

Course Title	Epistemology of Science and Occupational Health and Safety Management Research				
Course Code	OSH705				
Course Type	Compulsory				
Level	Doctorate (3rd Cycle)				
Year / Semester	1 st Year /1 st Semester				
Instructor's Name	TBA				
ECTS	10	Lectures / week	3 Hours/14 Weeks	Laboratories / week	NONE
Course Purpose and Objectives	<p>The aim of the course is to study the philosophical content of social research and get acquainted with quantitative and qualitative research strategies, designs, and associated methods. Students shall be trained to set up research questions, produce / collect the data they deem appropriate, as well as organize and analyse them using appropriate statistical analysis software packages. Students shall develop the skills of interpreting data and write their study in academic language and with sufficient scientific evidence.</p>				
Learning Outcomes	<p>Upon successful completion of this course students should be able to:</p> <ul style="list-style-type: none"> • Identify the diverse philosophical background of social science research and differentiate between research strategies which originate from it. • Design and implement a suitable plan for their research project effectively using advanced quantitative and qualitative research procedures. • Collect quantitative and qualitative data using appropriate techniques and use (where appropriate) statistical analysis packages to record, manipulate and analyse data by applying advanced statistical research methods. • Analyse, evaluate and discuss dilemmas on key issues related to the application of quantitative and qualitative approaches to safety related research. • Identify legal, ethical and safety issues in quantitative and qualitative research and projects. • Design appropriate, focused, research observation mechanisms for the collection of safety related data in the workplace 				
Prerequisites	NONE	Co-requisites	NONE		
Course Content	<p>The Nature & Process of Social Research: Context of Social Research Methods, Elements of the Research process, Messiness of Social Research</p>				

	<p>Social Research Strategies: Qualitative & Quantitative: Relationship between Theory & Research, Epistemological Issues, Ontological Issues, Quantitative vs Qualitative Research, Values & Practical Issues</p> <p>Research Designs & Project Planning: Criteria for Assessing the Quality of Social Research, Prominent Types of Research Designs, Criteria for Evaluating Research Findings, Timing Issues, Project Planning, Generating Research Questions</p> <p>Literature Review, Ethical & Political Considerations: Reviewing the Existing Literature, Searching the Existing Literature, Referencing your Work, Avoiding Plagiarism, Ethical Principles & Considerations, Political Considerations</p> <p>Quantitative Methods: Main Steps & Concepts, Reliability & Validity, Preoccupations & Criticism, Sampling, Structured Interviewing, Self-completion Questionnaires, Asking Questions, Structured Interviewing, Content Analysis, Secondary Analysis, Data Analysis using Automated Tools</p> <p>Qualitative Methods: Main Steps & Concepts, Reliability & Validity, Preoccupations & Criticism, Sampling, Ethnography, Interviewing, Focus Groups, Data Analysis</p>
Teaching Methodology	Face-to-face
Bibliography	<p>Bryman, A., Social research methods. UK: Oxford University Press</p> <p>Creswell, J. W., Research design: Qualitative, quantitative, and mixed methods approaches. California: SAGE.</p> <p>Babbie, E. The Practice of Social Research. Cengage Learning. Latest Edition.</p> <p>Bazeley, P. & Jackson, K., Qualitative Data Analysis with NVivo. SAGE, Latest Edition.</p> <p>Corbin, J., & Strauss, A. Basics of Qualitative Research: Techniques and Procedures for Developing Grounded Theory. Newbury Park, CA: SAGE. Latest Edition.</p> <p>Field, A. Discovering statistics using IBM SPSS statistics. SAGE. Latest Edition.</p> <p>Flick, U. An introduction to qualitative research. SAGE. Latest Edition.</p> <p>Fox, J. Applied Regression Analysis, and General Linear Models. Thousand Oaks: SAGE. Latest Edition.</p> <p>Gelman, A. and Hill, J. Data Analysis Using Regression and Multilevel/Hierarchical Models. Cambridge: Cambridge University Press. Latest Edition.</p>

	<p>Groves, R. M., Fowler, F. J., Couper, M. P., Lepkowski, J. M., Singer, E. and Tourangeau, R. Survey Methodology. Hoboken, New Jersey: Wiley. Latest Edition.</p> <p>Hammersley, M. and Atkinson, P. Ethnography: Principles in practice. London: Routledge. Latest Edition.</p> <p>Krippendorff, K. Content Analysis: An Introduction to Its Methodology. SAGE, Thousand Oaks. Latest Edition.</p> <p>Krueger, R. A., & Casey, M. A. Focus groups: A practical guide for applied research. SAGE. Latest Edition.</p> <p>Mason, J. Qualitative researching. SAGE. Latest Edition.</p> <p>Miles, M. B., Huberman, A. M., & Saldaña, J. Qualitative data analysis: A methods sourcebook. SAGE. Latest Edition.</p> <p>Salkind, N. J. Statistics for people who (think they) hate statistics. SAGE. Latest Edition.</p> <p>Scott, J. Social network analysis. SAGE. Latest Edition.</p> <p>Silver, C., & Lewins, A. Using Software in Qualitative Research. SAGE. Latest Edition.</p> <p>Silverman, D. Interpreting qualitative data: Methods for analyzing talk, text and interaction. SAGE. Latest Edition.</p> <p>Tabachnick, B. G., Fidell, L. S. Using multivariate statistics. Pearson International. Latest Edition.</p> <p>Teddlie, C., & Tashakkori, A. Foundations of mixed methods research: Integrating quantitative and qualitative approaches in the social and behavioral sciences. SAGE. Latest Edition.</p> <p>Yin, R. K. Case study research: Design and methods. SAGE. Latest Edition.</p>						
Assessment	<table border="1" data-bbox="478 1500 1181 1736"> <tr> <td data-bbox="478 1500 941 1563">Project</td> <td data-bbox="941 1500 1181 1563">90%</td> </tr> <tr> <td data-bbox="478 1563 941 1657">Class Participation and Attendance</td> <td data-bbox="941 1563 1181 1657">10%</td> </tr> <tr> <td data-bbox="478 1657 941 1736"></td> <td data-bbox="941 1657 1181 1736">100%</td> </tr> </table>	Project	90%	Class Participation and Attendance	10%		100%
Project	90%						
Class Participation and Attendance	10%						
	100%						
Language	English						