

## COURSE PROSPECTUS

**Name of the Course: AI Development Associate**

**Course Code: QG-04-IT-00141-2023-V1-NIELIT**

**Starting Date:** 1<sup>st</sup> February 2024 (Tentative)

**Duration:** 570 Hrs

**Course Coordinator:** Sachin Kumar Dhar Dwivedi

**Last date of Registration: 29<sup>th</sup> January 2024**

### Preamble:

Governments worldwide are working on creating comprehensive national AI strategies to create sustainable, inclusive and positive impact on its citizens, industries and overall societies. However, AI skill crisis is recognized as the biggest barrier for wider AI adoption. There is an urgent need for demystifying AI and democratizing understanding of AI through appropriate AI readiness programs for current & future workforce. A skilled and competent workforce is the foundation for growth of any nation and industries, enabling the economy to adjust to disruptions. An AI driven economy will require a new look at the nation's workforce development approach including ways to empower non tech audience with AI social and tech skills for real world applications.

### Objective of the Course:

- Gain AI technical confidence: Demystify AI and equip the future workforce with the confidence to learn and apply AI skills independently.
- Enhance employability for AI-related jobs: Build necessary technology, career growth and social skills on AI for jobs ahead
- Entrepreneurship Development.

Moreover, the objectives of this course are aligned to the National Policy on Electronics (NPE) by the Govt of India. Please refer this page: <http://meity.gov.in/esdm> for more details.

### Skills gained by the participants after completing the Course:

- **Technical Skills** – Programming and Coding, Data Science, Computer Vision, Natural Language Processing, Algorithmic and Computational Thinking
- **Social Skills** – AI ethics and bias reduction, critical thinking, problem solving, system mapping and solutions building
- **Career Growth Skills** – Self management skills like personal management, growth mindset. Entrepreneurial mindset, design & system thinking. Technical confidence and social emotional skills.

S.No	Module Title	Duration (in Hrs.)
1	<b>Implementation of Basic AI Solution using Python programming language and SMART Framework.</b> <ul style="list-style-type: none"> <li>• SMART component and tell what each acronym means.</li> <li>• AI project cycle</li> <li>• Orange Data Mining Tool</li> <li>• An introduction to Python programming language</li> <li>• Tableau Public</li> </ul>	30
2	<b>Solving use cases using AI models along with building up Entrepreneurial Mindset</b> <ul style="list-style-type: none"> <li>• Introduction to Python libraries</li> <li>• AI models to solve various industry applications using Python.</li> <li>• Design Thinking and AI bias</li> <li>• Entrepreneurial Mindset</li> </ul>	60
3	<b>Realization of Project in AI domains with understanding of AI Project Pitfalls</b> <ul style="list-style-type: none"> <li>• Supervised, Unsupervised, and Reinforcement Learning</li> <li>• Computer Vision, Statistical Data, Natural Language Processing and current applications of the technology</li> <li>• 5 pillars of Social Emotional Skills</li> <li>• AI ethics</li> <li>• Project Pitfalls in relation to the AI project cycle</li> <li>• IoT</li> <li>• Intel's one API library</li> </ul>	150
4	<b>Solving of Real time industrial problem statements using AI</b> <ul style="list-style-type: none"> <li>• Qualify data from multiple sources</li> <li>• Evaluate data for attributes</li> <li>• Bias and variance</li> <li>• Define and qualify AI models</li> </ul>	30
5	<b>Employability Skills</b> <ul style="list-style-type: none"> <li>• Introduction to Employability Skills</li> <li>• Career Development &amp; Goal Setting</li> <li>• Becoming a Professional in the 21st Century</li> <li>• Basic English Skills</li> <li>• Communication Skills</li> <li>• Financial and Legal Literacy</li> <li>• Entrepreneurship</li> <li>• Diversity &amp; Inclusion</li> <li>• Constitutional values – Citizenship</li> <li>• Essential Digital Skill</li> </ul>	60
6	On Job Training / Implementation of AI project in Virtual Environment	240



	<b>Total</b>	<b>570</b>

**Other Details:**

**Course Fees: Course fee is Rs 24,000 + GST (\* Nil for SC/ST Candidates)**

However, the above Training fee shall be refunded on a few special cases as given below:

1. If the course is postponed and the new date is not convenient for the student.
2. If the course is cancelled.

**Registration Fee:** An amount of Rs.500/- (including all taxes as applicable) (non-refundable) should be paid at the time of registering for the course.

**Course Fee Instalment Structure:** - Can be paid in two instalments

**Payment schedule:** The Fee can be paid in two instalments as given below.

<b>Instalment No.</b>	<b>Timeline</b>	<b>Amount (in Rs.)</b>
1	At the time of admission	Rs.12,000/-
2	After two months from the start of the course	Rs.12,000/-

**Prerequisite:** Knowledge of basic Mathematics

**Eligibility:**

Pursuing 1st Year of UG in any discipline/12th Grade Pass/Completed Second Year of the 3-Year diploma in CS/IT/EC/EE/allied after 10<sup>th</sup> .

**Counselling/Admission:** 30/01/2024 to 31/01/2024

**Course Timings:** 02:00 Hrs to 05:00 Hrs in week days.

**Number of Seats: 30**

**Important Dates (Tentative):**

Starting Date for Registration	01/01/2024
Last date to submit application form:	29/01/2024
Counselling/Admission	30/01/2024 to 31/01/2024
Last Date for Payment of Fee	29/01/2024
Commencement of class work:	01/02/2024



### How to apply:

Candidates can apply online using the Google Form link <https://forms.gle/YVGdz3M6Qnwi3ECz6>  
Payment towards the Registration Fee & Course fee can be paid through any one of the following modes:

- **ACCOUNT DETAILS** :**Account Name:** NIELIT Ranchi Tax, **Account No:** 490210210000027 **Branch:** Bank of India, CLUBSIDE, Ranchi **IFSC Code:** BKID0004902
- Pay through UPI Mobile Apps Eg: Google Pay, Paytm, BHIM, Phone Pe

**Note:** Institute will not be responsible for any mistakes done by either the bank concerned or by the depositor while remitting the amount into our account.

**Last date of Registration:** 29<sup>th</sup> January 2024

**Selection of candidates:** Selection is based on a first-come basis (subject to fulfilling the eligibility criteria)

### Admission Procedure:

All interested candidates are required to fill out the Registration form (in Google Form) with the Course fees on or before 8th December 2023. You are required to send the scanned copy (soft copy) of the following documents and make it into a single pdf and send it to mail id: [sachin@nielit.gov.in](mailto:sachin@nielit.gov.in) on or before 8th December 2023.

- Self-attested copy of Degree certificate /Consolidated Mark sheet
- Self-attested copy of Semester mark sheets and College ID (only applicable for candidates who are currently studying)
- Self-attested copy of Govt. issued photo ID card (Only Aadhar Card)
- Passport size photograph
- Screenshot of the Successful Payment of the Registration Fee & Course fee done.

**Discontinuing the course:** No fees under any circumstances shall be refunded in case of a student discontinues the course. No certificate shall be issued if discontinued.

**Mode of Training:** Offline Classroom Based Training

**Certification:** After Successful completion of the course, the examination will be conducted, and accordingly Certificate will be issued.

### Grading Scheme:

Following Grading Scheme (on the basis of total marks) will be followed:

Grade	S	A	B	C	D	Fail
Marks Range (in %)	85 to 100	75 to 84	65 to 74	55 to 64	50 to 54	Below 50



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