



**Office of International Relations
Indian Institute of Technology Kharagpur
Kharagpur – 721 302**



Ref: 1858/2023/OIR

Date: 08.05.2023

Subj: Request for MoU Renewal with Larsen & Toubro (L&T)

IIT Kharagpur and Larsen & Toubro (L&T) wish to sign an MoU for collaboration in Artificial Intelligence and Machine Learning (AIML). In view of the interests of the two organizations and demand for specialists in the field of Artificial Intelligence Machine Learning (AIML), Industrial Internet of things (IIOT) in manufacturing and for improvement of productivity constantly through innovations and technological solutions, both IITKGP and L&T have agreed to partner for supporting students of M. Tech as above with a Pre-Placement Offer (PPO) from L&T, thus employing them in L&T.

To this end The MoU was placed at the MoU Committee meeting on 19th January, 2023. The MoU Committee had recommended modifications to the draft MoU. The modified draft was placed in the MoU meeting dated 20 April, 2023, where the committee suggested certain comments from the Audit Section. Based on the comments received from the Audit Section and review of Dean FoS, the draft was considered to be approved.

The supporting documents and Minutes of Meeting are enclosed for your kind consideration and approval. (Flag-1)

It is recommended that DeanFoEA be the signatory of the MoU.


Associate Dean IR


Dean OR


Deputy Director

Director

Please Note: Keeping in mind environmental concerns, the email correspondences have been printed on recycled paper.

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding is reached between

Indian Institute of Technology Kharagpur – 721302, West Bengal, India (hereinafter called "IITKGP") is a leading educational institute in India and engaged in providing high quality Undergraduate & Postgraduate education in Engineering, Technology & Research work in specialized areas.

And

Larsen & Toubro Limited, having its registered office at **L&T House, Ballard Estate, Mumbai, Maharashtra, India** (hereinafter called "L&T") is a leading engineering company in India, engaged in the business of, among others, design, engineering, manufacture and installation of plant and machinery and equipment for process plants like refineries, petrochemicals, fertilizers, and power etc.

1. L&T has been working significantly on upgrade of its manufacturing technology and have been able to successfully bring about IIOT solutions for machines on the shop floor which have provided high productivity and technological edge over similar manufacturing industries worldwide.

L&T has also been providing support to its customers on site for Project Execution for Modification, Revamp and Upgradation and has built up capability to manufacture, erect and commission important products and components at site using digital solutions unique and highly productive with precision in stringent timelines.

L&T wishes to harness the potential of Image processing, Artificial Intelligence (AI), Machine Learning (ML), Robotic Process Automation, Big Data and Analytics etc. to enhance the productivity in office functions while continuously upgrading its IIOT capabilities.

L&T understands that going forward healthy and continuous Digitalization across unit will take it forward in its journey of excellence and will place it a notch higher than competition and/or similar industry.

L&T intends to make digitalization a walk of life and therefore has proposed this effort with IITKGP towards strengthening its facilities for the same.

2. IITKGP realizes the potential of Digitalization in the Manufacturing Industry and its important position in nation building and has created a Centre of Excellence to provide specialized resources to the industry.
3. In view of the interests of the two organizations and demand for specialists in the field of Artificial Intelligence Machine Learning (AIML), Industrial Internet of things (IIOT) in manufacturing and for improvement of productivity constantly through innovations and technological solutions, both IITKGP and L&T have agreed to partner for supporting students of M. Tech as above with a Pre-Placement Offer (PPO) from L&T, thus employing them in L&T w.e.f 2023-25 batch and subsequent batches in consecutive years in future. These candidates will thus be L&T employees deputed with IITKGP as L&T sponsored candidates.

As a next phase, L&T also looks forward to extend this relationship with IITKGP in respect of its Site requirements where digital capability of IITKGP could be harnessed at its labs by students in the first year relevant to the Project site execution requirements and then utilizing the capability at site subsequently.

4. On completion of M.Tech Program L&T INTERNS/ sponsored students will continue their employment in the company as Post Graduate Engineer Trainee – PGET under L&T scheme at the terms and conditions prevailing in L&T and upgraded from time to time.

While L&T agrees to sponsor at least 6 students each year for the first three batches, after which sponsorship would be reviewed by both L&T and IITKGP.

5. The sponsorship will be subject to the following terms and conditions as agreed.
 - a. The sponsored students will be selected as L&T INTERNS/ employees by Joint Committee of L&T and IITKGP before the end of first semester.
 - b. The sponsored students will be INTERNS of L&T (employed with L&T) and will be compensated as per L&T policy during this period.

- c. L&T will bear the full tuition fee for the students/ INTERNS for the two years and they will be provided INR 12,400/- as Pocket Allowance retrospective from the 1st day of the 1st Semester onwards.
 - d. As the students will stand employed with L&T, IITKGP confirms that they will not be eligible for appearing for placement with other companies approaching IITKGP for campus placement.
 - e. The continuity of the employment with L&T and payment of tuition fee and pocket allowance will be subject to the conditions that the students score at least first class in each of their M. Tech. semester examinations with marks of 6.5 CGPA and above under normal circumstances.
 - f. Subject to requirement, L&T may depute additional sponsored students with the same terms and conditions, limited to the number of seats available.
6. L&T will serve appointment to the students w.e.f 1st July every year or any other start date of the first semester as per curriculum at IITKGP.
7. The following are the eligibility criteria for the students for submission of application:
- 2 years/4 semester MTech Degree (full-time) course after 10+2+4 for degree
 - Age Limit 27 years.
 - Aggregate for B.E/B. Tech should be more than or equal to 6.5 CGPA.
 - No backlogs (past or live) during B.E. / B. Tech Course. All subjects should be cleared on the first attempt only. Any subject/ paper not cleared during usual attempt and re-attempted for whatsoever reason will be considered as second attempt.
 - The aggregate for 10th & HSC/12th should be more than or equal to 70% with no backlogs.
 - Post 10th, students who have pursued:
 - 12th, should have completed 12th within 2 years from completion of 10th
 - Foreign nationals are ~~not~~ eligible with the same terms and conditions as are applicable to Indian candidates.
 - Pre employment medical test

8. L&T will share with IITKGP, list of proposed/planned industry projects for the training during the second year/ project commencing every year by end of December for the batch deputed as INTERN with them.
9. INTERNS will carry out diligently projects as assigned by IITKGP and L&T jointly.
10. This training/ project will commence w.e.f. 1st May, 2024 and subsequently similarly with the consecutive batches for upto 30th April next year.
11. As a part of the curriculum these INTERNS will undergo training/ project work at L&T's Heavy Engineering IC Manufacturing facility at Hazira, Surat or Vadodara in Gujarat, India or at any other Business unit of L&T, as per requirement.
12. IITKGP may assign a SUPERVISOR from the institute to support the student.
13. L&T HEIC agrees to provide the following support to the students:
 - a. INTERNS will be assigned a mentor from L&T throughout the internship program for constant review and support.
 - b. L&T will provide free bachelor's accommodation to the students during the training/project work period based on availability.
 - c. INTERNS will be provided with travel reimbursements (up to 2AC) for any travel required for the project.
 - d. The INTERNS will be provided with a bus facility for to and fro transit to the company,
 - e. Subsidized meals will be provided to all the INTERNS as per company policy during their internship period.
14. IITKGP and L&T will maintain confidentiality related to innovations and technological collaborations, technical documents, and proprietary information privy to the interns and associated mentors/ coaches/ officials/ functions/ departments during the project and subsequent closure of project and absorption of interns. IITKGP will seek permission from Authorized Representative of L&T in written before publishing any information on research studies and projects involving the association of interns or the two organizations and vice-versa.
15. In the matter of Intellectual Property rights emerging through the unfolding of the projects both L&T and IITKGP will jointly hold the IP rights unless a mutual agreement permits one individual entity to hold it.

16. L&T and IITKGP will review the progress of the program quarterly in the first year and decide upon a larger/ shorter interval depending on requirement and mutual agreement as the program moves forward.

17. This Memorandum of Understanding is signed on this date of _____ 2023 and will cease automatically unless renewed in written with mutual agreement for another term.

**For and on behalf of
Indian Institute of Technology Kharagpur**

**For and on behalf of
Larsen & Toubro Ltd.**

Signature:
Name: Maddali Ramgopal
Designation: Dean (FoE&A)

Signature:
Name: AV Parab
Designation: Whole Time Director &
Senior Executive Vice President
Heavy Engineering & L&T Valves

Witness 1:

Witness 1:

Signature:
Name: Prof Surjya K Pal
Designation: Professor, Dept. of Mech Engg

Signature:
Name: VV Risbud
Designation: Advisor to IC Head

Witness 2:

Witness 2:

Signature:
Name: Prof S Paul
Designation: Head, Dept. of Mech Engg

Signature:
Name: Manish Gour
Designation: General Manager
Human Resources & Organization
Excellence

**Office of the Dean, International Relations
Indian Institute of Technology Kharagpur**



Date: 20th April 2023

Subject: Minutes of the MoU Committee Meeting Dated 20th April 2023.

The MoU Committee comprising the undersigned members met on 20th April, 2023 in the Dean's Conference Room. The minutes and resolutions of the meeting are as under.

Prof. Amit Patra	Chairman, MoU Committee
Prof. Jayanta Mukhopadhyay	Dean, OR&AA
Prof. M. Ramgopal	Dean, FoEA
Prof. Krishna Kumar	Dean, FoS
Prof. Saswat Chakraborty	Dean, FoBTBS
Prof. Chandan Chakraborty	Dean, R&D
Prof. Debashish Chakravarty	Associate Dean, AA & Branding
Prof. Goutam Chakraborty	Associate Dean, IR & Ranking (Secretary & Convener)

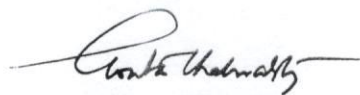
Action Items:

1. New MoU with Georgia Tech : Prof. Anandaroop Bhattacharya, ME
Resolution: This draft has been principally approved by the MoU committee. It was recommended to be placed for signatures.
2. New Joint Certification Course Georgia Tech: Prof. Anandaroop Bhattacharya, ME
Resolution: Though the committee members agreed in principle with the content of the draft, before it was processed further, the committee requested Dean FoEA, Prof. Ramgopal Maddali to review the draft Agreement. It was decided that if there were no further comments or concerns, then the draft would be placed in the Senate for discussions thereafter.
3. MoU with I&T: Prof. Surjya Kanta Pal, ME
Resolution: The draft MoU was approved in-principle. However, the Deputy Director, Chairman- MoU committee, advised the following input on Clause 5(c) of the document from the Audit Section:
 - a. Whether the term, 'living expenses' could be used unambiguously in the document keeping in mind audit restrictions/protocols/rules etc.?
 - b. If not, whether the term 'pocket allowances' could be used to supplement the word 'living expenses'.

It was recommended, that after feedback is received from the audit section, Dean FoS, Prof. Krishna Kumar reviews the draft MoU before it is further processed.

4. New Agreement of Joint Supervision with University of Leeds: Dr. Nilanjan Das Chakladar, ME


Resolution: The Joint Supervision Agreement with University of Leeds is principally approved in the MoU committee with minor modifications. The committee requested Prof. Saswat Chakraborty, Dean, FoBTBS to review the draft Agreement before it is further processed.


Goutam Chakraborty
Associate Dean, IR (Secretary & Convener)

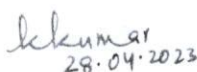
Absent
Chandan Chakraborty
Dean, R&D

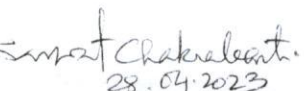

Jayanta Mukhopadhyay
Dean, OR

Absent
Debashish Chakravarty
Associate Dean, AA & Branding


M. Ramgopal 27/4/23
Dean, FoEA


Amit Patra 3/5/23
Chairman, MoU Committee


Krishna Kumar 28.04.2023
Dean, FoS


Saswat Chakraborty 28.04.2023
Dean, FoBTBS

Zimbra**koushiki@adm.iitkgp.ac.in****Re: Feedback Requested Urgently****From :** SURJYA K PAL <surjya.pal@icloud.com>

Wed, Apr 26, 2023 10:14 AM

Subject : Re: Feedback Requested Urgently**To :** amit@ee.iitkgp.ac.in**Cc :** Koushiki Mukherjee <koushiki@adm.iitkgp.ac.in>, Dean FoS <deanfos@iitkgp.ac.in>, kumar <kumar@phy.iitkgp.ac.in>, goutam <goutam@mech.iitkgp.ac.in>, deanfoea <deanfoea@iitkgp.ac.in>, deanbtbs <deanbtbs@iitkgp.ac.in>, jay <jay@cse.iitkgp.ac.in>, Professor Soumitra Paul <spaul@mech.iitkgp.ac.in>

Thank you Sir, for your suggestion.

Requesting the Dean Outreach office to proceed to the next step.

Thanks.

Regards.

-Surjya

Signature file

Surjya K Pal

Fellow of Indian National Academy of Engineering,
Former Lord Kumar Bhattacharyya Chair Professor,
Chairperson, Centre of Excellence in Adv Manuf Tech (www.coeamt.com),
Professor, Dept of Mechanical Engg,
Professor-in-Charge, FSW & Metrology Lab (www.fswlab.in),
INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR,
721302, WB, INDIA.

Ph: +91-9434701972

Visiting Professor, University of Huddersfield, UK
Former Visiting Professor, University of Connecticut, USA

Web add: <http://www.fswlab.in/skpal>
