

**BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY)**

**DENTAL COLLEGE AND HOSPITAL, PUNE**

**Syllabus with time-table of Pre - PhD Course Work**

**PERIODONTOLOGY**

## **I. Research Methodology and Biostatistics (4 Credits means total 60 Hours)**

1. Introduction, definition and branches of biostatistics
2. "Collection of data, sampling, types, bias and errors
3. Compiling data-graphs and charts
4. Measures of central tendency (mean, median and mode), standard deviation and variability
5. Tests of significance (chi square test 't' test and Z-test)
6. Null hypothesis
7. Study designs
8. Descriptive Studies
9. Case control Studies
10. Cohort studies
11. Experimental Studies
12. Evaluation of New test
13. Qualitative methods in research
14. Systematic review and meta analysis
15. Data management in medical research
16. Descriptive statistics
17. Inferential statistics
18. Sampling methods
19. Sample size
20. Questionnaire designing
21. Critical appraisal of research paper
22. Reference searching
23. Ouality of research
24. Writing research proposal/paper/ dissertation

## **II. Recent advances in Periodontology (4 Credits means total 60 Hours)**

Student will present seminar on following topics

1. Etiopathogenesis of Periodontal Diseases
2. Periodontal Microbiology
3. Genetics in Periodontics
4. Periodontal Vaccines
5. Periodontal Medicine
6. Periodontal Regeneration.
7. Host Modulation in Periodontology.
8. Neutraceutical approaches in Periodontal Therapy.
9. Advanced diagnostic aids/ techniques in Periodontology.
10. Periodontal Plastic Surgery
11. LASER.
12. Microsurgery in Periodontics
13. Interdisciplinary Periodontics
14. Clinical Approaches for reconstruction of the deficient alveolar ridge (soft & hard tissue) & Implant site development)
15. Implant Surgery & Management of Complications / failures

### **III. Review of Literature on proposed research work : (Periodontology)**

**(4 Credits means total 60 Hours)**

a) Presentation on review of literature on proposed topic: (2 Credits means total 30 Hours)

b) Presentation on specified area of research : (2 Credits means total 30 Hours)

### **IV. Research and publication ethics (RPE): (Periodontology)**

**(2 credits = 30 clock hours)**

<b><u>Sr.no.</u></b>	<b><u>Topic</u></b>	<b><u>No.of Hours</u></b>
<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