



UNIVERSITI TEKNOLOGI MARA

FSG710: RESEARCH METHODOLOGY

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| Course Name (English) | RESEARCH METHODOLOGY APPROVED | |
| Course Code | FSG710 | |
| MQF Credit | 3 | |
| Course Description | This course will provide students with knowledge and exposure required on methods and ethics to carry out a scientific research. Students will be introduced to different experimental design and components involved in research proposal writing. The student will perform a systematically research project and present the research proposal at the end of semester. The quantitative (statistical) technique will cover the multivariate analysis. It is designed for biological experiments using appropriate statistical tests | |
| Transferable Skills | Students able to analyze quantitative data and creating scientific ideas. Students can also solve scientific problems systematically and present their ideas orally. | |
| Teaching Methodologies | Lectures, Presentation, Journal/Article Critique, Supervision | |
| CLO | <p>CLO1 To describe the basic concepts and principles in conducting research in a pragmatic, logical, and scientific manner.</p> <p>CLO2 To identify and describe the types of research and research approaches used in research methodology.</p> <p>CLO3 To understand the multivariate analysis in biological experiment</p> <p>CLO4 To design and defend research proposal in written report and oral presentation.</p> | |
| Pre-Requisite Courses | No course recommendations | |
| Reading List | Reference Book Resources | <ul style="list-style-type: none"> • Flick U. 2011, <i>Introducing Research Methodology: A beginner's guide to doing research project</i>, Sage Publication Ltd • Mcdonald J. H. 2009, <i>Handbook of Biological Statistics</i>, 2nd Ed., Sparky House Publishing Baltimore. Maryland • Paul D. Leedy, Jeanne Ellis Ormrod 2005, <i>Practical Research</i>, 8th Ed., Pearson College Division [ISBN: 0131108956] • Zainudin Awang, <i>Research Methodology and Data Analysis</i>, 2nd Ed. [ISBN: 9789673634224] • 2011, <i>Guideline on thesis format for post graduate</i>, Institutes of Graduate Studies (IGS) UiTM |
| Article/Paper List | Recommended Article/Paper Resources | <ul style="list-style-type: none"> • S. Rajasekar, P. Philominathan, V. Chinnathambi 2013, <i>Research Methodology</i>, 53 • <i>Journal of Pharmacy and Biological Sciences</i> http://iosrjournals.org/iosr-jpbs.html |
| Other References | This Course does not have any other resources | |