

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

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

Oral Pathology & Microbiology

Research Methodology & Biostatistics

Total Credit Points: 04 (60 hours)

Sr. No.	Topics	No. of hours
1.	Introduction to research & its importance & Steps in Research	2 hours
2.	Literature Search & Review	5 hours
3.	Defining research Problem	5 hours
4.	Research design	5 hours
5.	Sampling Design	5 hours
6.	Methods of data Collection	5 hours
7.	Processing &Analysing Data	5 hours
8.	Sampling Fundamentals	5 hours
9.	Testing hypothesis- Parametric Standard Tests	5 hours
10.	Analysis of variance &co-variance	5 hours
11.	Testing Hypothesis – Non-parametric standard Tests	5 hours
12.	Interpretation & Report Writing	5 hours
13.	The computer : Its role in search	3 hours

Recent advances in the subject of Oral Pathology & Microbiology

Total credit Points: 04 (60 hours)

Sr.no.	Topics	No.of hours
1.	Field work (depending on the Topic of Interest for Research)	20 hours
2.	Observations at other Laboratories: Advanced technologies: Biotechnology Microbiology Immunohistochemistry	30 hours
3.	10 Seminar Presentations : a) Principles of proteomics & Genomics b) Stem Cells & its Significance c) Recent advances in Diagnostic Techniques d) Recent advances in Forensic Odontology e) Advances in Oral Oncology f) Recent Modifications in Classification of Oral Pathology g) Immunohistochemistry & its significance h) Recent Advances in Microbiology Diagnostic Tests i) Cell Culture & its Significance j) Recent concepts in Oral Carcinogenesis.	10 hours

Presentation of Review of Literature

Total Credit Points: 02 (30 hours)

- a) Student will select the topic of interest for research
- b) To collect 80-100 articles related to it
- c) 03 presentations to be done on:
 - Introduction of basics of the topic
 - Review of Literature
 - Student's perspective on the topic

Presentation of area of Research

Total Credit points: 02 (30 hours)

- a) Details of Summary & Conclusions
- b) Implications & Applications

Dept of Oral Pathology & Microbiology

IV. Research and publication ethics (RPE): (2 credits = 30 clock hours)

<u>Sr.no.</u>	<u>Topic</u>	<u>No.of Hours</u>
<u>1</u>	Introduction to Philosophy and Ethics	4
<u>2</u>	Scientific conduct – Intellectual honesty & research integrity Falsification, fabrication & Plagiarism Redundant publications Selective reporting & misunderstanding of data	6
<u>3</u>	Publication ethics – Definition, introduction & importance Best Practices Conflict of Interest (COI) Publication misconduct Violation of Publication ethics, authorship and contributorship Predatory publisher and journals	10
<u>4</u>	Data based & research metrics – Indexing databases Citation databases: Scopus, Pubmed etc Impact factor and citation scores H-index, i-10 index etc	10