

RAGAS DENTAL COLLEGE AND HOSPITAL

DEPARTMENT OF ORAL AND MAXILLOFACIAL PATHOLOGY

BIOSTATISTICS

1ST October 2022 - 28TH December 2022

COURSE CODE: SRCC2022/02

DURATION: 30 HOURS



Intended audience:

Post-graduate students of All Departments

Course Co-ordinators:

Dr.Ranganathan, Dr.Umadevi, Dr.Elizabeth, Dr.Rooban

Faculty:

All Staff members of Department of Oral Pathology

Course Outline:

Biostatistics is the application of statistical reasoning to the biological sciences, and it provides the key to unlocking research data and evidence published in the scientific literature. Biostatistics can assist in determining the most effective strategy to treat populations. The programme aims to bring a common platform for students to get involved in statistical theory and practice. This course facilitates the exchange of new innovations and ideas through novel ways. It aims to inspire the postgraduate students to galvanize the research arena and expanding the scientific horizons of statistical thinking.

Course Plan:

Week 1:	Data Management Collection, grouping, cleaning, attending to missing data
Week 2:	Computer applications and data management Basics of SPSS
Week 3:	Data in qualitative studies
Week 4:	Checking normality How? When? Why? What? Where?
Week 5:	Inferential statistics
Week 6:	Measures of central tendency Mean, median, mode, frequency, IQR
Week 7:	Variables, P -value: When to use? And when not to use?
Week 8:	Reporting of statistical analysis Tables, graphs, plots, pictorial representation, nomogram
Week 9:	Introduction of Bayesian theory
Week 10:	Survival analysis, Interpretation of statistics in discussion

Final Assessment:

Weekly – Assignment;

Monthly- viva voce;

End term: MCQ exam