



Maharashtra University of Health Sciences, Nashik

University Research Department

Yogita Dental College & Hospital, Khed



ADVANCED RESEARCH METHODOLOGY WORKSHOP

Organized by

Dept. of Public Health Dentistry

**For Researchers, PG Guides, Associate Professors,
PhD Candidates**

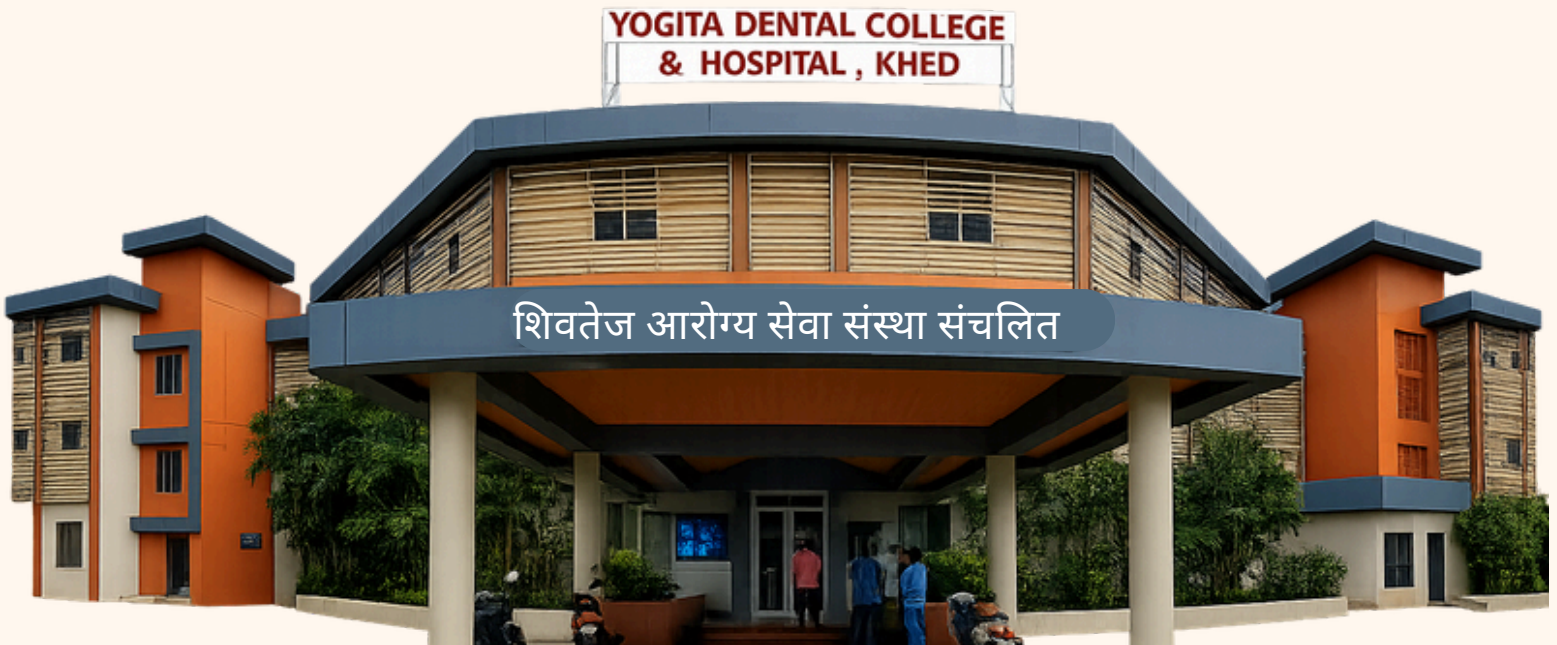


8TH JUNE 2026- 13TH JUNE 2026

VENUE- BLUE CLASSROOM

REGISTRATION PROCESS

1. MUHS Website (Update will be provided)
2. Registration Charges- Rs. 5000/-



GUEST SPEAKERS



**Dr. Dheeraj Kalra,
Professor & HOD,
GDC Nagpur**



**Dr. Vaibhav Thakkar,
Associate Professor & HOD,
MGM Dental College,
Navi Mumbai**



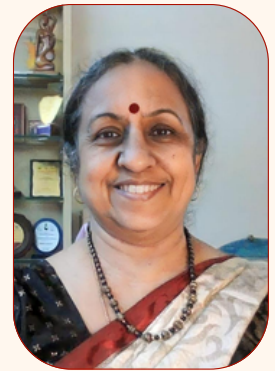
**Dr. Shrivardhan Kalghatgi,
Associate Professor & HOD,
Bharathi Vidyapeeth Dental
College & Hospital, Sangli**



**Dr. Hitendra Jain,
Associate Professor and HOD,
SMBT Dental College &
Hospital,
Sangamner**



**Dr. Vaibhav Kumar,
Associate Professor and HOD,
Dr. G.D.Pol Foundation's
YMT Dental College,
Navi Mumbai**



**Mrs. Vasumathi Sriganesh,
Founder & CEO ,
QMed Knowledge Foundation,
Mumbai**



**Dr. Lingaraju A R,
Professor and HOD,
Dept of Community Health Nursing,
MES Nursing College,
Lote**



**Dr. Chetan Deshmukh,
Assistant Professor,
Nair Hospital Dental College,
BMC, Mumbai**



**Mr. Mahantesh Karagi,
Associate Professor and HOD,
Dept of Fundamental Nursing,
MES Nursing College,
Lote**

ORGANIZING COMMITTEE



Chief Patron
Dr. Varsha Jadhav
Dean
YDCH Khed



Patron
Dr. Hemangi Pol
CEO
YDCH Khed



Organizing Chairman
Dr. Supriya Vyavahare
Asso. Prof & HOD,
Dept. of Public Health Dentistry
YDCH Khed



Organizing Secretary
Dr. Mugdha Khond
Sr. Lecturer
Dept. of Public Health Dentistry
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Organizing Member
Dr. Christeena John



Organizing Member
Dr. Salman Surve

Contact Us

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Workshop Schedule

Day 1- 8th June 2026

Time	Topic	Method	Speaker
09:00-09:30	Registration & Pre test		Dr. Supriya Vyavahare
9:30-9.40	Objectives of workshop		Dr. Supriya Vyavahare
9:45-10:30	L1: Introduction to research methodology	L	Dr. Vaibhav Kumar
10:30-11:15	L2: Framing Research question, hypothesis	L	Dr. Vaibhav Kumar
11:15-12:00	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
12.00-12:45	L3: Classification of study designs - Descriptive study designs	L	Dr. Vaibhav Kumar
12:45-13:30	Lunch		
13:30-14:00	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. Vaibhav Kumar
14:00-14:45	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. Vaibhav Kumar
14:45-15:30	L4: Case control studies	L	Dr. Shrivardhan Kalghatgi
15:30-16:30	GA3: 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. Shrivardhan Kalghatgi
16:30-16.45	Feedback Forms		Dr. Mugdha Khond

Day 2- 9th June 2026

Time	Topic	Method	Speaker
09:30-10:00	Recapitulation by participants GA4: Participant's presentations: Group 1- Types of bias in research and measures to minimise them	GA	Dr. Vaibhav Kumar
10:00-10:45	L5: Cohort studies	L	Dr. Shrivardhan Kalghatgi
10:45-11:45	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. Shrivardhan Kalghatgi
11:45-12:45	L6: Clinical trial	L	Dr. Vaibhav Kumar
12:45-13:30	Lunch		
13:30-14:00	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. Vaibhav Kumar
14:00-14:30	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. Vaibhav Kumar
14:30-15:15	Patent		Dr. Vaibhav Kumar
15:15-15:30	Feedback Forms		

Day 3- 10th June 2026

Time	Topic	Method	Speaker
09:30-10:00	Recapitulation GA 7: Participant's presentations: Group 2- Association & causation	GA	Dr. Dheeraj Kalra
10:00-11:00	L 7: Types of variables(data), conversion of data from one Type to other, scales of measurement	L	Dr. Dheeraj Kalra
11:00-12:00	LD3: Data presentation. Faculty will demonstrate use of MS excel in preparing various types of data presentations	LD	Dr. Dheeraj Kalra
12:00-12:45	L8: Descriptive statistics (concept of central tendency & dispersion, normal curve, skewed distribution)	L	Dr. Dheeraj Kalra
12:45-13:30	Lunch		
13:30-14:15	L11: Literature Search	L	Mrs. Vasumathi Sriganesh
14:15-15:00	GA 11: Literature Search Activity Online Literature Search by participants. Faculty to moderate	GA	Mrs. Vasumathi Sriganesh
15:00-15:45	L12: Referencing Management	L	Mrs. Vasumathi Sriganesh
15:45-16:30	L9: Role of chance, bias, confounding & interaction	L	Dr. Dheeraj Kalra
16:30-16:45	Feedback Forms		Dr. Mugdha Khond

Day 4- 11th June 2026

Time	Topic	Method	Speaker
09:30-10:15	LD4: Sample size determination (demo of use of computers)	LD	Dr. Dheeraj Kalra
10:15-11.00	L10: Methods of data collection & questionnaire designing	L	Dr. Dheeraj Kalra
11.00-11.45	GA8: Exercise on good and bad questionnaire	GA	Dr. Dheeraj Kalra
11:45-12:15	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. Hitendra Jain
12:15-12:45	Recapitulation by participants GA 10: Participant's presentations Group 4: Sampling methods	GA	Dr. Hitendra Jain
12:45-13:30	Lunch		
13:30-14:15	L13: Evaluation of a diagnostic test (ROC curve)	L	Dr. Hitendra Jain
14:15-15:00	GA12: Research priorities in various disciplines	GA	Dr. Hitendra Jain
15:00-15:45	L14: Ethics in health sciences research	L	Dr. Lingaraju A R
15:45-16:00	Feedback Forms		Dr. Mugdha Khond

Day 5- 12th June 2026

Time	Topic	Method	Speaker
09:30-10:00	Recapitulation by participants GA 13: Participant's presentations Group 5: Interpretation of statistical test- probability, significance, CI, power etc	GA	Dr.Dheeraj Kalra
10:00-11:30	LD 5: Demonstration of Epi Info and Open EPI – the WHO soft ware	LD	Dr. Dheeraj Kalra
11:30-12:30	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. Dheeraj Karla
12:30-13:15	Lunch		
13:15-14:15	LD6: Use of computers in inferential statistics	LD	Dr. Dheeraj Karla
14:15-15:15	L 16: Regulatory aspects in research CONSORT, AYUSORT, ICH-GCP, Trial Registration, Role of FDA	L	Dr. Vaibhav Thakkar
15:15-16:15	L 17: Proposal writing for funding agencies Protocol	L	Dr. Vaibhav Thakkar
16:15-16:30	Feedback form		Dr. Mugdha Khond

Day 6- 13th June 2026

Time	Topic	Method	Speaker
09:30-10:00	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. Vaibhav Thakkar
10:00-11:00	L 18: Writing dissertation: Data Reporting Writing for Publication	L	Dr. Vaibhav Thakkar
11:00-12:00	GA 15: Critical evaluation of journal article Each group will discuss the article allotted/selected & present. The articles should represent all study designs.	GA	Mr.Mahanatesh Karagi
12:00-13:00	L19: Qualitative research methods Question answer session	L	Dr. Chetan Deshmukh
13:00-13:45	Lunch		
13:45-14:30	L20: Meta-Analysis Demonstration and Group Activity	L	Dr. Chetan Deshmukh
14:30-15:15	Post Test		Dr. Mugdha Khond
15:15-16:15	Project Presentations by Participants		Dr. Supriya Vyavahare
16:15-16:30	Valedictory & Feedback		Dr. Mugdha Khond
* L= Lecture; GA = Group Activity; LD = Lecture Demonstration			