R for Beginners

Online Training Course from 24 to 29 January 2022

Mon - Tue - Thur - Fri - Sat | 04:00 PM to 06:00 PM IST | using Google Meet

Dear madam or sir,

Thank you for registering for this online training course. We would like to welcome all participants. Please go through a few guidelines to follow while attending this course:

- You should bring to the sessions a working laptop, good internet and a lot of curiosity.

- Your humble, interactive and peaceful participation is expected.

- Join each session before five minutes using this Google Meet Link is https://meet.google.com/igu-qsjg-ndi

- This link is created only for you. Kindly do not share with anyone else.

- Your mobile number will be used to create a WhatsApp group to share the screenshot of outputs and errors.

- Each module details are shared on page number 2.

- After every session, you will receive the session slides and video recording.

- There will be two assessments that strictly follow the deadline.

- Your formal feedback will be taken at the end of the course.

Professor Remi Thomas is the coordinator of this course. Kindly contact him for administrative queries. And, your questions related to the course modules should come to me.

We are very excited to meet you all.

All best wishes,

Dr Ajay Kumar Koli | Resource Person

✉ ajay.koli@vupune.ac.in
🌐 https://ajaykoli.netlify.app
🐦 https://twitter.com/koliajaykr
in https://www.linkedin.com/in/ajay-kumar-koli-893702a4/

Prof. Remi Thomas | Coordinator

✉ remi.thomas@vupune.ac.in
📱 99708 55213
in https://www.linkedin.com/in/remijthomas/

Session Schedule		
Day & Date	**Module**	**Topics**
Day 1 24 Jan 2022 04:00 to 06:00 PM	Introduction to R & RStudio	1. Why R? 2. Why RStudio? 3. What are R packages? 4. Using RStudio projects 5. R data science framework
Day 2 25 Jan 2022 04:00 to 06:00 PM	Dynamic Documents using R Markdown	1. What is R Markdown? 2. YAML 3. Code Chunk 4. Text 5. Insert images 6. Make tables 7. Mathematics equations
Assessment - 1 (25 marks)		
Day 3 27 Jan 2022 04:00 to 06:00 PM	Data Visualisation using ggplot2	Introduction to ggplot2 1. Aesthetic mapping 2. Geometric objects 3. Colour scales & legends 4. Facets 5. Statistical summaries 6. Position adjustments 7. Maps, Annotations 8. Themes 9. Bar chart, Histogram, Correlogram
Day 4 28 Jan 2022 04:00 to 06:00 PM	Data Wrangling using dplyr	1. Introduction to dplyr and pipes 2. Export and import data sets 3. Levels of measurement of variables 4. Rows selection from data 5. Column selection from data 6. Grouping and summarizing data
Day 5 29 Jan 2022 04:00 to 06:00 PM	Slide Crafting using xaringan	1. Preparing HTML slides using R package xaringan 2. Applying different styles to slides using xaringanthemer 3. Enhancements and extensions for slides using xaringanExtra
Assessment - 2 (25 marks)		