

Bharati Vidyapeeth (Deemed to be University)
Dental College & Hospital, Pune

Syllabus with time-table of Pre-Ph.D. Course Work

CONSERVATIVE DENTISTRY AND ENDODONTICS

Research Methodology & Biostatistics

Total Credit Points: 04 (60 hours)

Serial no.	Topic
1	Introduction, basic concepts and Terminologies used in Research
2	Types of Research and essential features of a protocol for research.
3	Sample, Sampling methods, Sample size distribution
4	Ethical considerations of research
5	Literature Search & Review
6	Variables
7	Survey techniques, Questionnaires, Interviews
8	Data collection methods
9	Measurement and Measurement scales
10	Selection of appropriate data collection method according to aims of Research, Validation of techniques. Study design
11	Bias and Hypothesis
12	Statistical Tests and Errors
13	Statistical Analysis system
14	Vital statistics
15	Introduction to ICT For Research
16	ICT Utilities for Research
17	Information search system
18	Research Authoring System
19	Preparation of project proposal
20	Plagiarism detection system

Recent Advances in the subject of Conservative Dentistry and Endodontics

Total Credit Points: 04 (60 hours)

Sr.No.	Topics
1.	Field Work (depending on the Topic of interest for Research)
2.	<p>Seminar Presentations:</p> <ol style="list-style-type: none">1) Advances in Material technology and Techniques in Conservative Dentistry And Endodontics2) Nanotechnology in Conservative Dentistry And Endodontics3) Advances in Aesthetics in Conservative Dentistry And Endodontics4) Trends in Computer Aided Manufacturing and designing in Restorative Dentistry5) Dental imaging and its application6) Recent Advances in Diagnostic Techniques7) Recent Advances related to dental caries its Diagnostic Techniques prevention and management8) Advances in hand and rotary cutting instruments in Conservative Dentistry And Endodontics9) Advances in the concepts in tooth preparation and restoration with different material in Conservative Dentistry And Endodontics10) Cast metal restorations, procedures and impression procedures11) Recent advances in restoration of endodontically treated teeth and grossly mutilated teeth12) Lasers13) Regeneration and tissue engineering14) Principles Genomics15) Endodontic surgeries and recent developments in techniques and devices:16) Interdisciplinary approach

CONSERVATIVE DENTISTRY AND ENDODONTICS

(4credits-60 hours)

A. Presentation on Review of Literature: (2credits-30hours)

Serial no.	Topic	No. of Hours
1.	Compilation of 80-100 articles from different journals. field work	15 hours
2.	Study of the articles, discussion and Preparation	12 hours
3.	03 Presentations to be done on: <ul style="list-style-type: none">• Introduction of basics of the topic• Review of Literature• Student's perspective on the topic	3 hours

B. Presentation on Area of Research:(2credits-30hours)

Serial no.	Topic	No. of Hours
1.	Compilation of data necessary for interested area of research	15 hours
2.	Study of the articles, discussion and Preparation	12 hours
3.	Presentation on Area of Research	3 hours

(Number of Hours is equivalent to preparation and presentation by a PhD candidate)

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IV. Research and Publication Ethics (RPE): (2 credits = 30 clock hours)

Sr. No.	Topic	No of Hours
1.	Introduction to Philosophy and Ethics	4
2.	Scientific conduct — Intellectual honesty & research integrity Falsification, fabrication & Plagiarism Redundant publications Selective reporting & misunderstanding of data	6
3.	Publication ethics- Definition, introduction & importance Best practices Conflict of Interest (COI) Publication misconduct Violation of publication ethics, authorship & contributor ship Predatory publishers & journals	10
4.	Database & Research Metrics — Indexing databases Citation databases: Scopus, Pubmedetc Impact factor and citation scores H-index, i-10 index etc	10