NIELIT

National Institute of Electronics and Information Technology, Chennai

Autonomous Scientific Society of Ministry of Electronics & Information Technology (MeitY), Govt. of India, ISTE Complex, 25, Gandhi Mandapam Road, Chennai - 600025

Course Prospectus

NSQF Aligned

Mode: ONLINE (Blended)

Artificial Intelligence Development Associate

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Course Prospectus

Course Name	Artificial Intelligence Development Associate
Course Code	DS191
NSQF Level	4
Duration	570 Hours
Last Date of Registration	23-06-2026
Date of publishing Provisional Selection List	29-06-2026
Last Date of Payment of 1st Installment fee	29-06-2026
Course Start Date	30-06-2026

Preamble:

In the era of intelligent systems and data-driven innovation, the role of the AI Development Associate is more vital than ever. As industries increasingly adopt artificial intelligence to optimize operations, enhance decision-making, and create smarter user experiences, the need for professionals equipped with foundational AI development skills continues to surge. This program is designed to prepare aspiring developers with the essential knowledge and practical capabilities required to contribute effectively to AI projects.

Blending core principles with hands-on application, the AI Development Associate pathway focuses on areas such as machine learning, deep learning, natural language processing, and computer vision. Participants will also gain exposure to modern tools and frameworks used to build and deploy AI-powered solutions. Whether supporting data science teams, building intelligent features, or automating decision workflows, the AI Development Associate serves as a crucial link in the growing AI ecosystem.

Objective of the Course:

The objective of the AI Development Associate program is to equip learners with foundational knowledge and practical skills required to design, build, and deploy intelligent applications using artificial intelligence technologies. This program aims to:

- Introduce key concepts in AI, including machine learning, deep learning, NLP, and computer vision.
- Develop hands-on proficiency with AI tools, libraries, and frameworks.
- Enable learners to solve real-world problems using data-driven approaches.
- Prepare participants for entry-level roles in AI development and further specialization in the AI and data science domain.

Outcome of the Course

After completion of the module, the students shall be able to:

- Create deployable AI models addressing real-world problems effectively and efficiently.
- Gain proficiency in Python, Orange, Tableau, and advanced AI libraries for industry applications.
- Process, evaluate, and extract meaningful insights from structured and unstructured data sources.
- Design fair, transparent, and unbiased AI systems considering societal and ethical implications.
- Cultivate an entrepreneurial mindset to innovate AI-driven solutions for emerging industrial challenges.

Course Structure

Module No.	Module Name	Th.	Pr.	Total
1.	Implementation of Basic AI Solution using Python programming language and SMART Framework.	15	15	30
2.	Solving use cases using AI models along with building up Entrepreneurial Mindset.	25	35	60
3.	Realization of Projects in AI domains with an understanding of AI Project Pitfalls.	70	80	150
4.	Solving Real-time industrial problem statements using AI	10	20	30
5.	Employability Skills	-	-	60
6.	Implementation of AI project in virtual environment / OJT.	-	-	240
Duration in Hours		**120**	**150**	**570**

Course Fee Structure

Fee Component	General / OBC / EWS	SC / ST	Last Date
Registration Fee	Rs.1000/-	NIL	23-06-2026
Tuition Fee Including NSQF Registration & Examination Fee			
1st Installment	Rs.15,500/-	NIL	29-06-2026
2nd Installment	Rs.15,500/-	NIL	29-08-2026
Total	**Rs32000/-**	**NIL**	

Registration Fee - Refund Policy:

> **Non-Refundable if candidate is selected for admission but did not join and if a candidate has applied but not eligible.**

However, the registration fee shall be refunded on few special cases as given below:

1. Candidates are eligible but not selected for admission.
2. Course postponed and new date is not convenient for the student.
3. Course cancelled.

Eligibility

Minimum Educational Qualification and Experience	12th or equivalent **OR** Completed 2nd year of the 3-year diploma in CS / IT / EC / EE / allied after 10th **OR** Previous relevant Qualification of NSQF Level 3.0

Number of Seats

500 - Total

> **Note: Seats are allocated based on the merit of the Qualification.**

How to Apply?

Candidates can apply online in our website **http://nva.nielit.gov.in**. Payment towards non-refundable registration fee can be paid through any of the following modes:

- Payment Gateway
- Online transaction: Account No: 31185720641 Branch: Kottur (Chennai), IFS Code: SBIN0001669.
- GPAY / any UPI, Credit Card

> **Note: The 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: 23-06-2026

Registration Procedure

All interested candidates are required to fill the Registration form online with registration fees of Rs. 1,000/- wherever applicable and with all the necessary information.

Selection Criteria of Candidates

Selection of candidates will be based on their marks in the qualifying examination subject to eligibility and availability of seats.

- The first list of Provisionally Selected Candidates will be published on NIELIT Chennai website **www.nielit.gov.in/chennai/index.php** on **29-06-2026 by 5:00 PM**. In case of vacancy, an additional selection list will be prepared and the selection will be intimated by email only.
- Following documents of candidates will be verified:
    - Qualifying Degree (Consolidated Marksheet / Degree Certificate / Course Completion Certificate), 10th and 12th mark sheet.
    - One passport size photograph.
    - Self-attested copy of Govt. issued photo ID card.
    - AADHAR Copy.
- All provisionally selected candidates have to pay first instalment of Rs. 15,500/- on or before 29-06-2026 by payment mode mentioned above.

Admission

All provisionally selected who have paid the fees full or first instalment and verified by accounts section of NIELIT Chennai will get a welcome message in his login id provided during registration.

> **Note: All Provisionally Selected Candidates have to visit NIELIT Chennai for Certificate Verification. Otherwise their candidature will be cancelled without any intimation.**

The credentials and URL for online portal will be shared through WhatsApp or email.

Discontinuing the Course

- No fees under any circumstances, shall be refunded in the event of a student who have completed the process of admission or discontinuing the course in between. No certificate shall be issued for the classes attended.
- If candidates are not uploading consecutive 3 assignments within assigned time, then their candidature will be cancelled without any notice and all fees paid will be forfeited.
- If candidates are not appearing for any internal examinations / practical their candidature will be cancelled without any notice and all fees paid will be forfeited.

Course Timings

This program is a practical oriented one and hence there shall be more lab than theory classes. The classes and labs are online cloud-based from **10 am to 1:30 pm** and Monday to Friday.

Course Enquiries

Students can enquire about the various courses either on telephone or by personal contact between **9.15 A.M. to 5.15 P.M.** (Lunch time **1.00 pm to 1.30 pm**) Monday to Friday.

Placement

Students who have completed the course successfully and qualified, Placement guidance and career counselling will be given to assist in their interviews.

Important Dates

Activity	Date
Last Date of Registration	23-06-2026
Display of Provisional Selection List	29-06-2026
Payment of first installment fee	29-06-2026
Course Start Date	30-06-2026
Payment of second instalment fee	29-08-2026

Examination & Certification

Final Certificates will be issued after successful completion of all the modules including mini project. For getting certificate a candidate has to pass each module individually with minimum required marks of 50%.

NSQF Examination Pattern:

Means of assessment:

S. No	Examination Pattern	Modules Covered	Duration in Minutes	Maximum Marks
1.	Theory Paper-1	Module 1, 2, 4	90	100
2	Theory Paper-2	Module 3	90	100
4	Practical 1	Module 1, 2, 3, 4	180	90
6	Internal Assessment	Employability Skill	-	30
8	Project	Implementation of AI project in virtual environment / OJT	-	30
Total				**350**

Examination Centre: NIELIT Chennai, **Mode:** Online

Grading Scheme

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

Grade	S	A	B	C	D
Marks Range (in %)	>=85%	>=75% and <85%	>=65% and <75%	>=55% and <65%	>=50% and <55%

Detailed Curriculum

Module 1: Implementation of Basic AI Solution using Python programming language and SMART Framework

- SMART component and tell what each acronym means
- AI project cycle
- Orange Data Mining Tool
- An introduction to Python programming language
- Tableau Public

Module 2: Solving use cases using AI models along with building up Entrepreneurial Mindset

- Introduction to Python libraries
- AI models to solve various industry applications using Python.
- Design Thinking and AI bias
- Entrepreneurial Mindset

Module 3: Realization of Projects in AI domains with understanding of AI Project Pitfalls

- Supervised, unsupervised, and reinforcement learning
- Computer Vision, Statistical Data, Natural Language Processing and current applications of the technology
- 5 pillars of Social Emotional Skills
- AI ethics
- Project Pitfalls in relation to the AI project cycle
- IoT
- Intel's oneAPI library.

Module 4: Solving of Real time industrial problem statements using AI

- Qualify data from multiple sources
- Evaluate data for attributes
- Bias and variance
- Define and qualify AI models

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