

On-line Training Programme on “Analysis of Experimental Data Using R” –Successfully completed at ICAR-NAARM

Date: 11-8-2020

The ICAR- National Academy of Agricultural Research Management (NAARM) successfully organized 6-day **On-line Training Programme on “Analysis of Experimental Data using R during 5-11, August, 2020**. The training programme aimed at improving data analytics skills of scientists of National Agricultural Research and Education System, attracted more than 200 participants, out of which, 168 have successfully completed the course. There were 106 participants from ICAR, 58 participants from SAUs and 4 from other Government/private industries. The course covered from basic experimentations in agricultural research to visualizing, analyzing data from experimental data using various statistical tools. Emphasis were given on interpretation of results using datasets related to agricultural experiments. The course has also covered some advanced tools such as Response Surface Methodology. The training was coordinated by Dr. A. Dhandapani and Dr. S. Ravichadran of the Academy.

Dr. Ch. Srinivasa Rao, Director, ICAR – NAARM interacted with the participants on the last day and was happy to note that a large number of participants were able to join this on-line

```
1 #comparing two cluster methods
2 #Average linkage vs ward's
3 #uses ClusterAnalysis1.R distance measure
4
5 #library dendextend
6 #library(dendextend)
7
8 cluster.result1 <- hclust(cluster.dist,method="average")
9 cluster.result2 <- hclust(cluster.dist,method="ward.D")
10 fig1 <- as.dendrogram(cluster.result1)
11 fig2 <- as.dendrogram(cluster.result2)
12 fig.list <- dendlist(fig1,fig2)
13 tanglegram(fig.list)
14 # correlation between two trees
15 cor.dendlist(fig.list, method = "cophenetic")
16
17
```

Participants list:

Name	Joining time / Learning Date
Ash Kumar Panda	2:24 PM / 4:42 PM
Vidhu B	2:24 PM / 4:42 PM
Dr CA Nimbalkar	2:24 PM / 4:42 PM
DHANANJAY N GAW...	2:24 PM / 4:42 PM
Sandeep Choudhri	2:24 PM / 4:42 PM
Devarasani Rajam...	2:24 PM / 4:42 PM
Raghendra Singh	2:24 PM / 4:42 PM
Dr P Krishnamoorthy ...	2:24 PM / 4:42 PM
M Chandrasekhar	7:14 PM / 4:42 PM

course. In the feedback survey conducted by the Academy, more than 90 percent have rated highly satisfactory on the contents, overall learning from the course. Dr. Rao has also appreciated that participants from all age-group have shown interest which shows that learning is a lifelong process. Dr. Rao has also stressed the importance of analyzing data properly so that meaningful conclusions can be arrived at.