

Tentative Programme

*Excursion Trip to Swat Valley (Optional)

The valley of Swat, famous for its scenic beauty, snowcapped peaks, countless waterfalls and glaciers, water springs and pastures, streams and rivulets, thick woods, glades and glens, natural parks, lakes and dark forests. It is truly labeled as the Switzerland of Asia.



20 August 2017

08:00 am – 09:30 am Registration & Inauguration

09:30 am – 10:00 am Tea Break

10:00 am – 11:30 am The Machine Learning Revolution in Computational Biology & Medical Informatics

11:35 pm – 12:45 pm Economic Analysis of Agricultural Research

12:45 pm – 02:00 pm Lunch Break

02:00 pm – 03:00 pm Introduction about AMOS (A Statistical Software)

03:05 pm – 04:00 pm Practical on AMOS

07:00 pm 09:00 pm Welcome Dinner

21 August 2017

08:30 am – 10:00 am Gene Expression Data Classification for Cancer Detection through Supervised Learning Models

10:00 am – 10:30 am Tea Break

10:30 am – 11:30 am How to Install and Use Citation Management Tool: EndNote

11:35 am – 12:35 pm Practical on EndNote

12:35 pm – 01:45 pm Lunch Break

01:45 pm – 02:45 pm The Effective Use of Descriptive & Inferential Statistics

02:45 pm – 03:00 pm Coffee Break

03:00 pm – 04:00 pm The Appropriate Use of Statistical Methods and Design for Valid Inferences in Applied Agricultural Research

22 August 2017

08:30 am – 10:00 am Hypothesis Testing through SPSS

10:05 am – 11:00 am Practical on SPSS

11:00 am – 11:30 pm Concluding Ceremony

11:30 am – 12:00 pm Refreshment

23 August 2017

Contact

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Nuclear Institute for Food & Agriculture (NIFA), Peshawar



Swat Institute of Nuclear Medicine, Oncology & Radiotherapy (SINOR), Swat



Islamia College (University), Peshawar



Second Interdisciplinary Statistical Data Analysis Workshop

Improving Skills in Statistical Applications

21-23 August 2017

Venue

Swat Institute of Nuclear Medicine, Oncology & Radiotherapy
(SINOR), Saidu Sharif, Swat



Workshop Coordinators

Prof. Dr. Sareer Badshah
ICU, Peshawar

Dr. Akif Ullah Khan
Director, SINOR, Swat

Dr. Muhammad Amin
Sr. Scientist, NIFA, Peshawar

RESOURCE PERSONS

1. **Prof. Dr. Sareer Badshah**
Islamia College (University),
Peshawar
2. **Dr. Sajjad Ahmad Khan**
Abdul Wali Khan University,
Mardan
3. **Dr. Muhammad Asif
Kamran**
Nuclear Institute of
Agriculture & Biology,
Faisalabad
4. **Dr. Fayyaz-ul-Amir Afsar
Minhas**
Pakistan Institute of
Engineering and Applied
Sciences, Islamabad
5. **Dr. Asma Gul**
Shaheed Benazir Bhutto
Women University,
Peshawar
6. **Dr. Muhammad Amin**
Nuclear Institute for Food &
Agriculture, Peshawar
7. **Dr. Mariam Rehman**
Lahore College for Women
University, Lahore
8. **Mr. Muhammad Khawar
Bashir**
University of Veterinary &
Animal Sciences, Lahore

About the workshop

Statistics is a vital tool for research and academic organization to design, implement and interpret the results in a coherent and logical manner. It lends credibility to a researcher's data and enables the policy makers to draw correct quantitative inference from the solid affirmation of statistically analyzed data to take decisions for nation building measures. In this scenario, the trend of reliance on precise data generated from well designed experiments is increasing day by day which call for equipping the researchers and academicians with latest skills and software tools for this subject. The workshop being organized by NIFA, Peshawar in collaboration with SINOR, Swat and ICU, Peshawar is aimed to achieve this objective with a vision to upscale the know-how of the participants so that they can feel more facilitation and confidence in designing of experiments and data analysis

Outline of the workshop

- The appropriate use of statistical methods and designs
- The use of probability distribution in applied research
- Computational techniques in agriculture & medical research
- Methods used for gene-expression data sets classification for cancer diagnosis
- Application & Introduction on AMOS(a statistical software)
- Economic analysis of agricultural research & projects
- Statistical process control methods with applications
- The testing of proposed hypothesis on diverse nature of issues by SPSS(a statistical software)
- Introduction on Citation Management Tool (EndNote)
- The effective use of descriptive and inferential statistics

Who should attend?

Scientists/ Medical Doctors / Faculty Members / Policy Makers / Students working in Agriculture, Medical, Biological and Social Sciences.

Application for Participations

Application duly completed on the prescribed format should reach to the workshop coordinator on or before August 05, 2017. In-service candidates should apply through proper channel.

Workshop application form can be downloaded from www.nifa.org.pk

Registration Fee

- Professionals : Rs. 2000/-
 - Students : Rs. 1000/-
 - *Excursion Trip: Rs. 1000/- per head (Including breakfast + Lunch)
- Note: The registration fee covers workshop material, Tea / Coffee breaks, luncheon and academic dinner.

Boarding and Lodging

Participants will have to make arrangement of stay in Swat at their own. TA / DA will be responsibility of nominating organization / establishment. Pick & drop service may be provided subject to availability. Accommodation and its rates will be provided on request.

Workshop Organized by

**Nuclear Institute for Food & Agriculture (NIFA)
Peshawar**

In collaboration with

**Swat Institute of Nuclear Medicine, Oncology &
Radiotherapy, (SINOR), Saidu Sharif, Swat**

&

Islamia College (University), Peshawar

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Vice Chancellor,
ICU, Peshawar

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Director (A&B), PAEC

Dr. Aurang Zeb,
Director, NIFA

Dr. Akif Ullah Khan
Director SINOR, Swat

Organizing Committee

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Dy. Director, NIFA

Prof. Dr. Sareer Badshah
Chairman Dept of Statistics
ICU, Peshawar

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