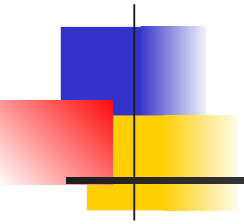

Introduction to the Course

Individual Software Process

Course Description

กระบวนกำรพัฒนำซอฟต์แวร์สมัยใหม่ กำรพัฒนำแบบ วนรอบและแบบค่อยเป็นค่อยไป กำรวำงแผนและประมำณ

โครงกำรเดี่ยว กำรจัดกำรเวลำ กำรติดตำมเวลำ คุณภำพรหัส

โปรแกรม กำรปรับปรุงรหัสโปรแกรม กำรตรวจสอบรหัส

โปรแกรม กำรควบคุมรุ่นของรหัสโปรแกรม กำรทดสอบ

ซอฟต์แวร์เบื้องต้น กำรพัฒนำซอฟต์แวร์ภำยใต้กรอบงำน

Modern software development process, iterative and incremental development, individual project planning and estimation, time management, tracking time, code quality, code refactoring, code review, source code version control, introduction to software testing, software development under a modern framework.

Purpose of This Course

Developers work on projects in teams.

They apply a process to their projects.

Individual Software Process - skills, knowledge, and habits to be an effective developer

Workgroup Software Process - how to work effectively as a (larger) team. Apply a team process to a project.

SKE technical courses - the knowledge you need

Topics in this Course

Conceptual Knowledge	Skills	Knowledge of Technology	Habits
Software processes, Iterative and Incremental Dev, Agile concepts	Estimation Tracking Work Testing Code Review Build Management Refactoring Retrospective	Git JUnit, PyTest Mock Objects Task boards Issue tracking Tools for automation Ant, Maven, CI	Clean Code Self-learning Communication skill Focus

Goal of the Course

Learn and apply basic software development skills needed for an individual developer

Prerequisite for this Course

1. Ability to code in Python, at level of Programming 2.

2. Git basics: create or clone a repo, update files, push changes, view changes.

3. How to use Github and Github Classroom.

See: **`https://skeoop.github.io/`**

Work and Grading

1. Weekly assignments - in lab and homework
2. Quizzes
3. Exams
4. Small team project - a web application

Grading scale announced later.

Online Course Resources

Google Classroom. Assignments & announcements.

- Feedback and discussion, too.

Github Classroom: for programming assignments

Course Material: **`https://cpske.github.io/ISP`**