

Stamp duty paid vide Certificate No. IN-DL74903408954375W dated 16.04.24 in Delhi for execution of this Amendment.

NOTE OF AMENDMENT

This Note of Amendment (hereinafter referred to as "Note of Amendment") to the Agreement dated 23rd September 2022 (hereinafter referred to as "Agreement"), is executed at New Delhi on this 18/4/2024 by and between **National Skill Development Corporation**, (CIN:U85300DL2008NPL181612) and **Indian Institute of Technology, Mandi**.

Unless defined herein, the terms used but not defined herein shall have the same meaning as defined (if any) in the Agreement.

In pursuance of sub-clause 14.8-"Addendum" under clause 14- "Other Covenants" of the Agreement, the Parties hereby mutually agree to amend certain terms of the Agreement as mentioned hereinbelow:

1. The existing "sub-Clause 4.1 under Clause-4: Term and Termination", of the Agreement is deleted and substituted with the following sub-Clause 4.1:
"The term of this Agreement shall commence from the 23rd September 2022 and remain in force for a period till 17th April 2027 ("Term"), unless terminated earlier in accordance with the terms of this Agreement. The Term of the Agreement can be further extended in accordance with mutual consent of the Parties."
2. The existing Annexure-1: **SCOPE OF WORK, RIGHTS & OBLIGATIONS OF THE PARTIES, AND FINANCIALS** of the Agreement is deleted and substitute with the following Annexure-1 attached to this Note of Amendment.
3. This Note of Amendment shall form an integral part of the Agreement and the terms contained herein shall supersede the corresponding terms of the Agreement, if any, with effect from the 18th April 2024
4. Except as expressly amended and modified by this Note of Amendment, the covenants of Agreement shall continue to be in full force and effect in accordance with the terms thereof.

IN WITNESS THEREOF THE PARTIES IN THEIR FREE VOLITION AND FULL UNDERSTANDING WITH INTENT TO LEGALLY BIND THEMSELVES TO THIS NOTE OF AMENDMENT EXECUTE THIS NOTE OF AMENDMENT THROUGH THEIR DULY AUTHORIZED PERSONNEL:

Signed for and on behalf of **National Skill Development Corporation**



Ved Mani Tiwari
CEO, NSDC

Signed and delivered for and on behalf of **Indian Institute of Technology Mandi**



Prof. Laxmidhar Behera
Director

Director
IIT Mandi (H.P.)
Pin-175005



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Annexure-1

SCOPE OF WORK, RIGHTS & OBLIGATIONS OF THE PARTIES, AND FINANCIALS

1. Roles & Responsibilities

NSDC and IIT Mandi have teamed up to introduce jointly certified programs, delivering a comprehensive range of online educational programmes such as short term, long term, advanced and executive certification programmes. These offerings are tailored to empower ambitious young professionals who are dedicated to enhancing their skill sets, reskilling, and upskilling. The primary focus of these online programs is to furnish learners with the knowledge and expertise required to unlock better employment prospects in the tech industry while also nurturing entrepreneurial acumen. Our shared goal is to bridge the gap between industry expectations and industry-aligned education by providing affordable and easily accessible educational programs. NSDC shall be facilitating this initiative through its implementing Partner, Masai School (Nolan Edutech Pvt Ltd). A separate agreement is being signed between NSDC and Masai School on 18/4/2024 in concurrence with this agreement.

Details of the first program launched under this initiative shall be as follows:-

Course Overview:

- **Course Name:** Credit-linked Micro-Specialization in Artificial Intelligence and Machine Learning
- **Course Modules:** Mathematics for Data Science, Programming for Data Engineering, Machine Learning Fundamentals, Deep Learning and Neural Networks, Specialized Topics in AI and ML, Capstone Projects
- **Compliance:** NSQF
- **Course Fee:** ₹195,000 [One Lakh Ninety-Five thousand only]
- **Admissions:** 120 students are expected in first batch
- **Course Launch Date:** TBD
- **Course Start Date:** 15th July 2024
- **Course Exclusivity:** Both parties agree not to commence a Credit-linked Micro-Specialization in Artificial Intelligence and Machine Learning with any other partner for a period 24 months from date of this agreement.
- **Course Credit:** 24 credits (Course wise equivalent to a minor degree)
- **Course Curriculum -** To be jointly designed by NSDC's Implementing Partner – Masai School and IIT Mandi



A. IIT Mandi

a. Pre-Launch Stage:

- (i) Verify and approve the course curriculum before official launch of the course
- (ii) Provide academic oversight and guidance on Course Layout
- (iii) Participate in Course marketing Video
- (iv) Expectation Setting Video by Director, IIT Mandi
- (v) Course Introduction Video by Dr Tushar Jain
- (vi) Module Introduction Video by Teaching Faculties
- (vii) IIT Mandi to participate in promotional activities like webinars with students or creating videos for increasing awareness among parents/students/colleges
- (viii) Launch Collaboration Post from Social Media Handles and Websites
- (ix) Alignment with guidelines on placement of CCE, IIT Mandi logos on T-shirts, Mugs and Identity Card, etc. that are part of Joining Kit
- (x) IIT Mandi to support with the NSQF alignment and necessary approvals required from the NCVET for credit allocation of the finalised curriculum
- (xi) IIT Mandi to assign subject wise faculties before official launch of the course
- (xii) IIT Mandi to assign one dedicated programme coordinator for the course
- (xiii) IIT Mandi to help spread the program awareness in their college network
- (xiv) Anyone completing the course will get guaranteed interview opportunities for project work at/with IIT Mandi faculty.

b. Course Delivery & Assessments:

- (i) Courses to be taught completely by IIT faculty members (mix of live + recorded) and doubt resolution by TAs. Need basis IIT Mandi can bring in relevant experts from other IITs or industry. Solely owned by IIT Mandi and shall not be used for any commercial purposes.
- (ii) IIT Mandi will ensure the provision of essential teaching resources, including the assignment of Teaching Assistants (TAs) for doubt resolution
- (iii) Class PPTs, Practice Questions and Test Questions will be Provided by IIT Mandi Resource Persons
- (iv) The evaluations will be set by IIT Mandi Resource Persons and the assessment will happen on Masai's platforms in the proctored settings.
- (v) The evaluations and current grade benchmarks need to be defined for the students before the start of the course because that will help us in establishing what's the meaning of **scoring 70% in a course**



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c. Course Value Addition:

- (i) Organise campus immersion experiences. Administrative cost will be borne by Masai. Travel & Accommodation cost for students attending campus immersion will be borne by respective student
- (ii) Host the exclusive graduation ceremony for the course graduates. (Administrative Cost will be borne by Masai), Travel & Accommodation cost for students attending the graduation ceremony will be borne by respective students.
- (iii) The certificate should have the CCE, IIT Mandi logo, NSDC logo and Masai's logo.
- (iv) All enrolled students would get domain email addresses from IIT Mandi. All necessary approvals and processes must be completed by May 15th. Additionally, all students enrolled by that date should receive their email IDs by May 15th. If the student drops out midway from the Program, the allocated email address to be deactivated. Charges involved for the creation and maintenance of email ids to be borne by Masai.
- (v) All enrolled students will get an admission letter with CCE IIT Mandi, NSDC and Masai logo. They will also get an I-card with the logos of CCE IIT Mandi, NSDC, and Masai.
- (v) IIT Mandi will explore providing the alumni status who successfully completed the program.

B. NSDC shall be facilitating below mentioned deliverables through its Partner Masai School

a. Candidate Mobilization and Admissions

(i) Proctored Admission Test

- Details: Implement a rigorous, proctored admission test in consultation with CCE IIT Mandi to assess the aptitude and potential of applicants, ensuring that only the most deserving candidates embark on this journey.

(ii) Eligibility Criteria

- Requirement: Open to all students who have successfully completed their 12th grade, inviting a diverse pool of aspiring tech enthusiasts to seize this opportunity.

(iii) Scholarships for the Underprivileged

- Commitment: Offer scholarships to economically weaker sections, reaffirming the belief that financial constraints should never be a barrier to talent and ambition. Scholarships would range from 5%-50% of the course fee. Interested candidates will be required to submit a detailed application, including academic records and proof of financial status, as part of the scholarship application process. Further details on the application procedure, evaluation criteria, and deadlines will be made available on our official website and through our admissions office.

(iv) Joining Kit: A Symbol of Pride

- Contents: Provide a joining kit comprising an ID card, T-shirt, and mug adorned with the logos of CCE IIT Mandi, Masai, and NSDC, symbolizing the unity and collaborative spirit of this venture.

b. Course Propositions

(i) Campus Immersion



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- Experience: Offer a unique campus immersion program, allowing students to spend time on the IIT Mandi campus, engaging with faculty and peers, and experiencing the vibrant academic environment firsthand.
- Fest Invitations

Participation: Extend invitations to students to join various fests at IIT Mandi, providing an opportunity to immerse themselves in the cultural and academic festivities. (Note: Expenses to be borne by students).

(ii) *Guaranteed Outcome*

- Assurance: Students who secure cumulative score of 70% or above will receive guaranteed placement or internship opportunities, reinforcing the commitment to outcome-driven education and the success of each participant.

c. Course Delivery

(a) Tech Platform

- Infrastructure: Utilize Masai's robust tech platform, including the Student Information System (SIS) and Learning Management System (LMS), to facilitate a smooth and efficient learning experience. Enrolments shall be directed to Masai's platform through API Integration.

(ii) Live Classes

- Engagement: Conduct live classes led by IIT Mandi professors, supplemented by Teaching Assistants (TAs) for real-time interaction and doubt resolution.

(iii) Recorded Sessions

- Flexibility: Provide recorded sessions of live lectures for students to review and reinforce their learning at their own pace. Recorded sessions of IIT faculties will be solely owned by IIT Mandi and shall not be used for any commercial purposes.

(iv) Industry Masterclasses

- Exposure: Organize masterclasses with industry experts, scouted by Masai and invited by CCE IIT Mandi, to provide students with insights into real-world applications and trends.

(v) Student Support

- Assistance: Offer dedicated student support and query resolution services through Masai to ensure a smooth learning journey.

(vi) Foundation Courses

- Basics: Include foundation courses for each module, designed by Masai, to ensure students have a strong grasp of the fundamental concepts before diving into advanced topics.

(vii) Weekly Doubt Solving

- Clarity: Provide weekly doubt-solving sessions conducted by IIT Mandi Teaching Assistants, ensuring students have the opportunity to clarify their queries and solidify their understanding.

(viii) Notes and Assignments



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- Reinforcement: Supply comprehensive notes and assignments after each topic, prepared by IIT Mandi faculty, to reinforce learning and facilitate practical application.

d. Assessment Support: Rigorous Evaluation for Guaranteed Outcomes

(i) Proctored Assessments

- Integrity: Conduct assessments on Masai's platform in a proctored setting to maintain the credibility and integrity of the evaluation process.

(ii) Evaluation by IIT Mandi Professors

- Expertise: Ensure that assessments are set and evaluated by IIT Mandi professors, aligning with the highest academic standards.

(iii) Continuous Feedback

- Improvement: Provide continuous feedback to students throughout the course to facilitate ongoing improvement and learning.

(iv) Capstone Projects

- Application: Incorporate capstone projects, designed by Masai in consultation with IIT Mandi, to allow students to apply their knowledge in practical, real-world scenarios.

(v) Placement Readiness

§ Preparation: Offer comprehensive placement readiness modules, including resume building, GitHub portfolio development, and interview preparation, to ensure students are well-equipped for their career journey.

(vi) Benchmark Score

- Standard: Establish clear benchmarks for scores, ensuring students understand the grading criteria and the significance of achieving cumulative score of 70% **or more** for placement guarantees.

e. Terms and Conditions (Eligibility for Job/Internship Guarantee)

§ **Job/Internship Guarantee:** *Minimum CTC [Cost to Company] of 5LPA [Five Lakhs per annum] will be guaranteed* to students who meet the following criteria:

- Scoring :** Students must achieve a cumulative score of 70% **in all five courses**. Grading will be based on the course benchmarks established at IIT Mandi. Further details on benchmarking will be provided on the course website.
- Assignments:** Students must complete 70% of all assignments within the specified timelines announced during the course.
- Attendance** of 70% is mandatory for all live lectures, including industry masterclasses & for revision modules.
- Placement readiness** students must clear the Resume, Portfolio, GitHub Profiles, and Project presentation assessments to be eligible for placements.



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(v) Offer Acceptance : Students must be prepared to accept full-time job/internship offers upon completion of the program.

(vi) Relocation : Students must be open to relocating to any of Tier 1 or Tier 2 cities after completing the course.

(vii) Job / Internship Offer Acceptance : Upon receiving a job offer, students must accept it within stipulated timeframe as mentioned in the offer letter; failure to do so may result in disqualification from the job guarantee program.

(viii) Zero Tolerance for Plagiarism: Students are expected to uphold the highest standards of academic integrity. Any work submitted (including, but not limited to, assignments, projects, and code) must be the original work of the student.

(ix) Consequences of Plagiarism: Violations of the plagiarism policy will result in immediate disciplinary action, which may include, but is not limited to, a failing grade for the assignment/project, a reduction in overall course grade, disqualification from the job/internship guarantee program, and/or expulsion from the course.

(x) Plagiarism Detection: The institution reserves the right to use plagiarism detection software and tools to ensure the integrity of submitted work. Students may be required to submit their work through such tools as part of the submission process.

(xi) Code of Conduct: Professional Behaviour: Students are required to maintain a professional demeanour at all times during the course. This includes interactions with instructors, peers, and industry professionals during live lectures, industry masterclasses, and any other course-related activities.

(xii) Code of Conduct: Respectful Communication: All communications, whether verbal or written, should be conducted in a respectful and courteous manner. Harassment, discrimination, or any form of disrespectful behavior will not be tolerated.

(xiii) Code of Conduct: Compliance with Policies: Students must comply with all additional policies and guidelines outlined by the institution and the course. Failure to adhere to these policies may result in disciplinary action, up to and including removal from the course and disqualification from the job guarantee program.

f. Refund Policy

- (i) If student fulfils all Job / Internship Guarantee criteria's mentioned in point e [I – Xiii Terms and Conditions (Eligibility for Job/Internship Guarantee) of this agreement and in the event that students do not secure employment / Internship within 90 working days following the completion of the program, they will be entitled to a 100% refund.**
- (ii) Masai (Nolan EdTech) commits to issuing a full refund within 7 days of receiving the refund request through the official communication channels provided at the time of enrolment, accompanied by all necessary documentation evidencing their eligibility.**
- (iii) Masai reserves the right to verify these documents as part of the refund eligibility assessment.**



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- (iv) Our primary goal is to equip our students with the skills, knowledge, and opportunities to succeed in their careers. This refund policy underscores our confidence in our program and our unwavering support for our students' career aspirations.

C. NSDC

- (i) Enrolments to be driven by Skill India Digital Hub (SIDH). Agreed revenue split between the Parties to be enabled by the SIDH.
 - (ii) Skill Loan: NSDC will facilitate skill loans to eligible candidates.
 - (iii) NSDC will jointly organize seminars with its Implementing Partner Masai School in all partner colleges to introduce the program, and their dedicated program manager will ensure the participation of college VCs and other decision-makers.
 - (iv) NSDC will host workshops for college VCs at Kaushal Bhavan to raise awareness of the program.
 - (v) NSDC will facilitate meetings with governing bodies as necessary.
 - (vi) NSDC will expedite the NCVET qualification process from a credit perspective.
 - (vii) NSDC will assign one dedicated program manager to ensure the smooth functioning of the program.
2. **Curriculum details:** Any other program related details inclusive of lecture plans, curriculum etc to be finalized by CCE IIT Mandi and Masai and to be included in appendix of this agreement.

3. **Course Fee:** INR 1.95 Lakhs. [One Lakh Ninety Five Thousand only]

4. Financials:

- (i) Revenue split basis the roles and responsibilities shared above:
 - a. For the first batch (~80-100 students), revenue share to be as followed -
IIT Mandi: NSDC : : 50: 50 (NSDC's Revenue Share shall be 5% and 45% of the Revenue to be shared with the Implementing Partner Masai School).
 - b. Post the success (revenue realization) of the first batch, the revenue share is subject to be revised to –
IIT Mandi: NSDC : : 40 : 60 (NSDC's Revenue Share shall be increased to 10% and 50% of the Revenue to be shared with the Implementing Partner Masai School).



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(iii) Kindly note that the mentioned revenue share shall be applicable on the actual fee received post deduction of the subvention fee charged by the lending partner (if applicable).

Illustration for reference:

Loan Tenure---->	12 M	24 M
Fee Amount	195,000	195,000
Loan Amount	195,000	195,000
Subvention Cost*	19,500	35,100
	10%	18%
Net Revenue available for sharing	175,500	159,900

Subvention rate is dependent on the lending partner chosen.



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Appendix

Detailed Curriculum

Course Structure -

Term	Code	Course Title	Credits	Prerequisites
1	MTH101	Mathematics for Data Science	4	None
1	CS101	Programming for Data Engineering	2	None
2	ML101	Machine Learning Fundamentals	4	CS101
2	ML201	Deep Learning and Neural Networks	4	None
3	AI101	Specialised topics in AI/ML	6	ML101, ML201, CS101
3	CSE302	Capstone Project	4	None

Courses Outline

Foundation Course

- Basics of Algebra
 - Introduction to algebraic expressions, equations, and inequalities.
 - Solving linear equations and inequalities.
 - Systems of equations and matrices.
- Functions, Graphs, and Logarithms
 - Understanding functions (linear, quadratic, and polynomial) and their significance in computer science.
 - Introduction to exponential and logarithmic functions and equations.
- Calculus for Data Science
 - Introduction to Derivatives: Understanding the concept of derivatives as rates of change and their applications in data science, including gradient calculations and sensitivity analysis.



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Maximization and Minimization of Functions: Techniques for finding the maxima and minima of functions, critical for optimization in machine learning and statistical modeling.

Basics of Integration: Fundamental concepts of integration, calculating areas under curves, and its applications in probability and statistical analysis.

- **Basics of Probability**

Introduction to probability, including conditional probability and Bayes' theorem.
Important probability distributions.

Python Fundamentals for Data Science

- **Master Python basics:**

Introduction To Python : Variable and Data Type
Mathematical Operator and Comparison Operator
Conditional Statements
While Loops and For Loops
Nested Loops
Lists & Strings
Multidimensional Arrays
Dict, Sets & Tuples
Functions
Classes and Modules

- **Introduction to Python environments**

Jupyter Notebooks
Google Collab

MTH101 - Mathematics for Data Science

- **Overview of AI and ML:** Introduction to AI history, philosophy, and its significance in solving complex problems in various domains.
- **Mathematical Foundations:** Linear algebra, calculus, probability, and statistics essentials for AI and ML.

CS101 - Programming for Data Engineering

- **Data Manipulation and Analysis**

Dive into Pandas for data manipulation: DataFrames, series, data cleaning, and preprocessing techniques.

Explore NumPy for numerical data processing: Array operations, broadcasting, and vectorized computation.

- **Data Visualization Techniques**

Get creative with Matplotlib and Seaborn: Crafting plots, histograms, scatter plots, and interactive visualizations to tell stories with data.

Advanced visualization tools: Introduction to Plotly for dynamic and interactive graphing capabilities.



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ML101 - Machine Learning Fundamentals

- **Supervised Learning:** Understanding the principles of supervised learning algorithms including linear regression, logistic regression, and basic classification algorithms.
- **Unsupervised Learning:** Introduction to clustering, dimensionality reduction techniques, and association rule mining.
- **Ensemble Techniques and Model Selection:** Boosting, bagging, random forest, and bias-variance trade-off.
- **Evaluation Metrics:** Metrics for assessing model performance including accuracy, cover precision, recall, F1 score, and ROC-AUC curve.

ML201 - Deep Learning and Neural Networks

- **Neural Network Fundamentals:** Basics of neural networks, activation functions, and architecture design.
- **Deep Learning Algorithms:** Introduction to Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), Long Short-Term Memory Networks (LSTMs), and Transformers.
- **Frameworks and Tools:** Practical sessions on TensorFlow and PyTorch for building and training deep learning models.
- **Advanced Learning Techniques:** Multi-task learning, self-supervised learning, transfer learning, and consistency regularization.
- **Reinforcement Learning:** Basics of reinforcement learning, policy optimization, and applications in game playing and robotics.

AI101 - Specialized Topics in AI and ML

- **Deep Dive into Generative Adversarial Networks (GANs):** Understanding the architecture and working principles of GANs. Applications of GANs in image generation, style transfer, and more. Hands-on projects involving training simple GANs for specific generation tasks.
- **Natural Language Processing (NLP):** Techniques for text processing, sentiment analysis, machine translation, and chatbot development.
- **Computer Vision:** Fundamentals of image processing, object detection, facial recognition, and image generation with Generative Adversarial Networks (GANs).
- **Advanced Generative Models:** Scene Graphs, and Probabilistic Diffusion Models.
- **Exploring Variational Autoencoders (VAEs):** Introduction to the concept of autoencoders and their use in generative AI. Detailed look at VAEs and their applications in generating high-quality, diverse data samples.
- **Large Language Models (LLMs):** Comprehensive overview of the architecture, training processes, and capabilities of large language models like GPT (Generative Pretrained Transformer) and BERT (Bidirectional Encoder Representations from Transformers). Discussion on their applications in natural language understanding, text generation, and conversational AI.

