

**“RESEARCH METHODOLOGY & SPSS WORKSHOP”**  
**ORGANIZED BY**  
**DEPARTMENT OF PATHOLOGY / MEDICAL EDUCATION**  
**KHYBER MEDICAL COLLEGE, PESHAWAR**

A three days workshop (2<sup>nd</sup> to 4<sup>th</sup> July 2018) on Research Methodology and SPSS is organized by Department of Pathology and Department of Medical Education Khyber Medical College, Peshawar.

Professor Dr. Muhammad Tahir Khan Chairman Pathology KMC is the Chief Organizer. Associate Prof. Dr. Ahmad Rafiq, Assistant Prof Dr. Asif Hussain Munir and Assistant Prof Dr. Haroon Afridi are the organizers.

The inauguration session started at 9:00 A.M with the recitation of the Holy Quran by Associate Prof. Dr. Ahmad Rafiq followed by Welcome Remarks of Prof. Dr. Muhammad Tahir Khan and address by Professor Dr. Noor ul Iman, Honorable Dean Khyber Medical College, Peshawar.

Participants include more than 50 doctors from Medical Colleges and Hospitals of various districts of Khyber Paktunkhwa including Peshawar, Mardan, Nowshera etc.

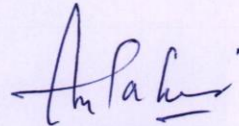
Dr. Muhammad Marwat is the resource person for this workshop. He is an Ophthalmologist by profession and working as Assistant Professor in the Department of Ophthalmology Gomal Medical College, D.I.Khan. He has keen interest in Learning and Teaching Research. He has conducted several National & International workshops on Research Methodology and Research related activities. He is Trainer for Master Trainers for HEC, Trainer for OJS and Editor GJMS.

Detail of scientific sessions of this three days workshop is as under:-

FIRST DAY: MONDAY, JULY 2, 2018	
SESSIONS/ TIMINGS	ACTIVITY
<b>Session 1: Introduction to Research</b> 09.00 am to 10.00 am	1.1 Research: A 4-Step Systematic Process 1.2 Study Designs: Observational versus Experimental 1.3 Types of Research: Quantitative versus Qualitative 1.4 Transforming Qualitative to Quantitative Research 1.5 Questionnaire: to Do & Not-to-Do Lists
<b>Session 2: Introduction to Statistics</b> 10.00 am to 11.00 am	2.1 Descriptive Statistics 2.2 Inferential Statistics 2.21 Estimation of Parameter 2.22 Testing of Hypothesis
<b>Session 3: Introduction to SPSS &amp; Descriptive Statistics</b> 11.15 am to 12.45 pm	3.1 SPSS Data Editor & Output Viewer 3.2 Variables & Data Entry & Transform/ Compute Variable 3.3 Analyzing Questionnaire through Data Matrix 3.4 Analyzing Nominal & Ordinal Data: Count & % 3.5 Tests of Normality: Skewness, Kurtosis, 1-Sample KS test

SECOND DAY: TUESDAY, JULY 3, 2018	
<b>Session 4: Estimation of Parameter &amp; One Sample Statistics:</b> 09.00am-10.00am	4.1 Parameter for Categorical Data 4.2 Parameter for Numeric Data 4.3 Categorical Data: Chi-square goodness of fit test 4.4 Numeric Data: 1-sample t test & Wilcoxon signed test
<b>Session 5: Tests for difference; Parametric &amp; Non-Parametric Tests</b> 10.00am-11.00am	5.1 Independent 2-Samples T test, Paired Samples T test 5.2 One-Way ANOVA 5.3 Mann-Whitney U test, Kruskal-Wallis test 5.4 Wilcoxon, Friedman & Cochran Q tests
<b>Session 6: Tests for Relationship; Parametric &amp; Non-Parametric Tests</b> 11.00am to 12.45 pm	6.1 Pearson & Spearman Correlation 6.2 Linear Regression 6.3 Multiple Regression 6.4 Chi-square test of Association (Independence)
THIRD DAY: WEDNESDAY, JULY 4, 2018	
<b>Session 7</b>	<b>Proposal Writing</b>
<b>Session 8 &amp; 9</b>	<b>Thesis Writing-1 / Thesis Writing-2</b>

Dated. 02/07 /2018.

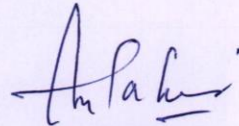


**CHAIRMAN**  
 Pathology Department  
 Khyber Medical College,  
 Peshawar.



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