

## **Course Prospectus**

**Name of the Group:** Data Science

**Course Name:** Advanced Diploma in Big Data Analytics

**Course Code:** I 030

**Duration:** 480 Hours, 12 Weeks (08Hours per day)

**Last Date of Registration:** 24-04-2019

**Display of Provisional Selection List:** 25-04-2019

**Payment of fee & Admission:** 26-04-2019

**Start Date:** 01-05-2019

### **Preamble:**

In today's world there is data available in abundance from variety of sources like web server logs, social media, and large databases and from diverse domains like Ecommerce, Medical, Scientific etc. Big data analytics is the process of examining these data to uncover hidden patterns, unknown correlations and other useful information that can be used to make better decisions. Business people, Doctors, Scientists etc. can use this to improve their services. The main challenge to the analysis of big data comes because of the 4 V's— volume, velocity, variety and veracity. For effective analytics, we need to deal with high volume of data of different variety which is being generated in high velocity. The data what is available from such sources is highly unstructured which calls for analytics on the same.

### **Objective:**

The objective is to make the participants capable of identifying and applying appropriate techniques and tools to solve problems in managing huge quantity of data.

### **Outcome of the Course:**

After undergoing this course the participants will become data engineers who can perform analytics operations on data using various tools. They can develop, maintain and evaluate Big Data and machine learning solutions for organizations.

**Course Structure:** (For detailed syllabus Annexure-1)

Sl. No	Module	Duration
1	Linux	01 Week (40 Hours)
2	Java Programming	01 Week (40 Hours)
3	Big Data concepts, Hadoop and MapReduce	02 Weeks (80 hours)
4	Hive, Pig, Sqoop, Flume, Hbase, Spark	01Week (40 Hours)
5	R Programming	02 weeks (80 Hours)
6	Python Programming	02 Weeks (80 Hours)
7	Machine Learning (using R, Python, Spark)	01 Weeks (40 Hours)
8	Project	02 Weeks (80 Hours)
	<b>Total</b>	12 Weeks (480 Hours)

**Registration Fee (Non-refundable):** Rs.500/-

SC/ST: No registration fee

**Eligibility:**

ME/MTech/BE/BTech/MSc/BSc / 3 year Diploma in (IT/Computer Science/Electronics), MCA/BCA /Degree holders with PGDCA or DOEACC A or B level or equivalent to any of these with good computer programming knowledge.

**How to apply:**

- ❖ Registration needs to be done at our Centre before by bringing the following:
  1. Duly filled in registration form
  2. Course fees
  3. Copy of identity proof
  4. Attested copy of community certificate (if availing SC/ST fee concession)

**Last date of Registration:** 24<sup>th</sup> April, 2019

**Batch Size:** 21

**Selection Criteria of candidates**

The selection to the course shall be based on the following criteria:

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

**Discontinuing the course**

- ✓ No fees (including the caution deposit) under any circumstances, shall be refunded in the event of a student discontinuing the course. No certificate shall be issued for the classes attended.

**Fee Payment**

- ✓ **Total Fee: Rs. 27,730/-** (Rupees Twenty-Seven Thousand Seven hundred thirty only including GST, Tuition Fee (including examination fee): Rs. 23,500/- GST: Rs. 4,230/-).
- ✓ **For SC-ST: No Fee**
- ✓ **Security Deposit for SC-ST Candidates: Rs. 4,000.00** (Refundable without interest after successful completion of the course)
- ✓ **Payment Schedule:** The Fee is to be paid in one installment as given below:

<b>Installment No</b>	<b>Last Date for payment</b>	<b>Amount (In Rs.)</b>
1	26-04-2019	27,730.00

**Payment Mode**

- ✓ Online transaction: Account No: 31185720641 Branch: Kottur (Chennai), IFS Code: SBIN0001669.
- ✓ DD drawn from a nationalized bank (preferably SBI) in favour of “NIELIT Chennai” payable at Chennai.

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

**Location and how to reach:** NIELIT Chennai is located at Gandhi Mandapam Raod, Kotturpuram, Chennai (Landmark: Opp. To Anna Centenary Library)



**Address:**

National of Electronics and Information Technology  
ISTE Complex, No. 25, Gandhi Mandapam Road, Chennai – 600025  
E-mail: trng.chennai@nielit.gov.in/Phone: 044-24421445  
Contact Person: Sanjeev Kumar Jha, Mobile: 7765803105

**Examination & Certification**

- ✓ Certification Body: Examination Section, NIELIT Chennai
- ✓ Certificate will be issued after successful completion of the course including mini project. At least 75 % marks are essential for appearing in examination. Examination scheme for is as follows:

**Examination (As per NSQF Norms)**

Theory (130)

- ✓ **Mode:** Online and Multiple-Choice Question
- ✓ **Total Marks: 130**
- ✓ **Number of Questions:130**
- ✓ **Duration: 1½ Hour**

Practical (720)

- ✓ **Total Marks: 720**
- ✓ Project: 700
- ✓ Viva: 20

Class Performance & Viva (150)

- ✓ **Class Performance :35**
- ✓ **Attendance:40**
- ✓ **Viva: 75**

**Grading Scheme**

<b>Grade</b>	<b>Total Marks</b>
S	85% and above.
A	75% – 84%
B	65% – 74%
C	55% – 64%
D	50% – 54%
Fail	< 50%

**Duration:****Date :01-05-2019 To 01-08-2019****Total Hours: 480 Hrs****Total Weeks: 12 Weeks****Total Hours per day: 8 Hrs/Day****Timing:** 9:30 AM to 5:30 PM**Venue & lab:** NIELIT, Chennai Centre**Course in-charge:**

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