



RUKMINI DEVI

Institute of Advanced Studies

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DOSSIER

On

Internal FDP on Analytics using R

R&D Board

On

December 10 , 2018



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Mr. Miklesh Prasad Yadav

Asst. Professor, RDIAS

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Director, RDIAS

FORM A

Proposal :

- **Name Of the event to be organized :** Internal FDP on Analytics using R
- **Date :** December 10 , 2018
- **Time :** 1:00 to 4:00
- **Venue :** LAB 3, RDIAS
- **Organized By:** R&D Board
- **Motivation for the activity :** The purpose of the FDP was to make the participants aware about RStudio and Outcome Based Education (OBE) with practical exposure and hands on experience. Mr. Miklesh Yadav and Dr. Anshu Lochab were the speakers for the session. In current juncture of research world, everyone wants to follow R and RStudio along with OBE in their teaching notes. Keeping this in the mind, RDIAS organized FDP on Analytics using R and OBE. Thus, the primary objective of this FDP was to enhance the research capabilities in terms of applying statistical tools based on R.

Form B

Part 1

Aim of the event :

In current juncture of research activities, research is oxygen due to which the paramount requirement for the researchers is to analyse their research work using proper statistical tool. Similarly, on the other hand, teaching with proper course outcome and programme outcome is mandatory. Hence, the FDP on Analytics using R and OBE was organized. It is more important to enrich the intellectual capital by focusing on new knowledge integrated with the tools. Knowledge of applied research tools and methodology along with the use of software helps in integrating research and practice. To enrich the research skills of faculty members and research scholars, RDIAS conducted a Five Days FDP on “Analytics using R and OBE” on December 10-14, 2018.

Part 2

Abstract :

The FDP started with a brief welcome to all the participants by Ms. Supriya Sardana, Asst. Professor, RDIAS. The speakers for the FDP were Mr. Miklesh Yadav and Dr. Anshu Lochab. A warm welcome was given by Director sir for the speakers. Mr. Miklesh Yadav delivered lectures on December 10-12, 2018 on Analytics using R and Dr. Anshu Lochab delivered lecture on outcome based education on December 13-14, 2018. Mr. Miklesh covered R and Rstudio in these three days. R is a free, open-source software and programming language developed in 1995 at the University of Auckland as an environment for statistical computing and graphics (Ihaka and Gentleman, 1996). Since then R has become one of the dominant software environments for data analysis and is used by a variety of scientific disciplines, including soil science, ecology, and geoinformatics. R is particularly popular for its graphical capabilities, but it is also prized for its GIS capabilities which make it relatively easy to generate raster-based models. More recently, R has also gained several packages which are designed specifically for analyzing soil data. He enlightened the session with sharing the knowledge related with R and RStudio. Another speaker for rest two days was Dr. Anshu Lochab who delivered a lecture on outcome based education. She started the session with one of the surveys in which it was required to read it. Outcome-based education (OBE) is an educational theory that bases each part of an educational system around goals (outcomes). By the end of the educational experience, each student should have achieved the goal. There is no single specified style of teaching or assessment in OBE; instead, classes, opportunities, and assessments should all help students achieve the specified outcomes. The role of the faculty adapts into instructor, trainer, facilitator, and/or mentor based on the outcomes targeted she spoke about basic of research and its different phases. Outcome-based methods have been adopted in education systems around the world, at multiple levels. Australia and South Africa adopted OBE policies in the early 1990s but have since been phased out. The United States has had an OBE program in place since 1994 that has been adapted over the years. In 2005, Hong Kong adopted an outcome-based approach for its universities. Malaysia implemented OBE in all of their public schools systems in 2008. The European Union has proposed an education shift to focus on outcomes, across the EU. In an international effort to accept OBE, The Washington Accord was created in 1989; it is an agreement to accept undergraduate engineering degrees that were obtained using OBE methods. As of 2017, the full signatories are Australia, Canada, Taiwan, Hong Kong, India, Ireland, Japan, Korea, Malaysia, New Zealand, Russia, Singapore, South Africa, Sri Lanka, Turkey, the United Kingdom, Pakistan, China and the United States. She covered about setting up question paper, writing course outcome, programme outcome and others.

Part 3

Conclusion

The five days FDP enriched all the participants with rigorous learning on R, RStudio and OBE. The FDP was very well appreciated by all the participants and equipped all the participants with new tools and techniques to apply in their respective research areas. Apart from this, both the speakers also talked about how to interpret the results derived from these statistical tools and OBE. Overall, the FDP proved to be highly fruitful, enjoyable and great learning experience for the entire participants.

SnapShot



Dr. Anshu Lochab taking session on OBE



Mr. Miklesh Yadav taking session on R