





Description in Course Catalog

กระบวนกำรพัฒนำซอฟต์แวร์สมัยใหม่ กำรพัฒนำแบบ วนรอบและแบบค่อย เป็นค่อยไป กำรวำงแผนและประมำณ
โครงกำรเดี่ยว กำรจัดกำรเวลำ กำรติดตำมเวลำ คุณภำพรหัส
โปรแกรม กำรปรับปรุงรหัสโปรแกรม กำรตรวจสอบรหัส

โปรแกรม กำรควบคุมรุ่นของรหัสโปรแกรม กำรทดสอบ

ชอฟต์แวร์เบื้องต้น กำรพัฒนำชอฟต์แวร์ภำยใต้กรอบงำน

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 alone or on a team.

Workgroup Software Process - how to work effectively on a (larger) team. Apply other process areas.

SKE technical courses - the knowledge you need

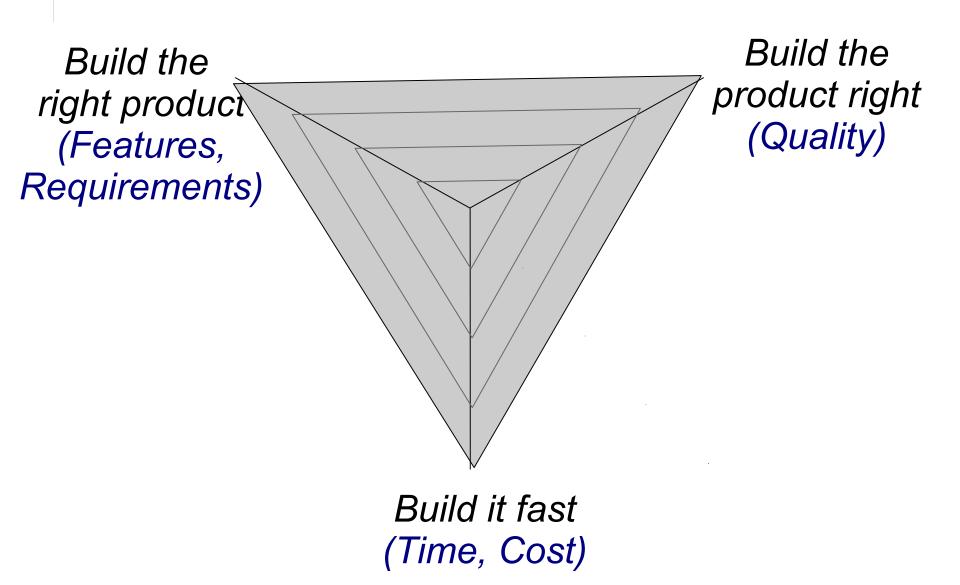
Topics

Conceptual Knowledge	Skills	Technology	Habits
Software	Estimation	Git	Clean Code
processes	Tracking Work	Python unittest	Self-learning
Iterative & Incremental dev,	Testing	Persistence	Communication
Agile concepts	Code Review	Task boards	skill
HTTP & Web basics	Build Management	Issue tracking Automation, CI	Time Mgmt.
	Refactoring	Ant, Maven	
	Retrospective		

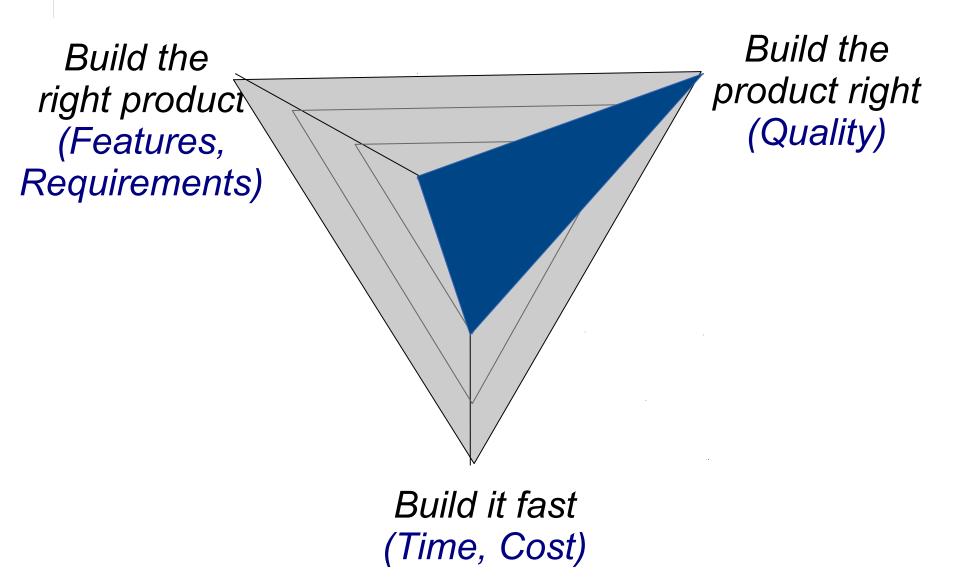
Goal of the Course

Learn and apply basic software development skills needed by most developers

Dimensions of a Typical Software Project



Focus of this course



Prerequisite for this Course

- 1. Ability to code in Python at level of **Programming 2**.
 - Knowledge of O-O concepts.
- 2. **Git basics**: create or clone a repo, update files, push changes, view changes to files.
- 3. How to use **command line** to navigate file system, manipulate files, enter git commands.
- 4. How to use Github and Github Classroom.

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See: https://skeoop.github.io/
Week1 assignment.
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Seriously...

If anyone has <u>not</u> passed Programming 1, it is a waste of your time to enroll in this course.

Pass Prog. 1 and Prog. 2 first.

Then take ISP. You will learn more.

Software on your Computer

- 1. Python 3.6 or newer.
- 2. Git command line. Bash shell is helpful.
- 3. Python Library reference, bookmark in your browser. Useful and faster than searching the Internet.

Later we will add...

4. Django and other Python packages.

Work and Grading

- 1. Weekly assignments in lab and homework
- 2. Quizzes
- 3. Written Exams
- 4. Programming Exams
- 5. 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

lecture material, articles, "how to", but not in sequential order