Stroke1.3.1.3. Paths-Curves1.3.2. Composition & Acquisition1.4. Bitmaps vs Vectors2. Digital Capture Workflows3. Sizing digital images4. Image editing tools and techniques5. Layers and Masks6. Blending modes7. Colour Theory Primer<ul style="list-style-type: none">7.1. Colour Perception (colour properties, human colour perception)7.2. Digital Colour Representation (Binary, Hex, 8bit, 16bit, 24bit)7.3. Colour Spaces/Models (RGB, CMY/K, Lab)7.4. Colour Application (Colour Wheel, Harmonies, Tints, Tones)8. Colour Management<ul style="list-style-type: none">8.1. Colour Profiles (ICC Profiles)8.2. Colour Workflows9. Image Adjustments10. Image Enhancements11. Filters12. Outputting<ul style="list-style-type: none">12.1. Printing12.2. Web12.3. File types |
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