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| Title: | Applied Information Technology 2a & 2b |
| Task/Lesson No. | **Task 3 Concepts & Design Portfolio** |
| Class: | **AIT 2a & (2b)** |
| Area:  | **Technology & Enterprise** |
| Teacher:  | Mr Faulks |
| Phone: | (08) 9310 0864 |
| Contact email: | pfaulks@corpus.wa.edu.au |
| Timeline:  | See below |
| Date Due:  | **Time allocation**Four (4) weeks to complete this task. NOTE you may be allowed to extend to week 2 of term 3 in certain circumstances i.e. workplace experience, special school duties**1st September 2008** |
| Task Notes: | **Portfolio 2 Concepts & Design Worksheet is provided** |

**Task 3:**

**Concepts And Design Portfolio – Power Point**

**Overview**

**Task 3**

**Produce a selection of slides representing your understanding of the concepts and design aspects of technology and media.**

**Include explanations of why and how the concept or design is created.**

**Include supporting evidence within your power point of when the concept or design would be used in a business environment.**

**There are substantial lesson units and documents to help you compose this portfolio however you should strive to obtain more in depth information wherever possible.**

**This task requires a Journal and an Evaluation**

|  |  |
| --- | --- |
| **What needs to be in your portfolio for assessment?** | **Due dates:** |
| * Portfolio created in Power Point with a  **Cover Page**
 | Week 10 term 2 |
| * A hyper linked **Table of Contents**
 |  |
| * A **Help Page** with navigation task bar for each page
 |  |
| * A section showing your understanding of **Hardware components**
 |  |
| * A comparison of **Analogue V's Digital technology**
 |  |
| * A table showing your understanding of various **File Formats .jpg, .doc**
 |  |
| * An example of two types of image **Compression** Lossy & Lossless
 |  |
| * Examples of various methods of **Navigation** in documents, web pages or presentation documents
 |  |
| * A diagram and explanation of the **Technology Process**
 |  |
| * Aspects of good design such as the **SPARC Principles**
 |  |
| * Examples showing the **Impact of colour** in various situations
 |  |
| * Visual and explanation in the use of **Metaphors and symbols**
 |  |
| * Completed image manipulation for a **Post Production** 1 girl inserted in a picture of 2 girls to create an image of 3 girls
 |  |
| * Other examples of **Image Manipulation**
 |  |
| * A comparison of **Colour Depth**
 |  |
| * Samples of Image **Quality** dpi and **Vector or Raster types**
 |  |
| * A comparison of at lest two **Software**
 |  |
| * Use of **visual Effects** in images and text
 |  |
| * Visual and technical explanations of **Ergonomics**
 |  |
| * A **Screen Template** made exclusively by you
 |  |

**MARKING KEY Unit 2A AIT**

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## *Task 3: Concepts & Design Power Point Total: 100*

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| --- | --- | --- |
| Item *Task 3 Portfolio* | PossibleMark | ActualMark |
|  |  |  |
| Portfolio created in Power Point with a  **Cover Page** A hyper linked **Table of Contents** | 5 |  |
| A **Help Page** with navigation task bar for each page (3)A **Screen Template** made exclusively by you (2) | 5 |  |
| A section showing your understanding of **Hardware components** | 5 |  |
| A comparison of **Analogue V's Digital** technology | 5 |  |
| A table showing your understanding of various **File Formats .jpg, .doc** | 5 |  |
| An example of two types of image **Compression** Lossy & Lossless (2) + A comparison of **Colour Depth** (3) | 5 |  |
| Examples of various methods of **Navigation** in documents, web pages or presentation documents | 5 |  |
| A diagram and explanation of the **Technology Process** | 5 |  |
| Aspects of good design such as the **SPARC Principles** | 5 |  |
| Examples showing the **Impact of colour** in various situations | 5 |  |
| Visual and explanation in the use of **Metaphors and symbols** | 5 |  |
| Completed image manipulation for a **Post Production** 1 girl inserted in a picture of 2 girls to create an image of 3 girls | 5 |  |
| Other examples of **Image Manipulation** | 5 |  |
| Samples of Image **Quality dpi and Vector or Raster types** | 5 |  |
| A comparison of at lest two **Software** | 5 |  |
| Use of **visual Effects** in images and text | 5 |  |
| Visual and technical explanations of **Ergonomics** | 5 |  |
| Journal | 5 |  |
| Overall Quality | 10 |  |
|  |  |  |
|  |  |  |
| **Total** | **100** |  |

**Teacher Comment:**

|  |  |
| --- | --- |
| **What needs to be submitted for assessment** | **Due date** |
| **Evidence of your investigation including:*** Depth of research
* Investigation on all aspects required
* Explanation of how or why elements are used
* Use of Bibliography and references
 |  |
| **All production drafts and other activities**As you work through each week you will be using the Technology Design Process and creating drafts to help you complete Tasks 1 and 2. You will need to keep copies of these and include them in your portfolio. You will also complete other activities as you investigate Information Technologies. These are also to be added to your portfolio. |  |
| **Journal which includes:** This is a journal in which you explain how you created your designs, images, audio and video files. You can also use a journal to reflect on what you have achieved, any areas you would like more help on, and any thoughts you have on information technologies or the Technology Process.* timeline
* skills, hardware and software identified
* project review—What were you asked to do? What you did? What would you do better?
 |  |
| **Any electronic files**All your electronic files should be saved, named and filed appropriately and included as part of your portfolio **Link to MySite** |  |
| **Evaluation** At the end of each task you will complete an evaluation where you can comment on how you found the task, any problems encountered, and anything you would do differently in the future. |  |

**What you need to do:**

1. Use the most appropriate software
2. Create your designs for the portfolio using screen layouts, script, storyboard etc. The designs should include all annotations demonstrating your understanding of the principles and elements of design. You must annotate the designs explaining why components are suitable for the purpose or target audience.
3. Brainstorm a range of methods to display your understanding of concepts
4. Your journal should contain: Document your research.
* the timeline for your project
* identify the hardware and software you will need to produce your product
* identify what skills you will require in order to complete the proposed project.
1. Evaluate your project proposal.
* What were you asked to do?
* What you did?
* What would you do better?
* What you intended to do?
* What worked?
* What didn’t work?
* What changes you had to make to your designs and why?
* What you would do better next time?
* Peer evaluation of your product.

**What you need to know…**

1. **Create a hyperlink from each content title to the appropriate page**
2. **Create buttons linking all the pages**
3. **Include a help page explaining how to navigate about the presentation**
4. **All slides should be hyperlink**
5. **Create buttons making a taskbar linking all the pages**
6. **Make notes on how you created your work, what effect you are seeking and what techniques you employed.**

#### Create the Portfolio


#### AIT 2 Concepts & Design.ppt

(Should be about twenty (20+) slides.)

Use the comments pane

and notes windows

to complement your portfolio

*Sample Notes:*

***Welcome page:***

*Draft: i.e. This portfolio is to keep a SET OF SAMPLES OF ALL MY Applied Information Technology skills. The key design features will be: consistent background, consistent title, consistent layout, metaphors to assist understanding, navigation that works properly and accurate content.*

*My audience will be write in the notes section on your power point*

*My presentations are hyperlinked through a set of menus and sub menus. The navigation is hierarchical.*

*Key design features are write in the notes section on your power point*

*The carrier software for this presentation will be PowerPoint. There are many examples in this presentation which is only a ‘click!’ away, including plenty of explanations and definitions.*

*There are some interesting examples of creative media work, providing viewers with a variety of aspects involved in* ***Applied Information Technology***

***Start here:***

*Create a template in Power Point using colour and consistent fonts throughout, make your own background in the master slide (do not use any images or templates) duplicate the first slide and create headings for the following slides.*

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| **Slide (notes)** | **What to do** | **References** |
| Slide 1 | Create an image that conveys the title, your name, class name and year - be as creative as you want but relate to the SPARC Principle and the effective design of presentations chart, you will learn more of this when using the impact of colour slide. | **Welcome to my Concepts & Design portfolio (opening slide)**creating\_effective\_presentations.doc |
| Slide 2 | **Table of contents hyperlinked** | ***Make a taskbar to link all slides including home, help and cover*** |
| Slide 3 | **Help Page – Explain how your buttons work –**  | **Create navigation buttons on all pages** |
| Slide 4  | **Hardware & Peripherals**Paste the following picture into your presentation and draw arrows to labels identifying the components. *Identify all the extra things you connect to a computer (eg. Web-cam, printer, scanner, keyboard, headphones)show some hardware list with details you expect to use in AIT Hardware – the physical components of the computer* | Insert the pictureHardware Computer Quiz.docsystem\_specifications.doc |
| Slide 5*.*  | **Analogue V's Digital** Find images of at least two items that have changed from analogue to digital in the past 20 years compare the technology | analogue\_digital.docdigital\_convergence.docliving\_digital.doc |
| Slide 6 | **File Formats** – Use a table to show various file formats for at least three types, i.e. audio, graphic and video and show information in a table. | Image files and size.docExplanation on use and suitability |
| Slide 7 | **Compression** Take a photograph of yourself with a camera save it then capture a web cam picture of yourself - compare the image quality and file size. Make a comment about which would be most suitable in a brochure. | camera\_terminology.doc |
| Slide 8 | Navigation **Describe various navigation** methods | Web – Linear etc. |

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| **Slide (notes)** | **What to do** | **References** |
| Slide 9 | Technology Process | tech\_process.doc |
| Slide 10 | SPARC Principles - Describe the SPARC principle show examples | SPARC Principle.docGraphic\_Design\_presentation.ppt |
| Slide 11 | Impact of colour - Make a table showing the various effects of colour | All about Colour.doc |
| Slide 12 | **Metaphors** -Metaphors are commonly used in computer games, digital presentations and even in instruction manuals. Metaphors are used to express movements throughout presentations quickly and efficiently. They are used to be directive and are important as they provide a simple navigation system. (REMEMBER YOUR NAVIGATION BUTTONS – are these metaphors?) | Create a table showing at least six metaphors |
| Slide 13 | Post Production – Take two images (one girl + two girls) and combine them into one picture | 1. Work on girls in the park images using the folder girls in park combine two girls and one girl into a photograph of three girls.
2. post production instructions.doc on how to achieve this.
 |
| Slide 14 | Image Manipulation1. Find an original image from the Internet show at least three modifications.
2. Download and put it into your graphics folder call it Original.jpg
3. Copy & Paste the image in any suitable software package and change the image as follows:-
 | 1. Decrease the brightness, and save as **Modification 1.jpg**
2. Crop the picture and save as **Modification 2.jpg**
3. Use a special effect and save as **Modification 3.jpg**

After you have performed the following modifications paste them into your power point portfolio as four images on one slide. |
| Slide 15 | **Colour Depth***-*. Lossy etc.Gather more information – show samples of two files compressed v’s uncompressed | camera\_terminology.docpixels.doc Image\_resolution.doc camera comparison sample.doc |
| Slide 16 | Image Quality Vector Images v's Raster ImagesCompare a Vector Image to a Raster ImageExplain the differences between each format and why or when to use | digital\_images\_basics.docraster\_vector\_images.doc |
| Slide 17 | Software List at least four software packages and explain what each can do for AIT i.e. compare Flash to RAVE |  |
| Slide 18 | Effects Find an original image from the Internet show at least three filter effects with information about why you chose that effect what it conveys and what effect it was including the settings. | Use any suitable software package to create different effects (i.e. bloat) – explain what you did and include the effect information |
| **Slide 19** | **Ergonomics** Give examples of ergonomic situations take a photograph of someone in a poor ergonomic position and someone in a good ergonomic position in the computer room) – complete the ergonomics checklist  | ergonomics\_checklist.doc |
| **Slide 20** | My Screen Template - Describe how you created your background, what theme of effect you were after | **Additional slides as required** |

**Save the file to your Task 4 portfolio folder as:** your initials \_Concepts & Design.ppt

Make a link to the power point from your web page MySite

