AI Agents No-Code Syllabus

1. Origins of AI agents: from LLMs to robotics
2. Key LLM components for agent development (incl. CoT, reasoning)
3. Agent characteristics, goals and implementation context
4. Automation vs AI workflows vs AI agents
5. Agentic workflow vs Autonomous Agent architecture
6. Agent anatomy: core components and their roles
7. Multi-agent system architecture
8. Core AI ecosystem: data, predictions, compute, GenAI, multimodals, APIs, fine-tuning, RPA
9. Types of multi-agent systems: sequential, multi-provider, hierarchical, hybrid, async, etc.
10. Chain architectures: CoT, Chain of RAG, Chain of Agents
11. Taxonomy of agents: from GPTs to code-based agents
12. Operator-style agents (e.g. OpenAI's Computer-Using Agent)
13. Conversational agents (e.g. fine-tuning ElevenLabs)
14. Building basic agents with OpenAI GPTs and Google Gems
15. Prompting best practices for no-code agent design
16. Career paths and skill-building in the AI agent space
17. Use cases by industry: top agent solutions by domain
18. Market overview: where to find deployable agent tools
19. Strategy for selecting the right agent based on business maturity
20. Strategic agent framework matching goals with architecture
21. Building conversational and triggered agents
22. Workflow design: from business problem to deployed agent
23. Presenting AI agents to decision-makers (incl. executive board)
24. Agent-based consulting: portfolio of improvements
25. Agent development in n8n and Zapier
26. Automation with Make, Relevance, Gumloop and Voiceflow
27. Overview of 10+ no-code agent platforms and selection best practices
28. Integrating external tools and webhooks with agents
29. MCP and A2A architectures in practice
30. Building AI agent–based businesses – best practises
31. Creating 20+ no-code agents based on real case studies
32. Security, debugging, agent development and maintenance
33. Calculating ROI for no-code agents – best practices
34. **Final project:** building agent using most popular no-code platforms
35. **Final project:** building and presenting an agent based on real business case studies