

Bharati Vidyapeeth (Deemed to be University)

Dental College and Hospital, Pune

Syllabus with time-table of Pre - PhD Course Work

PEDODONTICS & PREVENTIVE DENTISTRY

I : RESEARCH METHODOLOGY

(4 credits = 60 hours)

1. Types of research
2. Important steps in research
3. Literature search and review
4. Formulation of research question
5. Identifying variables
6. Introduction of hypothesis
7. Research design
8. Meta-analysis
9. Construction of instrument for data collection
10. Sampling
11. Bias
12. Writing a research proposal
13. Writing a research report
14. Ethics issues in research
15. Cochrane review
16. Data types, its compilation and cleaning
17. Presentation of data
18. Correlation & regression
19. Testing hypothesis
20. Test of significance- Parametric
21. Test of significance- Non parametric
22. Statistical fallacies
23. Introduction of statistical software

II : RECENT ADVANCES IN SPECIFIED SUBJECT: (Pediatric and Preventive Dentistry)

(4 credits=60 hours)

1. Recent advances in child psychology and behaviour management
2. Recent trends in dental caries, etiology and treatment
3. Contemporary advances in prevention of dental caries
4. Global advances in field of Pediatric endodontics
5. Recent advances and scope of advanced dental materials
6. Current and advanced techniques in immunology and microbiology for dental caries
7. Advances in management of traumatic injuries in children
8. Advanced concepts of remineralization
9. Current trends and advances in pediatric-orthodontic interface
10. Advances in community oral health programs and its effects on children

Each candidate should present 10 seminars, each equivalent 6 hours.

III : REVIEW OF LITERATURE ON PROPOSED RESEARCH WORK: (Pediatric and Preventive Dentistry)

(4 credits= 60 hours)

A) PRESENTATION ON REVIEW OF LITERATURE (2 credits= 30 hours)

A thorough review of literature with atleast 90-100 article references must be undertaken by the candidate.

3 presentations on review of literature must be made by the candidate. Each presentation will be equivalent to 10 hours

B) PRESENTATIONS ON AREA OF RESEARCH (2 credits= 30 hours)

Candidate must present 3 presentations on area of specific interest.

Each presentation will be equivalent to 10 hours.

IV. RESEARCH AND PUBLICATION ETHICS (RPE) : (Pediatric and Preventive Dentistry)

(2 credits= 30 hours)

Sr. No.	Topic	No. of Hours
1.	Introduction to philosophy and ethics	4
2.	Scientific conduct: Intellectual honesty and research integrity Falsification, fabrication and plagiarism Redundant publications Selective reporting and misunderstanding of data	6
3.	Publication ethics: Definition, introduction and importance Best practices Conflict of interest (COI) Publication misconduct Violation of publication ethics, authorship and contributorship Predatory publishers and journals	10
4.	Database and research metrics: Indexing databases Citation databases: Scopus, Pubmed, etc Impact factor and citation scores H-index, i-10 index, etc	10