



MAHARAJA AGRASEN UNIVERSITY

Organizes

8th One Week National Workshop on

RESEARCH METHODOLOGY AND DATA ANALYSIS

18th July to 23rd July, 2022



Day 1 (18 th July, 2022)			
S. No.	Topic	Resource Person	Timings
	Inauguration of the Workshop		10:00 A.M – 11:00 A.M
1.	<ul style="list-style-type: none"> Basics of Research including scientific research process Critical review of literature How to decide Research methodology and Hypothesis 	Prof.(Dr.) A.K. Vashisht Dean Research and Director PCJ School of Management, Maharaja Agrasen University	(Session: I) 11:00 A.M.-12:00 P.M.
2.	<ul style="list-style-type: none"> Hypothesis Formulation Developing Questionnaire Sampling design and sampling techniques 	Dr. Inderpal Singh Arora Professor School of Management Studies Punjabi University, Patiala	((Session: II) 12:15 P.M. – 1:15 P.M. (Session: III) 2:30 P.M-3:30 P.M
Day 2 (19 th July, 2022)			
3.	<ul style="list-style-type: none"> Descriptive Statistics, Data Preparation Entering data into SPSS Normal distribution of data, Calculation of Central Tendency, dispersion Skewness and Kurtosis Measurement and scaling techniques Reliability and Validity of data Use of Statistical tools including Crosstabs, t-Test, Factor Analysis 	Dr. Kapil Dev Assistant Professor GGSDS College Chandigarh	(Session: I) 11:00 A.M.-12:00 P.M. (Session: II) 12:15 P.M. – 1:15 P.M. (Session: III) 2:30 P.M-3:30 P.M
Day 3 (20 th July 2022)			
4.	<ul style="list-style-type: none"> Introduction to Qualitative Research: Case Study and content analysis Non Parametric tests: Concepts, Exercises and Interpretation (Chi-Square test, Mann Whitney test, Wilcoxon single rank test, Kruskal Wallis test) Statistical Analysis using Excel Charts Practical exercises and interpretations on above mentioned concepts 	Dr, Tejinder Pal Singh Associate Professor University Business School Panjab University Chandigarh	((Session: I) 11:00 A.M.-12:00 P.M. (Session: II) 12:15 P.M. – 1:15 P.M. (Session: III) 2:30 P.M-3:30 P.M
Day 4 (21 st July, 2022)			
5.	<ul style="list-style-type: none"> ANOVA(one way and two way)using SPSS Use of Statistical tools including Regression and Correlation analysis using SPSS Exercises on Regression and Correlation 	Dr. Pankaj Madan Professor Faculty of Management Studies Gurukul Kangri Vishwavidyalaya Haridwar	(Session: I) 11:00 A.M.-12:00 P.M. (Session: II) 12:15 P.M. – 1:15 P.M.
6.	<ul style="list-style-type: none"> Use of software in writing references How to select a journal for publication Plagiarism and related issues 	Dr. Deepankar Ashish Associate Professor, Maharaja Agrasen Institute of Technology, Maharaja Agrasen University,	(Session: III) 2:30 P.M-3:30 P.M

	<ul style="list-style-type: none"> • <i>Writing Research Paper\Thesis using Latex</i> 	Baddi	
Day 5 (22nd July, 2022)			
7.	<ul style="list-style-type: none"> • <i>Time series analysis, Volatility Models (Garch Family Models)</i> • <i>Writing research articles and proposals: Structure of a research paper</i> 	Dr. Nikhil Kaushik Assistant Professor Chandigarh University, Punjab	(Session: I) 11:00 A.M.-12:00 P.M. (Session: II) 12:15 P.M. – 1:15 P.M.
8.	<ul style="list-style-type: none"> • <i>Multivariate techniques: MANOVA, Conjoint Analysis, MDS, Cluster Analysis</i> 	Dr. Monica Bedi Associate Professor University School of Business Panjab University	(Session: III) 2:30 P.M-3:30 P.M
Day 6 (23rd July, 2022)			
9.	<ul style="list-style-type: none"> • <i>Introduction to Structural Equation Modeling using AMOS</i> • <i>Confirmatory Factor Analysis (CFA), Checking Discriminant Validity :Average Variance Extracted (AVE)and Composite Reliability(CR)</i> • <i>Structural Equation Modeling, confirming, conversing and interpreting the model.</i> • <i>Mediation using AMOS</i> • <i>Moderation using SPSS and AMOS</i> • <i>Practical Exercises: Problem solving and interpretations on Mediation and Moderation</i> • <i>Fundamentals of MATLAB</i> 	Dr. Urvashi Tandon Associate Professor Chitkara University, Rajpura	(Session: I) 11:00 A.M.-12:00 P.M. (Session: II) 12:15 P.M. – 1:15 P.M. (Session: III) 2:30 P.M-3:30 P.M
	Valedictory Session		3:30 P.M – 4:15 P.M

- Sessions on Day 1 and Day 6 of the workshop will be on offline mode in the Maharaja Agrasen University campus.
- Sessions on Day 2 to Day 5 shall be online on Microsoft office Teams platform. The link to join these sessions will be sent to the registered participants through e-mail.