



தமிழ்நாடு தமில்நாடு TAMILNADU

30 SEP 2024

DH 326020

L&T

Chennai-89.

M. KAILASH CHAND

STAMP VENDOR - L.No.11727/CMI

Saidulpet, Chennai-15. ☎: 9840173096

AGREEMENT

This Agreement is entered into at Delhi on the 19th day of March 2025.

Between

Larsen & Toubro Limited, a company organized and validly existing under the laws of India, having a registered office located at L&T House, Narottam Morarji Marg, Ballard Estate, Mumbai - 400001, India and its business vertical L&T EduTech having its office at TCTC 1st floor, Mount Poonamallee Road, Manapakkam, Chennai 600089, India hereinafter referred to as "L&T EduTech" or First Party, unless it be repugnant to the context or meaning thereof, be deemed to mean and include its successors and permitted assigns, of the FIRST PARTY.

And



Manav Rachna University, duly established and existing under the laws of India, having its registered office at Sector – 43, Aravalli Hills, Delhi – Surajkund Road, Faridabad – 121004, Haryana, India hereinafter referred to as “**MRU**” or “**Second Party**” unless it be repugnant to the context or meaning thereof, be deemed to mean and include its successors and permitted assigns of the **SECOND PARTY**.

L&T EduTech and MRU are hereinafter referred to as such or collectively as “the Parties” and individually as “Party”.

WHEREAS

1. L&T is one of the leading engineering conglomerates operating at various parts of the globe providing technology, engineering, construction manufacturing and services including learning and assessment solutions and platforms through its EduTech business unit.
2. L&T EduTech is a new business unit from L&T, which aims to bridge the gap between industry and academia. The core objective would be to enhance the employability of students as well as aspiring professionals across various engineering & technology sectors. Keeping the focus on employability, L&T has launched a series of industry-led application-oriented programs under its product portfolio - L&T College Connect (“Integrated Program” or “College Connect Program”).
3. MRU has already been established as Manav Rachna University, a higher education institution in Faridabad, Haryana.
4. L&T EduTech will provide its Integrated Program to the students of MRU.
5. MRU has accepted L&T EduTech’s offer and agrees to enrol its students for the Integrated Program.
6. The Parties are desirous of entering into this Agreement to set out their mutual understanding in this regard.

NOW THESE PRESENTS WITNESSETH AND IT IS HEREBY AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:

1. Scope of the Agreement

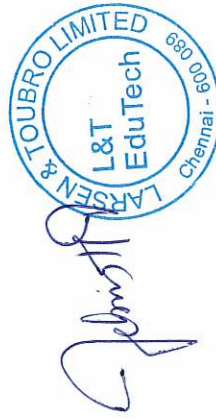
- 1.1. L&T EduTech has developed a solution to bridge the industry-academia gaps in present-day curricula by providing application-oriented courses which are, in-tune with future requirements to deliver career & learning outcomes.
- 1.2. MRU agrees to cooperate and provide the solicited inputs, infrastructure support etc. to L&T EduTech.
- 1.3. MRU and L&T EduTech have agreed to provide the Integrated Program to the students of MRU as set out in Annexure – 1 of this Agreement.
- 1.4. MRU shall enrol students into the Integrated Program as set out in Clause 2 of this Agreement.
- 1.5. L&T EduTech shall deliver the courses as set out in Annexure – 1.
- 1.6. The Parties shall set up a committee consisting of two members from each Party, who shall monitor the progress under this Agreement on a periodic basis.



2. Product Table

Batch	Programs Offered	Number of Semesters	Number of courses	Minimum Enrolment Per Batch	Fees per Learner per Semester (Not incl. GST)	Total Program Fee per Learner (Not incl. GST)
2025-29	Semiconductor Design Framework for Industrial ICs	8	10	30 Learners	Rs 12,500	Rs. 1,00,000
2025-29	Robotics and AI	8	10	30 Learners	Rs 12,500	Rs. 1,00,000
2025-29	Advanced Specialization on Electric Vehicles for (Mechanical / Chemical / Aeronautical / Automobile branches)	8	10	30 Learners	Rs 12,500	Rs. 1,00,000
2025-29	Digital Manufacturing using AI and CPS	8	10	30 Learners	Rs 12,500	Rs. 1,00,000

- a. The number of learners and the fee per learner are as set out in this Agreement. The Total fee per learner is applicable for all the courses be offered across semesters. The Minimum enrolment for each program shall be as tabulated above. If the number of enrolled students for any program per batch is less than the minimum deemed viable to start a batch, as mentioned in the table above, both parties shall mutually discuss the feasibility of proceeding with the program in the given academic year, and the minimum invoicing count for the case shall be mutually agreed upon. Any additional learner required shall be offered at per learner rate as indicated in the table above. The start and End Date for the semesters shall be tentatively as follows (subject to changes in the academic calendar):
 - a) Odd Semester: September to December
 - b) Even Semester: January to April
- b. L&T EduTech shall launch the Courses/license/s on the start date of MRU's academic calendar. MRU shall invite the students to enrol into the Courses/licenses with immediate effect.
- c. Launch of Courses/licenses would mean commencement of services rendered by L&T EduTech, which shall be done upon receipt of payment for the minimum enrolment for the semester.
- d. The learner fee is exclusive of applicable taxes at time of signing of agreement. The same shall be payable by the MRU as per the statutory norms and at the rates prevailing from time to time. MRU to file the TDS return with in the due date for any withholding tax deducted while making the payment to L&T and provide with the TDS certificate within the stipulated period as per the statutory norms.



3. Payment Terms

- a. The minimum number of students invoiceable is a committed non-refundable value and will not change/vary due to the reasons of non-subscribing of any of the licenses by the students and/or students opting out of the programme for whatsoever reasons. The payment for courses for students who discontinue, attend sessions irregularly, or drop out shall be adjusted against other students admitted to the course, provided that the total number of admitted students exceeds the minimum invoiceable threshold for each semester.
- b. At the time of signing of the agreement, on production of invoice by L&T EduTech, Manav Rachna University shall pay to L&T EduTech **Rs. 10,00,000** ("the Base Amount") which shall be adjusted against the first semester fee for the first batch (2025) of engagement. MRU will be permitted to advertise about the Programs and begin enrolment of students for these courses only after payment of the Base Amount to L&T EduTech.
- c. For the enrolment year (2025-29) the learners undergoing the Integrated Programs, L&T EduTech shall raise invoice to MRU as per the schedule provided below. Payment shall be made within 10 days of the Invoice. Roll out of the courses shall commence only after receipt of the payment for the particular semester.

Tranche	Invoicing Schedule	Amount Not incl. GST
1	At the time of signing the agreement (Base Amount)	Rs 10,00,000
2	15 th Sept-25, or 15 days before commencement of First Semester - whichever is earlier	Rs 5,00,000 (up to 120 Learners) and Rs 12,500 per learner, above 120 learners
3,5,7,9	15 th Jan, or 15 days before commencement of Even Semester - whichever is earlier	Rs 15,00,000 (up to 120 Learners) and Rs 12,500 per learner, above 120 learners
4,6,8	15 th Sept, or 15 days before commencement of Odd Semester - whichever is earlier	Rs 15,00,000 (up to 120 Learners) and Rs 12,500 per learner, above 120 learners

- d. L&T shall set up a Center of Excellence (CoE) for delivering the Program in E-Mobility and Electric Vehicles in MRU's campus with support of TECHNOLOGY PARTNER after receipt of payment for first tranche for the first batch. The scope of deliverables for the CoE are detailed in the Annexure - 1.
- e. This engagement for Integrated Programs is envisaged to continue on a year-to-year basis. The invoicing schedule for subsequent academic year, shall be as per the table below and the corresponding payments shall be collected in 8 tranches provided below. Payment shall be made within 10 days of the Invoice. Roll out of the courses shall commence only after receipt of the payment.

Tranche	Invoicing Schedule	Amount Not incl. GST
1,3,5,7	15 th Sept, or 15 days before commencement of Odd Semester - whichever is earlier	Rs 15,00,000 (up to 120 Learners) and Rs 12,500 per learner, above 120 learners
2,4,6,8	15 th Jan, or 15 days before commencement of Even Semester - whichever is earlier	Rs 15,00,000 (up to 120 Learners) and Rs 12,500 per learner, above 120 learners

MRU PAN Number: AAATU5658A

MRU GST Number (Uthan Educational Trust): 06AAATU5658A1ZL



4. Obligations of MRU

MRU hereby agrees that it shall:

- a) Promote the Integrated Program to students and to the general public as “Program in partnership with L&T EduTech”. If any advertisements are released by the MRU, the cost of such advertisement will be borne by the MRU. MRU will promote the College Connect Program Courses according to course descriptions given by L&T EduTech.
- b) Enroll students within respective courses at the start of license date. The list of students enrolled can be shared with L&T EduTech and MRU shall ensure that the correct name is printed in the certificate on successful completion.
- c) Provide a point of contact for all administrative and support function to ensure smooth implementation of the courses.
- d) Periodic review to ensure on track implementation and sharing feedback with L&T EduTech as soon as possible and any necessary action required.
- e) Ensure timely payment of invoices as mentioned in the clause 3(c), (e).
- f) Assign faculty members to be trained in the operation and maintenance of the CoE as detailed in the Annexure – COE.
- g) Provide necessary support for the establishment and operation of CoE in MRU’s campus.
- h) TDS returns to be filed within due date for any tax deducted on sources and certificate to be issued to L&T EduTech.
- i) To ensure safe custody and protection of the Lab and its equipment at the College premises
- j) To ensure proper handling and upkeep of the – EV lab and equipment as per the lab manual, user /operating manual and instruction and documentation given either by L&T EduTech or by the TECHNOLOGY PARTNER of L&T or by both.
- k) To intimate TECHNOLOGY PARTNER and L&T EduTech for any malfunctioning immediately after its detection in writing or email of any defects or malfunctioning as promptly as possible after discovery thereof. The communication must state the nature and extent of the defects
- l) To take appropriate insurance cover of the lab equipment to protect them against Fire, Explosion, self-ignition, Accident, Theft and Burglary, Acts of Peril.

5. Obligations of L&T EduTech

L&T EduTech hereby agrees that it shall:

- a) Support in recommending the right courses as per the learning and career outcomes evinced for the students.
- b) Ensure courses are live and available to students during the validity of the licenses.
- c) Share schedule of course delivery as agreed with MRU.
- d) Provide Subject Matter Experts (SMEs) for virtual or in-person classes as agreed course wise delivery.
- e) Conduct assessments or other formalities course wise and issue certificate on successful completion.
- f) Guide the MRU faculties in addressing queries and mentoring students effectively in Integrated Programs.



- g) Provide technical support to all enrolled students of MRU regarding the online platform through which the courses are offered.
- h) Allow students, completing the program, to register and build their profile in L&T EduTech Skill Exchange platform.
- i) Establish the CoE in E- mobility and Electric Vehicles in MRU's campus with support of its TECHNOLOGY PARTNER for delivery of Program in E-Mobility and Electric Vehicles as detailed in Annexure - COE, based on clause 3(d).
- j) To upskill two faculty members of the college in EV thereby enabling them to conduct experiments and maintain the EV requirements with proper care at the COE
- k) To provide with the Lab manuals, experimental procedure and documentation for the trained faculty member to understand and operate on the equipment as per the operating instruction manual
- l) To co-ordinate with the TECHNOLOGY PARTNER for proper upkeep and maintenance of the lab and its equipment.
- m) L&T EduTech shall facilitate the servicing and repairing of the equipment through its TECHNOLOGY PARTNER for issues arising from defects in the equipment as detailed in the Annexure – COE (Clause 3).
- n) TECHNOLOGY PARTNER of L&T EduTech will make routine inspection of the equipment of periodic basis and maintain the equipment supplied by them
- o) L&T EduTech and its TECHNOLOGY PARTNER shall not be liable for repairs required due to damages caused by the College, including but not limited to negligence, mishandling, power supply fluctuations, accidental damage, unauthorized modifications, or failure to follow operational guidelines Warranty clauses are not applicable under the aforesaid circumstances.
- p) Facilitate up to two placement opportunities for the students successfully completing the Integrated Program. Internship/placement opportunities for the learner shall be based on student meeting the required eligibility criteria for hiring.

6. Representation and Warranties

- a. The Parties hereby represent and warrant to each other that:
 - i. Entering into and performance of this Agreement does not and will not conflict with any law, governmental rule/regulation or cause a breach of any other agreement to which either of the Parties is a party.
 - ii. They are duly organised and validly existing entity, and it has the power and authority to enter into and perform this Agreement and the signatory to this Agreement is duly authorised by it.

7. L&T Logo usage and Co-branding

- a. MRU will be provided with the option of using co-branded materials in its marketing campaign, certificates, student acquisition programs, etc., L&T EduTech shall provide MRU with the marketing material and information and MRU shall only use such material and information.
- b. MRU may utilize L&T EduTech's logo and brand material (collectively referred to as the "**Brand Material**") subject to the payment of license fees against the first invoice raised by L&T EduTech as set out in clause 3 above. It is hereby clarified that MRU shall be entitled to use L&T EduTech's Brand Material



subject to the timely settlement of any and all subsequent invoices raised by L&T EduTech.

- c. L&T EduTech reserves the right to revoke the consent granted to MRU to use its Brand Material at any time during the term of this Agreement. Upon such revocation MRU shall cease using L&T EduTech's Brand Material with immediate effect.
- d. Usage of L&T EduTech's Brand Material shall be subject to the brand guidelines and approval of marketing or promotional material by L&T EduTech.

8. Term and Termination

- a. This Agreement shall be with effect from the date of signing hereto and shall remain valid for a period of five years unless terminated earlier.
- b. This Agreement may be terminated by either of the Parties by giving one month written notice to the other Party. Such termination shall be effective from the next academic session and shall not affect the accrued rights of the parties for ongoing batches, or the academic session set to commence that year, for which the admission campaign has already been initiated, unless mutually agreed otherwise by both parties.
- c. Either Party ("**Aggrieved Party**") shall be entitled to terminate this Agreement forthwith by issuance of a written notice to the other Party ("**Breaching Party**") due to a (a) breach of the terms and conditions of this Agreement including non-adherence to the stipulated timelines, failure or refusal to pay the fees, breach of clause 10 (*Intellectual Property Rights*) etc. Provided that the Aggrieved Party shall provide the Breaching Party with a written notice ("**Notice**") informing it of the occurrence of such breach and the Breaching Party fails or refuses to rectify the breach within a period of 7 days from the date of receipt of notice. The requirement of Notice shall be dispensed with if the breach is irremediable in nature.
- d. In the event of any termination, the ongoing College Connect Program shall be rendered to the students who had enrolled for the same prior to the termination of this Agreement. It is hereby clarified that the amounts paid by MRU prior to termination of this Agreement for availing the courses shall not be refunded under any circumstances.
- e. It is hereby agreed by the Parties that post termination of this Agreement for any reason, MRU shall cease to provide the College Connect Program, either under the same name or a different brand name using the materials of L&T EduTech, to the students, and return all data, information of L&T EduTech that it may have access to and communicate to the students that the College Connect Program will be no longer offered through MRU.

9. Confidentiality

- a. The Parties hereby agree that each Party may have access to Confidential Information of the other Party. Each of the Parties agrees that it shall keep confidential all the information disclosed by the other Party and will use the same only for the purposes of this Agreement.
- b. Each of the Parties also agrees that it shall not disclose to any person or entity any of the terms, conditions or other facts with respect to any such possible transaction including the status, which is confidential information without the consent of the other Party.
- c. For the purposes of this Agreement, Confidential Information shall mean any information provided by a Party to another Party under this Agreement,



including but not limited to, financial, marketing, technical, IPR, design, customer/learner information (sourced by L&T EduTech / MRU) or other information of the disclosing party.

d. The Parties also affirm that there shall not be any announcement made by either Party, till both Parties have approved the content of such an announcement.

e. Nothing in the above clause prevents a Party from disclosing any Confidential Information:

- (a) to its employees, legal advisors and other consultants on a need-to-know basis (provided the Party uses reasonable endeavours to ensure that the relevant person is aware that the information is confidential and does not further disclose the information except in accordance with this clause);
- (b) if required by law, or regulatory authority;
- (c) to obtain any Regulatory or corporate approval, consent or authorization to enter into the transaction;
- (d) if required in connection with enforcement of any right or in defence of any claim, legal proceedings or dispute resolution procedure relating to or arising out of this Agreement.

10. Intellectual Property Rights

- a. Intellectual Property Rights: Any and all Intellectual Property Rights (hereinafter referred to as IPR) subsisting in the courses (now or in the future), including any and all patents, rights to inventions, copyright and related rights, trademarks, trade names and domain names, rights in get-up, rights in goodwill or to sue for passing off, rights in designs, rights in computer software, database rights, rights in confidential information (including know-how and trade secrets) and any other intellectual property rights, in each case whether registered or unregistered and including all applications (or rights to apply) for, and renewals or extensions of, such rights and all similar or equivalent rights or forms of protection which may now or in the future subsist in any part of the world).
- b. MRU agrees that all products/ such other things provided under this Agreement shall belong exclusively to L&T EduTech and no rights thereto shall accrue in any manner to MRU.
- c. Under no circumstances will MRU be entitled to claim the IPR (or any right of any kind) for any product, process, methodology, patent or any other thing of any nature whatsoever in relation to this Agreement. Any IPR developed during the currency of this Agreement and all rights over the Courses to be delivered under this Agreement, shall be the sole property of L&T EduTech and MRU shall not have a right to claim any right over the same merely by working on it or instrumental in developing the same.
- d. MRU shall not along with its student(s)/faculty/client(s)/sub-contractor(s) remove or alter any of the proprietary rights notices on any Confidential Information/courses it receives from L&T EduTech and will not attempt to recreate, update, modify, create derivative works, delete, destroy or deface the courses or Intellectual Property (or any part thereof) in any manner whatsoever. In no case shall MRU or anybody connected to MRU either directly or indirectly, apply for, or seek registration of, or in any way use in any country the patents, know-how, trademark or any other intellectual property, designs, copyrights, trademarks, trade names or logos which are identical or confusingly similar to the patents, know-how,



trademark or any other intellectual property, marks, trade names, logos, designs, etc., belonging to L&T EduTech.

- e. MRU hereby fully confirms and commits that it shall take all necessary precautions, measures and steps to fully protect the Confidential Information of L&T EduTech from any unauthorized disclosure, misuse or infringement in any manner.
- f. Upon any termination of this Agreement or upon breach by MRU of any of the terms of this Agreement, MRU shall cease using the L&T IPR and the courses forthwith.

11. Indemnity

- a. Each Party ("Indemnifying Party") hereby irrevocably and unconditionally agrees to indemnify and hold the other Party ("Indemnified Party"), its directors, officers and employees harmless from and against any and all liabilities, losses, damages, costs, claims, or the like (collectively "**Loss**") which may be suffered or incurred directly, including but not limited to any claim by third party, by Indemnified Party as a result of (i) any misrepresentation or material breach of any representation or warranty made by the Indemnifying Party in this Agreement or (ii) non-fulfilment of or failure to perform any covenant or obligation or agreement or undertaking contained in this Agreement by the Indemnifying Party or (iii) violation of confidentiality and intellectual property rights of the Indemnified Party.
- b. In no event shall the maximum liability of both parties under this Agreement exceed the amount of fees paid/payable by MRU for a period of three months immediately preceding the date of the claim.

12. Notices

- a. Except as otherwise specified in this Agreement, all notices, requests, consents, approvals, agreements, authorizations, acknowledgements, waivers and other communications required or permitted under this Agreement shall be in writing and shall be deemed to be given when sent by electronic mail to the electronic mail address specified below or delivered by hand to the address specified below. A copy of any such notice shall also be sent by registered mail or courier on the date such notice is transmitted by electronic mail, to the address specified below:

In the case of L&T EduTech:

L&T EduTech, TCTC (First Floor), Larsen & Toubro Limited, Mount Poonamallee Road, Manapakkam, P.B.No.979, Chennai – 600 089.
E-Mail ID: collegeconnect@lntedutech.com

In the case of Manav Rachna University:

Manav Rachna University, Sector – 43, Aravalli Hills, Delhi – Surajkund Road, Faridabad – 121004, Haryana, India.
E-Mail ID: vc@mru.edu.in

13. Non-Solicit

- a. During the term of this agreement and for a period of thirty-six (36) months thereafter, MRU shall not directly or indirectly, knowingly recruit, hire, engage or solicit for employment any technical or professional employee of L&T EduTech, its Affiliates, sub-contractors, vendors, etc. unless otherwise agreed to in writing by the Parties.



14. Exclusivity

- a. The L&T EduTech hereby agrees and acknowledges that MRU has executed similar agreements with third party course providers. Similarly, the MRU hereby agrees and acknowledges that L&T EduTech shall be free to enter into similar agreements with third parties in respect of its College Connect Program. MRU hereby agrees and states that it shall not share/disclose/use the course materials, or any information pertaining to the course or otherwise made available to it by L&T EduTech with such third-party course providers under any circumstances in any manner. It is hereby agreed between the Parties hereto that any such act on the part of MRU gives L&T EduTech the right to terminate this Agreement.

15. Entire Agreement

- a. This Agreement and the schedules, set forth constitute the entire agreement and understanding of the Parties with respect to the subject matter hereof, and supersedes all prior oral and written agreements, understandings, representations, conditions and all other communications relating thereto including any commercial and/or technical proposal made by MRU to L&T EduTech.

16. Assignment Rights

- a. MRU shall not assign or transfer its rights and liabilities hereunder to any other party without the prior written permission of the L&T EduTech which will not be unreasonably withheld.

17. Survival

- a. Any provision of this Agreement that by their content are intended to survive the performance, termination, expiration or cancellation of this Agreement shall so survive.

18. No partnership

- a. Nothing in this Agreement shall constitute or be deemed to constitute a partnership, agency or any other similar relationship between any of the parties and none of them shall have any authority to bind the others in any way, whether contractually or otherwise.

19. Severability

- a. If any provision of this Agreement is held by a court of competent jurisdiction to be contrary to law, then the remaining provisions of this Agreement, if capable of substantial performance, shall remain in full force and effect.

20. Counterparts

- a. This Agreement may be executed in any number of counterparts, each of which will be deemed an original, but all of which taken together shall constitute one single agreement between the Parties.

21. Amendment

- a. This Agreement may be amended or modified in whole or in part with the mutual consent of the Parties to the Agreement in writing.



22. Costs of Enforcement

- a. If either Party shall seek to enforce any provision of this Agreement, the prevailing party in any such legal action or proceeding shall be entitled to reasonable attorney's fees in addition to any other relief provided to the prevailing party.

23. Governing Law and Jurisdiction

- a. This Agreement shall be governed by the laws of India. The Parties hereby agree that the courts in Chennai, India will have the exclusive jurisdiction to try any disputes by and between the Parties.

24. Arbitration

- a. The Parties shall attempt in good faith, to resolve any controversy, claim, or dispute arising out of this Agreement through bilateral mutual negotiations. It is mutually agreed that in the event of any dispute or misunderstanding that might be arising between the Parties related to this Agreement, whether as to the interpretation of the terms and conditions contained herein and / or as to the determination of the respective rights and obligations, the Parties herein shall resolve the same by way of referring the dispute to the arbitration of the sole arbitrator to be appointed by mutual consent. If the Parties herein failed to arrive at a consensus for the appointment or a sole arbitrator, each Party shall be entitled to appoint an arbitrator of their choice and the arbitrators so appointed in this regard shall by consensus appoint a third arbitrator, thereby forming an arbitration panel to resolve the dispute between the Parties herein. Each Party shall be liable to bear the cost of their respective Arbitration, unless otherwise adjudged by the arbitration panel.
- b. The award to be passed by the arbitration panel shall be final and binding on the Parties herein. The procedure as prescribed under the Arbitration of Conciliation Act 1996 shall be adopted in this regard. The law applicable shall be Indian Law and the venue of arbitration shall be Chennai, India.
- c. The parties shall continue to perform their respective obligations under this Agreement during the pendency of the arbitration proceedings except in so far as such obligation are subject matter of the said arbitration proceedings.

25. Force Majeure

- a. The Parties shall be excused from delays in performing or from failing to perform its obligations under this Agreement or the indentures pursuant thereof to the extent the delays or failures result from causes beyond the reasonable control of the parties, including, but not limited to acts of God; wars; Governmental actions; fire; flood; epidemic; and freight embargoes. However, there shall be an obligation on such repudiating party to give notice to the other ("Affected Party") regarding the invocation of the Force Majeure clause at the earliest possible. The Affected Party shall have the right to terminate this Agreement if the other Party is prevented from performing its obligations due to the subsistence of the Force Majeure Event beyond a period of 7 days.

26. No Waiver Clause

- a. Failure to enforce any provision of this Agreement will not constitute a waiver.



27. Insurance

- a. The lab equipment should be duly insured by MRU by an All-Risk Policy against Fire, Explosion, self-ignition, Accident, Theft and Burglary, Acts of Peril etc.

IN WITNESS WHEREOF, the Parties have hereunto set their hands and seals the day and year first above written.

For Manav Rachna University



[Signature]

Mr. Ramesh Nair
Registrar
Manav Rachna University

For Larsen & Toubro Limited



[Signature]

Mrs. M F Febin
Head-CollegeConnect Business
L&T EduTech

Witnesses:

1. *[Signature]*

Dr. Manpreet Kaur
Professor & Head - Computer
Science & Technology

Witnesses:

[Signature]

1.

Mr. A.R. Soni

2.

[Signature]
Dr. Meenakshi Gupta
Assoc. Prof., Assoc. Head,
CIC

[Signature]

2.

Annexure – 1

Semester wise courses offerings in Integrated Programs

Semiconductor Design Framework for Industrial ICs				
S No.	Course Name	Category	Credits	Semester
1	Product Design Thinking Framework	Functional Skills	3	I
2	Embedded Computing Principles	Technical Skills	3	II
3	Product Architecture Models and Firmware	Technical Skills	3	III
4	RTL Design and Verification	Technical Skills	3	IV
5	Logic Synthesis, DFT and Chip Timing Analysis	Technical Skills	3	V
6	Physical Design and Graphic Design System	Technical Skills	3	VI
7	Career Readiness in Digital Era	Behavioral Skills	3	VI
8	SoC Design Principles for Industrial Automation Practices	Technical Skills	3	VII
9	Foundry Process of IC Manufacturing	Technical Skills	3	VII
10	Capstone works on – Industrial SoC Products	Technical Skills	3	VIII
	Total		30	

Robotics and AI				
S No.	Course Name	Category	Credits	Semester
1	IT Primer for Young professional	Functional Skills	3	I
2	Critical Thinking, Design Thinking, Leadership and Teamwork	Behavioral / Functional Skills	3	II
3	Python - Complete Python with ML Guide	Technical Skills	3	III
4	Embedded Computing Principles	Technical Skills	3	III
5	Drone Technology and its Transformative Applications - A Practitioner's Perspective	Technical Skills	3	IV
6	Digital Technologies for Manufacturing	Technical Skills	3	V
7	Artificial Intelligence and Machine Learning	Technical Skills	3	VI
8	Collaborative Robotics in Manufacturing with AI, ML and IIOT	Technical Skills	3	VI
9	Data Analysis with Pandas and Python	Technical Skills	3	VII
10	Cognitive Manufacturing - Artificial Intelligence and Machine Vision	Technical Skills	3	VIII
	Total		30	



Advanced Specialization on Electric Vehicles for (Mechanical / Chemical / Aeronautical / Automobile branches)				
S No.	Course Name	Category	Credits	Semester
1	Digital Enablement Basics for Engineers	Functional Skills	3	I
2	Critical Thinking, Design Thinking, Leadership and Teamwork	Behavioral / Functional Skills	3	II
3	Fundamentals of Electric and Hybrid Electric Vehicle Technology	Technical Skills	3	III
4	Electric Drive Systems: Batteries, Powertrains and Transmissions	Technical Skills	3	IV
5	EV Charging Infrastructure and Guidelines	Technical Skills	3	V
6	Multiphysics based product development for BEV and FCEV	Technical Skills	3	V
7	Electric Vehicle Dynamics	Technical Skills	3	VI
8	Career Readiness in Digital Era	Behavioral Skills	3	VI
9	Electric Vehicle Design Through Simulation	Technical Skills	3	VII
10	Project Management for Professionals	Functional Skills	3	VIII
	Total		30	

Digital Manufacturing using AI and CPS				
S No.	Course Name	Category	Credits	Semester
1	Digital Enablement Basics for Engineers	Functional Skills	3	I
2	Critical Thinking, Design Thinking, Leadership and Teamwork	Behavioral / Functional Skills	3	II
3	Graphics, Geometric Tolerances and Drawings in Manufacturing	Technical Skills	3	III
4	Technology and Processes in Heavy Manufacturing	Technical Skills	3	IV
5	Digital Technologies with CPS, IIOT and Cloud in Manufacturing	Technical Skills	3	V
6	Cognitive Manufacturing - Artificial Intelligence and Machine Vision	Technical Skills	3	V
7	Collaborative Robotics in Manufacturing with AI, ML and IIOT	Technical Skills	3	VI
8	Career Readiness in Digital Era	Behavioral Skills	3	VI
9	Additive Manufacturing	Technical Skills	3	VII
10	Project Management for Professionals	Functional Skills	3	VIII
	Total		30	



Delivery Model

For each course offered as part of the program, the following are the key milestones:

1. The program would commence with an orientation session for students to understand the learning outcomes – (provided at start of the programme)
2. Onboarding of the students – (provided at start of the programme)
3. Enabling access to online self-paced contents – (provided at start of the programme)
4. Conducting Instructor interventions as applicable to the delivery model of the course – provided based on mutually agreed schedule
5. Conducting assessments as required for the pedagogy of the course – provided based on mutually agreed schedule

The proposed delivery model for the courses opted as a part of this agreement are as follows.

Digital Enablement Basics for Engineers / Product Design Thinking Framework / IT Primer for Young professional			
S. No	Interventions		Duration
1	Virtual Instructor Led Expert Sessions	✓	14 hrs (7 Sessions X 2 hrs each)
2	In Person Expert Sessions	✓	20 hrs (4 days* X 5 hrs each)
3	Project Work / Tasks	✓	10 hrs
4	Final assessment - Virtual Live	✓	1 hr
5	E – Certification for Eligible Students	✓	

*Shall be completed in consecutive days

Critical Thinking, Design Thinking, Leadership & Teamwork Course / Career Readiness in Digital Era			
S. No	Interventions		Duration
1	Virtual Instructor Led Expert Sessions	✓	20 hrs (10 sessions X 2 hrs each)
2	In Person Expert Sessions	✓	25 hrs (5 days* X 5 hrs each)
3	Final assessment – Virtual Live	✓	1 hr
4	E – Certification for Eligible Students	✓	

*Shall be completed in consecutive days



Technical Skill Courses – Digital Manufacturing using AI and CPS			
S. No	Interventions		Duration
1	Student Orientation - Virtual Live	✓	0.5 hrs
2	Course Orientation - Virtual Live	✓	0.5 hrs
3	Online Self-Paced Content	✓	28 hrs
4	In Person Expert Sessions	✓	30 hrs (6 days* X 5 Hrs each)
5	Mid assessment - Virtual Live	✓	1 hr
6	Project work - Virtual Live	✓	7 hrs
7	Final assessment - Virtual Live	✓	1.5 hrs
8	E – Certification for Eligible Students	✓	

*The program will be conducted in three slots with two consecutive days each

Technical Skill courses – Semiconductor Design Framework for Industrial ICs, Robotics and AI, Advanced Specialization on Electric Vehicles			
S. No	Interventions		Duration
1	Student Orientation - Virtual Live	✓	0.5 hrs
2	Course Orientation - Virtual Live	✓	0.5 hrs
3	In Person Expert Sessions	✓	30 hrs (6 days* X 5 Hrs each)
4	Mid assessment - Virtual Live	✓	1 hr
5	Virtual Instructor Led Expert Sessions	✓	14 hrs (7 Sessions X 2 Hrs each)
6	Project work - Virtual Live	✓	7 hrs
7	Final assessment - Virtual Live	✓	1.5 hrs
8	E – Certification for Eligible Students	✓	

*The program will be conducted in three slots with two consecutive days each

- The boarding and food accommodation for the trainers during in person training shall be borne by MRU.
- Project Site Immersion (1 day) shall be provided after 2nd, 4th, 6th and 8th Semester for Integrated Program learners in Digital Manufacturing using AI and CPS, subject to project site availability and feasibility near the college.

