ABOUT SCHOOL OF PUBLIC HEALTH

SRM School of Public Health conducts Two years Masters in Biostatistics and Epidemiology since 2010. The MSc Programme is a modular one and provides opportunities for interested persons to join specific modules. Biostatistics plays a vital role in any research starting from design to analysis and enables the researcher to provide scientifically accepted results. Since, Biostatistics is vital and relevant to researchers, teachers, students and health professionals working in Government and NGOs, this one week course is being offered to enable interested persons to join.

ABOUT THE COURSE

The statistical analysis of collected data is an inevitable part of almost any research work / project. Consequently, knowledge of and insight in the basic principles of data-analysis are essential for health researchers. The objective of this course is to introduce the researchers to biostatistical methods and the underlying principles of data analysis. This one week (5 days) program willenable the participants to perform basic analyses of their own data, and to interpret, predict, communicate and publish the results.

The main focus of the course will be on both descriptive and inferential statistical techniques, with emphasis on selection of appropriate application and interpretation of results. The course will have a heavy emphasis on practical applications, making extensive use of statistical package SPSS for data analysis.

COURSES OFFERED

BPH: An undergraduate program being launched at SRM School of Public Health with unique syllabus catering to the needs of the Public Health cadre as defined in National Health Policy 2017. Bachelor of Public Health (BPH) curriculum includes elements of the life and biological sciences, social sciences and humanities to provide students with an understanding of public health from a broad spectrum of approaches. Students will build the knowledge and skills needed to excel in a wide array of public health professions.

M.Sc. HDS: The M.Sc. in Health Data Science is the brain child of two units of SRM University, namely, Biostatistics Division of School of Public Health and Department of Information Technology, This unique programme which is combination of computing and statistical modules will develop skills in database management, programming, summarization, analysis and interpretation of big data. This interdisciplinary course is designed to train students of different disciplines to become tomorrow's leaders in this rapidly growing area. Organizations and companies currently recruiting data scientists include firms specializing in analytics, IT industries, and financial services and consulting as well as government agencies

CONTACT US

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SRM School of PublicHealth

SHORT COURSE FOR HEALTH RESEARCHERS

LEARNING BIOSTATISTICS THROUGH COMPUTERS

March 27th – 2nd April 2019

SRM
INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University u/s 3 of UGC Act, 1956)

LEARNING OBJECTIVES

- By the end of the course, the participant will be able to Compute measures of
- central tendency (Mean, Median, and Mode) and variability (Variance, Standard Deviation).
- Determine the appropriate sampling methodology and sample size needed for the research study.
- Perform and interpret one-sample, two sample, and paired t tests on means.
  Determine the relationship between continuous / categorical variables

  Presenting the graphs, charts and tables to communicate the results of statistical analyses for decision making purpose.
  Perform, present, and interpret basic statistical analyses using SPSS

COURSE CONTENT

- Introduction to Biostatistics : Definition, Types of data, Measures of Central tendency, Measures of dispersion
- Sampling: Overview, Types of Sampling techniques, sample size determination.
- Statistical Inference I: Estimation of mean and proportions, Confidence interval, P- Value and its importance
- Statistical Inference II: Testing of hypothesis for single mean and two means(Independent and dependent samples).
- Correlation and Regression analysis
- Chisquare analysis

MEDIUM OF INSTRUCTION

- English

METHODOLOGY

- The Pedagogy will follow a participatory learning approach. It includes problem solving, lecture discussions, case studies, hands-on practical sessions using statistical soft wares.

TARGET GROUPS/ PARTICIPANTS

- Researchers, Professionals and Post- Graduate students from Medical Sciences, Health sciences, Biological sciences and related fields who wants to work on their own research problem or wish to understand the scientific literature to critically evaluate the methods of data analysis.

CERTIFICATION

- All the participants who attend the program will be awarded Certificate of Participation by School Of Public Health, SRM Institute of Science and Technology.

VENUE

- The program will be held at School of Public Health, SRM Institute of Science and Technology, Kattankulathur Campus from 27th March 2019 – 2nd April 2019

PARTICIPANT FEE

- 3000* INR / Person (includes training fee, training material, Without Accommodation). The last date for registration would be 5th March, 2019.

  DD "SRMIST" Payable at Chennai

LAST DATE FOR REGISTRATION

22th MARCH 2019

FACULTY

- **Prof. M. Bagavandas**,an expert in Statistical Data Analysis from School of Public Health will be the lead faculty will be the faculty for managing the sessions of this programme.He has over 40 years of experience in the field of applied statistics. He has particular experience and expertise in teaching statistics to non- statisticians.
- **Ms. R. Thilagavathi**, from School of Public health SRM Institute of Science and Technology would also be the faculty for the course.

COURSES OFFERED

MPH: this is a 2 year program which seeks to provide students with an in – depth understanding of issues in public health principles and practice, and apply this to the specific challenges in delivery, research, planning and management of health services in their national context. This is the flagship program offered by the School of Public Health.
M.Sc. Bio & Epi: this is a 2 year program which will equip students with the skills necessary to enable them to work across the range of areas covered by the Medical, Pharmaceutical and Health – related fields and Epidemiology. This program serves to train health professionals to have in-depth knowledge of Epidemiology & biostatistics and its application to important clinical and public health issues