**Programme Details**

**Programme:** INTRODUCTION TO QUANTITATIVE RESEARCH FOR THE SOCIAL SCIENCES  
**Course Length:** Two days

**Course Synopsis**

Quantitative research is a popular research approach to study natural phenomena. A good quantitative research would have to be based on solid theoretical framework, representative samples, valid and reliable research tools and appropriate data collection procedures. This course is designed to help participants to plan the execution of a quantitative research and outline the writing of a quantitative research report. The participants will be able to choose a quantitative research method, select an appropriate data collection technique, develop the research instruments, plan the data collection procedures and outline a quantitative research report.

**Course Objectives**

The course is designed to fulfil the following objectives:
- To expose the participants to the features of major quantitative research methods;
- To discuss various aspects of design in a quantitative research;
- To provide participants with basic skills in quantitative data gathering techniques;
- To explore various statistical tools for quantitative research;
- To outline the writing of a quantitative research report.

**Course Learning Outcomes**

By the end of the course, participants will be able to:
- Evaluate the usefulness of major quantitative research methods;
- Plan a quantitative research in an authentic context;
- Discuss the design of quantitative research and data gathering procedures;
- Select appropriate statistical tools for various research purposes;
- Demonstrate the ability to analyse and interpret research findings;
- Write an outline of a quantitative research report.

**Course Contents**

- Features of major quantitative research methods
  - Experimental designs
  - Quasi-experimental designs
  - Quantitative Non-experimental designs
- Designing a quantitative research
  - Sampling techniques and procedures
  - Planning data collection procedures
  - Ensuring validity and reliability of research tools
- Designing quantitative data gathering tools
  - Questionnaire
  - Quantitative Observation
  - Structured Interview

- Choosing statistical tools for various research purposes
  - Descriptive statistics
  - Univariate analysis
  - Bivariate analysis
  - Multivariate analysis

- Writing a quantitative research report
  - The format of a quantitative research report
  - The structure of a quantitative research report
  - The writing style of a quantitative research report

**Course Plan**

<table>
<thead>
<tr>
<th>TIME</th>
<th>DAY 1</th>
<th>DAY 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.00 – 10.30</td>
<td><strong>Introduction</strong>&lt;br&gt;- Types of quantitative Research&lt;br&gt;- Choosing a quantitative research method&lt;br&gt;- The quantitative research process&lt;br&gt;- Writing research objectives and formulating research hypothesis</td>
<td><strong>Choosing statistical Tools to Analyse Quantitative Data</strong>&lt;br&gt;- Descriptive statistics&lt;br&gt;- Univariate statistical tools&lt;br&gt;- Bivariate statistical tools&lt;br&gt;- Multivariate statistical tools</td>
</tr>
<tr>
<td>10.45 – 12.30</td>
<td><strong>Workshop</strong>&lt;br&gt;Identifying a research problem &amp; research objectives, research hypotheses and determining research significance and scope</td>
<td><strong>Workshop</strong>&lt;br&gt;Analysing and interpreting research findings</td>
</tr>
<tr>
<td>1.30 – 3.00</td>
<td><strong>Doing Literature Review and Constructing Theoretical Framework</strong>&lt;br&gt;- Doing and writing the literature review&lt;br&gt;- Constructing a theoretical framework</td>
<td><strong>Writing a Quantitative Research Report</strong>&lt;br&gt;The format, structure and writing style of a quantitative research report</td>
</tr>
<tr>
<td>3.15 – 5.00</td>
<td><strong>Planning Data Gathering Procedures for Quantitative Research</strong>&lt;br&gt;- Sampling techniques and procedures&lt;br&gt;- Designing the research tool&lt;br&gt;- Ensuring validity and reliability of research tools</td>
<td><strong>Workshop</strong>&lt;br&gt;Presentation of quantitative research plans&lt;br&gt;Recapitulation and feedback session</td>
</tr>
</tbody>
</table>