**Tanta University Environmental Forum**

**Workshop**

**“How to perform study power analysis and sample size calculation”**

***Accredited by the American Association of Continuous Medical Education by 6.5 hours***

**Organized by**

**Public Health & Community Medicine Department**

**Faculty of Medicine – University of Tanta**

**Workshop coordinator**

**Dr. Ibrahim Ali Kabbash**

***Professor of Public Health & Community Medicine***

***Faculty of Medicine – University of Tanta***

* **Background**:
* This is a one day’s workshop designed for under and postgraduate students to familiarize them with the method of calculation of their study power analysis and sample size. Also, the study will focus on different methods of probability sampling in different types of studies. The training will include practical sessions on the topic which will be performed using Epi-Info software program created by WHO and CDC.
* **Objectives of the training:**

By end of training the trainees will be able to:

1. Recognize the concept of power analysis and importance of sample size calculation.
2. Identify the needed criterial and data foe power analysis and sample size calculation for different types of studies
3. Acquire the sill to perform power analysis and sample size calculation of his/her research
4. Use perfectly different methods of probability sampling and identify proper method for each study.
* **Target trainees:**
* Postgraduate and undergraduate students interested in research implementation in the following faculties:
* ***Medicine***
* ***Nursing***
* ***Dentistry***
* ***Pharmacy***
* **Workshop Duration:**
* One day; 6 hours training hours.
* **Venue of training:**
* Faculty of Medicine Public Health Department, fourth floor
* **Registration:**
* Through contact with Ms Sara at Public Health Department; mobile number 01008542462.
* Number of trainers is limited to 25 and priority will be given according to date of registration.
* Prior registration is essential prior to 30 December, 2019. A payment of 100 pound should be paid on registration.
* Complete registration fees should be paid before 30th January 2020.
* Cancellation of registration is possible before January 1st after that date the 100 pounds are not refundable.
* **Date of workshop: 23 February , 2020**

**Training program contents**

**Date 23/2 /2020**

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| **Timing** | **Topic** | **Facilitator** |
| **8:30-9:30** | * **Registration and opening**
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| **9:30-10:00** | * **Importance of power analysis and sample size calculation**
 | Prof., Kabbash |
| **10:00-11:00** | * **Data needed for power analysis and sample size calculation**
 | Prof., Kabbash |
| **11:00-12:00** | * **The concept of internal and external validity.**
* **Type I & II statistical errors**
 | Prof., Abou-Zied |
| **12:00-12:30** | **Break**  |  |
| **12:30-1:00** | * **Hand on power analysis and sample size calculation using Epi-Info**
 | Prof., Kabbash |
| **1:00-2:00** | * **Practical work by trainees on Epi-Info**
 | Prof., Kabbash |
| **2:00-3:00** | * **Probability methods for sample section**
 | Prof., Abou-Zied |
| **3:00 -3:30** | **Wrap up and closing** |  |