# DIPLOMA IN HEALTH RESEARCH AND BIOSTATISTICS

# SHAHEED ZULFIQAR ALI BHUTTO MEDICAL UNIVERSITY
## Department of RESEARCH AND PUBLICATION

# INTRODUCTION

The Shaheed Zulfiqar Ali Bhutto Medical University (SZABMU), a public sector federal university, was established in the premises of a premier postgraduate medical institute, Pakistan Institute of Medical Sciences, Islamabad; by an ordinance of national assembly on 21st March, 2013. The SZABMU, a budding institution on the horizon of medical education of Pakistan, has taken no time to establish its credentials under the dedicated and visionary educational leadership. The university has made an immediate impact in the field of healthcare, postgraduate medical education and research pertaining to serious health problems faced by our country.

The SZABMU has structured training programs in 32 disciplines of medicine, surgery and dentistry. It is also involved in postgraduate education of paraclinical and basic medical sciences and offers MPhil and PhD in 12 disciplines. The university has a vibrant 5 years MBBS program. It has a Federal Medical and Dental College, a constituent medical college; besides 4 other private sector medical colleges in Islamabad capital territory attached to it. The university also runs several graduate and postgraduate courses in the fields of nursing, pharmacy, rehabilitation sciences and medical laboratory technology.

# DIPLOMA IN HEALTH RESEARCH AND BIOSTATISTICS

SZAB Medical University has launched a one-year Diploma course "Diploma in Health Research and Biostatistics". The first program was started in July, 2021.

# COURSE DESCRIPTION

This course will provide the learners an in-depth understanding on how to develop research methodology, comprehend basic statistical principles and their application in both quantitative and qualitative research studies in the field of health sciences.

# AIM

The aim of this course is to develop practical skills in formulating research questions and using the appropriate research methodology. The primary focus shall be on understanding the rules governing descriptive and inferential biostatistics to collect, analyze and interpret relevant data in the field of medical sciences.

# COURSE OBJECTIVES

On completion of this course, participants will be able to:
- Define various statistical terms.
- Explain the various statistical methods used in health sciences.
- Analyze the use of statistics in relevant research studies.
- Utilize descriptive and inferential statistics in different disciplines.
- Develop research questions and formulate hypotheses.
- Review existing literature by using different databases.
- Recognize the research process as a systematic approach to thought that generates knowledge in health sciences.
- Explore health related problems that can be translated into a research project.
- Utilize ethical considerations and regulations used in the protection of human subjects and the conduct of research.
- Develop individual research proposals for future research.

# TEACHING/LEARNING STRATEGIES

- Interactive lectures.
- Small group discussions.
- Tutorial practices.
- Assignment based problem solving exercises.
- Individual consultations with facilitators for proposal development.

# COURSE EXPECTATIONS

In order to successfully meet the objectives of the course, it is expected that the participant will:
- Complete pre-reading and preparation required for each session.
- Attend all sessions.
- Submit assignments on due dates.
- Initiate assignment and proposal related discussions in advance.
- Active participation throughout the course duration.

# ASSESSMENT CRITERIA

By the end of the course, participants are expected to:
- Ensure 100% attendance in all contact sessions.
- An assignment after every two contact sessions, eight in total assignment will be given.
- Complete a research proposal which should be ready for submission OR
- Complete a write-up of an article to be submitted in an impact factor/HEC recognized journal.
- At the end an MCQs type paper of 100 marks will be conducted as final exam.
- An OSPE exam of 100 marks will be conducted at the end of course.

# COURSE DURATION

- One year, spread over two-days contact sessions every six weekly
- (Total 18 days Contact Sessions)

# SESSION TIMINGS

- 09:00AM TO 2:00PM

# ELIGIBILITY CRITERIA

- Post graduate health care professionals are eligible to enroll in this course.
- Priority shall be given to the professionals who are already actively involved in research activities.

# PROPOSED NUMBER OF PARTICIPANTS

- 20 Candidates

# FEE OF COURSE

- Total Course Fee = Pkr 120,000
- Which can be paid at the time of admission or in two equal instalments.

## Course Faculty:

| | |
|---|---|
| 1. Dr. Fibha Syed<br>Assistant Professor, SZABMU | 6. Dr. Ayesha Nazuk Rao<br>NUST, Islamabad |
| 2. Dr. Ali Arif<br>Assistant Professor, SZABMU | 7. Dr. Farooq Ahmed<br>AP SOD, SZABMU |
| 3. Dr. Junaida Sarfraz<br>Assistant Professor, SZABMU | 8. Dr. Lakis Liloglou<br>Edge Hill University, UK |
| 4. Dr. Nighat Haider<br>Assistant Professor, SZABMU | 9. Dr. Philip Welsby,<br>Edge Hill University, UK |
| 5. Mr. Muhammad Afzal<br>Biostatistician, SZABMU | 10. Dr. Kiran Riaz<br>Assistant Professor, SZABMU |

## FOR FURTHER DETAILS CONTACT

www.szabmu.edu.pk

biostatistician@szabmu.edu.pk

051-9107740

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## DIPLOMA IN HEALTH RESEARCH AND BIOSTATISTICS

## ADMISSION FORM

Recent Photograph

Name: _____

Father's Name: _____

Date of Birth: _____  Gender: [Male/Female]

**Contact Information:**

Office Address: _____

_____

Mailing Address: _____

_____

E-mail Address: _____

Phone #:  Office_____Res _____

Mobile #: _____

**Employment information** (Current Position):

Designation: _____

Institution/Organization: _____ Date of Joining _____

Address: _____

_____

Tel No. _____

Current Job Responsibilities (Brief) _____

_____

**Academic Qualifications:** (Starting from MBBS/BDS)

| S/No | Name of Qualification | Institution | Year obtained | City/Country |
|------|----------------------|-------------|---------------|--------------|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |

**Professional Experience:** (in years)

Primary Specialty: _____

Teaching Experience: _____

**Employment Experience:**

| Designation | Institution | Start Date/Finish Date | Duration |
|---|---|---|---|
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|  |  |  |  |

**Number of publications in indexed Journals:** (Attach detailed list)

National: _____

International: _____

## Experience in Medical Research:

Course attended: _____
_____
_____

Workshops attended: _____
_____
_____

Workshops Conducted: _____
_____
_____

**Computer Literacy**

|  | Good | Fair | Nil |
|---|---|---|---|
| ➢ MS Word | ____ | ____ | ____ |
| ➢ MS PowerPoint | ____ | ____ | ____ |
| ➢ SPSS | ____ | ____ | ____ |
| ➢ Internet | ____ | ____ | ____ |
| ➢ NVIVO Software | ____ | ____ | ____ |

**Financial Support**

Who will pay your fee _____ Institution _____ Self _____ any other _____

**Processing Fee of Pkr 1000 paid:** ( )

**Processing fee  Paid  in the form of Bank chalan** ( )    **or bank draft** ( )

**Bank chalan/draft #** _____ dated_____ amounting to Rs.
**1000** /- in favour of  <u>SZABMU fees & Dues, A/c # 1780-3016856019  NBP, PIMS Branch</u>

**List of documents to be included in application:**

- ➤  **Bank chalan or draft of processing fee**
- ➤  Application form duly completed
- ➤  2 x Passport size photographs

- ➤  Attested copies of followings:-
  - •  Computerized National Identity Card
  - •  Degree of MBBS/BDS or equivalent
  - •  PMDC Registration
  - •  Certificate of educational workshops/courses attended

## U N D E R T A K I N G

     I have carefully read the instructions and testify that all the information provided is complete and correct. I understand that withholding any information or providing false information shall make me ineligible for admission to this program. I agree to bear all expenses incurred on travel, boarding and lodging, for attending contact sessions and those incurred on purchasing of books and reference material.

_____                    _____

     Signature                                      Date