# Week 1 Lesson Plan

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| *Title* | ECIE 2207/ ECSE 3108/ ECII 2206/ ECSI 2206 |
| *Subject* | Advanced Visual Programming |
| *Author* | Felix Okoth |
| *Grade level* | 2rd Year |
| *Time duration* | 4 hours |
| *Overview* | Introduction to AVP and setting up the environment. |
| *Objective* | * Introductions to tools and installation/setup * Cloud environment (bitbucket.org, gitlab.com, github * Git * Maven * Java8 JDK * Commands * Creating a micro-service using vertx maven plugin. * Using basic git commands such as   + git clone   + git add .   + git commit -m “message”   + git git push   + git pull |
| *Materials* | * Read   + Version Control with Git, 2nd Edition.pdf Chapter-3, page 19 – 30   + Master the commands in github-git-cheat-sheet.pdf   + Apache.maven.3.cookbook.pdf Chapter-1 Page 7 - 22 |
| *Activities and procedures* | 1. Install Git 2. Install Maven 3. Create a local repository folder 4. git clone https://felixtukenya@bitbucket.org/felixtukenya/avp.git 5. Create a cloud repository. 6. Clone the repository 7. Create/ clone a Vertx microservice. 8. Put the created microservice under source control and push to the cloud. |
| *Conclusions* | Practice, practice, practice! |
| *Extra credit* |  |