

## Bachelor of Vocation – Healthcare Management

### Undergraduate Curriculum Framework 2022(UGCF)

#### DISCIPLINE SPECIFIC ELECTIVE –DSE 4 : Research Design & Methodology in Healthcare

##### CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course (if any)
		Lecture	Tutorial	Practical/Practice		
DSE-4 Research Design & Methodology in Healthcare	4	3	1	0	NA	NA

#### Learning Objectives

By the end of this course, students should be able to understand the fundamentals of research methodology and its significance in the healthcare sector. The course aims to inculcate research aptitude among the learners and equip them with knowledge and skills required to successfully undertake various steps in the research process

#### Learning outcomes

By studying this course, students will be able to:

1. Identify and define research problems in the healthcare sector.
2. Apply appropriate research methodologies for healthcare studies.
3. Collect and analyze quantitative and qualitative data effectively.
4. Utilize statistical tools and software for data analysis

#### Syllabus

##### Unit 1: Introduction (10 Hours)

Meaning, Objectives, and Significance of Research in Healthcare Management, Types of Research: Exploratory, Descriptive, and Causal Research, Research Process and Steps in Research, Defining Research Problem and Formulating Hypotheses in Healthcare Research.

### **Unit 2: Research Design and Data collection (12 Hours)**

Meaning, need, features of good design; Research Design: Exploratory, Descriptive, and Experimental, Sampling Techniques: Probability and Non-Probability Sampling, Data Collection Methods: Primary vs. Secondary Data, Questionnaire Design and Interview Methods, Measurement Scales and Reliability & Validity.

### **Unit 3: Data Analysis and Interpretation (8 Hours)**

Introduction to Data Analysis- application of software for Data analysis with appropriate tools for Healthcare Research: Hypothesis Testing: Parametric and Non-Parametric Tests, Correlation and Regression Analysis, Interpretation of Research Findings.

### **Unit 4: Report Writing and Presentation (15 Hours)**

Types of Research Reports, Structure and Components of a Research Report , Steps in Report Writing: Format and Presentation of Report, Review of related literature and its implications at various stages of research. Major findings, Conclusions and suggestions; Citation of references: Referencing (APA etc.), bibliography, Presentation of Research Findings, Ethics in Health Research- Confidentiality and privacy, informed consent, vulnerable cases and special treatments, standards of care – principles, review processes etc.

#### **Essential/recommended readings-**

1. Kothari, C. R., & Garg, G. (2019). Research methodology: Methods and techniques (4th ed.). New Age International Publishers.
2. Bhattacharyya, D. K. (2006). Research methodology. Excel Books.
3. Krishnaswamy, K. N., Sivakumar, A. I., & Mathirajan, M. (2009). Management research methodology: Integration of principles, methods and techniques. Pearson Education India.
4. Gupta, S. P. (2014). Statistical methods (43rd ed.). Sultan Chand & Sons.
5. Aggarwal, R.K.(2019)- Essentials of clinical research:A practical guide.Jaypee Brothers Medical Publishers.

#### **Suggested Readings-**

1. Kothari, B. L. (2007). Research Methodology: Tools and Techniques. Jaipur: ABD Publishers.
2. Thakur, A. (2016). Research methodology in medical and health sciences. Jaypee Brothers Medical Publishers.
3. Rao, T. S. S., & Richard, J. (2017). Research methodology in health sciences. Paras Medical Publisher.
4. ICMR Guidelines and Publications

**Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.**