Project Schedule for CS3423 "Compilers-II"

Based on the "Teaching the Compilers Course" by Alfred V. Aho

Start Date	Tasks	Deadline	Deliverables
	Primary reference: Alfred V. Aho. 2008. Teaching the compilers course. SIGCSE Bull. 40, 4 (December 2008), 6–8. DOI:https://doi.org/10.1145/1473195.1473196 https://www.researchgate.net/publication/220613337_Teaching_the_compilers_course Compiler Design → Compiler Theory + Compiler Engineering		
10th Sep (Thu)	Form a team of 4-7. **Project Roles** ● The **project manager** sets the project schedule, holds weekly meetings with the entire team, maintains a project log, and makes sure the project deliverables get done on time. ● The **system architect** defines the compiler architecture, modules, and interfaces. ● The **system integrator** defines the system development platform and tools, the integration environment, and a makefile to ensure the compiler components work together. ● The **tester** defines the test plan and test suites from the language reference manual. Each team member is expected to execute the test suites as the compiler is being developed to make sure the compiler meets the language specification. ● The **language guru** maintains the intellectual integrity of the language and defines a baseline system and process for managing changes to the language definition	20th Sep (Sun)	Compilers II 3423 - Project Team and Details
	Plagiarism Policy of IITH-CSE Department.		
20th Sep (Sun)	Write a minimal version of Whitepaper.	30th Sep (Wed)	Update your Weekly Progress Here
20th Sep (Sun)	Write a whitepaper on the proposed language modeled after the Java whitepaper and create a lexical analyzer and parser.	15th Oct (Thu)	● Complete specification of the Language proposed with some non-trivial Input programs. ● Submit a working lexical analyzer and parser.
15th Oct (Thu)	Write a tutorial patterned after Chapter 1 and a language reference manual patterned after Appendix A of Kernighan and Ritchie's book, The C Programming Language.	1st Dec (Tue)	Working demo of the compiler.
1st Dec (Tue)	Give a ten-minute presentation of the language to the class		
7th Dec (Mon)	Submit an overview presentation and the demo of the compiler ● You should upload a PDF of the slides (that is created using google-slides) following the format that will be circulated. ● You should also upload a 5min presentation video of the above. ● Add a 10-minutes demo-video of the compiler to the teaching staff. ● So in total **upload a single 15-minutes video**, consisting of an overview presentation and demo of the compiler.	16th Dec (Wed) **(Strict. No extensions.)**	Presentation: Should have at least the following: ● Team members and roles ● Key features of the language and the compiler. ● Language features should be supported by examples. ● Compiler features should be highlighted. Including various phases.
16th Dec (Wed)	● Followed by a 5--10min viva of the above. ● In the viva, additional questions on the demo may be asked. So, you should be ready to screen-share and show a live demo.	17th Dec (Thu)	● Schedule Sheet ● Google Meet Link

17th Dec (Thu)	**Hand in the final project report.** 1. Introduction (written by the team) 2. Language tutorial (written by the team) 3. Language reference manual (written by the team) 4. Project plan (written by the project manager) 5. Language evolution (written by the language guru) 6. Compiler architecture (written by the system architect) 7. Development environment (written by the system integrator) 8. Test plan and test suites (developed by the system tester) 9. Conclusions containing lessons learned (written by the team) 10. An appendix containing the complete source listing of the compiler	18th Dec (Fri) **(Strict. No extensions.)**	