

NOTICE

Registrations for Value added Course-Data Analytics

February 14, 2020

Applications are invited for the below mentioned Value Added Course offered by AICPA-CIMA:

Course	Duration	Fee
Data Analytics with R	30 hours	Rs.11,800(including GST)

The registrations for the course are open for all the students of Undergraduate Programme- B.Com.(Hons.) and B.A. (Hons.) and Postgraduate Programme- M.Com. and G.B.O.

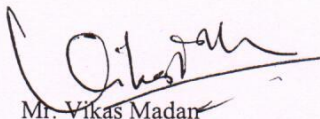
Interested students are required to fill in the registration form latest by Feb 20, 2020 till 5:00 p.m.

Registration form can be accessed using the following link:

<https://forms.gle/fgxBthzArEXwWvXF8>

Details regarding course content and schedule of classes are attached herewith.

For any queries related to the course, kindly mail to: valueaddedatsrcc@srcc.du.ac.in



Mr. Vikas Madan

Convenor (In-charge)

Value Added Courses

Enclosures:

Annexure I: Detailed Course outline

Annexure II: General Guidelines

Annexure III: Tentative Schedule of classes

Sl. No.	Module Name	Topics	Duration
1	Introduction to Data Analytics – and R	<ul style="list-style-type: none"> ➤ Introduction to Artificial Intelligence and Data Analytics ➤ Factors driving surge in popularity of Data Analytics. ➤ Data Analytics Use Cases from multiple industries. ➤ Data Ecosystem of an Organisation. ➤ Difference between Business Analytics and Data Analytics ➤ Skill set for Data Analytics professional. ➤ Reasons for growing popularity of R. ➤ Basics of R language ➤ Introduction to R Ecosystem and Community ➤ R in comparison to other analytics tools 	2 Hours
2	Installation of R Studio and Packages	<ul style="list-style-type: none"> ➤ Installation of R Studio ➤ Installation of packages in R ➤ Basic operations using R Studio. 	1 Hour
3	R programming – Basics I	<ul style="list-style-type: none"> ➤ Data types in R – vectors, matrix, arrays, lists, data frames. ➤ Basic Data manipulation 	2 Hours
4	R programming – Basics II	<ul style="list-style-type: none"> ➤ Use of built in functions in R like, seq(), cbind(), rbind(), merge() ➤ Summarise and interpreting data using functions like, str(), class(), length(), nrow(), ncol() ➤ Inspecting data frames with functions like, head(), tail() 	2 Hours
5	R Programming – Basics III	<ul style="list-style-type: none"> ➤ For and While Loops in R 	2 Hours
6	Data Manipulation	<ul style="list-style-type: none"> ➤ Steps in Data Cleaning ➤ Data Inspection ➤ Tackling the issues arising during data cleaning. ➤ Use of string manipulation functions like grepl(), grep(), sub() ➤ Data coercion ➤ Use of apply() family of functions. 	2 Hours
7	Data Importing into R	<ul style="list-style-type: none"> ➤ Import data from spreadsheets, CSV and text files into R. ➤ Import data from different file statistical formats like sas7bdat, spss. ➤ Install packages for database import. ➤ Connect with RDBMS from R and perform basic functions. 	2 Hours

Sl. No.	Module Name	Topics	Learning Outcome
8	Exploratory Data Analysis and Data Visualisation	<ul style="list-style-type: none"> ➤ Exploratory Data Analysis (EDA) – Concepts ➤ Performing EDA on datasets ➤ Co-relation function cor() in R ➤ Use of packages for EDA in R ➤ Use of Plot function ➤ Creating various graphs like, boxplot, density plot and histogram. 	2 Hours
9	Visualisation II	<ul style="list-style-type: none"> ➤ Lattice package for Visualisation ➤ GGplot2 package for visualisation ➤ Decision making through plots 	3 Hours
10	Data Analysis Project Management	<ul style="list-style-type: none"> ➤ Steps in Data Analysis Project Management Life Cycle. 	1 Hour
11	Data Mining I	<ul style="list-style-type: none"> ➤ K-means Clustering ➤ Hierarchical Clustering 	3 Hours
12	Data Mining II	<ul style="list-style-type: none"> ➤ Association Mining Rule 	2 Hours
13	Data Mining III	<ul style="list-style-type: none"> ➤ Linear Regression ➤ Decision Tree - Regression 	3 Hours
14	Data Mining IV	<ul style="list-style-type: none"> ➤ Logistic Regression ➤ Decision Tree – Classification ➤ Random Forest 	3 Hours

Annexure II

General Guidelines-Value Added Courses

1. Tentative Timelines:

Registration opens: 15 February, 2020

Registration closes: 20 February, 2020

Submission of fee opens: 20 February, 2020

Submission of fee closes: 21 February, 2020

Announcement of Batches: 22 February, 2020

Commencement of Classes: 23 February, 2020

2. The students are advised to read the guidelines, annexures as well as the embedded instructions in the registration forms very carefully before proceeding.
3. The admission for a course will be done on first come first serve basis.
4. The names of the selected students will be put up in a separate notice. A waiting list will also be displayed in the same notice. A mail will also be sent from valueaddedarcc@srcc.du.ac.in to selected students intimating them of their selection.
5. The selected candidates will be required to pay fee in full upon confirmation of their selection.
6. The fee once paid shall not be refundable or transferable.
7. On the commencement of the course, it is mandatory for the students to attend all the classes pertaining to the course.
8. The total duration of the course shall be 30 hours. The classes will be held on non-teaching days.
9. AICPA-CIMA will conduct the exam and also evaluate the same during the course and at the end of course.
10. The certificate shall be provided by AICPA-CIMA to the students upon successful completion of the course.
11. AICPA-CIMA/ VAC Committee reserves the right to alter, modify or change the content as it deems fit without assigning any reasons to the students.

Annexure III

Tentative Schedule of the Sessions

Total duration: 30 hours

Session	Date	Time
Session 1	23.02.2020 (Sunday)	9:00 am-12:30 pm
Session 2	29.02.2020 (Saturday)	2:00 pm -5:30 pm
Session 3	01.03.2020 (Sunday)	9:00 am-12:30 pm
Session 4	22.03.2020 (Sunday)	9:00 am-12:30 pm
Session 5	28.03.2020 (Saturday)	2:00 pm -5:30 pm
Session 6	29.03.2020 (Sunday)	9:00 am-12:30 pm
Session 7	02.04.2020 (Thursday)	9:00 am-12:30 pm
Session 8	05.04.2020 (Sunday)	9:00 am-12:30 pm
Session 9	06.04.2020 (Monday)	9:00 am-12:30 pm
Session 10	10.04.2020 (Friday)	9:00 am-12:30 pm
Session 11	11.04.2020 (Saturday)	2:00 pm -5:30 pm
Session 12	12.04.2020 (Sunday)	9:00 am-12:30 pm
Session 13	18.04.2020 (Saturday)	2:00 pm -5:30 pm

* There will be a break of 15-20 minutes in between each of the sessions.