

## **Course Prospectus**

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| <p><b>Name of the Group:</b> Data Science</p> <p><b>Course Name:</b> Certified Data Scientist</p> <p><b>Course Code:</b> DS100</p> <p><b>Duration:</b> 240 Hours, 06 Weeks (08Hours per day)</p> <p><b>Last Date of Registration:</b> 24-04-2019</p> <p><b>Display of Provisional Selection List:</b> 25-04-2019</p> <p><b>Payment of fee &amp; Admission:</b> 26-04-2019</p> <p><b>Start Date:</b> 01-05-2019</p> |
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### **Preamble:**

Data Science refers to extraction of knowledge from large volumes of data that are structured or unstructured, which is continuation of data mining and predictive analytics. It involves different categories of analytical approaches for modeling various types of business scenarios and arriving at solution and strategies for optimal decision-making in marketing, finance, operations, organizational behavior and other managerial aspects. This new field of study breaks down into a number of different areas, from constructing big data infrastructure and configuring the various server tools that sit on top of the hardware, to performing the analysis and developing the right transformations to generate useful results.

### **Objective:**

The objective of this course is to provide skill to analysis large sets of data in distributed environment. It covers tools and techniques available to analysis large set of data using clustering.

**Outcome of the Course:** On completion of the Course, the Participants will learn the concept of Big Data Analytics using tools like Hadoop, Hive and Pig in Linux Environment. They will be able to implement industry-oriented Project related to Big Data.

**Course Structure:** (Details in Annexure-1)

| SNO | Topic/Module                                | Duration in Hrs |
|-----|---|-----------------|
| 1.  | Configure Deployment Platform               | 15              |
| 2.  | Analyze and Define Business Requirements    | 15              |
| 3.  | Design and Develop Presentation Layer       | 45              |
| 4.  | Analyze Big Data in Cluster Environment     | 30              |
| 5.  | Analyze Data using Big Data Analytic tools  | 60              |
| 6.  | Manage Real World Data Analytic Application | 60              |
| 7.  | Enhancing Communication Skill               | 15              |

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

SC/ST: No registration fee

**Eligibility:**

Graduate/Undergraduate and knowledge of any computer language, Internet Concepts and Database.

**Batch Size: 26****How to apply:**

1. All interested candidates are required to fill the Registration form online with registration fees on or before the last date.
2. Please submit hard copy of following if applying offline to NIELIT Chennai
  1. Duly filled in registration form
  2. Registration fees
  3. Copy of identity proof
  4. Attested copy of community certificate (if availing SC/ST fee concession)

**Last date of Registration: 25<sup>th</sup> April, 2019**

**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 (including examination fee): Rs. 15,930/-** (Rupees Fifteen Thousand Nine hundred and Thirty only including GST, Tuition Fee: Rs. 13,500/- GST: Rs. 2,430/-).
- ✓ **For SC-ST: No Fee**
- ✓ **Caution Deposit for SC-ST Candidates:** Rs. 2,000.00 (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>Date</b> | <b>Amount (In Rs.)</b> |
|-----------------------|-------------|------------------------|
| 1                     | 26-04-2019  | 15,930.00              |

**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](mailto: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 (300)

- ✓ **Mode:** Online and Multiple-Choice Question
- ✓ **Total Marks: 300**
- ✓ **Number of Questions:150**
- ✓ **Duration: 2½ Hour**

Practical (300)

- ✓ **Total Marks: 300**
- ✓ **Number of Questions: 5**
- ✓ **Duration: 2 Hour**

Project & Viva (375)

- ✓ Project Total Marks : 325
- ✓ Viva Total Marks : 50

Class Performance (75)

- ✓ **Class Performance :30**
- ✓ **Attendance:45**

### Grading Scheme

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

### Duration:

**Date :01-05-2019 To 12-06-2019**

**Total Hours: 240 Hrs**

**Total Weeks: 6 Weeks**

**Total Hours per day: 8 Hrs/Day**

**Timing: 9:30 AM to 5:30 PM**

**Venue & lab: NIELIT, Chennai Centre**

### Course in-charge:

Sh. Sanjeev Kumar Jha,  
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Mobile: 7765803105