Selected Blog/Web Tutorials on Compiler Design

1. GeeksforGeeks — *Introduction of Compiler Design* (overview) https://www.geeksforgeeks.org/compiler-design/introduction-of-compiler-design/ GeeksforGeeks
    - Explains what a compiler is, high-level vs low-level languages, and various types of compilers.
    - Good as a *starting point* for students new to the topic.
2. GeeksforGeeks — *Compiler Design Tutorial Series* https://www.geeksforgeeks.org/compiler-design/compiler-design-tutorials/ GeeksforGeeks
    - A comprehensive catalogue: phases of compiler, lexical analysis, parsing, syntax-directed translation, code generation/optimisation.
    - Very appropriate for structuring multiple sessions (lecture by lecture).
3. UpGrad — *Compiler Design Tutorial for Software Developers* https://www.upgrad.com/tutorials/software-engineering/software-key-tutorial/compiler-design/ upGrad
    - Focuses on real-world developer relevance: what knowledge of compilers offers for writing better software, optimisation, etc.
    - Good tie-in for your "AI and its Applications" session: helps show compiler design is not just academic.
4. Blog series: "Writing a C Compiler, Part 1" by Nora Sandler https://norasandler.com/2017/11/29/Write-a-Compiler.html Nora Sandler
    - More hands-on: building your own compiler. Good for advanced students or project work.
5. Blog: "So how do you structure a compiler project?" by Mukul Rathi https://mukulrathi.com/create-your-own-programming-language/compiler-engineering-structure/ Mukul Rathi
    - Engineering focus: project structure, design decisions, how to organise a compiler build.
    - Useful for students doing mini-projects or for you as coordinator to design assignments.
6. Blog: "Compiler Theory and Design: Unveiling the Magic Behind Programming Languages" by Algocademy

https://algocademy.com/blog/compiler-theory-and-design-unveiling-the-magic-behind-programming-languages/ AlgoCademy

- Theoretical + conceptual, good for linking theory (automata, grammar, parsing) to practice.