

# Course Homework

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**AMOS A02**

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# Course Schedule

CW#	Class Content	Deliverables Due
01	Project introductions	Team contract
02	Tools and technologies	Project information, team T-shirt, sprint release
03	Agile software processes	Sprint release, architecture description
04	Agile product management	Sprint release
05	Agile software development	Sprint release
06	Agile quality assurance	Sprint release
07	Agile process improvement	Mid-term release
08	Guest speaker (see online course schedule)	Sprint release
09	Guest speaker (see online course schedule)	Sprint release
10	Guest speaker (see online course schedule)	Sprint release
11	Guest speaker (see online course schedule)	Sprint release
12	Guest speaker (see online course schedule)	Sprint release, demo day posters
13	Guest speaker (see online course schedule)	Sprint release; demo day slide
14	AMOS demo day!	Final release
15	-	Report and retrospectives

# Work Rhythm

- Lectures
  - Class day (90min.)
- Team meetings
  - Class day before or after lecture
  - Assigned time slots cannot be changed
- Project work (self-organized)
  - Deliverables due according to schedule

# Types of Deliverables 1 / 4

- **Process artifacts**
  - All tabs from the planning document
  - Quality criteria for process artifacts
    - Cleanliness, completeness, correctness
    - Understandability and usefulness
    - Others more ...

# Types of Deliverables 2 / 4

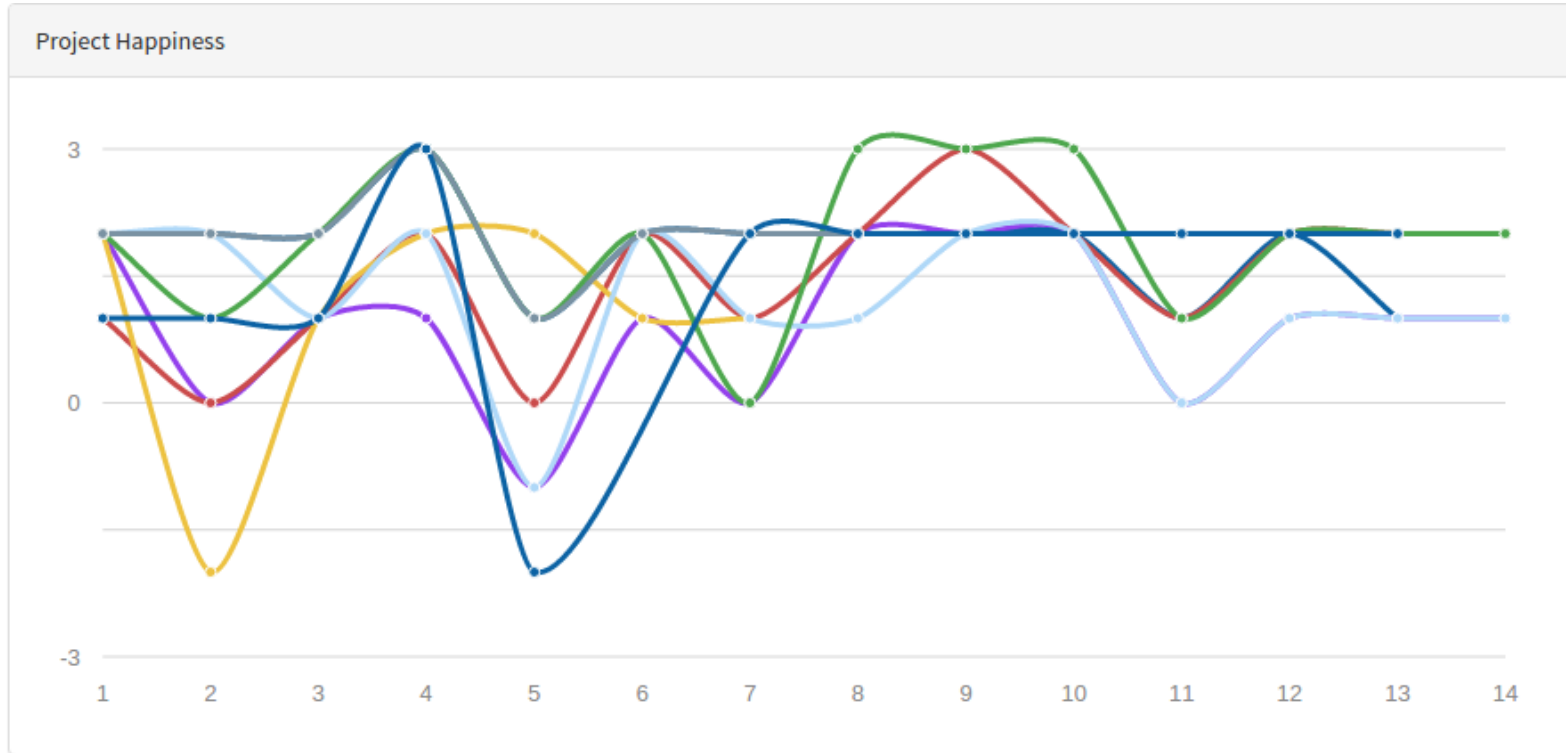
- **Product artifacts**
  - Everything in the code repository
  - Product artifacts accumulate over time
    - What specifically depends on the project, but typically includes
      - Source code
      - User documentation
      - Technical documentation
- Quality criteria for product artifacts
  - Cleanliness of source code
  - Use of commit comments
  - Effective use of branching
  - Correct tags and releases
  - Sufficient test coverage
  - Others more ...

# Types of Deliverables 3 / 4

- **Stand-up emails**
  - A short summary email through the Happiness Index app containing
    - What you did since the last email
    - What problems you encountered
    - What you are going to do next
  - Expected minimum frequency
    - Product owner role: Max. one per day, in total two per week
    - Software developer role: Max one per day, in total three per week

# Types of Deliverables 4 / 4

- **Happiness index**
  - Provide feedback through the Happiness Index app



# Time of Day for Deliverables

- Process artifacts
  - Before team meeting on team meeting day
- Product artifacts
  - Middle of team meeting (after prior sprint, before new sprint)
- Stand-up emails
  - Midnight every day
- Happiness index
  - During retrospective in team meeting
- Everything else
  - End of team meeting day



# How to Submit Deliverables

- Process artifacts
  - By upload to course management system (documents)
  - By email to teaching team (if no upload section exists)
- Product artifacts
  - By tagging on GitHub (source code)
- Stand-up emails
  - By using email alias or app (see Course Index)
- Happiness index
  - By using email alias or app (through Course Index)
- Everything else
  - By upload to course management system (documents)
  - By email to teaching team (if no upload section exists)

# CW #01 Deliverables Due

- Provide happiness index during team meeting
- Share process artifacts (with Prof. Riehle)
  - Copy and adapt from <http://goo.gl/Brc0Q>
  - Set sharing to public (viewable) so teaching team can view
- This (first) week only: Due date/time is Friday midnight

# CW #02 Deliverables Due

- Submit team contract (as PDF-scan or photo)
  - More information at <https://wp.me/PDU66-1su>
- Submit information for team T-shirts
  - Create logo and design your T-shirt at <https://www.shirtinator.de/> (basic T-shirt + two components)
  - Provide T-shirt preferences (size, color) using survey through Course Index
  - Put links to T-shirt designs on Shirtinator into process artifacts
- Submit process artifacts (as PDF)
  - Follow instructions at <https://goo.gl/qoVtFA>
  - Plan out student roles and industry partner meetings for whole semester
- Tag product artifacts on GitHub and deploy them
  - Tag is sprint-01-release (continue like this in the future)
- Provide stand-up emails and happiness index

# CW #03 Deliverables Due

- Submit process artifacts, include (new)
  - Initial bill-of-materials
    - Please maintain it over time
- Provide product artifacts as before
- Submit software architecture description (as PDF)
  - High-level logical and code component overview (one page each)
  - Employed technology stack and platforms (third page)
- Provide stand-up emails and happiness index

# CW #04 Deliverables Due

- Submit process artifacts
- Provide product artifacts
- Provide stand-up emails
- Provide happiness index

# CW #05 Deliverables Due

- Submit process artifacts, include (new)
  - Product vision and project mission
  - Glossary
- Provide product artifacts
- Provide stand-up emails
- Provide happiness index

# CW #06 Deliverables Due

- Submit process artifact, include (new)
  - Mid-term release plan
  - Definition-of-done for both
    - Sprint release
    - Product release
- Provide product artifact
- Provide stand-up emails
- Provide happiness index

# CW #07 Deliverables Due

- Submit process artifacts, include (new)
  - Final product release plan
- Provide product artifacts
  - Mid-project documentation, includes
    - User documentation (no specific format, but include source and create PDF as output)
    - Build and deployment instructions (use markdown, no PDF necessary)
    - Technical documentation (your updated architecture, no specific format, but create PDF as output)
  - Mid-project product release, including documentation (tagged on GitHub)
  - Mid-project product deployed as appropriate for the project
  - Use additional release tag mid-project-release
- Provide stand-up emails
- Provide happiness index



# CW #08 Deliverables Due

- Submit process artifacts
- Provide product artifacts
- Provide stand-up emails
- Provide happiness index

# CW #09 Deliverables Due

- Submit process artifacts
- Provide product artifacts
- Provide stand-up emails
- Provide happiness index

# CW #10 Deliverables Due

- Submit process artifacts
- Provide product artifacts
- Provide stand-up emails
- Provide happiness index

# CW #11 Deliverables Due

- Submit process artifacts
- Provide product artifacts
- Provide stand-up emails
- Provide happiness index

# CW #12 Deliverables Due

- If the demo day is held in-person
  - Submit AMOS demo day posters (as PDF)
    - See Demo Day Preparations slide deck for content and examples
    - You can find more examples through Course index → Student materials
    - Submit high-resolution (300dpi) PDFs for DinA1 printing
    - Please submit the PDFs as two separate files
- Submit process artifacts
- Provide product artifacts
- Provide stand-up emails
- Provide happiness index

# CW #13 Deliverables Due

- If the demo day is held online
  - Submit AMOS demo day video (16:9 format, common encoding)
    - 3min presentation of project results, includes
      - Introduction to context, purpose of project
      - Demonstration of software
      - A few words on architecture and process
      - A team photo (can be screenshot from online meeting)
    - We intend to publish the video; please let us know if you disagree
  - Submit AMOS demo day slide (16:9 format, as PDF)
    - One paragraph (better: one sentence) about the project goal
    - Three logos: Team logo, industry partner logo, university logo
    - Optional: Some identifying visual (screenshot, photo of object, ...)
- Submit process artifacts
- Provide product artifacts
- Provide stand-up emails
- Provide happiness index

# CW #14 Deliverables Due

- Submit process artifacts in final cleaned-up version
- Provide product artifacts, includes (new)
  - Final product release (tagged on GitHub)
    - Includes completed documentation (see before)
    - Additional release tag is final-project-release
- Provide stand-up emails
- Provide happiness index

# CW #15 Deliverables Due

- Provide a team project summary (by sharing with Prof. Riehle)
  - Copy and fill in the form at <https://goo.gl/qLiZLA>
  - Share with [riehle@group.riehle.org](mailto:riehle@group.riehle.org)
- Submit a team project retrospective (as PDF)
  - Write down in the form of a letter to next year's students
    - What happened when?
    - What went well?
    - What went wrong?
    - What to do better next time?
- Feel free to provide feedback on the course
  - Send email to appropriate person or share anonymously
  - Individually or as a team (this is optional)



# Thank you! Questions?

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- Contributions
  - None yet