

Lean Manufacturing Practices Program



*Mizuho India Japan Study Centre
Indian Institute of Management Bangalore*



Nurturing Manufacturing Change Leaders through Lean Manufacturing Practices

About IIMB

Indian Institute of Management Bangalore (IIMB) is a premier management school in Asia. Established under the IIM Act of 2017, IIMB holds the status of an institute of National Importance. Our logo features a Sanskrit proclamation, तेजस्वि नावधीतमस्तु (tejasvi navadhitamastu), which translates to 'let our study be enlightening'. Our vision is to become a globally recognized academic institution dedicated to fostering excellence in management, innovation, and entrepreneurship for the betterment of business, government, and society.

MIZUHO INDIA JAPAN STUDY CENTRE

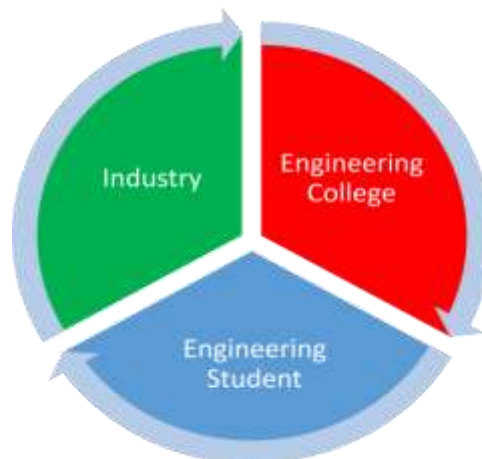
The Mizuho India Japan Study Centre @ IIMB aims to become a leading research and networking hub that would provide students, researchers, business managers and policy makers with a deeper understanding of Japanese and Indian business.

VLCI

The Visionary Learning Community of India is dedicated in strengthening the collaboration between academia and industry, with a focus on enhancing India's Manufacturing sector.

Our Vision

Nurturing the next generation of change leaders to create a win-win culture and strengthen the industry-academia ecosystem, benefiting both Indian and Japanese businesses.

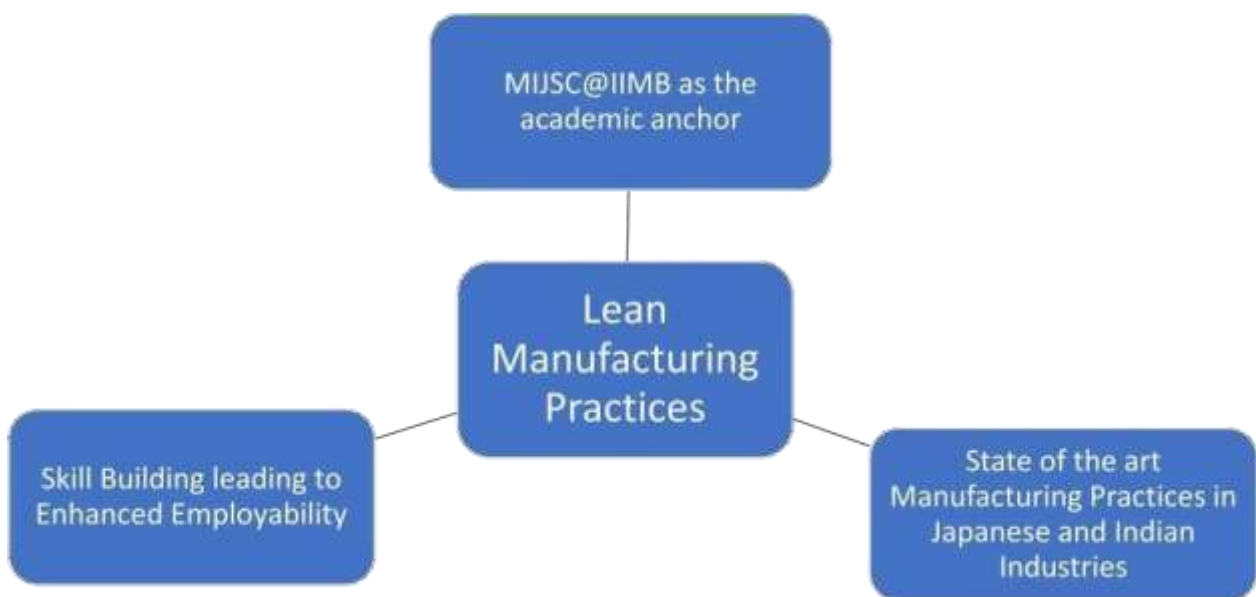


About VLCI:

The concept of Lean Transformation of SMEs focuses on enhancing the processes across the value stream to eliminate waste and deliver optimized value to the customer. This can help industry, and organizations achieve their goals in smarter, more sustainable ways. In 2017, a symbiosis between industry and academia, based on the concept of Lean Transformation, was introduced under the name of **Visionary Learning Community of India (VLCI)**. VLCI is conceptualized to form a joint venture between learning **communities** of SMEs (Industry), Engineering Colleges (academia), Engineering College faculty and students to create a pipeline of Engineering talent who can work with these SMEs in this transformative journey.

Lean Manufacturing Practices – A VLCI Program

The initiative of VLCI has embarked on a vision to transform the manufacturing industry through manufacturing change leaders (students) skilled in Lean Manufacturing Practices (LMP). LMP, under the aegis of VLCI, is based on the concepts of Lean Principles that will create future change leaders in the form of Engineering Graduates, leading to a sustainable growth of industry.



This course on LMP, delivered in a 30% classroom and 70% practice mode, will focus on the application of tools and techniques of Lean Management. This would result in students becoming skilled in these practices and therefore be industry ready. Engineers so trained would be available for being tapped by the SMEs as and when they need new manpower at their plant. This will improve the present situation of unemployability among engineering students as well as address the scarcity of skilled manpower faced by the SMEs.

LMP under VLCI Program @ MIJSC, IIMB

Mizuho India Japan Study Centre (MIJSC) @ IIMB acts as the academic hub creating a collaborative learning nexus between the Engineering Colleges and Industry (SMEs) to nurture manufacturing change leaders through the application of Lean Manufacturing Practices (LMP).

LMP Course Structure

The LMP course under the aegis of VLCI program is delivered in 3 phases.

- a) **Phase 1:** LMP Faculty Development Program
- b) **Phase 2:** LMP Student Skill Development Program
- c) **Phase 3:** LMP Consultancy Program

Phase 1 training focuses on reskilling the faculty in the application of tools and techniques of Lean Management. They would in turn train the students in Lean Manufacturing Practices. In **Phase 2**, trained and certified faculty (Lean experts) will train students to enhance their hard and soft skills to tackle present day industry challenges through the application of Lean Principles. Trained students skilled in Lean tools and techniques will be absorbed by the industry after completing their student internships. **Phase 3** of the program is planned to train the Engineering Faculty to be transformed into Certified Lean Consultants, who would assist SMEs (as a Coach/ Mentor) to implement these Lean Manufacturing Practices.

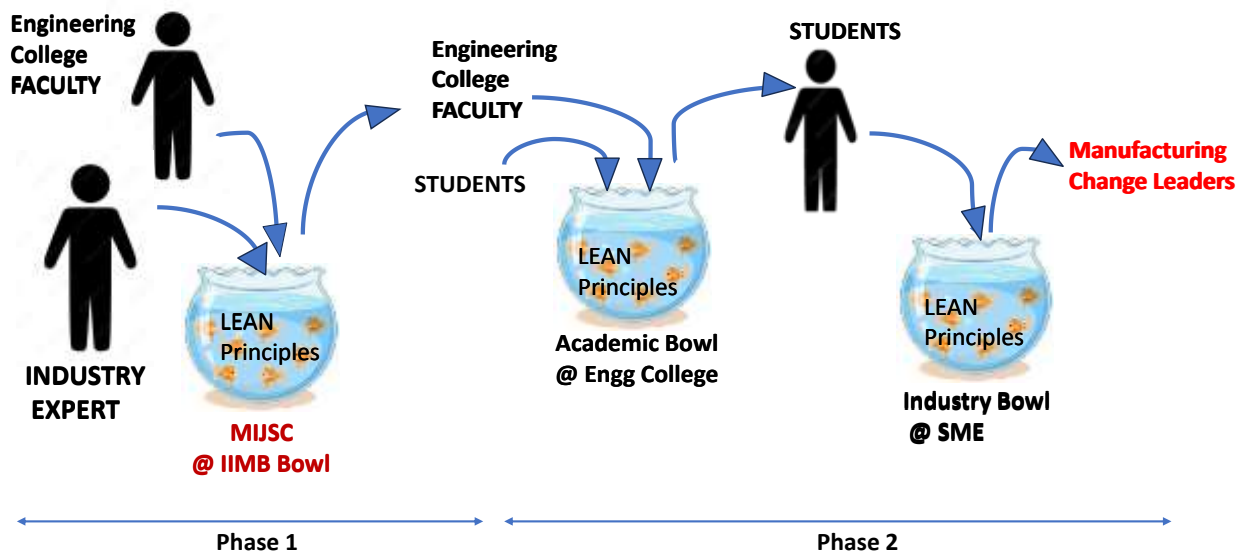
LMP Course Content

LMP Phases	Courses	Module 1	Module 2	Module 3	Module 4	Module 5	Module 6
Phase 1 & Phase 2	Foundations of Lean Manufacturing Practices	Observation Skills	Evolution of Manufacturing	Factory Concepts	Understanding Lean Operations	Flow Management System	Mapping Material Flow
	Advanced Lean Manufacturing Practices	Advanced Observation Skills	Mapping Material and Information Flow	Production Planning	Production Control	Standardised Work	Shop Floor Leadership
Phase 3	Consult to Compete	Observation: Identifying Blockages	Addressing Blockages: Quality	Addressing Blockages: Machine	Addressing Blockages: Human Skills	Addressing Blockages: Soft Skills	Value Addition

Phase 1: LMP Faculty Development Program

- **Facilitator:** MIJSC @ IIMB
- **Timeline:** 9 months
- **Mode of Delivery:** Self Learning (MOOCs) + Expert Interventions (Online) + Immersive Learning @ IIMB (Offline) + Industry Project (Offline)
- **Outcome:** Engineering College Faculty as Experts in Lean Principles.
- **Key Benefits:** Faculty developed as Lean experts.

Online +
Offline
Program
with
Certification



The LMP course, under the Faculty Development Program, is planned for delivery over 9 months with Self learning through MOOCs (Massive Open Online Courses) platform and regular online Module Director interventions by industry experts.

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									
Advanced Lean Manufacturing Practices	6 Modules of Self Learning + Industry Expert Interventions + Industry Application Projects									



Phase 2: LMP Student Skill Development Program

Online + Offline
Program with
Certification

- **Facilitator:** Engineering College
- **Timeline FLMP & ALMP:** Recommended in 5th & 6th Sem
- **Timeline Internships & Projects:** 7th & 8th Sem @ Industry
- **Mode of Delivery:** Self Learning (MOOCs) + Faculty Interventions (Classroom Learning) + Industry Application Projects (Offline)
- **Outcome:** Students trained in State - of - Art Lean Practices
- **Key Benefits:** Students become industry ready

The LMP course content for students is planned to be delivered through MOOCs and combined with College Faculty interventions at regular intervals over a period of 2 semesters followed by Projects & internships. The students after completing these LMP course, will undergo Internships and Projects with Indian and Japanese companies resulting in placement opportunities. The course structure plan is as follows:

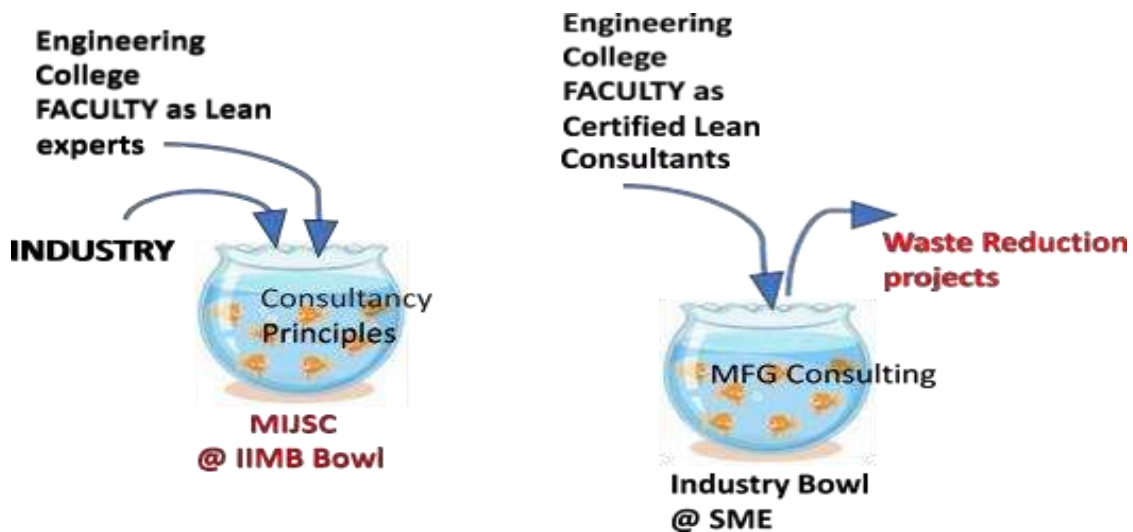
Course	Content	Semesters			
		5	6	7	8
Foundations of Lean Manufacturing Practices	6 Modules of Self Learning + Faculty Interventions + Industry Application Projects	←→			
Advanced Lean Manufacturing Practices	6 Modules of Self Learning + Faculty Interventions + Industry Application Projects		←→		
Internships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

Phase 3: LMP Consultancy Program

- **Facilitator:** MIJSC @ IIMB
- **Delivered by:** Industry Experts
- **Timeline:** 6 Months
- **Mode of Delivery:** Expert inputs (Online) + Industry Consultancy Projects (Offline)
- **Outcome:** Engineering College Faculty as Industry Consultants



The Consultancy program for Engineering College Faculty aims to create a team of Lean Consultants who will provide support to help address industry challenges, especially at SMEs.



The course content of Consultancy Program for Engineering College faculty during Phase 3 is as shown above. This course will be covered in an online mode with regular interventions by the Module Directors combined with industry interactions and projects.

JLCC Program for Students

- **Facilitator:** MIJSC @ IIMB
- **Program:** Japanese Language, Conversation and Business Culture Course
- **Delivered by:** Native Japanese Language Speakers
- **Timeline:** 1 year each for JLCC 1 & JLCC 2 (Recommended from 3rd to 6th Sem)
- **Mode of Delivery:** Language Expert (Online)+ Language Workshops (Offline)
- **Outcome:** Students attain proficiency to attend JLPT N5 and N4 level test.

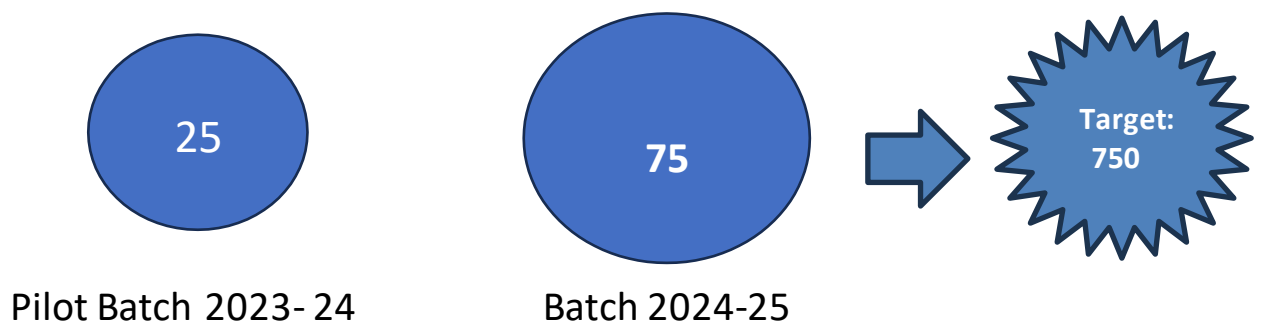


- ❖ **JLCC-1:** Students will attain proficiency in Conversational nuances and be prepared for JLPT N5 level test.
- ❖ **JLCC-2:** Students will be familiar with Japanese Business Culture and be prepared for JLPT N4 level test.

The Japanese Language, Conversation and Business Culture' course is a one-year study program intended to prepare professionals with the basic skills required to effectively do business in Japan. The study program is designed for students and those who are already employed, particularly in companies with an interest in Japan. Participation certificates will be awarded by MIJSC to those who complete 60 hours and attain basic skills, while those who finish all 120 hours will receive a completion certificate.

Course Content	Semesters			
	3	4	5	6
JLCC 1	← Lessons by Native Japanese Speakers (Online) + Language Workshops (Offline) →			
JLCC 2			← Lessons by Native Japanese Speakers (Online) + Language Workshops (Offline) →	

LMP Faculty Development Program - Participants Enrollment



Key Benefits of LMP:



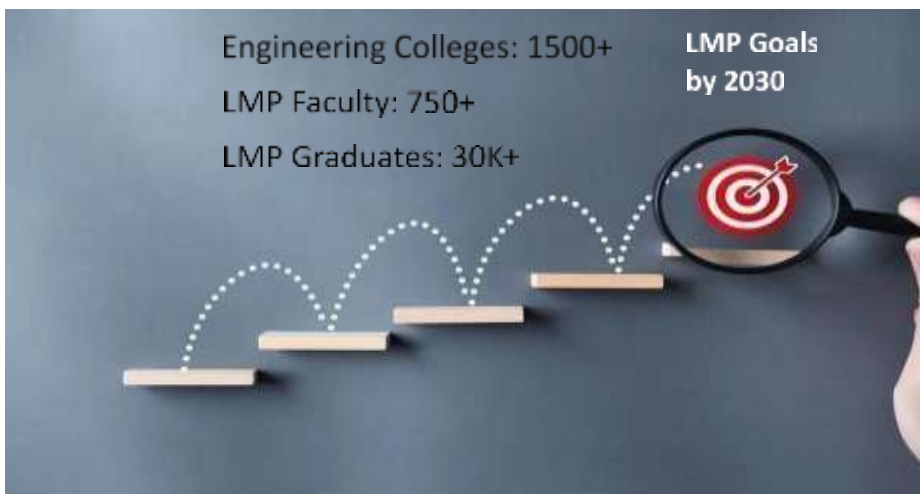
Student Skill Development through projects

Faculty Consultants to Mentor / Support SMEs

Enhanced Employability of Students

Industry gain through waste reduction

Vision VLCI @ 2030



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