



Sri Devaraj Urs Academy of Higher Education & Research

Comprising Sri Devaraj Urs Medical College

(A Deemed to be University)

Research and Development Cell

Central Ethics Committee Re-registered under CDSCO -Registration No. ECR/425/Inst/KA/2013/RR-20 dated 28.4.2020

3.4.1 The Institution has a stated code of ethics

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S. M. Azeem Mohiyuddin
Dr. S.M. Azeem Mohiyuddin M.B.B.S.M.S.
SEKHSARIA FELLOWSHIP (Head & Neck)
F.I.C.S., F.A.C.S., M.N.A.M.S.,
KMC NO:31667
DIRECTOR
Research and Development Cell
SDUAHER

Ph.D. COURSE WORK

(One semester/10 credits)

SYLLABUS - RESEARCH METHODOLOGY (Total hours 130)

Unit 1.

Research hypothesis / Research question

10 hrs

- What is a research question?
- Refining research question - SMART -Specific Measurable Attainable Relevant Time constraint
- PICO model - Definition of Population, Intervention, Comparison and Outcomes

Unit 2.

Review of literature

10 hrs

- Need for Review of Literature
- Performing electronic literature search (PubMed, EMBASE, Ind Med, Cochrane)
- Medical journals / text books
- Use of Boolean operators, keywords and filters
- Bibliography (reference writing styles)
- Systematic review and Meta-analysis

Unit 3.

Study designs for Biomedical Research

15 hrs

- Pilot study
Observations (analytical - case control cohort, descriptive - cross sectional)
Experimental (Randomised clinical trials (RCT) and Non RCT)
Preclinical studies, Clinical trials:
- Nuremberg code, Declaration of Helsinki, Belmont principles
- Phases of clinical trials (Blinding, Randomization)
- International Conference on Harmonization (ICH) - Good clinical practice (GCP), Good laboratory practice (GLP)

Unit 4.

- Informed consent form
- Educational research ,questionnaire design, reliability, validity

10 hrs

Sampling and sample size calculation


20 hrs

- Different types of sampling (like cluster, stratified, purposive)
- Methods of estimating sample size
- Data – variables, scales

Data Analysis:

Choosing a statistical test – descriptive and inferential

- Parametric tests
- Non-parametric tests
- Post hoc tests
- Correlation and Regression
- Data interpretation
- Use of SPSS and other statistical packages



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Allied Health Sciences,
EDUAHER, Tamaka,
KOLAR-563 101.



Director
Department of Research and Innovation
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Tamaka, Kolar, Karnataka-563103

Unit 5	
Protocol writing/ Research proposal writing/grant writing for extramural funds	15 hrs
Unit 6	
Scientific communication	10 hrs
<ul style="list-style-type: none"> • Paper presentation at conference • How to write good scientific paper? • Structure of scientific paper, Abstract, Title, Introduction, Methods, Results, Discussion (IMARD) 	
Unit 7. Critical appraisal of article in journal	10 hrs
Unit 8. Thesis writing	10 hrs
Unit 9. Evidence Based Medicine	10 hrs
Unit 10. Ethical issues in research	10 hrs
<ul style="list-style-type: none"> • Institutional Animal Ethics Committee • Institutional Ethics Committee / Institutional Review Board • Research misconduct • Plagiarism • Authorship guidelines • Conflict of interest • Acknowledgement 	

References:

1. Biomedical Research. Jagadeesh G, Sreekant Murthy, Gupta YK, Amitabh Prakash, Lippincott Williams & Wilkins 2010.
2. Biostatistics: A foundation for analysis in health sciences. Wayne W Daniel. 2008.
3. Basic Epidemiology. Bonita R, Beaglehole and Kjellstrom T, 2nd Edition. 2007.
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M.Sc. in Molecular Biology and Human Genetics

Semester 3 - Paper 3 – Research Methodology and Biostatistics (50 hours)

At the end of the class, all students should be able to:

1. Scientific research

- Justify the need for undertaking scientific research
- List examples of health benefit arising due to scientific research

2. Process of scientific research

- Explain the steps involved in the scientific research

3. Research hypothesis

- Justify the need for framing a research question.
- Explain the features of research question
- Distinguish between hypothesis and null hypothesis

4. Review of literature

- Justify the need for review of literature
- Describe the sources of scientific literature

5. Electronic databases

- Explain the salient features of electronic databases and search engines
- Describe the salient features of PubMed
- Describe the salient features of EMBASE
- Describe the salient features of IndMED
- Describe the salient features of Cochrane Library

6. Tool for searching electronic literature

- Explain the significance of Boolean operators in electronic literature search
- Explain the significance of keywords in electronic literature search
- Explain the significance of filters in electronic literature search


7. Types of literature

- Explain the different types of scientific literature
- Distinguish between journal and magazine
- Distinguish between text book and monograph
- Distinguish between journal and text book

8. Journal articles

- Explain the different types of journal articles
- Distinguished between research article and review article
- Distinguish between research article and case-report

9. Types of scientific analysis


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- Explain the salient features of systematic review
- Explain the salient features of meta-analysis
- Distinguish between meta-analysis and systematic review

10. Bibliography

- Explain the significance of bibliography in scientific literature
- List the types of reference writing style
- Distinguish between Vancouver and Harvard systems of reference

11. Study Designs for Biomedical Research

- Define study design
- Explain the significance of study design
- Give the classification of study design
- Distinguish between descriptive and analytical studies
- Explain the significance of pilot study

12. Observational study design

- Explain the general features of observational study design
- Explain the salient features of case control study design
- Explain the salient features of cohort study design
- Explain the salient features of cross-sectional study

13. Experimental study

- Explain the general features of experimental study design study
- Define clinical trial
- Explain the salient features of clinical trial
- Distinguish between randomised and non-randomised clinical trial

14. Clinical trials

- Explain the phases of a clinical trial
- Explain the process of blinding in clinical trials
- Explain the process of randomisation in clinical trial
- Explain the significance of placebo in clinical trial

15. Ethics in biomedical research


- Justify the need ethics review in biomedical research
- Describe the principles of Nuremberg code
- Describe the features of Belmont principles
- Describe the features of Declaration of Helsinki
- Explain the attributes of International Conference on Harmonization

16. Preclinical studies

- Explain the process of preclinical study in drug development

17. Good practices

- Explain the salient features of Good Clinical Practice
- Explain the salient features of Good Laboratory Practice


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Biostatistics

1. Introduction to statistics

- Define statistics
- Scope of statistics in health sciences and physiotherapy
- List the different branches of statistics

2. Variable

- Define variable
- Classify variables with example for each
- Describe the different scales of measurements of variable

3. Data

- Define the types of data
- Define primary data
- Define secondary data
- List the different methods of measurement of data

4. Data presentation

- Describe the different methods of data presentation and list their importance
- Describe the different tabular methods of presenting data
- Illustrate the basic principles of data tabulation and its interpretation
- Define diagrammatic and graphical presentation of data
- List the advantages and disadvantages of diagrammatic and graphical presentation of data

5. Diagrammatic methods of presentation

- Explain the different diagrammatic methods of presenting discrete data
- Explain the different diagrammatic methods of presenting qualitative data
- Define a bar chart
- Define a pie chart, pictogram and spot maps

6. Graphical methods of presentation

- Explain the different graphical methods of presenting continuous data
- Define a histogram, frequency polygon and line graphs
- Justify the need for ogives-cumulative frequency curves. List its advantages

7. Central tendency

- Define central tendency
- Describe the purpose of central tendency
- Describe the various measures of central tendency
- Define mean, median and mode. List the merits and demerits of each
- Describe the methods of calculation for un-grouped data

- Describe the methods of interpreting results of un-grouped data

8. Grouped data

- Explain the methods of calculation And interpretation of grouped data
- Mention the guidelines for the usage of various measures of central tendency

9. Normal Probability distribution

- Define normal probability distribution
- Enumerate the role of normal probability distribution in statistical analysis
- List the characteristics of normal distribution curve
- Define Area Under the Curve
- Define normal limits and normal range of biological variants

10. Standard normal distribution

- Define standard normal distribution
- List the application of standard normal distribution in testing of significance
- Estimate the area under the normal curve
- Define Skewness and Kurtosis

11. Binomial probability distribution

- Define binomial probability distribution
- Define Dichotomous variables
- Describe variables with binomial distribution with 2 examples
- Estimate mean and variance for bio parameters

12. Sampling

- Define sampling
- Describe the scope of sampling in health research
- Enumerate the various sampling methods
- Define population, sample frame and sampling interval

13. Probability sampling


- Define probability sampling
- List the advantages and disadvantages of probability sampling
- Describe the various probability sampling techniques
- Describe SRS, systemic, stratifies and clustered sampling with an example for each

14. Probability sampling methods

- Describe multistage and multiphase sampling with an example
- Describe non probability sampling methods
- Define and list the importance of purposive, quota, convenience and snowball sampling methods

15. Confidence Interval

- Define confidence interval


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- List the different methods of interpretation of confidence Intervals
- Construct 95%, 99%, 90% CI with 2 examples for each

16. Test of significance

- List the guidelines for application of a test
- Describe parametric tests of significance
- Define homogeneity of variance
- Describe the significance and applications of student t test. Give an example

17. Interpretation of test results in hypothesis testing

- Describe Z-test with an example and list its application
- Explain the methods of interpreting test results in hypothesis testing

18. Non-parametric tests

- Define non-parametric tests
- List the guidelines for non-parametric test applications
- Describe the various commonly used non-parametric tests
- Explain Mann Whitney U test and Wilcoxon signed rank test with an example

19. Non-parametric tests for categorical variables


- Define Chi-square test with an example
- Describe the applications, limitations of Fisher's exact test and Mc. Nemar's test
- Explain Fisher's exact and Chi-square test with an example. Give its applications
- Interpret the test results using appropriate tests

20. Analysis of ANOVA

- Define ANOVA
- Explain the assumptions involved in ANOVA
- Explain the different types of ANOVA

21. Correlation and regression

- Define correlation
- Describe simple, multiple and linear regression model
- Describe the Logistic regression analysis for categorical variables
- Introduction to Multivariate analysis


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M.Sc. in Medical Laboratory Technology

Paper-1 Research methodology and biostatistics

Section A Research Methodology

Research hypothesis/Research question

- What is a research question?
- Refining research question-SMART –Specific Measurable Attainable Relevant Time constraint
- PICO model-Definition of Population, Intervention, Comparison and Outcomes

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Protocol writing & Informed consent from

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5. Statistical Methods in Medical Research, Armitage P, Berry G, Matthews JNS. 4th Edition.2001
6. Guidelines for use of Laboratory Animals in Medical Colleges, ICMR New Delhi 2001

SECTION B: BIO-STATISTICS

Educational research, questionnaire design, reliability, validity

Sampling and sample size calculation

- Different types of sampling (like cluster, stratified, purposive)
- Methods of estimating sample size
- Data-variables, scales

Data Analysis:

Choosing a statistical test-descriptive and inferential

- Parametric tests
- Non parametric tests
- Post hoc tests
- Correlation and Regression
- Data interpretation
- Use of SPSS and other statistical packages

Research proposal writing/grant writing for extramural funds

Scientific communication

- Paper presentation at conference
- How to write good scientific paper?
- Structure of scientific paper, Abstract, Title, Introduction, Methods, Results, Discussion (IMARD)


Critical appraisal of article in journal


Thesis writing

Evidence Based Medicine

Ethical issues in research

- Institutional Animal Ethics Committee
- Institutional Ethics Committee/Institutional Review Board
- Research Misconduct
- Plagiarism


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- Authorship guidelines
- Conflict of interest
- Acknowledgement

References :

1. Lwanga SK Cho-Yook Tye (Editors). Teaching Health Statistics, Twenty lessons and seminar outlines, World Health Organization, Geneva
2. Mahajan BK, Methods in Biostatistics for medical students and research workers. 6th Edition, Jaypee Brothers medical Publishers, New Delhi, 1997.
3. Sundr Rao PSS and Richard J. Introduction of Biostatistics; A Manual for students in Health sciences. Prentic-Hall of India Pvt. Ltd, New Delhi.
4. N.S.M. Rao : Elements of Health statistics

Assignments

1. Collection and tabulation of data
2. Graphical representation of data
3. Correlation and regression analysis
4. Student's 't' test
5. Chi-square test
6. ANOVA


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M.Sc. in Optometry

Research Methodology & Statistics

COURSE OBJECTIVES: This course is designed to provide the students the basic knowledge in Bio-statistics. At the conclusion of the course, the students will have the knowledge of data collection, statistical application and finally, presentation of the statistical data.

COURSE OUTCOMES:


1. Ability to write research proposal/grant application
2. Ability to do statistical analysis
3. Ability to write research articles (Medical writing)
4. Ability to critically evaluate the research material


COURSE PLAN: (Total: 30 hours)

1. Need for Research in optometry
2. Introduction to research methods , Conducting a literature review , Research design ,Sampling methods , Data collection and data collection tools , Data analysis : Quantitative and Qualitatively ,Public health research , **Issues in Research** .Writing skills for students
3. Introduction and method of collecting and presenting of statistical data
4. Calculation and interpretation of various measures like mean, median, standard deviations, Skewness and Kurtosis
5. Probability distribution
6. Correlation and regression
7. Significance tests and confidence intervals
8. Parametric tests –
 - Test for single proportion
 - Test for Equality of proportions
 - Test for single mean
 - Test for equality of means
9. ANOVA:-
 - One way
 - Two way
10. Non parametric tests –
 - Chi-square tests
 - Fisher's exact test
 - McNemar test
 - Mann-whitney U-test
 - Median test
 - Sign test
 - Wilcoxon test

TEXT /REFERENCE BOOKS:

1. Methods in Biostatistics by B.K Mahajan
2. Probability and Statistics by Murray
3. Epidemiology of Eye Diseases, by Gordon and Drawin
4. Research Methodology by SM Israni


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SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH

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[Constituent unit of Sri Devaraj Urs Educational Trust for Backward Classes (Regd.)]

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No. SDUAHER/KLR/ADMN/25 / 2020-21

Date: 04.04.2022

NOTIFICATION

In continuation of the Notification No. SDUAHER/KLR/ADMN/2199/2021-21 dated: 02.02.2021, the **Central Ethics Committee** of Sri Devaraj Urs Academy of Higher Education and Research, Kolar, is re-constituted as under:

1. **Dr. Kiran Katoch,**
Ex-Director, National, JALMA Institute for Leprosy & other Mycobacterial Diseases (ICMR), Tajganj, Agra(UP), C/o Dr Rohini Katoch. IPS, Superintendent of Police, Kolar. Chairman
2. **Mr. Subramani,**
Assistant Professor, Basaweshawara College of Law Kolar Member
3. **Mr. B. Suresh,**
President - District Chamber of Commerce, Vice Chairman, Indian Red Cross. Reporter, Press Trust of India, Parvathi Nilaya, BRM colony Kolar Member
4. **Dr. B.G. Prakash,**
Dean, College of Horticulture, Kolar Member
5. **Swami Chinmayananda Avadhuta,**
Co-ordinator, South India Ananda Marga Prachara Sangha, Ananda Marga Ashram, Kithandur, Kolar (T). Member
6. **Dr. K N Shashidhar**
Professor & HoD
Dept. of Biochemistry, SDUMC, Kolar Member
7. **Dr. N. Sarala**
Professor Pharmacology, SDUMC, Kolar Member
8. **Dr. Sharath. B**
Associate Professor, Dept. of Cell Biology & Molecular Genetics
Faculty of AH & BS, SDUAHER, Kolar Member
9. **Dr. Prabhu E**
Professor
Dept. of Orthopaedics, SDUMC, Kolar Member
10. **Dr. Azeem Mohiyuddin**
Professor
Department of ENT, SDUMC, Kolar Member

Member Secretary


Registrar, SDUAHER

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No. SDUAHER/KLR/ADMN/25 / 2022-23

Date: 04.04.2022

NOTIFICATION

The Academy by the approval of the Hon'ble Vice Chancellor of SDUAHER, the **Publication Board Member** is constituted as under

1. **Dr. P.N Sreeramulu**
Principal, SDUMC & Dean Faculty of Medicine, SDUAHER Kolar Chairman
2. **Dr. K.N.V Prasad**
Professor of Paediatrics, SDUMC
Registrar, SDUAHER, Kolar Member
3. **Dr. Dayananda C.D**
Dan Faculty of AH & BS, SDUAHER Member
4. **Dr. Sharath B**
Associate Professor
Cell Biology and molecular Genetics
SDUAHER, Kolar Member
5. **Dr. Prabhu E**
Associate Professor of Orthopaedics , SDUMC, Kolar Member
6. **Dr. K.N Shashidhar**
Professor & HoD
Dept. of Biochemistry, SDUMC, Kolar Member
7. **Dr. Azeem Mohiyuddin S.M**
Professor
Dept. of ENT, SDUMC, Kolar
Director, Research and Innovation, SDUAHER Member Secretary

Registrar
SDUAHER
Registrar

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Date: 04.04.2022

NOTIFICATION

As per the MoA section 3 Clauses (II) of the Academy and by the approval of the Hon'ble Vice Chancellor of SDUAHER, the **University Research Advisory Board** is constituted as under

1. **Dr. Indrani Karuna Sagar**
Director (R&I), Nitte University, Dean
Biomedical Sciences program Nitte University Centre for science Education
and Research Deralakatte, Mangalore-575018
Chairman
2. **Dr. S. L Hoti**
Director, Regional Medical Research Centre (ICMR)
National Highway No.4 Belagavi-590010
Member
3. **Dr. Thangam Menon**
Professor & HoD, Dept. of Microbiology
Dr. A.L.G PG Institute of Basic Medical Sciences
Chennai-600113.
Member
4. **Dr. Paturu Kondaiah**
Professor MRDG, IISC, Bangalore
Member
5. **Dr. P.N Sreeramulu**
Principal, SDUMC & Dean Faculty of Medicine, SDUAHER Kolar
Member
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Professor of Paediatrics, SDUMC
Registrar, SDUAHER, Kolar
Member
7. **Dr. P.R. Krishnaswamy**
Scientific Advisor, SDUAHER, Kolar
Member
8. **Dr. K.N Shashidhar**
Professor & HoD of
Dept. of Biochemistry, SDUMC
Member
9. **Dr. Prabhu E**
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10. **Dr. Prasanna Kamath B.T**
Professor & HoD
Dept. of Community Medicine, SDUMC, Kolar
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11. **Dr. Azeem Mohiyuddin**
Professor, Dept. of ENT,SDUMC
Research and Innovation, SDUAHER

Member Secretary

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1. **Dr. Pradeep Kumar G**
Hon'ble Vice Chancellor, SDUAHER
Chairman
2. **Dr. P.N Sreeramulu**
Principal, SDUMC & Dean Faculty of Medicine, SDUAHER, Kolar
Member
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SDUMC, Kolar
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6. **Dr. K.N Shashidhar**
Professor & HoD
Dept. of Biochemistry, SDUMC, Kolar
Member
7. **Dr. Madhavi Reddy**
Professor & HoD
Dept. of Clinical Nutrition and Dietetics
SDUMC, Kolar
Member
8. **Dr. Sheela SR**
Professor & HoD of OBG
SDUMC, Kolar
Member
9. **Dr. Sarulatha H**
Professor & HoD
Dept. of Physiotherapy
Dean, AH & BS, SDUAHER, Kolar
Member
10. **Dr. Giridhar R. Babu**
Professor, Head- Life course Epidemiology, Indian Institute of Public Health
Bangalore Public Health foundation of India, Bangalore
External Member
11. **Dr. Azeem Mohiyuddin**
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Registrar

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SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH

(A Deemed to be University declared under Section 3 of UGC Act 1956)

[Constituent unit of Sri Devaraj Urs Educational Trust for Backward Classes (Regd.)]

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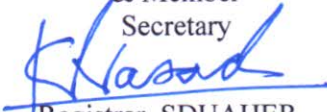
No. SDUAHER/KLR/ADMN/25 / 2022-23

Date: 04.04.2022

NOTIFICATION

The Academy by the approval of the Hon'ble Vice Chancellor of SDUAHER, the Core Committee Member is constituted as under

1. **Dr. Azeem Mohiyuddin S.M**
Professor, Dept. of ENT, SDUMC, Kolar
Director, R&I, SDUAHER
Chairman
2. **Dr. K.N Shashidhar**
Professor & HoD,
Dept. of Biochemistry, SDUMC
R&I, Advisor
& Member
3. **Dr. Arvind Natarajan**
Professor & Head
Dept. of Microbiology, SDUMC, Kolar
Member
4. **Dr. Sharath. B**
Associate Professor
Dept. of Cell Biology and Molecular Genetics
AH & BS, SDUAHER
Member
5. **Dr. Harish R**
Associate Professor
Dept. of Biochemistry, SDUMC, Kolar
Member
6. **Dr. Shilpa MD**
Assistant Professor
Dept. of Pathology, SDUMC, Kolar
Member
7. **Dr. Vishnuvardhan V**
Assistant Professor
Dept. of Anaesthesiology, SDUMC, Kolar
Member
8. **Dr. Waseem Anjum**
Assistant Professor
Dept. of Comm. Medicine, SDUMC, Kolar
Member
9. **Dr. Anitha A**
Associate Professor
Dept. of Medicine, SDUMC
Member
10. **Dr. Ravikiran H.R**
Assistant Professor
Dept. of Surgery, SDUMC, Kolar
Member
11. **Dr. Ashwini N S**
Associate Professor
Dept. of Anatomy, SDUMC, Kolar
Deputy
Coordinator
& Member
Secretary


Registrar, SDUAHER

Registrar
Sri Devaraj Urs Academy of Higher
Education and Research
Tamaka, Kolar - 563 103.