



## WORKSHOP ON RESEARCH METHODOLOGY AND RESEARCH STATISTICS

22nd, 23rd and 24th JANUARY 2025



DEPARTMENT OF PUBLIC HEALTH DENTISTRY,

Subbaiah Institute of Dental Sciences  
NH-13, Holehonnur Road, Purle,  
Shivamogga, Karnataka-577222

With the blessings of  
**Late. Shri. T. Subbaramaiah**, founding chairman

Chief Patrons :

**Dr. Nagendra S**, Medical Director

Patrons :

**Dr. Lata R Telang**  
Executive Director

**Dr. Vinaya Srinivas**  
Executive Director

Organizing Committee :

Organizing Chairman :

**Dr. Suresh B.S**  
Principal

Organizing Secretary :

**Dr. Mithun K.M**  
Vice-Principal

Speakers :

**Dr. Nagesh L**  
**Dr. Puja Yavagal**  
**Dr. Umesh Wadgave**

E-mail id :

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Contact Numbers :

**Dr. Vivek H.P - 8095306448**  
**Dr. Deepakraj K.C - 8618309891**

Organized By :

**Faculty members and Postgraduate students**  
**Department of Public Health Dentistry**

## SCHEDULE FOR WORKSHOP

| Time

| Topics

Day 1 (22-01-2025 Wednesday)

09:00 - 09:15 AM Inaugurals  
09:15 - 10:15 AM Introduction to Health Research --1  
10:15 - 10:45 AM Designing a Research Question and Hypothesis  
10:45 - 11:15 AM Group Activity 1  
11:15 - 11:30 AM Break  
11:30 - 12:15 PM Research Designs (Descriptive Designs)  
12:15 - 01:00 PM Research Designs (Analytical Designs)  
01:00 - 01:45 PM Lunch Break  
01:45 - 02:45 PM Research Designs (Experimental Designs)  
02:45 - 03:15 PM Group Activity 2 (Research Designs)  
03:15 - 04:00 PM Introduction to Biostatistics

Day 2 (23-01-2025 Thursday)

09:00 - 09:15 AM Review of Day 1  
09:15 - 10:00 AM Hypothesis Testing Model  
10:00 - 11:00 AM Calculating Measures of Central Tendency and Measures of Dispersion (Group Activity 3)  
11:00 - 11:15 AM Break  
11:15 - 12:15 PM Errors in Health Research and Error Minimization  
12:15 - 01:00 PM (Group Activity 4) Critical evaluation of Scientific article and identifying errors  
01:00 - 01:45 PM Lunch Break  
01:45 - 02:30 PM Concept of Normal Curve and Standard Normal Curve  
02:30 - 03:15 PM Data Presentation Methods  
03:15 - 04:00 PM Sampling Techniques

Day 3 (24-01-2025 Friday)

09:00 - 09:15 AM Review of Day 2  
09:15 - 10:15 AM Sample Size Estimation (Demonstration of G Power Software) (Group Activity 5)  
10:15 - 10:15 AM Selecting a Statistical Test --- ?  
11:15 - 11:30 AM Break  
11:30 - 12:30 PM SPSS Software (Demonstration)  
12:30 - 01:00 PM SPSS (Group Activity 6)  
01:00 - 01:45 PM Lunch Break  
01:45 - 02:45 PM Synopsis Writing  
02:45 - 04:00 PM Group Presentations

### Program Details

Date : 22-01-2025 to 24-01-2025  
(Wednesday to Friday)

Time : 09:00 A.M. to 4:00 P.M

Venue : LH 2, First Floor,  
Subbaiah Institute of Dental Sciences  
Shivamogga-577222

### Registration Details

Fees : Rs.300 (Postgraduate and faculty members)

Last date for registration : 18-01-2025

Entry restricted to 50 participants.

Mode of Payment – Cash (to be paid to office)

### No Spot Registration

#### Note To All Delegates

- All delegates are requested to bring a SCIENTIFIC CALCULATOR along with them.
- Credit points will be awarded to all the delegates
- For any queries you can mail us at: sidsphd@gmail.com

Research science is the basic science of all sciences. It is a complex enterprise but inevitable for the existence and progress of science. Research has greatly contributed to the growth of medical science including dental science. As practitioners of health sciences, we apply the research findings in our routine clinical practice. It is not sufficient for academicians and students to simply practice science; rather they should generate scientific knowledge by conducting quality research.

Quality research is not an accident. Doing and reporting quality research is possible when one has in-depth knowledge of research methodology and research statistics. Unfortunately, not much emphasis is placed on learning these skills by postgraduate students of medicine and dentistry in our country. Although doing and reporting dissertation research has been made mandatory to obtain postgraduate degree, the whole process at times is made to look mechanical. As a result of this the emerging dental professionals, although good clinicians, may turn out as poor researchers. This is precisely the reason why contribution of India to international health research is less than substantial. Keeping in view that medicine and dentistry requires not only good clinicians, but also versatile researchers, a Workshop is crafted to provide the required knowledge and skills of research methodology and research statistics to the participants.

The prime objective of this workshop is to enable and empower the participants to plan, design, conduct, interpret, defend and report their own piece of research with flair and confidence. A series of presentations and group activities are specially customized to suit the felt needs of the participants. There is going to be sumptuous learning material on the menu card and also versatile speakers to serve, it is time to relish.

### LEARNING OBJECTIVES OF THE WORKSHOP

At the end of the workshop, the learner should have fair knowledge of following topics and be able to apply this knowledge to solve simple questions and problems.

1. Fundamentals of research - types, methods, designs, hypothesis.
2. Data presentation, types, summarization, distribution, analysis and concept of normal curve, confidence interval, clinical and statistical significance and sampling.
3. Research ethics- maintaining ethical integrity in the whole process of research.
4. Exploring and reviewing the available scientific literature through basic and advanced electronic search techniques for a given research question.

"Skills are acquired with learning and mastered with practice, nothing is hereditary except death".

**Swami Vivekananda**

### Workshop on Research Methodology and Research Statistics

Subbaiah institute of Dental Sciences, NH-13,  
Holehonnur Road, Purl, Shivamogga - 577222

Office Use : Registration Number:

Receipt Number :



### Registration Details

Category : Postgraduate Student / Faculty

Name : Dr. ....

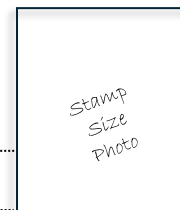
Department : .....

Institute : .....

Address : .....

Mobile No. : .....

E-mail ID : .....



**Candidate's Signature**

**HOD's Signature**  
(Applicable for PG's only)

Submit this duly filled form to :  
Department of Public Health Dentistry  
Subbaiah Institute of Dental Sciences  
Shivamogga - 577222