

# National Level On-line FDP

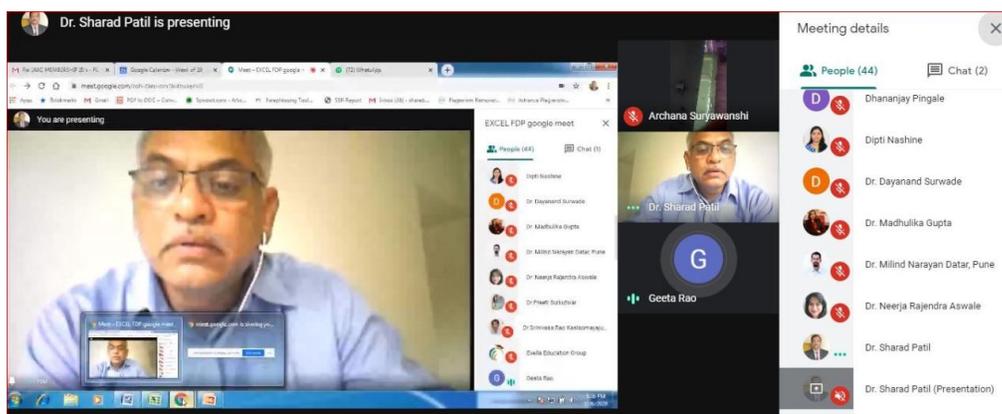
on

## HYPOTHESIS TESTING USING MS-EXCEL

Now a Day Research plays key role in every sector. As an educational institution it's our responsibility to provide support. Keeping this APIMR organized a National Level Faculty Development Program on "Hypothesis Testing Using MS-Excel" on 25<sup>th</sup> and 26<sup>th</sup> of July 2020. Due to the pandemic situation this was an online FDP for this Google meet platform was used. Students, research scholar and faculty were benefited with this opportunity.

To learn different hypothesis testing using excel for research APIMR in association with Research Stars Murty Educational Community Center of youth, Kothapeta, Andhra Pradesh organized National Level On-line FDP.

The research person was Dr. Sharad Patil, Professor Sandeep University, academic stalwart with 30+ years of national and international academic experience.



**Overall 57 candidates participated in this from various parts of India.**

### **Maharashtra:-**

Pune : - 37

Rest Maharashtra : - 06

### **Rest of India:-**

Goa : - 02

Andhra Pradesh : - 04

Karnataka : - 02

Sikkim : - 01

Tamil Nadu : - 02

Rajasthan : - 01

West Bengal : - 01

### Foreign:-

Dubai :- 01

The screenshot shows a Zoom meeting interface. On the left, a presentation window displays an Excel spreadsheet with regression analysis data. The spreadsheet includes columns for variables X, Y, and Z, and rows for regression coefficients. The regression equation is  $y = 0.191336x + 0.909268z + 1$ . The coefficient of determination is  $R^2 = 0.100893$ . On the right, the Zoom meeting details panel shows 43 people in the meeting and 2 chat messages. The list of participants includes Murthy BSR (You), Ajay Meshram, anant bhamkar, Archana Raut, Archana Suryawanshi, D DilipKumar, deena kumar, and Deepali Shah.

In this Session different hypothesis testing session were taken such as anova (one way, 2 way) T test Z-test etc. practical session learnt by the participants.

The screenshot shows a Zoom meeting interface. The main content is a slide titled "Coefficients" with the following text:

The regression line is:  $y = \text{Quantity Sold} = 8536.214 - 835.722 * \text{Price} + 0.592 * \text{Advertising}$ .

In other words, for each unit increase in price, Quantity Sold decreases with 835.722 units.

For each unit increase in Advertising, Quantity Sold increases with 0.592 units. This is valuable information.

You can also use these coefficients to do a forecast. For example, if price equals 4 and Advertising equals 3000, you might be able to achieve a Quantity Sold of  $8536.214 - 835.722 * 4 + 0.592 * 3000 = 6970$ .

The Zoom meeting details panel on the right shows 44 people in the meeting and the time is 5:29 PM. The list of participants includes Archana Suryawanshi, Dr. Sharad Patil, and yogesh Bhowte.

It was really helpful session for researchers. Feedback was taken from the participants and after analyzing it noted that overall more than 85% participated given very good and excellent remarks. So hence we can say that the Programme was successfully conducted by APIMR.