

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

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

ORAL MEDICINE AND RADIOLOGY

I. Research Methodology & Biostatistics

Total Credit Points: 04 (60 hours)

Serial 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 issue in research	3
13.	Data type its complications and cleaning	3
14.	Presentation of Data	3
15.	Correlation and Regression	3
16.	Testing hypothesis	3
17.	Test of significance: parametric	3
18.	Test of significance: non parametric	3
19.	Statistical fallacies	3
20.	Introduction of statistical software	3

II. Recent Advances in the subject of Oral Medicine and Radiology:**Total Credit Points: 04 (60 hours)**

Sr.No.	Topics	No. of Hours
1	Advances in maxillo-facial Imaging: CBCT Principles and Interpretations	10
2	Observation at other centres of Advanced Imaging: C.T. for maxillo-facial region M.R.I. for maxillo-facial region USG for maxillo-facial region	10
3	3-D Printing and CAD CAM	05
4	Recent advances in Diagnostic techniques and Management of oral mucosal lesions and conditions.	05
5	Recent advances in Diagnostic techniques and Management of oral potentially malignant lesions and conditions.	05
6	Workshop for Tobacco Cessation Techniques and Current concepts in tobacco cessation practices	05
7	Advances in Oral Oncology with focus on diagnosis. Current concept of Carcinogenesis with focus on genetics. Advances in diagnostic methods for oral cancer	05
8	Radiotherapy to maxillo-facial region.	05
9	Recent advances in Forensic Odontology	03
10	Stem cell therapy and its recent concepts	03
11	Lasers in Oral Medicine	02
12	TENS and Ultrasound in Oral Medicine	02

III Review of literature on the proposed research work:

Total Credit Points: 04 (60 hours)

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

Serial no.	Topic	No. of Hours
1.	Compilation of at least 90-100 articles from different journals.	15 hours
2.	Study of the collected articles, discussion and Preparation for review	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 area of specific interest	15 hours
2.	Study of the articles, discussion and Preparation	12 hours
3.	Presentation on Area of specific Research	3 hours

IV Research and Publication Ethics:

Total Credit Points: 02 (30 hours)

SL. No	TOPIC	No of Hours
1.	<p>Philosophy and Ethics Introduction to philosophy: definition, nature and scope, concept, branches Ethics: definition, moral philosophy, nature of moral judgments and reactions</p>	3
2.	<p>Scientific conduct Ethics with respect to science and research Intellectual honesty and research integrity Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP) Redundant publications: duplicate and overlapping publications, salami slicing Selective reporting and misrepresentation of data</p>	5
3.	<p>Publication ethics Publication ethics: definition, introduction and importance Best practices / standards setting initiatives and guidelines: COPE, WAME, etc. Conflicts of interest Publication misconduct: definition, concept, problems that lead to unethical behaviour and vice versa, types Violation of publication ethics, authorship and contributor ship Identification of publication misconduct, complaints and appeals Predatory publishers and journals</p>	07
4.	<p>Open Access Publishing Open access publications and initiatives SHERPA/ RoMEO online resource to check publisher copyright & self-archiving policies Software tool to identify predatory publications developed by SPPU Journal finder / journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggester, etc</p>	04
5.	<p>Publication Misconduct</p> <p style="padding-left: 20px;">A. Group Discussions (2 hrs.)</p> <p style="padding-left: 40px;">1. Subject specific ethical issues, FFP, authorship</p> <p style="padding-left: 40px;">2. Conflicts of interest</p> <p style="padding-left: 40px;">3. Complaints and appeals: examples and fraud from India and abroad</p> <p style="padding-left: 20px;">B. Software tools (2 hrs.)</p> <p style="padding-left: 40px;">Use of plagiarism software like Turnitin, Urkund and other open source software tools</p>	04
6.	<p>Database & research Metrics</p> <p style="padding-left: 20px;">A. Databases (4 hrs.)</p> <p style="padding-left: 40px;">1. Indexing databases</p>	07

	<ul style="list-style-type: none">2. Citation databases: Web of Science, Scopus, etc. <p>B. Research Metrics (3 hrs.)</p> <ul style="list-style-type: none">1. Impact Factor of journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score2. Metrics: h-index, g index, i10 index, altmetrics	
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