

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

Syllabus with time-table of Pre- PhD Course work

Oral and Maxillofacial Surgery

I. Research Methodology:
(4 credits = 60 clock hours)

S No	Topic	No of Hours
1	Types of Research	3
2	Important steps in research	3
3	Literature search and Review	3
4	Formulation of research question	3
5	Identifying of variables	3
6	Introduction of Hypothesis	3
7	Research design	3
8	Construction of Instrument for Data Collection	3
9	Sampling	3
10	Writing a research proposal	3
11	Writing a research report	3
12	Ethics issues in Research	3
13	Data types, its compilation and cleaning	3
14	Presentation of Data	3
15	Correlation and regression	3
16	Testing hypothesis	3
17	Tests of significance: parametric	3
18	Tests of significance: non parametric	3
19	Statistical fallacies	3
20	Introduction of statistical software	3

II. Recent advances in the Specific Subject: (Oral and Maxillofacial Surgery)
(4 credits = 60 clock hours)

S No	Topic	No of Hours
1	Recent advances in maxillofacial trauma	5
2	Advances in Orthognathic Surgery	5
3	Recent advances in maxillofacial reconstruction	5
4	Advances in head and neck cancer	5
5	Advances in cleft & craniofacial surgeries	5
6	Advances in Oral & Maxillofacial Implantology	5
7	Recent advances in Minor Oral Surgery	5
8	Advances in TMJ Surgeries	5
9	Advances in Salivary gland diseases and surgeries	5
10	Advances in stem cell regeneration	5
11	Advances in facial esthetics and rejuvenation procedures	4
12	Advances in material sciences for oro-facial reconstruction	3
13	Advances in CAD-CAM	3

III. Review of literature on the proposed research work: (Oral and Maxillofacial Surgery)
(4 credits = 60 clock hours)

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

S No	Topic	No of Hours
1	Compilation of at least 90-100 articles from different journals	15
2	Study of collected articles, discussion and preparation for review	12
3	Presentation on Review of Literature	3

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

S No	Topic	No of Hours
1	Compilation of Data necessary for area of specific interest	15
2	Study of articles, discussion and preparation	12
3	Presentation on Area of Specific Research	3

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

S 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 & contributorship Predatory publishers & journals	10
4	Database & Research Metrics – Indexing databases Citation databases: Scopus, Pubmed etc Impact factor and citation scores H-index, i-10 index etc	10