Online Courses
Prospectus

ISO 9001-2015 Certified

Data Analytics with Python, R & Hadoop

4th Aug – 3rd Sep 2021
(2 live sessions daily)

Course Description

This is a basic course on Big Data Analytics which will enable the students to use Python / R / Hadoop tools for doing Data Analytics. The course includes online live sessions, assignments and forums.

Theory and Lab sessions (Afternoon) will be provided via web conferencing and VPN.

Click Here to Register

Who can attend?

Anyone who is interested in learning Data Analytics & designed for.

- Students pursuing engineering or any computer science degree,
- Working Professionals.
- Research students
- Teachers

Course Content

No	Major Topics
1	Linux concepts
2	Data analytics - concepts
3	Programming and Data analysis using Python
4	Programming and Data analysis using R
5	Using Hadoop

Prerequisite

Knowledge of Programming Language.

Fee and important dates

Course Fee	Rs. 6000/- (Including GST)
Course Start Date	04th Aug 2021
Course End Date	03rd Sep 2021
Last date for registration and payment	02nd Aug 2021
Sharing of course page	04th Aug 2021

Detailed Syllabus and time table (Session wise)

No	Date	Time	Topic (Faculty)
1	04 Aug 2021	02:00PM-03:00PM	Data Analytics – Introduction (VM)
2	04 Aug 2021	03:30PM-04:30PM	Lab Session (PKG)
3	05 Aug 2021	02:00PM-03:00PM	Linux –Concept, Commands etc. (PKG)
4	05 Aug 2021	03:30PM-04:30PM	Linux Lab Session (PKG)
5	06 Aug 2021	02:00PM-03:00PM	R Programming basics (VM)
6	06 Aug 2021	03:30PM-04:30PM	R Lab Session (VM)
7	09 Aug 2021	02:00PM-03:00PM	Linux – native tools for data analysis (PKG)
8	09 Aug 2021	03:30PM-04:30PM	Linux Lab Session (PKG)
9	10 Aug 2021	02:00PM-03:00PM	Python programming (PKG)
10	10 Aug 2021	03:30PM-04:30PM	Python Lab Session (PKG)
11	11 Aug 2021	02:00PM-03:00PM	Reading/manipulating data in R –I (VM)
12	11 Aug 2021	03:30PM-04:30PM	R Lab Session (VM)
13	12 Aug 2021	02:00PM-03:00PM	Data structures in Python (PKG)
14	12 Aug 2021	03:30PM-04:30PM	Python Lab Session (PKG)
15	13 Aug 2021	02:00PM-03:00PM	Introducing Hadoop, HDFS (RCB)
16	13 Aug 2021	03:30PM-04:30PM	Python / Hadoop Lab Session (PKG/ RCB)
17	16 Aug 2021	02:00PM-03:00PM	R – Data Visualization (VM)
18	16 Aug 2021	03:30PM-04:30PM	R Lab Session (VM)
19	17 Aug 2021	02:00PM-03:00PM	Hadoop – Developing programs (RCB)
20	17 Aug 2021	03:30PM-04:30PM	Hadoop Lab Session (RCB)
21	18 Aug 2021	02:00PM-03:00PM	OOP, Database programming in Python (PKG)
22	18 Aug 2021	03:30PM-04:30PM	Python Lab Session (PKG)
23	24 Aug 2021	02:00PM-03:00PM	R – Correlation, Regression (VM)
24	24 Aug 2021	03:30PM-04:30PM	R Lab Session (VM)
25	25 Aug 2021	02:00PM-03:00PM	Hadoop- Mapreduce I (RCB)
26	25 Aug 2021	03:30PM-04:30PM	Hadoop Lab Session (RCB)

No	Date	Time	Topic (Faculty)
27	26 Aug 2021	02:00PM-03:00PM	R- Probability & Statistics (VM)
28	26 Aug 2021	03:30PM-04:30PM	R Lab Session (VM)
29	27 Aug 2021	02:00PM-03:00PM	Introduction to ML in R (VM)
30	27 Aug 2021	03:30PM-04:30PM	R Lab Session (VM)
31	31 Aug 2021	02:00PM-03:00PM	Python – numpy module (PKG)
32	31 Aug 2021	03:30PM-04:30PM	Python Lab Session (PKG)
33	01 Sep 2021	02:00PM-03:00PM	Hadoop- Mapreduce II (RCB)
34	01 Sep 2021	03:30PM-04:30PM	Hadoop Lab Session (RCB)
35	01 Sep 2021	02:00PM-03:00PM	Python – Data analysis using pandas (PKG)
36	01 Sep 2021	03:30PM-04:30PM	Python Lab Session (PKG)
37	02 Sep 2021	02:00PM-03:00PM	Hadoop- Mapreduce III (RCB)
38	02 Sep 2021	03:30PM-04:30PM	Hadoop Lab Session (RCB)
39	03 Sep 2021	02:00PM-03:00PM	Plotting using matplotlib, seaborn (PKG)
40	03 Sep 2021	03:30PM-04:30PM	Python Lab Session (PKG)

Faculty Profile

Qualification and experience of the faculty handling the sessions

- Ms. Vimala Mathew, Scientist/Engineer 'E' (VM)
- Ms. Reshma C. B., Senior Technical Officer (RCB)
- Mr. Prasoon Kumar KG, Principal Technical Officer (PKG)

Course Coordinator

Prasoon Kumar KG
Principal Technical Officer
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Certificate

Participation Certificate will be issued to all candidates who complete the program successfully.

Minimum Requirements

Attendees must have a computer system with a good internet connection.

For more details

For more details contact itcourses@calicut.nielit.in
9446732691 (from 9.00AM to 5.30PM)

Terms and Conditions

1. In case any registered candidate could not attend the online session due to technical issue at their side there will not be any refund of the course fee and the sessions will not be repeated.

2. In case the online course is cancelled /postponed due to some technical issue at   NIELIT side and new date is not convenient to the candidate, our liability is limited   to the refund of the course fee and NIELIT shall not be responsible for any consequential damages.

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