

Academic collaboration with IIM Bangalore (MIJSCC) & JSPM's JSCOE, Hadapdar, Pune

Parties Involved:

- **IIMB & MIJSC:** Premier institute offering management education and mentorship, aiming to provide insights into Japanese and Indian business.
- **JSPM's Jayawantrao Sawant College of Engineering (JSCOE):** AICTE, DTE, SPPU-approved and NAAC-accredited institute focusing on quality engineering education.

Purpose:

- Collaboration to introduce and promote Lean Manufacturing Practices (LMP) to enhance engineering students' skills and industry readiness.

Scope of LMP Program:

1. **Faculty Training:** IIMB trains faculty in two phases to enhance their teaching and consultancy skills in lean manufacturing.
2. **Student Training:** Faculty-led structured learning in lean principles, aiming to produce industry-ready graduates with Japanese language competency.
3. **Hybrid Learning Platform:** Digital learning blended with industry-based practice, assessments, and certification via the "Swayam" platform.
4. **Three Faculty from department doing this LMP & ALM course: Dr. P. G. Kadam, Prof. Sidesh Bandekar & Prof. S. S. Talwar.**

Project Highlights:

- **FLM (Foundations of Lean Manufacturing):** 6 modules covering observation skills, factory operations, lean principles, and visual mapping.
- **ALM (Advanced Lean Manufacturing):** 6 modules on production planning, control, standardized work, and leadership.
- **LMP Faculty Development (Phase 1):** Certified faculty training monitored by IIMB Module Directors.
- **LMP Student Skill Development (Phase 2):** Hybrid learning, industry internships, and certification based on performance.
- **Japanese Language Program:** 2-semester program for conversational proficiency and cultural awareness.
- **LMP Consultancy Program (Phase 3):** Faculty trained to support SMEs through industry projects.

Roles & Responsibilities:

- **IIMB:**
 - Maintain Digital Learning Platform.
 - Deliver Faculty Development & JLCC programs.
 - Certify participants upon course completion.

- **JSPM's JSCOE:**

- Ensure elective courses (FLM in Semester 5, ALM in Semester 6) are undertaken by students under trained faculty.
- Facilitate industry projects for students in Semester 8.
- Nominate at least five faculty for training and provide necessary resources.
- Support faculty consultancy engagement with SMEs.

This MoU aims to create a collaborative learning ecosystem connecting industry, faculty, and students to sustain Lean/Flow transformation in engineering education and SMEs.



Figure 1 IIM Bangalore Team Visit to JSPM,s JSCOE, HADAPSAR, Pune-411028.



Figure 2: Faculty JSCOE & LMP Course participant visit to Industry at Hosur Tamilnaidu .



Figure 3: Successfully completed LMP course by JSPM's JSCOE team certificate awarded at IIM Bangalore



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दस्ताचा प्रकार **प्रतिज्ञापन/AFFIDAVIT**

दस्त गोंयची कारणास आहेत का ? होय/नाही

मिळकतीचे वर्णन

मुद्रांक विकत घेणाऱ्याचे नांव **श्री. एस.डी.एस. श्री. एस.डी.एस.**

पत्ता **ए.ए.ए.ए.**

दुसऱ्या पक्षकाराचे नांव

हस्ते व्यक्तीचे नांव व पत्ता **श्री. एस.डी.एस.**

मनीष एल. प्रसाद
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मुद्रांक विकत घेणाऱ्याची सही
 ज्या कारणासाठी ज्यांनी मुद्रांक खरेदी केला.
 त्यांनी त्याच कारणासाठी व महिन्याच्या आत वापर करणे आहे

वरिष्ठ कोषागार अधिकारी

14 JUN 2024

प्रथम मुद्रांक लिपीक
कोषागार पुणे करिता

Memorandum of Understanding

This Memorandum of Understanding ("MoU") is made at Bangalore on 24th June, Monday day of 2024, by and between:

[Handwritten signature]

Indian Institute of Management Bangalore, a designated Institute of National Importance and body Corporate under the Indian Institutes of Management Act, 2017, through Mizuho India Japan Study Centre represented by its COO – Dr. Saideep Rathnam, located at Bannerghatta Road, Bangalore, Karnataka – 560076, (here onwards called IIMB)

AND

JSPM's Jayawantrao Sawant College of Engineering, located at Hadapsar Pune- 411 028. (here onwards called COL),

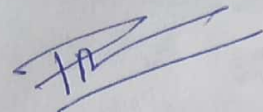
IIMB and College shall individually be referred to as a "Party" and jointly as the "Parties".

RECITALS:

- A. IIMB is a premier institute of National importance, offering management education programs and mentorship programs. MIJSC is a centre of excellence at IIMB which, 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.
- B. **JSPM's Jayawantrao Sawant College of Engineering (JSCOE) is approved by the All India Council of Technical Education (AICTE), Directorate of Technical Education (DTE), Savitribai Phule Pune University (SPPU), NBA and NAAC Accredited (A+).** It is involved in practicing various teaching learning methodologies of excellence to deliver quality engineering to students coming from all corners of the country. The Institute is located in Hadapsar (Pune) surrounded by Industries, IT Companies and Reputed Townships. The excellent academic calendar with space for individual skills and personality development, excellent team work of faculty members and initiative for industry interface is salient features of institute.
- C. IIMB through its MIJSC and College are desirous of collaborating with each other to introduce and promote the learning of Lean Manufacturing Process to enhance the knowledge and skills of eligible young students (each a "Student") in the domain of engineering/industrial production by training senior faculty of various engineering colleges (each a "Faculty") which are affiliated to the University.

NOW THEREFORE IT IS AGREED BY AND AMONGST THE PARTIES HERETO AS FOLLOWS:

- A. **Purpose of this Mou:** The purpose of this MoU is to work on the Lean Manufacturing Practices Program (LMP) and will clarify the scope of the transactions and role of the parties involved. The focus of the program is to introduce the LMP program to the Engineering /Polytechnic colleges and make the Students to learn the new manufacturing paradigms of lean/flow to become industry ready.
- B. **Scope of the LMP program:** IIMB will first train the Faculty at the college and later focus on a structured inputs to the Students. The Faculty training would be at two phases which together would help the Faculty to become an effective facilitator in learning of the Lean/Flow principles as well as to become an effective consultant to industry, especially SMEs. The Student training would make the Students learn the new manufacturing paradigms of lean/flow and therefore



industry, engineering college faculty and engineering college students are working together to learn the new concepts and develop the knowledge into a skill by repeated application of the concepts.

D. Project Structure:

The key highlights of this project are as below:

1. **Foundations of Lean Manufacturing Practices (FLM):** This course is covered in 6 modules which focuses on foundations of Lean Manufacturing through topics such as Observation Skills, Evolution of Manufacturing, Factory Skills, Lean Operations, Introduction to Flow Management System, and Visual Mapping of Material Flow.
2. **Advanced Lean Manufacturing Practices (ALM):** This course is designed in 6 modules to impart skills in advanced topics of Lean Manufacturing Principles such as Visual Mapping of Material and Information Flow, Production Planning 1, Production Planning 2, Production Control, Standardised Work, and Shop Floor Leadership.
3. **Hybrid Learning Platform:**
 - a) Hybrid learning entails a blend of Digital Learning Platform and Industry-based Practice.
 - b) Each module will have video content followed by quizzes to assess understanding which will be both graded and ungraded.
 - c) There would be a test for each module at the end.
 - d) Assignments will be given for the application of learnings in an industry context. These assignments will be reviewed and assessed periodically.
 - e) FLM and ALP courses which are accessed through "Swayam" Digital Platform will have online exams towards the end of the course, followed by certification.
4. **Phase 1- LMP Faculty Development Program:** Phase 1 program focuses on skilling the Faculty in the application of tools and techniques of Lean Management. In the Hybrid Learning Platforms, Certified Module Directors would be monitoring the progress of the self-learning and would be guiding the projects. After completion of all the six modules, the faculty would be certified based on appropriate criteria.
5. **Phase 2 - LMP Student Skill Development Program:** The LMP course content for Students would be delivered through Hybrid Learning Platforms. In the Hybrid Learning Platforms, certified college Faculty would be monitoring the progress of the self-learning and would be guiding the Students to perform industry-based internships. In 8th semester, the Students after completing the LMP course, will undergo internships with Indian and Japanese companies, especially in SMEs, resulting in placement opportunities. Based on the Student's performance through attendance, assignments, internships, and exam, MIJSC will provide certification to the students, on completion of the course.
6. **Japanese Language Program for Students:** Japanese Language, Conversation and Business Culture Course (JLCC) Program will be facilitated by IIMB and delivered through Hybrid Learning Platforms. The JLCC modules would also be spread over a period of 2 semesters. Under this program, students will attain conversational proficiency and cultural sensitivity.
7. **Phase 3- LMP Consultancy Program:** 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. In this program, the course is designed for 6 months, during which the faculty will undergo training in topics such as Identifying Flow Blockages, Addressing

Blockages in Quality, Machine, Human Skills, Soft Skills, and Value Addition. They will be guided by industry experts to apply these skills in industry projects @ SMES.

E. Role of IIMB

The roles and responsibilities of MIJSC include the following:

- a) Development and maintenance of the Digital Learning Platform.
- b) Assurance of effective delivery of Faculty Development Program by the Certified Module Directors.
- c) Effective facilitation of the JLCC program through partnering agencies.
- d) Certification after the Swayam course completion.

F. Role of COL

The roles and responsibilities of COL include the following:

1. Student Skill Training: COL must ensure the following:

- Foundations of Lean Manufacturing (FLM) will be offered as an Elective course in semester 5 through the "Swayam" Digital Platform. College must ensure that Students take up the course under the guidance of the Faculty who have been trained and certified by IIMB.
- Advanced Lean Manufacturing (ALM) is to be offered as an Elective in semester 6. COL must ensure that that Students undergo the course under the guidance of the LMP Certified Faculty.
- Students in the 8th semester are assigned with industry projects and facilitated by the COL along with mentoring and support by the LMP Certified Faculty.
- Students are given ample opportunities to apply their learnings in an industry linked with the COL.
- The evaluation of the students' work will be done by the trained and certified Faculty as well as by the industry where the Student has been associated with.

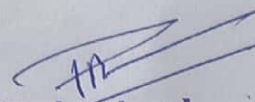
2. Faculty Development Program (Phase 1): COL will ensure the following:

- COL should nominate at least five Faculty.
- COL should provide the Faculty with time and other resources to work on the LMP projects.
- COL should provide the Faculty with opportunities to work with industry on specific projects.


3. Faculty Consultancy Program (Phase 3): COL will ensure the following:

- COL will provide adequate opportunities to the faculty to work with SMEs as consultants.
- COL will evaluate and support the faculty based on their performance as consultants in terms of number of projects that have been worked on.

G. Fee Structure. In exchange of the LMP Program to be delivered by IIMB, a nominal fee is applicable to be paid to IIMB by the COL. The COL may, suo moto, decide to support the faculty to pay the fees as they deem fit.


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- H. **Reporting Requirements:** MIJSC would be the coordinating agency and would be working with Lean experts as and when required. COL can track the developments and MIJSC will share all the information regarding the student and faculty trainings on a regular basis as well as on as-need basis.
- I. **Confidentiality & Intellectual Property:** In order to ensure the safety of any data, materials, modules, and information shared / developed by either Party, all parties to this MoU agree to adhere to the confidentiality expectations and shall maintain strict confidentiality of all Information shared by the other Party. All rights, title, interest, including intellectual property rights in the project and programme, including the modules and materials created and developed by MIJSC, shall solely belong to MIJSC. This MoU is a complete agreement between MIJSC and COL and may be amended only by a written agreement signed by each of the parties involved.
- J. **Term and Termination:** The term of this MoU shall commence from the Effective Date and shall continue to be in force for a period of five (5) years/months ("Term"). Each Party shall have a right to terminate the MoU by providing the other Party prior written notice of thirty (30) days.
- K. **Limitation of Liability:** In no event shall either Party be liable under any theory of law and whether advised of such liability or not, for any indirect damages whatsoever, including but not limited to special, incidental, consequential, punitive, or exemplary damages or loss of profits.
- L. **Dispute Resolution:** Any dispute that may arise concerning the construction, meaning or effect of this MoU and any dispute arising out of or in connection with this MoU shall in the first instance be considered at a joint meeting upon notice given by either Party regarding the existence of dispute. The meeting must take place within thirty (30) days of the date of notice under this Clause. The members of the relevant meeting shall cooperate in good faith to resolve the dispute as amicably as possible. In case the Parties are unable to resolve the dispute as provided below, it shall be referred to arbitration under the provisions of the Arbitration and Conciliation Act, 1996 conducted by a sole arbitrator mutually appointed by both the Parties with the seat of arbitration at Bangalore, Karnataka.
- M. **Governing Law and Jurisdiction:** This MoU shall be governed by and construed in accordance with the laws of India. Any dispute or claim arising out of or relating to this MoU shall be subject to an exclusive jurisdiction of the courts located at Bangalore only. Provided, a Party shall not commence legal proceedings in respect of a dispute arising out of or in connection with this MoU, unless it has first followed the process in Clause G (*Dispute Resolution*) to seek diligently and in good faith an amicable resolution to such dispute with the other Party and the same is not resolved within two (2) months after a Party's receipt of a letter from the other Party notifying it of the existence of a dispute.
- N. **Severability:** If any provision of this MoU is, for any reason, held to be invalid or unenforceable, the other provisions of this MoU will remain enforceable, and the invalid or unenforceable provision will be deemed modified so that it is valid and enforceable to the maximum extent permitted by law.


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- O. **Entire Agreement:** This MoU constitutes the entire Agreement between the Parties on its subject, and this supersedes all other prior agreements, arrangements, or understandings, whether verbal, written, or implied. Any amendment hereto will be in writing and signed by the Parties.
- P. **Counterparts:** This MoU may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement.

Signed and delivered for and on behalf of IIMB

Name: Mr. Saideep Rathnam

Designation: Chief Operating Officer

Signed and delivered for and on behalf of the COL

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Name: Dr. R.D. Kanphade

Designation: Principal

