



Electronics & ICT Academy

(Under Ministry of Electronics and Information Technology (MeitY), Govt. of India)

Indian Institute of Technology Guwahati, Guwahati, Assam, Pin 781039

Phone: +91-361-2583182/+91 7086502139

Email: eictacad@gmail.com, eictacad@iitg.ac.in

Faculty Development Programme on “Data Analytics using R Programming”

Venue: Department of Business Administration, Gauhati University.

Date: 08 - 12 January, 2019.

Reporting time on 08th January is 09:00 am.

Date	Time	Topic
08-01-2019 (Day 1)	09.00 am - 09.30 am (30 minutes)	Registration & Reporting
	09.30 am - 10.00 am (30 minutes)	Inauguration
	10.00 am - 10.15 am	Tea Break
	10.15 am - 01.15 pm (3 Hours)	Introduction to R <ul style="list-style-type: none"> • Installing R • R Console
	01.15 pm - 02.00 pm	Lunch Break
	02.00 pm - 04.00 pm (2 Hours)	Introduction to R <ul style="list-style-type: none"> • R Studio • R Commander
	04.00 pm – 04.15 pm	Tea Break
	04.15 pm – 05.15 pm (1 Hour)	R Concepts <ul style="list-style-type: none"> • Script • History • Workspace
	05.15 pm – 05.30 pm	MCQ - 01
09-01-2019 (Day 2)	09.30 am - 11.00 am (1 Hour 30 minutes)	Data Structures <ul style="list-style-type: none"> • Vector • Array • Matrix
	11.00 am - 11.15 am	Tea Break
	11.15 am - 01.15 am (2 Hours)	Data structures (contd.) <ul style="list-style-type: none"> • List • Factor
	01.15 pm - 02.00 pm	Lunch Break
	02.00 pm - 03.00 pm (1 Hour)	Importing Data into R Exporting Data from R
	03.00 pm - 04.00 pm (1 Hour)	Graphical Analysis <ul style="list-style-type: none"> • Box Plot • Pie Chart
	04.00 pm – 04.15 pm	Tea Break
	04.15 pm – 05.15 pm (1 Hour)	Graphical Analysis (contd.) <ul style="list-style-type: none"> • Histogram • Bar Chart
	05.15 pm - 05.30 pm	MCQ - 02

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10-01-2019 (Day 3)	09.30 am - 11.00 am (1 Hour 30 minutes)	Testing of Hypothesis • Independent Sample T Test • Anova • Paired Sample T Test
	11.00 am - 11.15 am	Tea Break
	11.15 am - 01.15pm (2 Hours)	Correlation
	01.15 pm - 02.00 pm	Lunch Break
	02.00 pm - 04.00 pm (2 Hours)	Linear Regression Analysis • Unstandardized coefficients • Model Fit
	04.00 pm – 04.15 pm	Tea Break
	04.15 pm – 05.15 pm (1 Hour)	Linear Regression Analysis (contd.) • Coefficient of determination • Error in Model
	05.15 pm - 05.30 pm	MCQ - 03
11-01-2019 (Day 4)	09.30 am - 11.00 am (1 Hour 30 minutes)	Time Series Analysis • Type of variation • Forecasting data
	11.00 am - 11.15 am	Tea Break
	11.15 am - 01.15 pm (2 Hours)	Time Series Analysis (contd.) • Cause and Effect • Error in Model
	01.15 pm - 02.00 pm	Lunch Break
	02.00 pm - 04.00 pm (2 Hours)	Statcraft using R
	04.00 pm – 04.15 pm	Tea Break
	04.15 pm – 05.15 pm (1 Hour)	Statcraft using R (contd.)
	05.15 pm - 05.30 pm	MCQ - 04
12-01-2019 (Day 5)	09.30 am - 11.00 am (1 Hour 30 minutes)	Modelling • Types of Models • Classification
	11.00 am - 11.15 am	Tea Break
	11.15 am - 01.15 pm (2 Hours)	Modelling (contd.) • Segmentation • Association
	01.15 pm - 02.00 pm	Lunch Break
	02.00 pm - 04.00 pm (2 Hours)	Case Study Discussion
	04.00 pm – 04.15 pm	Tea Break
	04.15 pm - 05:00 pm (1 Hour)	Project Session and MCQ - 05
	05.00 pm - 05.30 pm	Closing Ceremony and Certificate Distribution