

Senior Design Project - 2

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Important Terms

- Project Topic
- Project Team
- Project Advisor
- Industry Mentor (Company Sponsor)
- SDP Committee
- Progress Report
- Final Report

Introduction to Senior Design Project (SDP) – II

Senior Design Project-II is the second of two semester course that focused of definition, analysis (SDP-I), implementation and documentation of project topic (SDP-II).SDP-II consists of the following milestones: the design, implementation, evaluation, documentation and presentation of the project, conducted by student teams (of 3-4 members) formed at the beginning of SDP-I.

SDP-II will be concluded with public presentation. Completed projects will be evaluated by panel that will consist of project advisors, faculty and industry professionals. The evaluation will be done based on general criteria for all projects (Originality, Relevance, Practicality), as well as project specific ones (Overall life cycle, Usefulness, Functionality, Sustainability, Aesthetics).

Prerequisite for Senior Design Project (SDP) – II

SITE 4790 - Senior Design Project I

Senior Design Project consists of two related courses:

- SITE-4790 Senior Design Project I (Fall)
 - Phase 1: Proposal
 - Phase 2: Requirements & Design (Draft Report)
- SITE-4890 Senior Design Project II (Spring)
 - Phase 3: Final Report
 - Phase 4: Prototype/Implementation

What is different about this class

Unlike other courses, this course does not intend regular participation in class, instead it is independent study/research.

Meetings are scheduled with the Project Advisor (faculty mentor) for the particular Senior Design Project.

Each Project Team will meet together weekly, keeping detailed minutes of the meetings.

SDP – II Learning Objectives

- facilitating the transition from academic study to an industry or/and research career
- learning to address challenging problems defining scope and statement, designing, developing and managing life-cycle of end-user products
- developing rapid learning skills of new technologies, software, hardware and tools
- developing documentation, demonstration and oral presentation skills

SDP – II Evaluation and Deliverables

1. Weekly meetings and team progress review [15%]
2. Evaluation of Draft written report and pre-final prototype [15%]
(February - 7th week)
3. Final Report [30%] (April - 12th week)
4. Final Project Presentations - demo [40%] (April - 14th week)
5. Bonus: Scientific paper submission [10%]
6. Bonus: Public seminar presentation (March – 7-10th week) [10%]

Late Delivery of Deliverables

Each evaluation component has predefined deadline and late submissions are NOT welcome.

Late deliverables (documents, reports, code, etc.) will be accepted with instructor's permission only. Penalty for late submission for each deliverable is 10% points deduction per day.

Exceptions may be made for teams with valid, documented excuses.

RESOURCES AND PRESENCE

SDP – II Project WEBSITE

Each project team is required to prepare mandatory website dedicated to their Senior Design Project. Website must include at least following pages:

- home-page with general information (title, logo, description),
- team (with the role description of each member),
- deliverables,
- acknowledgement,
- documents (all forms/reports must be available at this section: project proposal, progress report, final report, etc.).

Depending on the specific project, website may include other pages as well. It is recommended to use wordpress.com or blogger.com to host your project website.

SDP – II Project GITHUB

Depending on type of the project (mainly for projects those include software development component), it is recommended to maintain the Github page/repository that includes non-confidential information.

SDP – II Project. SCIENTIFIC PAPER PUBLISHING

Project Teams are highly encouraged to publish outputs and scientific findings of their project as a papers in any scientific conference or journal.

Teams who managed to submit a paper and received letter of acceptance can earn for the additional 10% bonus to be added to final grade of the SDP-II.

SDP – II Project LOG BOOK

It is recommended to each team to maintain LogBook where the progress of the project advancement is reflected.

The LogBook will help you to prepare your Progress Reports easily and quickly, to track contribution of each team member, to write Final Report and prepare Demo.

SDP – II Project MEETINGS

Weekly Project Advisor Meetings

Each team is expected to meet project advisor at least once per week to discuss advancements in project during previous week, accomplishments by each team member, tasks planned for the next week, possible problems in advancement.

For each meeting team should prepare Weekly Progress Report (Appendix A.) that consists of progress has been made during previous week and defines plans for the next week.

It is the project team`s responsibility to set up weekly meetings with the project advisor. All members must participate in these meetings and be prepared to elaborate on their activities.

Project Advisor will use "APPENDIX A – Project Advisor Meeting Log Sheet" to log key points of the meeting.

Weekly Team Meetings

Weekly team meetings where team members meet each other are activities required for the project success. It is recommended to have at least two team meetings per week to discuss the project and work jointly.

This can be either before or after the weekly advisor meetings. But you are encouraged to have one team meeting before the meeting with your advisor in order to be prepared to make the best use of the time.

Each team is required to fill up the form "APPENDIX A – Team's Weekly Progress Report" for each meeting with Project Advisor.

FINAL PROJECT REPORT

FINAL PROJECT REPORT

Standards and requirements will be announced.

FINAL PROJECT PRESENTATION

Final Project Presentation

Final slides of the project presentation must be submitted to the Project Advisor at least one week before presentation date.

Timing:

Maximum time allocation for each presentation is 20 min + 15 min for Q&A. Don't include into your presentation more than 20 slides. If you don't complete your oral presentation in 20 min, it may affect your grade.

Presentation Format:

Responsibility and contribution of each team members should be clearly addressed.

Final Project Presentation

Presentation can logically be divided into three parts/sections:

1st: General information without technical details describing how useful and important your idea is. Use more pictures and less textual information. Don't allocate much time to this section.

2nd: Mostly technical information should be provided. Avoid general information. What did you do to implement/release your idea? How did you develop the solution? You expected to clearly demonstrate that you understand the problem and solution.

3rd: Future plans to ensure sustainability of the project.

Final Project Presentation

Each presentation must include following sections:

1. Cover page with project title, logo, graphics
2. Team members, their responsibilities and roles, advisor, acknowledgments
3. Motivation / Problem Statement
4. Research / Development Challenges (Methodology / Software / Hardware)
5. Diagram / Architecture / Model / Flowchart that best describe your system and its functionality
6. Timeline / Gantt Chart of the project, including future plans (possibly, including commercialisation plans)
7. Social, cultural, environmental impact expected from the project
8. Risks for the success of the project (or risks resulted by the project - if any...)
9. References (including SDP Project website, Github, etc.)

TIMELINE for SDP – II

Timeline

January/February:

- Teams regularly meet project advisor and industry mentor
- Teams begin to build prototype or simulation model (February - 7th week)

March:

- Teams regularly meet project advisor and industry mentor
- Teams submit a draft written report to the project advisor (March - 10th week)
- Teams refine, test and complete prototype or simulation model and execute final enhancements (March - 10th week)

April:

- Teams regularly meet project advisor and industry mentor
- Teams develop posters, oral presentations, and demonstrations for Senior Design Projects Demo Day
- Teams get approval from the Project Advisor regarding completion of the project (April - 12th week)
- Teams present final, complete written and oral presentation to panel (April - 14th week)

SDP – II Forms

- [Appendix A: Team's Weekly Progress Report](#)
- [Appendix B: Project Advisor Meeting Log Sheet](#)
- [Appendix C: Project Advisor's Approvals Form](#)
- [Appendix D: Final Presentation Readiness Form by Advisor](#)
- [Appendix E: Final Presentation Readiness Form by Industry Mentor](#)

Q & A



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