Rigid-Flex Full-Stack Training Plan (4 Weeks)

Week 1 – Foundation & Schematic Creation

Day	Task
1	Install KiCad + FreeCAD/SolidWorks; create GitHub repo
2	Study IPC-2223E (Ch.1-3) and summarize key rules
3	Draw schematic: connector–MCU–connector
4	Annotate nets and assign footprints
5	Generate schematic PDF and commit to GitHub
6	Review vendor sheet: min trace/space, bend radius
7	Document summary notes

Week 2 – Rigid-Flex Layout & Stack-Up

Day	Task
1	Import netlist, draw outline (Edge.Cuts)
2	Define rigid/flex zones and bends
3	Assign stack-up: FR-4 vs Polyimide
4	Place components, route critical signals
5	Run DRC/DFM check
6	Generate fab drawing and commit results
7	Prepare summary table for vendor rules

Week 3 – Mechanical Integration

Day	Task
1	Export STEP & IDF (.emn/.emp) files
2	Import into FreeCAD or SolidWorks
3	Assign materials and verify bends
4	Check fit with connectors/enclosure
5	Export mechanical drawing (DXF/PDF)
6	Save and version control results
7	Create local fabrication notes

Week 4 – Documentation & Ordering

Day	Task
1	Generate Gerbers + Drill files

2	Write README with stack-up & bending info
3	Vendor DFM check via JLCPCB/PCBWay
4	Capture 3D renders and screenshots
5	Create slides and PDF presentation
6	Archive all outputs and tag release
7	Prepare for fabrication order submission