

MIZUHO INDIA JAPAN STUDY CENTRE

A CENTRE OF EXCELLENCE

Lean Manufacturing Practices Program



भारतीय प्रबंध संस्थान बेंगलूर
INDIAN INSTITUTE OF MANAGEMENT
BANGALORE

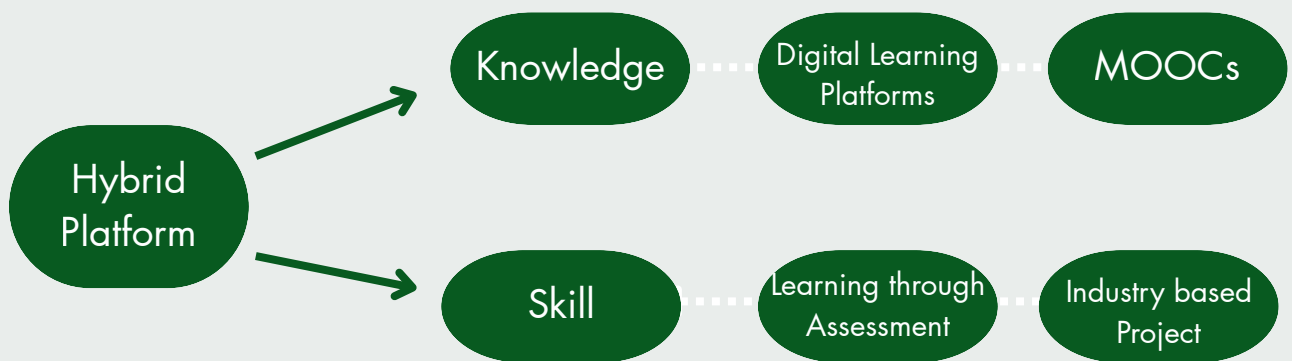
MIJSC
Mizuho India Japan Study Centre

About the Initiative

In 2005, Prof. Shoji Shiba of MIT was invited by President Dr. A. P. J. Abdul Kalam to improve India's manufacturing sector, leading to the Visionary Leaders for Manufacturing (VLFM) Program. This initiative birthed the Visionary SME (VSME) program to enhance small and medium industries. Despite initial successes, challenges arose from workforce attrition.

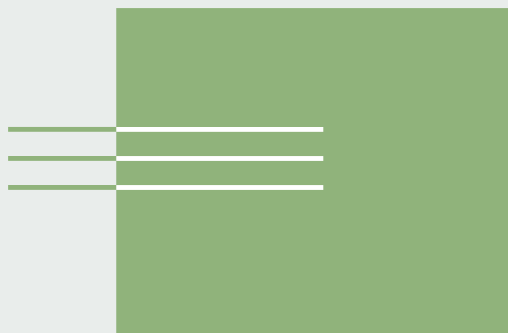
To tackle this, the Visionary Learning Community of India (VLCI), renamed Lean Manufacturing Practices (LMP) Program in 2017, was established to create a talent pipeline from engineering colleges. In 2023, the Mizuho India Japan Study Centre at IIMB became a hub for LMP, focusing on developing industry-ready engineers through collaboration between academia and SMEs. The program emphasizes practical learning (30% self-study, 70% practice) in Lean Management and offers a Japanese language course to prepare students for the Japanese industry.





A Unique Hybrid Learning Platform

To ensure effective knowledge transmission with minimal communication loss, a Hybrid Platform has been designed for the delivery of the LMP courses. In this structure, course content is delivered via digital learning platforms such as MOOCs, while the application of knowledge takes place through assignments conducted in physical mode, emphasizing learning through projects. This hybrid model not only facilitates knowledge acquisition but also promotes skill development through the application of concepts in industry-linked projects.



The Program is delivered in 2 phases

Phase 1: Faculty Development Program

- Skilling faculty from Mechanical, Electrical, Electronics, Chemical, and related streams
- Delivered via: Self-Learning (MOOCs) + Online Expert Interventions + Immersive Learning @ IIMB + Industry Projects
- Outcome: Faculty certified as Lean Experts



Phase 2: Student Skill Development Program

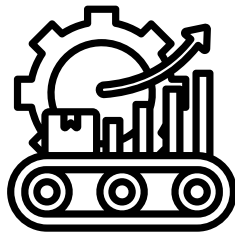
- Faculty train students using Lean tools & techniques via classroom + project-based learning
- Applied industry projects during 5th & 6th semester
- Outcome: Students become industry-ready engineers with strong Lean skills
- No additional fee payable in this phase



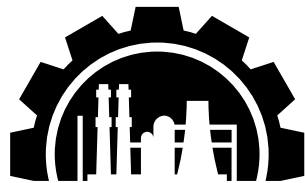
Foundations of Lean Manufacturing Course



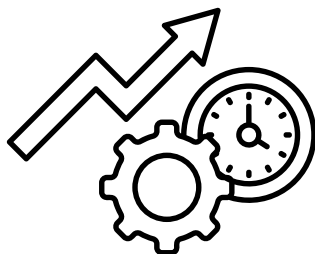
Observation skills.



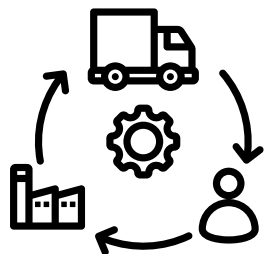
Evolution of Manufacturing



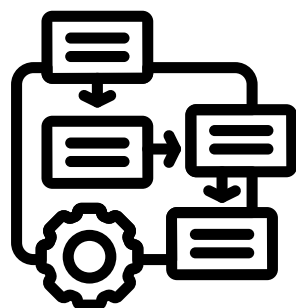
Factory Concepts



Understanding Lean Operations

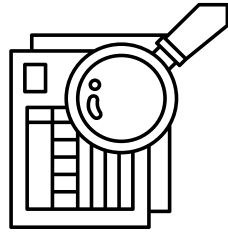


Flow Management System

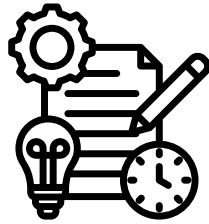


Mapping Material Flow

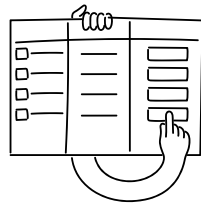
Advanced Lean Manufacturing Course



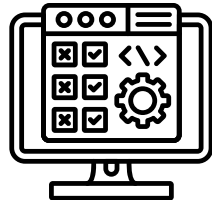
Advanced
Observation Skills



Mapping Material and
Information Planning



Heijunka Planning



Heijunka Control



Standardized Work



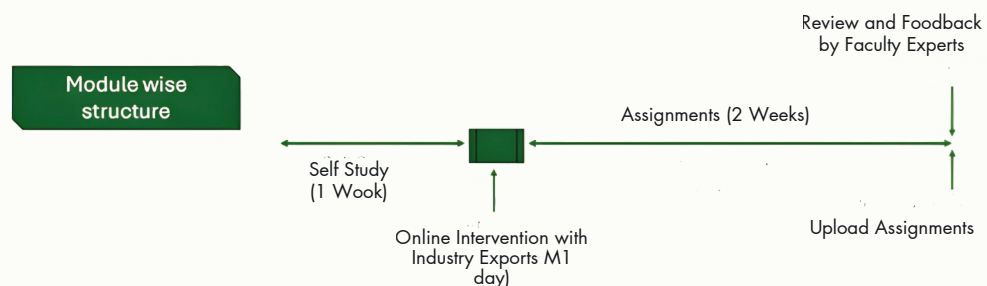
Leadership Skills

1.

LMP Faculty Development Program

Course	Content	Months								
		1	2	3	4	5	6	7	8	9
Foundations of Lean Manufacturing Practices	6 Modules of Self Learning + Industry Expert Interventions + Industry Application Projects					Exam			Conclave @ IIMB	Exam & Certification
Advanced Lean Manufacturing Practices	6 Modules of Self Learning + Industry Expert Interventions + Industry Application Projects									

- **Facilitator:** MIJSC at IIMB
- **Timeline:** 9 months
- **Mode of Delivery:** Self Learning (DLP*) + Expert Interventions + Immersive Learning at IIMB + Industry Projects.
- **Outcome:** Engineering College Faculty as Experts in Lean Principles.
- **Key Benefits:** Faculty developed as Lean Experts.



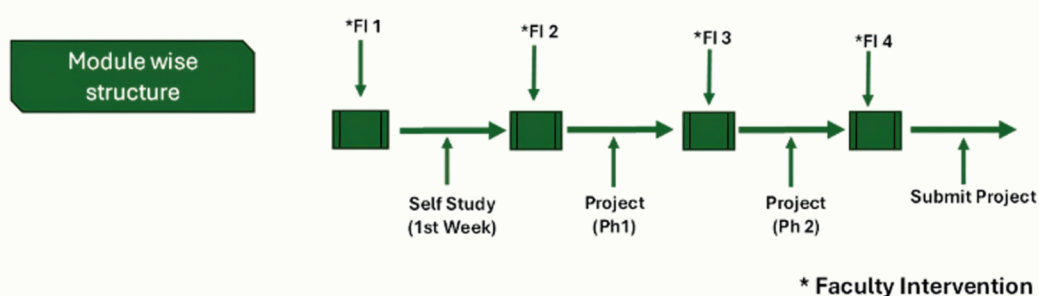
The 1-week Self-study through MOOCs platform is followed by 1 Day Online intervention by Industry Experts. During this intervention, the agenda will focus on case studies related to the concepts, discussions, doubt clearance, and assignments, which are to be submitted by the end of the third week. These assignments are reviewed and graded by the Module Directors for performance assessment and improvement.

2.

LMP Student Skill Development Program

Course	Content	Semesters			
		5	6	7	8
Foundations of Lean Manufacturing Practices	6 Modules of Self Learning + Faculty Interventions + Industry Application Projects	Hybrid		Exam & Certification	
Advanced Lean Manufacturing Practices	6 Modules of Self Learning + Faculty Interventions + Industry Application Projects		Hybrid	Exam & Certification	
Internships & Projects	Industry Projects with a focus on lean manufacturing tools and techniques				

- **Facilitator:** Engineering College
- **Timeline:** Recommended FLMP in 5th Sem & ALMP in 6th Sem
- **Mode of Delivery:** Self Learning (DLP*) + Faculty Interventions (Classroom Learning) + Industry Application Projects
- **Outcome:** Students trained and skilled in State - of - Art Lean Practices
- **Key Benefits:** Students become Industry ready



FI 1: Importance, Highlights

FI 2: Check understanding, share experience, assignment project

FI 3: Mid-project review & feedback

FI 4: Project assessment & feedback



LMP Conclave @ IIM Bangalore

A flagship gathering that brings Lean theory and practice together:

- **Exclusive Sessions with IIMB Faculty** – Gain cutting-edge insights and fresh perspectives on Lean transformation.
- **Industry Visits** – Witness Lean implementation in action across leading organizations.
- **Hands-on Workshops** – Apply Lean tools and techniques through interactive, real-world simulations.
- **Expert Interactions** – Engage with industry leaders, share experiences, and build networks for future collaboration.



LMP Consultancy Program From Faculty to Industry Change-Makers

Step beyond the classroom and into the boardroom. The LMP Consultancy Program, anchored by MIJSC at IIM Bangalore, empowers engineering faculty to become trusted industry consultants driving real impact in India's SME sector.

- **Expert-Led Learning:** Learn directly from senior industry leaders who have successfully led Lean transformations.
- **Hands-On Consultancy Projects:** Work on live SME challenges, applying Lean tools to deliver measurable results.
- **Fast-Track Timeline:** A 6-month guided journey designed for busy faculty.
- **Career-Defining Outcome:** Earn recognition as an Industry Consultant, opening new avenues for research, industry collaboration, and personal growth.

Consult to Compete Program Course Modules

1. Observation: Identifying Flow Blockages
2. Addressing Blockages: Quality
3. Addressing Blockages: Machine
4. Addressing Blockages: Human Skills
5. Addressing Blockages: Soft Skills
6. Value Addition



Hybrid Japanese Language Program Your Gateway to Careers in Japan

Japan is facing a severe shortage of skilled professionals, opening up unprecedented opportunities for engineers and Lean management experts from India. To succeed in this global market, language and cultural fluency are as critical as technical expertise.

The Hybrid Japanese Language Program (HJLP), facilitated by MIJSC at IIM Bangalore, is designed to give students and professionals the linguistic and cultural edge needed to build careers in Japanese industries.

Program Highlights

Facilitator: MIJSC @ IIM Bangalore

Program: Japanese Language, Conversation, and Business Culture Introductory Course

Delivered by: Certified Agencies with native expertise

Duration: 1 year each for HJLP 1 & HJLP 2 (recommended from 3rd to 6th semester)

Learning Model: Self-Learning (Digital Learning Platform) + Online Faculty Interventions + Assignments & Practice

Certification: Prepares students for JLPT N5 / N4 proficiency tests

Outcomes

- ✓ Attain conversational fluency in Japanese for both academic and professional settings
- ✓ Gain an understanding of Japanese business culture, essential for Lean management and industry roles
- ✓ Become Japan-ready professionals capable of bridging technical and cultural gaps
- ✓ Enhance career prospects in Japanese companies and Indo-Japan collaborations

Call for Participation

Join the Lean Transformation Movement

The Lean Manufacturing Practices (LMP) Program is now open for participation. We invite engineering faculty and students to be part of this national initiative, bridging academia and industry to create future-ready talent.

Phase 1: Faculty Development Program

 **Open to faculty from all core engineering branches –**

Mechanical, Electrical, Electronics, and Chemical

 **Participation:** 4–6 faculty members per college (minimum recommended for impact)

 **Fee:** ₹12,000 + 18% GST per participant

 **Outcome:** Certified Lean Experts, equipped to mentor students and consult with SMEs

Phase 2: Student Skill Development Program

 Delivered as elective courses in 5th and 6th semesters

 **Outcome:** Students trained in state-of-the-art Lean practices, making them industry-ready

 **Fee:** No fee payable to MIJSC

**EMPOWER YOUR FACULTY, SKILL YOUR STUDENTS, AND
PARTNER WITH INDUSTRY FOR REAL-WORLD IMPACT.**

Previous Cohorts



For the Wider Community

- Stay Connected with MIJSC
- Subscribe to MIJSC's quarterly newsletter to receive curated updates, insights, and stories from across the India–Japan corridor.
- Sign up for alerts on upcoming webinars, seminars, and special events to ensure you never miss an opportunity to learn, engage, and connect with our growing network.

Contact us now

To stay connected scan this QR code to subscribe to our quarterly newsletter.



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