

MGM DENTAL COLLEGE & HOSPITAL

Accredited by NAAC with 'A++' grade

ADVANCE RESEARCH METHODOLOGY WORKSHOP

MUHS Approved



10th - 18th April 2026



MGM Dental College & Hospital

Organized By:
HSET Unit &
Dept of PHD



REGISTRATION DETAILS

Registration Fee

Faculty

Rs 5000/-

NEFT Details:

A/c Holder's Name: MGMS Dental
College Scientific Society

A/c No: 0183104000134125

Bank Name: IDBI Bank

Branch: CBD Belapur

IFSC code: IBKL0000183

For Further Details, Contact

Dr. Vaibhav Thakkar - 9322262227

MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES, NASHIK
Programme of Advanced Research Methodology Workshop

Day 1 –10th April 2026

Time	Topic	Method	Facilitators
09:00 -9:30	Registration and breakfast		Dr. Vaibhav Thakkar
9:30 -10:00	Pre-test		Dr. Rohit Gadda
10:00-10:15	Objectives of workshop		Dr. Jigna Pathak
10:15- 11:00	L1:Introduction to research methodology	L	Dr. Vaibhav Kumar
11:00 -11:45	L2:Framing Research question, hypothesis	L	Dr. Vaibhav Kumar
11:45-12:30	GA 1 : Each group will 1. Select one research topic 2. Assess topic on FINER criteria 3. Present the research question for the topic & mention type of research question. 4. Mention the population 5. Mention the variables 6. Mention the hypothesis (if any) Mention the type of hypothesis	GA	Dr. Vaibhav Kumar
12:30-13:00	Lunch		
13:00-13:45	L3: Classification of study designs : Descriptive study designs	L	Dr. Purvi Bhate
13:45-14:15	GA 2: Issues in descriptive studies. -Research question -Population types -Sampling and sample size -Measurements -Bias in descriptive studies- selection bias & measurement bias -Ethical issues - Analysis: Hypothesis generation	GA	Dr. Purvi Bhate
14:15-15:00	LD1: Faculty member would present & discuss two published studies -Research question -Population types -Sampling and sample size -Measurements -Bias in descriptive studies- selection bias & measurement bias -Ethical issues - Analysis: Hypothesis generation	LD	Dr. Romi Jain
15:00-15:45	L4:Case control studies	L	Dr. Romi Jain
15:45-16:45	GA 3: Issues in case control/ cohort studies. -Research question -Population types -Sampling and sample size - Sources & selection of cases & controls/comparison -Measurement of exposure -Bias in case control studies- selection, measurement, confounding- matching - Analysis: statistical testing , odds ratio, RR, AR, multivariate analysis	GA	Dr. Romi Jain
16:45- 17:00	Feedback Forms		Dr. Rohit Gadda

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Day 2– 13th April 2026

Time	Topic	Method	Facilitators
09:30- 10:00	Tea and breakfast		
10:00-10:30	Recapitulation by participants GA4:Participant's presentations : Group 1- Types of bias in research and measures to minimise them.	GA	Dr. Romi Jain
10:30-11:15	L5: Cohort studies	L	Dr. Shruti Bhide
11:45-12:45	GA 5: Issues in cohort studies. -Research question -Population types -Sampling and sample size - Sources & selection of cases & controls/comparison -Measurement of exposure -Bias in case control studies- selection, measurement, confounding- matching - Analysis: statistical testing , odds ratio, RR, AR, multivariate analysis	GA	Dr. Shruti Bhide
12:45 -13:30	Lunch		
13:30-14:30	L6 -Clinical trial	L	Dr. Nikhil Bhanushali
14:30-15:00	GA 6: Issues in clinical trials. -Research question -Population types -Sampling and sample size - Allocation methods- Randomization, blinding. -Bias - selection, classification, follow up, confounding - Analysis: ITT, per protocol, NNT - Interpretation of results (Example/s to be taken from studies suggested by participants. Randomization exercise by all. Actual demo of registering a trial. Some discussion on unethical trials)	GA	Dr. Nikhil Bhanushali
15:00-15:30	LD 2: Presentation of at least two clinical trials & discuss: -Research question -Population types -Sampling and sample size - Allocation methods- Randomization, blinding. -Bias - selection, classification, follow up, confounding - Analysis: ITT, per protocol, NNT - Interpretation of results	LD	Dr. Nikhil Bhanushali
15:30-16:15	Patent		Dr. Chetan Deshmukh
16:15 – 16:30	Feedback forms		Dr. Vaibhav Thakkar

* L= Lecture; GA = Group Activity; LD = Lecture Demonstration

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Day 3–15th April, 2026

Time	Topic	Method	Facilitators
09:30-10:00	Tea and breakfast		
10:00-10:30	Recapitulation GA 7:Participant's presentations : Group 2- Association & causation	GA	Dr. Manasi S. Padhyegurjar
10:30-11:30	L 7:Types of variables(data), conversion of data from one Type to other, scales of measurement	L	Dr. Shruti Bhide
11:30-12:30	LD3:Data presentation. Faculty will demonstrate use of MS excel in preparing various types of data presentations.	LD	Dr. Vineet Vinay
12:30-13:15	Lunch		
13:15-14:30	L8: Descriptive statistics(concept of central tendency & dispersion, normal curve, skewed distribution)	L	Dr. Rizwan Sanadi
14:30-15:15	L 9: Role of chance , bias , confounding & interaction	L	Dr. Amit Bhondve
15:15-16:00	LD 4 : Sample size determination (demo of use of computers)	LD	Dr. Amit Bhondve
16:00-16:45	L10 :Methods of data collection Questionnaire designing	L	Dr. Rizwan Sanadi
16:45-17:30	GA 08: Exercise on good and bad questionnaire	GA	Dr. Rizwan Sanadi
16:45-17:00	Feedback Forms		Dr. Rohit Gadda

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Day 4–16th April, 2026

Time	Topic	Method	Facilitators
09:30- 10:00	Tea and breakfast		
10:00-10:30	Recapitulation by participants GA 9 :Participant's presentations : Group 3- Criteria for selection of statistical test-type & distribution of data, type of sample, objectives etc	GA	Dr. Shekhar B. Padhyegurjar
10:30-11:00	Recapitulation by participants GA 10: Participant's presentations Group 4 : Sampling methods	GA	Dr. Manasi S. Padhyegurjar
11:00-11:45	L 11:Literature Search	L	Mrs. Vasumathi Sriganesh
11:45-12:30	GA 11: Literature Search Activity Online Literature Search by participants. Faculty to moderate	GA	Mrs. Vasumathi Sriganesh
12:30-13:15	L 12: Referencing Management	L	Mrs. Vasumathi Sriganesh
13:15-14:00	Lunch		
14:00 -15:00	L 13:Evaluation of a diagnostic test (ROC curve & it's interpretation) Exercise to calculate sensitivity , specificity TEA will be served inside	L	Dr. Abhijeet Jadhav
15:00-16:00	GA 12: Research priorities in various disciplines	GA	Dr. Vineet Vinay
16:00-16:45	L 14: Ethics in health sciences research(ICH- GCP, Indian GCP, ICMR guidelines)	L	Dr. Nikhil Bhanushali
16:45 -17:00	Feedback Forms		Dr. Vaibhav Thakkar

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Day 5–17th April, 2026

Time	Topic	Method	Facilitators
09:30-10:00	Tea and breakfast		
10:00-10:30	Recapitulation by participants GA 13: Participant's presentations Group 5 : Interpretation of statistical test- probability , significance, CI, power etc	GA	Dr. Abhijeet Jadhav
10:30-12:00	LD 5 : Demonstration of Epi Info and Open EPI – the WHO soft ware	LD	Dr. Vineet Vinay
12:00 – 13:00	L 15: Inferential statistics & statistical fallacies:- Parametric, non parametric , which test to use , when & why(a case of ANOVA , also post hoc tests)	L	Dr. Romi Jain
13:00-13:45	Lunch		
13:45 -14:45	LD 6 : Use of computers in inferential statistics	LD	Dr. Ketaki Bhor
14:45 – 15:45	L 16: Regulatory aspects in research CONSORT, AYUSORT, ICH-GCP, Trial Registration, Role of FDA	L	Dr. Vineet Vinay
15:45 – 16:45	L 17:Proposal writing for funding agencies Protocol writing	L	Dr. Varsha Sharma
16:45 – 17:00	Feedback Forms		Dr. Rohit Gadda

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Day 6–18th April, 2026

Time	Topic	Method	Facilitators
09:00-10:00	Tea and breakfast		
10:00-10:30	Recapitulation by participants GA 14: Participant's presentations Group 6 : Implementation of research- Gantt charting , operational definitions/criteria/classifications, pilot study , dummy tables, monitoring etc	GA	Dr. Vineet Vinay
10:30-11:30	L 18: Writing dissertation: Data Reporting Writing for Publication	L	Dr. Varsha Sharma
11:30-12:30	GA 15: Critical evaluation of journal article Each group will discuss the article allotted/selected & present. The articles should represent all study designs.	GA	Dr. Amit Bhondve
12:30-13:30	L 19: Qualitative research methods Question answer session	L	Dr. Amit Bhondve
13:30-14:00	Lunch		
14:00-14:45	L 20 : Meta-Analysis Demonstration and Group Activity	L	Dr. Ketaki Bhor
14:45-15:30	Post Test		Dr. Rohit Gadda
15:30-16:30	Project Presentations By Participants		Dr. Vaibhav Thakkar
16:30-1700	Valedictory session		Dr. Vaibhav Thakkar

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