

# **THE GANDHIGRAM INSTITUTE OF RURAL HEALTH AND FAMILY WELFARE TRUST**

**(An Autonomous body under the Ministry of Health and Family Welfare,  
Government of India, New Delhi)**



**GIRH & FWT**

## **STATISTICAL TRAINING PROGRAMME IN DATA ANALYTICS REPORT**

**Training duration: October 6th to 8th, 2025**

**Venue: Committee Hall, GIRH & FWT**

## 1. Introduction

The Gandhigram Institute of Rural Health and Family Welfare Trust, in partnership with the Honeybee Population Healthcare Foundation, successfully conducted a three-day offline training programme on basic statistical methods and data analytics from October 6th to 8th, 2025. The programme aimed to enhance participants' analytical skills using tools like Excel, Epi Info, QGIS and Looker Studio, with a focus on practical applications in public health and research.

## 2. Objectives

- To introduce basic and statistical concepts
- To provide hands-on training in Excel, Epi Info, QGIS and Looker Studio
- To build capacity for data-driven decision-making

## 3. Participants

- Total Participants: 15
- Backgrounds: Public health professionals and Students
- Regions Represented: Neighboring districts in Tamil Nadu and Karnataka

## 4. Training Highlights

- Interactive lectures, Pre-test, Post-test and Quizzes at the end of sessions
- Hands-on sessions using Excel, Epi Info, QGIS and Looker Studio
- Real-time data entry and analysis exercises
- Personalized guidance for beginners

## 5. Feedback Summary

### Based on participant responses:

- **Participation & Interaction:** 62% very satisfied
- **Quality of the accommodation:** 85% rated as "Excellent"
- **Most likes about the training:** 31% rated for both "Teaching Quality & Clarity" and "Software Tools"
- **Overall Experience:** 69% rated as "Excellent"

## **6. Suggestions for Improvement**

- Most of comments received positively
- Extend training duration to one week
- Improve refreshment quality and break time
- Include more advanced statistical modules
- Enhance speaker diversity and depth of content

## **7. Conclusion**

The training programme was well-received and met its core objectives. The collaboration between The Gandhigram Institute of Rural Health and Family Welfare Trust and Honeybee Population Healthcare Foundation proved effective in delivering quality education and practical skills. Future programmes may benefit from extended duration and expanded content based on participant feedback.

## **8. Attachments**

- Participant list
- Programme schedule
- Feedback summary charts
- Photos from the training sessions

**Participant list:**

| <b>PARTICIPANT NAME</b> | <b>DISTRICT</b> | <b>STATE</b> | <b>CURRENT STATUS</b> | <b>NAME OF THE ORGANIZATION</b>    |
|-------------------------|-----------------|--------------|-----------------------|------------------------------------|
| Dr. MANI MEGALAI        | Dakshina        | Karnataka    | Working               | Yenepoya (Deemed to be University) |
| Mr. RAJA RAM R          | Bangalore       | Karnataka    | Working               | Yenepoya (Deemed to be University) |
| Mr. AATHIPATHI B        | Madurai         | Tamil Nadu   | Student               | The Madura College                 |
| Ms. MANISHA.I           | Madurai         | Tamil Nadu   | Student               | The Madura College                 |
| Ms. USHA SREE .R        | Madurai         | Tamil Nadu   | Student               | The Madura College                 |
| Mr. P.NITHISH KUMAR     | Madurai         | Tamil Nadu   | Student               | The Madura College                 |
| Mr. MUTHU KARUPPAN.K    | Madurai         | Tamil Nadu   | Student               | The Madura College                 |
| Mr. DRAVID RAJAN S      | Madurai         | Tamil Nadu   | Student               | The Madura College                 |
| Mr. DHANUSHSINGH.B      | Madurai         | Tamil Nadu   | Student               | The Madura College                 |
| Ms. MONISHA R           | Dindigul        | Tamil Nadu   | Student               | The Madura College                 |
| Ms. ANUSHIYA S          | Virudhunagar    | Tamil Nadu   | Student               | The Madura College                 |
| Ms. DIVYABHARATHI.M     | Madurai         | Tamil Nadu   | Student               | The Madura College                 |
| Mrs. DHIVYA R           | Dindigul        | Tamil Nadu   | Working               | PSNA CET                           |
| Mrs. SENTHIL KUMARI     | Dindigul        | Tamil Nadu   | Working               | PSNA CET                           |
| DR. J. SATHYA           | Dindigul        | Tamil Nadu   | Working               | GIRH & FWT                         |

## Agenda for the Statistical Training Programme in Data Analytics

| Day      | Time            | Module                                                     | Resource person       |
|----------|-----------------|------------------------------------------------------------|-----------------------|
| <b>1</b> | <b>9am-10am</b> | <b>Registration, Inauguration session and Pretest</b>      |                       |
| 1        | 10am-11am       | Basics of Statistics                                       | Dr Vasna Joshua       |
| 1        | 11am-12pm       | Introduction to Excel and EpiInfo                          | Ms Oviya              |
| 1        | 12pm-1pm        | Hands-on with Disease Surveillance Data (Time, Place)      | HPHF team             |
| 1        | 2pm-3pm         | Basics of data management                                  | Dr Ezhil              |
| 1        | 3pm-4pm         | Epicurve & Times series analysis (Trends)                  | HPHF team             |
| 1        | 4pm-5pm         | 2x2 table - ODDs, RR, Summary stats                        | Ms Pooja              |
| 2        | 9am-10am        | Type of Charts & appropriate datasets                      | Ms Pooja              |
| 2        | 10am-11am       | Data management add-ins for spreadsheet (XLSTAT)           | HPHF team             |
| 2        | 11am-12pm       | Epidemiology considerations in data analytics (Hills)      | Dr Ezhil              |
| 2        | 12pm-1pm        | Hands-on with NCD dataset                                  | HPHF team             |
| 2        | 2pm-3pm         | Sampling techniques                                        | Dr Vasna Joshua       |
| 2        | 3pm-4pm         | Sample size calculations                                   | Ms Pooja              |
| 2        | 4pm-5pm         | Introduction to qualitative analysis                       | HPHF team             |
| 3        | 9am-10am        | Introduction to Data Visualisation                         | Mr Sarath             |
| 3        | 10am-11am       | Developing a dashboard using EpiInfo & Excel               | HPHF team             |
| 3        | 11am-12pm       | Introduction to Regression techniques                      | Dr Vasna Joshua       |
| 3        | 12pm-1pm        | Demonstration of Linear and Logistic Regression            | HPHF team             |
| 3        | 2pm-3pm         | Introduction to AI/ML, R & R studio                        | Dr Viduthalai Virumbi |
| 3        | 3pm-4pm         | Demonstration of predictive analysis using R               | Dr Viduthalai Virumbi |
| <b>3</b> | <b>4pm-5pm</b>  | <b>Valedictory Session, Feedback Session and Post test</b> | HPHF team             |

## Feedback summary charts:

**Figure 1: Participant Satisfaction: Encouragement of Interaction**

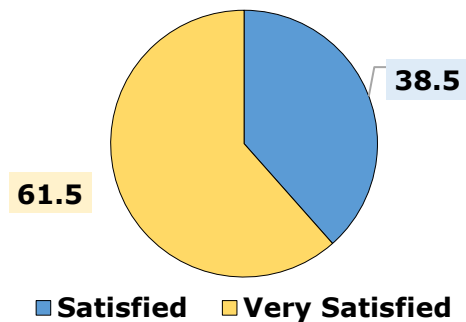


Figure 1 shows that most participants (61.5%) were very satisfied, and 38.5% were satisfied with how interaction was encouraged. No one reported being unhappy. This positive feedback shows our approach worked well and can be used again in future projects.

**Figure 2: Participant Ratings: Quality of Food Provided During Training**

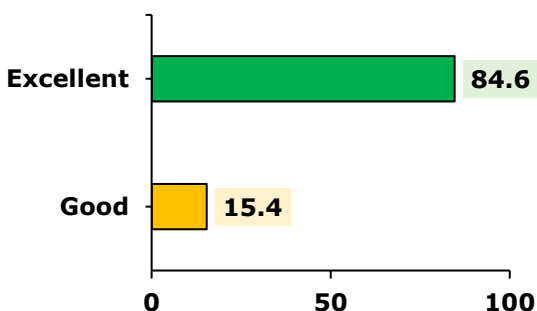
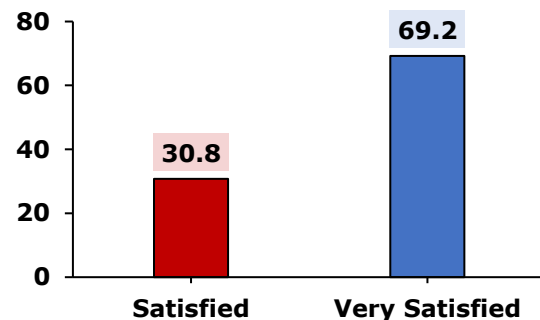


Figure 2 shows that the majority of participants (84.6%) rated the food as 'excellent' and 15.4% rated it as 'good'. No negative ratings were recorded, indicating that the food service during the training was a distinct success.

**Figure 3: Participant Feedback: Variety of Food Options for Dietary Preferences**



From the Figure 3, we conclude that the most participants (69.2%) were very satisfied with the variety of food options provided, while 30.8% were satisfied. No one reported dissatisfaction, showing that the food arrangements were inclusive and well-received.

**Figure 4: Meal Service Timeliness Feedback**

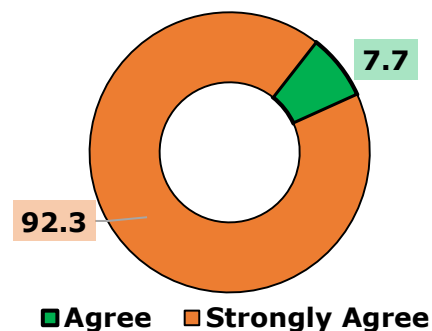


Figure 4 shows that an overwhelming majority of participants (92.3%) strongly agreed that meals were served on time, while 7.7% agreed. This indicates excellent punctuality in meal service and high satisfaction in this area.

**Figure 5: Accommodation Quality Ratings**

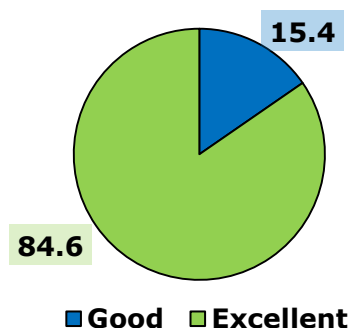


Figure 5 shows that the majority of participants (84.6%) rated the quality of the accommodation as **Excellent**, while 15.4% rated it as Good. This reflects a high level of satisfaction with the accommodation provided during the program.

**Figure 6: Cleanliness Rating of Accommodation**

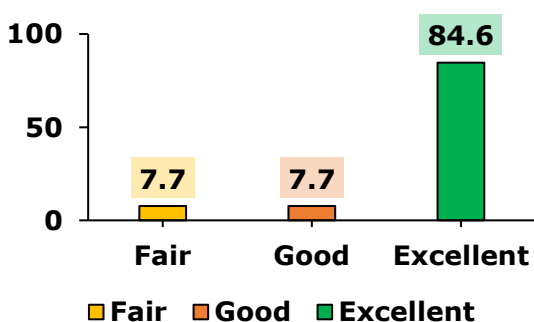


Figure 6 shows that most participants (84.6%) rated the cleanliness of the accommodation as **Excellent**, showing high satisfaction. A small portion rated it as Good (7.7%) and Fair (7.7%), indicating minor areas for improvement.

**Figure 7: Accommodation Staff Hospitality Ratings**

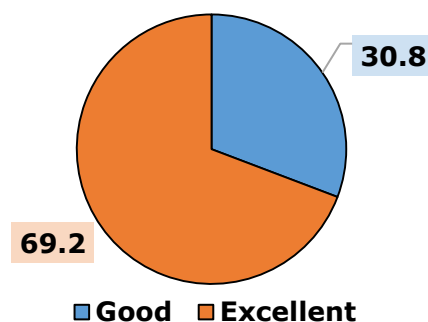


Figure 7 shows that a majority of participants (69.2%) rated the hospitality of the accommodation staff as **Excellent**, while 30.8% rated it as Good. This reflects a high level of satisfaction with the staff's friendliness and support.

**Figure 8: Overall Experience Rating**

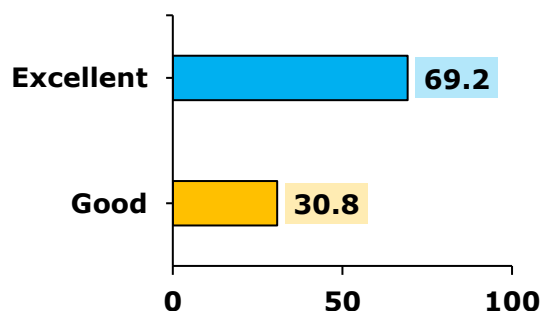


Figure 8 shows that most participants (69.2%) rated their overall experience as **Excellent**, while 30.8% rated it as Good. This shows a high level of satisfaction with the training program.

**Figure 9: Key Highlights of the Training Program as Rated by Participants**

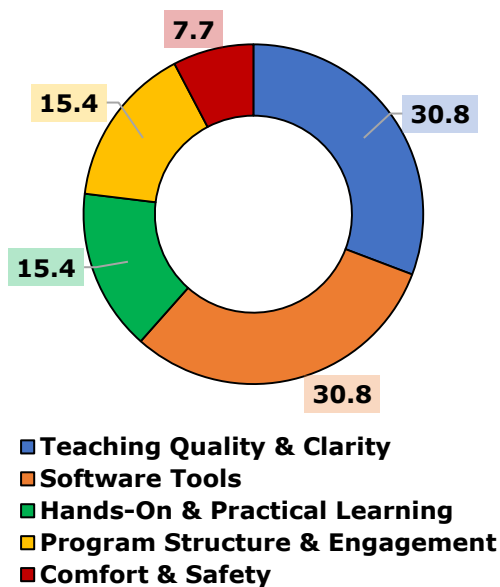
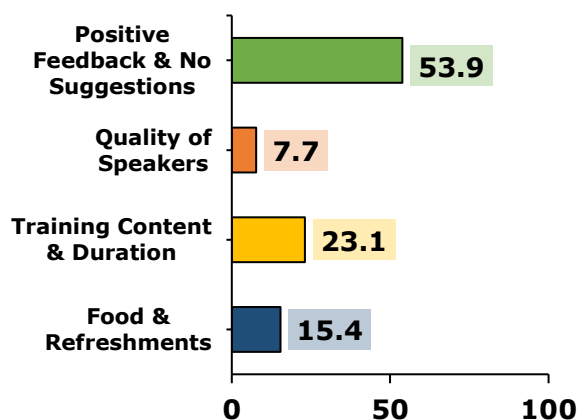


Figure 9 shows that the most participants liked the teaching quality and software tools the most. Others appreciated the hands-on learning and how the program was organized. A few mentioned comfort and safety as something they liked.

**Figure 10: Areas Identified for Enhancement**



From the figure 10, we conclude that more than half of the participants (53.9%) gave positive feedback with no suggestions. Others recommended improving training content and duration (23.1%), food and refreshments (15.4%), and the quality of speakers (7.7%).

## Conclusion

The training programme was well-received and met its core objectives. The collaboration between The Gandhigram Institute of Rural Health and Family Welfare Trust and Honeybee Population Healthcare Foundation proved effective in delivering quality education and practical skills. Future programmes may benefit from extended duration and expanded content based on participant feedback.

# Statistical Training Programme in Data Analytics

