Course Roadmap

Introduction

GitHub Copilot Primer and Environment Set Up

Feature Walkthroughs, 1 Hour Every Day

Day 1

Foundations & Inline Code

Day 4

Developer Collaboration

Day 2

Conversational Workflows

Day 5

Code Edits & Personalization

Day 3

Project-Wide Intelligence

Day 6

Agents, Tools, & Extensions

Optional

Day 7

Apply all Features into common Developer Use Cases

Conclusion & Certificate

Course Roadmap - Day by Day Detailed

Day	Feature #	Feature Name	Feature Description
1 – Foundations and Inline Code	F-01	Al Code Completion (Ghost text + alternatives)	Real-time inline suggestions that complete the current line, block, or whole function; cycle through alt proposals.
	F-02	Inline Code Actions (Explain / Fix / Move / Rewrite + " sparkle" icon)	Context-menu actions on selected code or error messages.
	F-03	Multi-Environment Support	Availability in VS Code, Visual Studio, JetBrains, Neovim, Xcode, GitHub Mobile, Windows.
	F-04	Copilot "Ask Mode"	Lightweight single-prompt variant of Chat (pop-up input ■) that answers questions without opening the full sidebar—great for quick queries.
2 – Conversational Workflows	F-05	Copilot Chat (sidebar + history)	Chat panel for conversational Q&A, code generation, explanations, refactors, with scroll-back memory.
	F-06	Slash-Command Interface (/explain, /fix, etc.)	Quick command prefixes inside Chat for common tasks.
	F-07	Chat Context Anchors (@file, #selection, #terminal)	Inline selectors to focus Chat on specific code or terminal context.
	F-07.1	Model Selection (GPT-4 / GPT-3.5)	Dropdown to switch LLMs per task; discuss cut-off dates & cost trade-offs.

Course Roadmap - Day by Day Detailed

Day	Feature #	Feature Name	Feature Description
3 – Project-Wide Intelligence	F-08	Semantic Code Search / Indexing	Instant repo-wide index enabling Chat to answer project-specific questions.
	F-09	Next Edit Suggestions (Smart Actions)	Proactive gutter hints for follow-up edits after code changes.
	F-10	Copilot CLI & Terminal	Natural-language shell help via GitHub CLI or @terminal agent in VS Code.
	F-11	Copilot Chat in GitHub	Use GitHub Copilot chat within GitHub.com
4 – Developer Collaboration	F-12	Al-Assisted Code Reviews and Commit-Message Generation	"Explain / Review selection" to analyze diffs, request review comments, suggest concise commit messages
	F-13	Pull-Request Summaries (ENTERPRISE)	One-click Al "High-level summary" for any PR on GitHub, auto-generate full PR descriptions from the diff inside IDE or GitHub.
	F-14	Copilot Workspaces (Cloud PR view)	Cloud dev env that pre-loads branches/PRs with Copilot-powered insights.
	F-15	Copilot Knowledge Bases (ENTERPRISE)	Attach curated internal docs/runbooks so Chat answers with private knowledge.
	F-15.1	Provide Rich Context	Open relevant files, paste snippets, attach prompt files.
	F-15.2	GitHub.com PR Edits	Use GitHub Copilot to explain diffs

Course Roadmap - Day by Day Detailed

Day	Feature #	Feature Name	Feature Description
5 – Code Edits & Personalization	F-16	Copilot Edits	Multi-file Chat-driven edits with preview/approval workflow.
	F-17	Copilot Vision	Paste screenshots/images—Copilot interprets UI, errors, diagrams, and responds.
	F-23	Custom Instructions	Persist personal or org-wide style & preference guidance for all Copilot output.
	F-24	Prompt Files	Markdown templates stored in repo to preload domain-specific context into Chat.
6 – Agents, Tools, & Extensions	F-19	Copilot Agent Mode	Autonomous mode that plans steps, edits files, runs commands, iterates to finish a goal.
	F-20	Copilot Chat Extensions	Plugin framework for connecting Copilot Chat to external / internal tools or APIs.
	F-21	Tools in Agents	Adding custom tools to GitHub Copilot
	F-22	MCP Servers	Adding MCP servers to interact with GitHub Copilot