# University of Engineering & Management, Kolkata

## Office of the Dean Academics, Gurukul Campus

# MINUTES OF MEETING (MoM)

## Syllabus Modification for all B.Tech Courses

**Date:** 7th September, 2026

**Time:** 10:30 AM

**Venue:** Board Room, Gurukul Campus

**Convened by:** Dr. Malay Gangopadhyay, Dean (Academics)

**Agenda:** Curriculum revision for all B.Tech courses focusing on placement requirements

It was decided that the syllabus of all B.Tech courses is to be modified and strengthened around three core verticals for better placement outcomes:

- **Vertical 1: Data Structures & Algorithms (DSA)**
- **Vertical 2: Full Stack Development (MERN)**
- **Vertical 3: AI & Data Science**

### 1. Vertical 1: Data Structures & Algorithms (DSA)

**Semester-wise distribution:**

  - 2nd Semester: DSA - Linear
  - 3rd Semester: DSA - Non-Linear

- DSA labs of 1st Year, 2nd Semester to include Python alongside C. Language is not important; the focus should be on logic, algorithm and implementation. A single assignment may be executed in different languages.
- **Dr. Sainik Mahata will oversee C and DSA courses for B.Tech 1st Year, IEM Salt Lake Campus.**
- It was decided to recruit new faculty members in CSE and allied departments dedicatedly for Programming in C and DSA in B.Tech 1st Year.

### 2. Vertical 2: Full Stack Development

- Full Stack is defined as MERN Stack (MongoDB, Express.js, React, and Node.js).
- To be implemented through the mandatory laboratories of Software Engineering & Project Management, IT Workshop and DBMS.
- At least one project per semester should have components in either Full Stack or DSA.
- **All laboratory assignments to be uploaded department-wise on the website.**
- **For all computer labs with code submission, submission should be done on FTP servers remotely; checking should be done using automated scripts and a marks file should be generated.**

### 3. Vertical 3: AI & Data Science

- Language for AI/ML Lab: Python.
- Advanced ML Labs should provide hands-on exposure to Open Source SLM / LLM.
- Students can use **IEM Cloud and Sovereign Cloud / Sovereign AI** for at least one assignment.
- Generative AI Sessional Lab to include Agentic AI and to be renamed as **"Generative and Agentic AI Lab".**

### 4. For MBA / Allied Programs

- No-code and Low-code to be implemented in all relevant and mandatory labs of MBA.

### 5. Action Items

| # | Action Item | Responsible Party |
|---|---|---|
| 1 | Restructure syllabus of all B.Tech courses as per the three verticals | HOD, All Departments |
| 2 | Finalize semester mapping for Full Stack (MERN) | HOD, All Departments |
| 3 | Prepare detailed lab assignment list for upload to website | All Lab In-charges and respective HODs |
| 4 | Explore feasibility of IEM Cloud / Sovereign AI | Respective Department HODs |
| 5 | Update lab nomenclature to "Generative and Agentic AI Lab" | HOD, All Departments |
| 6 | Update MBA syllabus to include No-code and Low-code in all statutory laboratories | HOD, MBA |

**Prepared by:** Dean (Academics) Office




**Dr. Malay Gangopadhyay, Dean (Academics)**