

# **Course Schedule and Project Work**

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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 ...

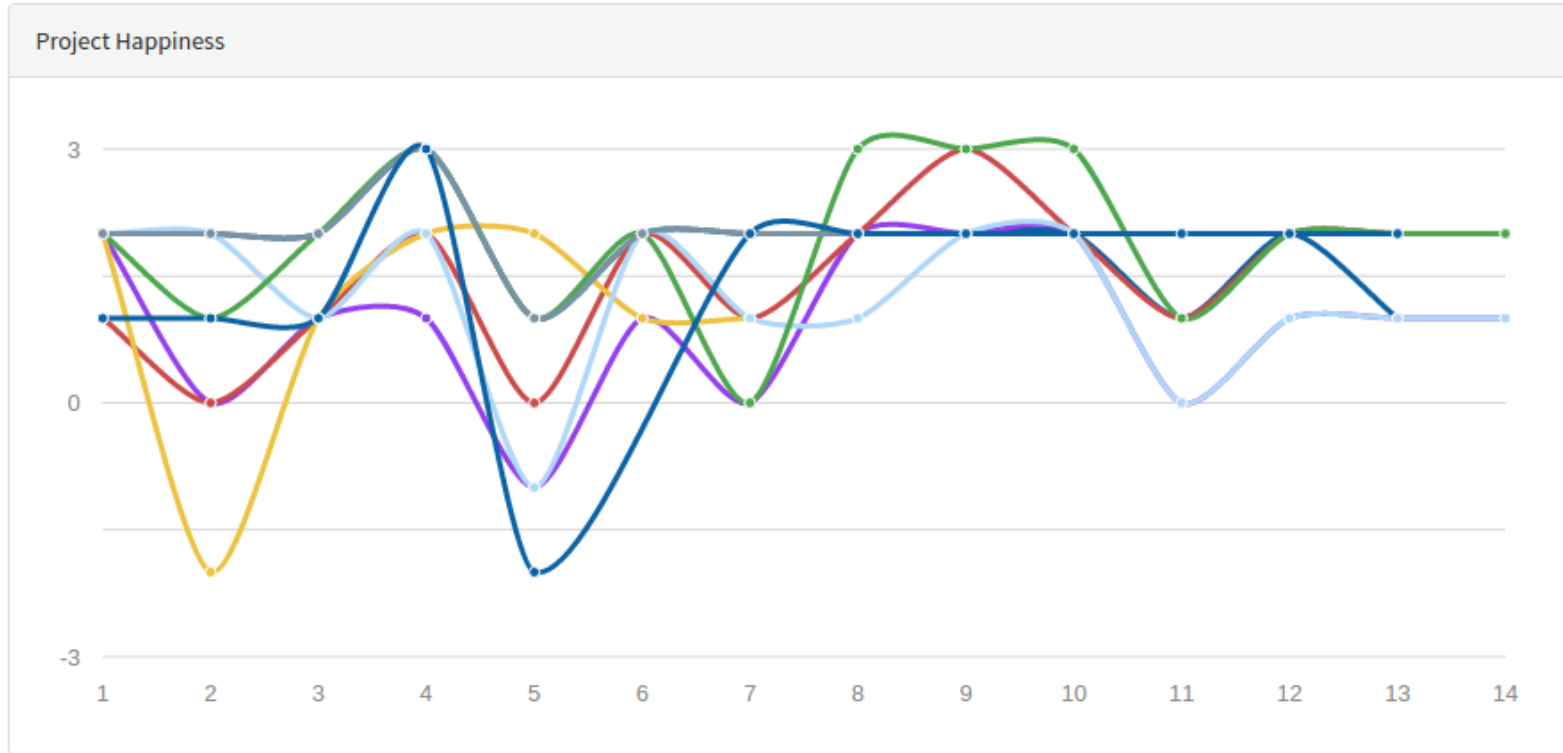
# Types of Deliverables 3 / 4

- **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 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)
- Provide a 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



# Thank you! Questions?

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