

# Vibe Coding

"Develop software faster with Al Agents & Tool Vibe Coding"

# Summary:

Develop software faster with AI Agents & Tool Vibe Coding: Build Software Products Faster with AI Tools.

Organised by RMSoEE, IIT Kharagpur Vibe Coding is an intensive, hands-on online development course designed to empower aspiring software product developers with modern, low-code AI tools.

The 4-week program equips participants to create and launch end-to-end software products using platforms like n8n, Supabase, Lovable/Bolt, Cursor, and Firebase—all with free hosting and development options.

#### **Curriculum Overview:**

#### • Week-1:

Product Fundamentals & Setup Set up Supabase (CRUD tables), install n8n, and build a simple UI using Lovable/Bolt. Create a basic signup/login flow as the first mini-project.

#### Week-3:

Frontend Development & Integration Design dashboards, connect frontend to Supabase, implement authentication, and real-time updates. Deliver a functional, authenticated dashboard as a mini-project.

#### Week-2:

Duration: Dec 1st to Feb 20th

Backend Development with n8n Develop CRUD APIs, build email and Slack/Discord automations, and learn error handling techniques. Output includes backend workflows and integrated notifications.

#### Week-4:

MVP Launch Prioritize MVP features, finalize backend/frontend, and deploy using free platforms. End the week with a live demo and feedback session showcasing your complete product.

#### Week-5 to 8:

The first 4 weeks focus on mastering tools like Supabase, n8n, and Lovable through structured learning. In the final 4 weeks, you'll apply your skills to build real-world projects—taking your ideas from concept to a working MVP.

#### **Tools Covered:**

- **n8n** Backend automation and workflows
- **Lovable/Bolt** Low-code frontend development
- Hosting Platforms Vercel, Railway, etc.
- **Supabase** Database, authentication, and APIs





# **Eligibility:**

Open to all UG/PG students across departments and working professionals in development and product roles.

### **Evaluation Criteria:**

Mini-Projects: 40% Participation: 20% Final MVP: 30% Reflection Report: 10% Each project is assessed on functionality, integration quality, and user experience.

### Additional Learning & Support Weekend Workshops:

Cover product launch tactics, growth hacking, and feedback collection strategies. Sunday Q&A: Live troubleshooting and mentoring with instructors.

# **Projects Include:**

- 1. Automated linkedin post generation and posting
- 2. Al-driven image generation and posting on Instagram
- 3. Automating content posting to various social media
- 4. Al-powered workflow for identifying and researching potential customers
- 5. CRM Tool for Freelancers

# Final Submission Requirements:

Live frontend URL Screenshots/videos of backend workflows Supabase table exports One-page reflection report.

# **Program Information:**

**Program Duration:** 

8 Weeks

**Program Fees:** 

Students: INR 5k + 18% GST,

Working Professionals: INR 10k + 18% GST,

### **Program Coordinators:**

Prof. Mrigank Sharad, Prof. Amit K. Dutta, Dr. Piya Sen

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