

Course	SE 234 (953234) Basic Development and Operations	3 (2-2-5) credits
	Lecture – ILC B302 on Mondays 12:30 – 14:30	
	Lab – ILC C205 on Thursdays 12:30 – 14:30	

The first half of this course is aimed at preparing students to work in teams. Topics to be covered include version control, issue tracking, and basic Linux. As time allows, advanced topic according the indirect ways to utilize toolsets facilitating these practices will be further discussed.

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- Sink, E. (2011). *Version control by example*. Champaign, IL: Pyrenean Gold Press.
- Davis, J., & Daniels, R. (2016). *Effective DevOps: building a culture of collaboration, affinity, and tooling at scale*. O'Reilly Media, Inc.

Course Contents

Date	Lecture	Lab
23 and 26 Nov, 2020	Course introduction	Dev Ops (Lecture)
30 Nov and 3 Dec, 2020	Version control	Basic Git
7 and 10 Dec 2020	Stories that can be told by Git history	Working with Git in team (take home because of holiday?)
14 and 17 Dec 2020	Issue tracking	Issue tracking in action
21 and 24 Dec 2020	Modern issue tracking	Kanban
28 and 31, Dec 2020	New year holidays -- No class	
4 and 7, Jan 2020	Basic Linux	Basic Linux commands
11 and 14, Jan 2020	Bash	More Linux commands
18 and 21 Jan, 2019	Commencement day -- No class	
Midterm Exam -- TBA		

Note: Some topics of the aforementioned contents might be subject to change or add. The notice will be announced in the course website.

Course Work

- Lectures (2 hours per week)
- Labs (2 hours per week)
- Assignments
- Paper-based midterm examinations

Grading System: TBA

The score distribution of the first half will be as follows:

- | | |
|--------------------------------------|-------------------|
| • Attendance and Class Participation | 6% |
| • Labs | 12% |
| • Assignments | 12% |
| • Midterm Examination | 20% |
| Total | <u>50%</u> |