

COURSE PROSPECTUS

Name of the Group: IT Group

Name of the Course: **Artificial Intelligence Application Developer**

NSQF aligned course of Level 4.5

Course Code: QG-4.5-IT-00358-2023-V1-NIELIT,

Starting Date: 23-1-2024

Duration: 540 hours / 3 months

Course Coordinator: Dr. Vimala Mathew

Objective of the Course: The Artificial Intelligence (AI) Application Developer Qualification will cover the fundamentals of Python programming and libraries like NumPy and pandas used for data analysis. The course will also cover Visualization with Matplotlib. The course will stress on developing programming skills by providing practical exposure to the aspiring Python developers and also introduce to the concepts of Machine Learning. Participants from any background can develop the skills needed to become an AI Application Developer.

Course Structure:

Sl. No	Module Title	Duration (Hours)			Credit	
		Theory	Lab	Total	Theory	Lab
1	Programming with Python	20	40	60		
2	Conceptualizing Data Science with Python	24	36	60		
3	Visualization	34	56	90		
4	Machine Learning	12	18	30		
5	Accuracy of Machine Learning models	35	55	90		
6	Fundamentals of Deep Learning	25	35	60		
	Total	150	240	390	10	8
7	Employability Skills (B)	60				2
8	Project	60				2
	Total Duration/Credit	150	360	22	22	

Other Contents

I. Course Fees:

General Candidates: Course fee is Rs. 25000/- + all taxes as applicable.

SC/ST Candidates: Tuition Fees are waived for SC/ST students admitted under SCSP/TSP. However, they are required to remit an amount of Rs. 5000/- **as Advance caution/security deposit.** This amount will be considered as caution/security deposit and will be refunded after successful completion of the course. If the student fails to complete the course successfully, this amount along with any other caution/security deposits by the student will be forfeited.

Module wise Course Fee: NA

II. Registration Fee: An amount of Rs.1000/- (including all taxes as applicable) (nonrefundable) should be paid at the time of registering for the course.

This fee shall be considered as part of course fee, if the student joins the course. If a student register and pay for more than one course and join for any one course, all such amount will be adjusted against the course fee payable.

If the student does not join for the registered course / any of the registered courses, fee paid shall be forfeited.

For SC/ST candidates, the registration fee is Rs.500/- and will be considered as part of caution/security deposit and will be refunded after successful completion of the course. If the candidate does not join or fails to complete the course the amount will be forfeited

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

- Course postponed and new date is not convenient for the student.
- Course cancelled in advance, well before the admission date.

III. Course Fee Installment Structure

Students can pay the full fees of Rs. 29500 (Rs.25000 + taxes) in advance or as installments as given below

Fees	*Amount for General Candidates	Amount for SC/ST Candidates. (considered as caution/security deposit)	Due Date (on or before)
Registration Fee	Rs. 1000/-	Rs. 500/-	16/01/2024
**Advance Fee	Rs. 10000/-	Rs. 5000/-	18/01/2024
1 st Installment	Rs. 18500/-	Nil	23/01/2024
2 nd installment	Not applicable		
Total Fee	Rs. 29500/-	Rs. 5500/- (refundable after successful completion of course)	-

*Above fees is inclusive CGST 9% and SGST 9%, and revision, if any by Government shall be applicable at the time of payment.

Fine will be applicable for late fee payment.

** Advance fee - After publication of first selection list, the students in the first selection list have to pay the Advance Deposit within the due date to take the provisional admission. Students in the additional selection list should pay both Advance and First installment fee together on or before counseling day

IV. Eligibility: B.E./B.Tech. /BSc./M.Tech/MSc.in Electronics/Computer Science/IT/or equivalent OR MCA/BCA. (Final Year students can also apply)

V. Number of Seats: 30

VI. Selection of candidates: Based on marks in the qualifying exam.

VII. Test/Interview (if applicable): NA

VIII. Counseling/Admission: 23-Jan-2024

IX. Important Dates (if applicable):

Last date for submitting application : 16-Jan-2024

Selection intimation through mail/website: 16-Jan-2024 (After 5.00 PM)

Counseling/Admission: 23-Jan-2024

X. Course Timings: 9.30 am to 5.30 pm

XI. Placement: Placement assistance will be provided.

XII. Lab Facilities Lab facilities Link may be given to concerned page

The Lab is equipped with Intel Xeon Dual Processor based servers from HP, IBM, DELL, HCL, GPU- Intel Xeon Gold Processor 5120 based workstation with NVIDIA Quadro P5000 16GB, Workstation based on Intel Gold 5220 processor with NVIDIA Quadro RTX 5000 GPU, and 132GB memory, managed gigabit switches and more than 100 networked PCs with 1Gbps internet facility. A variety of software is available which include various flavors of Windows and Linux Operating Systems and various commercial and open source development tools, database and cloud servers, etc.

XIII. Course Contents: [Detailed Course Syllabus /Contents Link](#)

[Click here for General Terms and Conditions – Applicable to all courses](#)