**Windows (KTPT014-3002)**

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**Year: 2016**

**Realization Content**

* Setting up Windows 10
* Basic maintenance & management of the operating system
* Distribution of updates
* Management of Windows 10 (Storage, apps, data security, device security)
* Windows 10 recovery options

**Evaluation Criteria:**

**Learning Portfolio**: The Learning Portfolio is an important component of this course. It is evaluated and graded through peer assessment. The learning portfolio must be submitted by the specified deadline to receive grade for your submission. Learning portfolio deadline is not flexible.

The template for learning portfolio is available in the student learning environment used for the course. The learning portfolio must contain the following 2 components:

The learning portfolio should demonstrate that the learning acquired in the class room corresponds to the learning outcomes and content of the study module. Students should produce a short report of their learning acquired through lectures and documentation for class activities (practical tasks).

The student should reflect his/her own learning with respect to the objectives of the study module. The portfolio should be a reflective demonstration of the students learning.

For each lecturing day, the learning portfolio should include two parts:

1. **Reflection:** What have you learned? (150 Words for each lecture)
2. **Documentation:** This course contains a series of practical tasks and in class activities. The documentation should describe how a certain practical task was completed. You should include screenshots (wherever applicable) and explain step by step process for performing a particular task.

**Teaching Methods:**

Pedagogical practices in the course include student ownership and active participation **(80% attendance required)**, activities of searching, sharing and elaborating knowledge, conducting tasks and critical reflection on one's own activity.

The model of instructional design is implemented for systematically determined course contents and delivery methods that follows a logical sequence. Learners activities are predefined and a uniform sequence of instruction is practiced. However, socio-cultural paradigm is focused by utilizing the model of collaborative learning in performing practical tasks and assignments.

**Exam Schedule:**

No Exam.

**Students use of time and load:**

1 ECTS credit is equal to approximately 27 hours of a student's work.

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| KTPT014-3002 | | | | | **COURSE PROGRESSION PLAN** | | | |  |
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|  | | | | | Date | | | | |
|  | | | | | 6.1.2016 |  | | | |
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| Code | | | KTPT014-3002 | |  | | | | |
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| Teacher/s | | | Deepak KC | | | | | | |
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| Degree Programme | | | Tietotekniikan koulutusohjelma | | | | Group Code | TTK15SD | |
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| Course Name | | | Windows (KTPT014-3002) | | | | | | |
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| Time |  | Organisation of Contents | | Teaching arrangements (lessons, laboratories, assignments, projects, virtual/e learning…) | | | | | | |
| Week 2 |  | Introduction to the Course  Introduction to Windows 10 – Chapter 1 | | **Assignment 1:**   * **Get used to with the learning environment used for the course.** * **Download the template for learning portfolio.** * **Read the guidelines about the usage of lab facilities. (only available inside the LAB Network)** * **Make sure that you have access (username & password) to the Lab server** * **Start your learning portfolio** | | | | | | |
| Week 4 |  | Installing Windows 10 – Chapter 2 | | **Assignment 2:**   * **Perform clean installation of Windows 10** * **Run Windows Update** * **Turn On System Protection** * **Check Action Centre** * **Disable Wi-Fi Sharing** * **Install Anti-Virus Software** * **Install the “Create Installation Media” and learn to create a bootable USB** * **Get used to with the Start Menu** * **Update your learning Portfolio** | | | | | | |
| Week 5 |  | Application Management , Installation & Configuration – Chapter 3 | | **Assignment 3:**   * **Exploring Windows 10. Download the document using the link below and follow instructions to explore Windows 10**    + [**https://www.microsoft.com/en-us/download/confirmation.aspx?id=47716**](https://www.microsoft.com/en-us/download/confirmation.aspx?id=47716) * **Setting File Associations:** Windows 10 uses file types to associate data files with specific applications. File can also appear as file name extensions   + **Question 1:** What program is currently associated with the .jpg file name extension?   + **Question 2:** What program is currently associated with the .ics file name extension?   + **Question 3:** What program is currently associated with the .mov file name extension? * **Setting Compatibility Modes:** Compatibility modes enable you to specify what Windows version a particular program was designed to use.   + **Question 1:** What can you do if you are unsure which version of Windows you should specify in the compatibility settings?   + **Question 2:** Download older version of Firefox : <https://ftp.mozilla.org/pub/firefox/releases/1.0.2/win32/en-GB/Firefox%20Setup%201.0.2.exe> Run this program in compatibility mode for Windows 7 * **Modifying File Associations:** Windows 10 uses its modern interface to provide alternative ways of performing tasks usually found in the Control Panel.   + **Question 1:** Change the default file association for JPEG files with a .jpg extension. However, this time, you cannot use the Default Programs control panel. Change the default file association to the Paint program. * **Windows Store: (Optional Exercise)**   + **Question 1:** Install VLC for Windows using the Windows Store | | | | | | |
| Week 6 |  | Application Strategy for Cloud Applications – Chapter 4 | | **Assignment 4:**   * **Create a New Virtual Machine and Install Windows 10 Enterprise Edition. Install the VMWare Tools. Once the setup is ready, delete your old virtual machine (Windows 10 Educational Edition)** * **Using Applocker to Manage Applications**: AppLocker is a powerful tool that can control which applications can be executed on a computer running Windows.   + Question 1: Restrict notepad   + Question 2: Restrict Create a Windows To Go workspace(pwcreator)   + Question 3: Make sure that once the policy has been applied, these applications are restricted. * **Restricting Access to the Windows Store Using Group Policy:** While the Windows Store can provide a wide range of useful applications, these applications can cause security problems within your organization and can reduce user productivity. Therefore, you need to restrict access to the Windows Store. * **Software Restriction Policy:** Write a software restriction policy that non admin users are restricted to run the application in Software\_Rest\_Folder (Create this folder in your C:, install google chrome in the folder) * **What are the requirements to perform sideloading and what is the general process for sideloading a Windows app?** * **Get used to with the SkyDrive.** | | | | | | |
| Week 7 |  | Managing User Accounts & Profiles – Chapter 5 | | **Assignment 5 (Technet Virtual Labs): Follow in-class instructions and perform the following tasks:**   * Upgrading to Windows 10 (from Windows 7)   + Under Machines both OS should be Windows 10.   + Include the screenshot that mentions the hostname, username, IP address & OS version for both machines in your learning portfolio. * Sign in to Windows 10 by using Azure Active Directory   + If you do not yet have an azure id, you can skip this exercise. * Manage Windows 10   + Settings in the new Settings app   + The Windows 10 command prompt   + Manage Windows 10 notifications and actions * Manage Windows 10 provisioning packages   + Provision Wi‑Fi settings   + Provision device policies   + Provision public documents   + Provision Windows updates   + Export the provisioning package * Review the Windows 10 upgrade   + Sign in to see the results of upgrade is completed   Lab Name: IT Pro-Try-It Out Lab : [**https://technet.microsoft.com/en-us/virtuallabs/bb467605.aspx**](https://technet.microsoft.com/en-us/virtuallabs/bb467605.aspx)  **Note: You don’t need to write Reflection for today’s lecture.** | | | | | | |
| Week 8 |  | Network Settings – Chapter 6 | | **Task 8.1: What is the correct order that Windows 10 prioritize networks?**  **Task 8.2: Write the appropriate command line for the following tasks**   1. To release your current IP information and get a new one from the DHCP server. 2. To send continuous ping until you press ctrl+c to stop 3. To send 20 pings 4. To trace the path to kamk.fi 5. To know the IP address for a domain named googlefi 6. To display the list of all active programs that are listening 7. To display Ethernet statistics   **Task 8.3: Specify the steps forget a wireless network that is used for one-time task while you are still within the range of the network.**  **Lab Name: Windows 10 & Enterprise Mobility**   * **Module 1 – Lab 2 : Installing an App using PowerShell** * **Module 3 – Lab 1: Creating a provisioning package** | | | | | | |
| Week 9 |  | Network Security – Chapter 7 | |  | | | | | | |
| Week 10 |  | Independent Study Week | |  | | | | | | |
| Week 11 |  |  | |  | | | | | | |
| Week 12 |  |  | |  | | | | | | |
| Week 13 |  |  | |  | | | | | | |
| Week 14 |  |  | |  | | | | | | |
| Week 15 |  |  | |  | | | | | | |
| Week 16 |  |  | |  | | | | | | |
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| Week 18 |  |  | |  | | | | | | |
| Week 19 |  |  | |  | | | | | | |
| Week 20 |  |  | |  | | | | | | |
| Week 21 |  |  | |  | | | | | | |
| Project Description |  |  | |  | | | | | | |
| Area of competence/skills : Windows Operating System, Windows 10, installation, basic maintenance, update and centralized management, automated installation | | | | | | | | | | |
| Literature, study material : Introducing Windows 10 for IT professionals – Preview Edition | | | | | | | | | | |