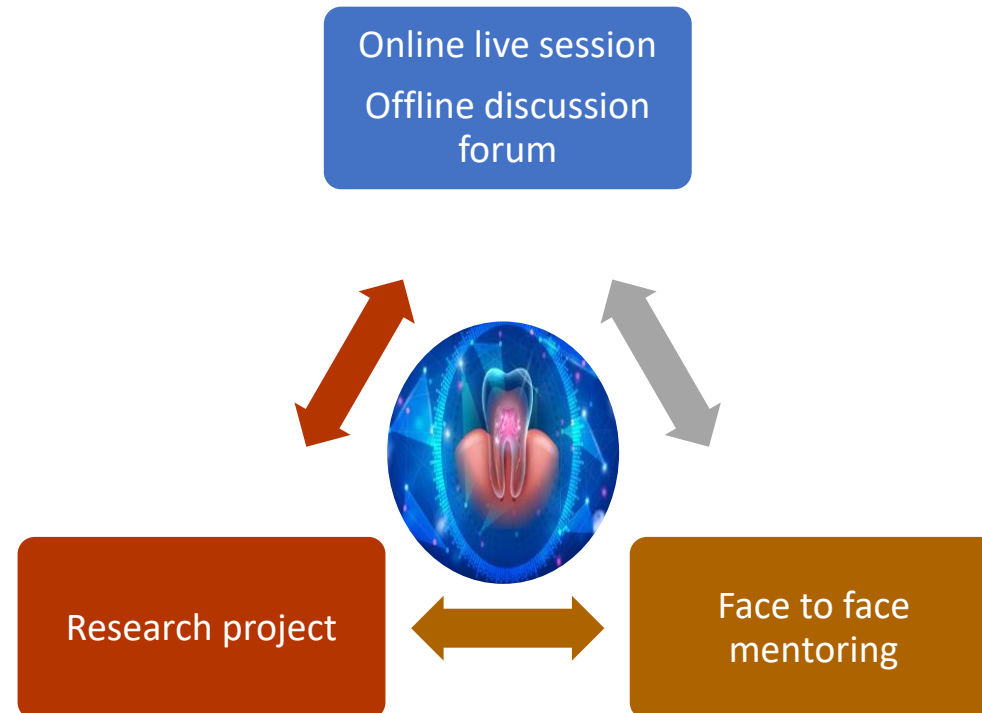


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# VSPM Dental College and Research Centre, Nagpur E-learning course Research Methodology & Scientific Writing

**An initiative by Interns Monitoring & E-learning Committee**



# *Expected Learning Outcomes*

- Understanding of Research Concepts & Methodology.

- Choose the right research design for different research questions.

- Record and Analyse data using basic statistical techniques.

- Interpret analysis of data and report findings for publishing.

**Hands on experience:**  
Undertake and complete a research project including manuscript preparation and submission

# Course Information

## **Introduction**

- VSPM Dental College and Research Centre, Nagpur has started an e-learning course titled 'Research Methodology & Scientific Writing'. This is an initiative by Interns Monitoring & E-learning Committee with an intent to inculcate skills of conducting authentic research amongst the dental undergraduates.
- The course has a hybrid structure including online live session, offline discussion forum as well as face to face mentoring and online assignments and quiz.
- A hands-on experience in the form of research project to be completed in stipulated time is also an integral component of this course.

**Eligibility:** students pursuing BDS course

## **Duration:**

- The course is divided in four modules: 20 hours, Project work: 6 months

# Course Information

**Mode of course delivery:** synchronous and asynchronous

**Course co-ordinator:**

- Dr Surekha Rathod (Prof Dept of Periodontics, Chairperson Intern's Monitoring Committee),
- Dr Saeed Deshpande (Assoc Prof, Dept of Prosthodontics, co-ordinator e-learning committee).

**Resource persons:**

- Dr Vrushali Modi (Sr Lecturer, Dept of Periododontics),
- Dr Pranjali Bawankar (Sr Lecturer, Dept of Periododontics) and
- Dr Jaishree Chahande (Lecturer, Dept of Prosthodontics).

# Course Structure

- Week 1: Module 1-4
  - Week 2: Modules 5-8
  - Week 3: Modules 9-12
  - Week 4: Assessment and project submission
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- There will be an assignment after each module that needs to be submitted via Google-groups: **25 marks for each week, total 75 marks**
  - Final research project submission (including manuscript) and online examination: **75 marks**
  - Certification requirement: **min marks 100 out of 150.**

# Course Content

Modules	Topic	Resource person
1	Intro to the course & Conceptual Background of Research	Dr Saeesh Deshpande
2	Conceptualization of Variables and Measurement	Dr Vrushali Lathiya
3	Research Problem: Qualitative and Quantitative Research	Dr Pranjali Bawankar
4	Research Design, Identification of Research Topics, Hypothesis Formulation with hands on	Dr Vrushali Lathiya
5	Tools & Techniques of Data Collection: Primary & Secondary	Dr Pranjali Bawankar
6	Questionnaire Design & Testing with hands on	Dr Saeesh Deshpande
7	Data Tabulation and Graphic presentation of data	Dr Saeesh Deshpande
8	Basics of statistical analysis	Dr Saeesh Deshpande
9	Synopsis writing, completion report writing and submission process to IEC with hands on	Dr Surekha Rathod
10	Problems faced during Research and their Remedies	Dr Saeesh Deshpande
11	Writing scientific Research Papers and submitting for publication to journal with hands on	Dr Surekha Rathod
12	Ethical and Copyright Issues (Plagiarism) in Research	Dr Jaishree Chahande
13	Online assessment including pre and post test	Dr Jaishree Chahande
14	E-poster presentation	Dr Jaishree
	Submission of manuscript	Chahande