

PROGRAMME STRUCTURE

The Doctor of Philosophy (Ph.D.) programme is offered by **full research**. However, students without sufficient research skills and knowledge are required to enroll and pass the following courses during the first two (2) semesters of their enrolment (i.e. before being allowed to defend their thesis proposal):

- a) SZRZ 6014 Research Methodology
- b) SCLE 6014 Academic Writing
- c) Any other course as determined by the supervisor or Academic Committee.

To complete the Ph.D. programme, students are required to:

1. Present and defend proposed research/thesis to a committee;
2. Present progress reports of research work at colloquiums arranged by the Graduate School or College;
3. Produce at least two (2) articles, in which (Option A or Option B):
 - Option A
 - i. at least one (1) article is accepted for publication in ISI Journal or Scopus; and
 - ii. at least one (1) article is under review for publication in a refereed journal.
 - Option B
Two (2) articles are published in a refereed journal
4. Attend a viva session to defend the thesis; and
5. Submit a final thesis.

RESEARCH FIELD

School	Research Field	Specializations Offered (but not limited to)
Computing	Information Technology	<ul style="list-style-type: none"> • Web Engineering • Mobile Applications • Bio-informatics • Intelligent System • Computer Network and Security • Information Management • Information System • Knowledge Management • Multimedia Technology • Human Computer Interaction • Virtual Reality • Software Engineering Process • Requirement Engineering • Simulation and Modeling • Genetic Algorithm • Database Technology
Education-and Modern Languages	Education and modern languages	<ul style="list-style-type: none"> • Curriculum and Instruction • Educational Psychology • Instructional Technology • English Language Teaching • Sociology of Education • Educational Management • Applied Linguistics • Contemporary Malay Language Studies
Multimedia Technology and	Communication	<ul style="list-style-type: none"> • Communication
	Multimedia Studies	<ul style="list-style-type: none"> • Multimedia Studies

School	Research Field	Specializations Offered (but not limited to)
Communication	Media Management	<ul style="list-style-type: none"> • Media Management
Quantitative Sciences	Mathematics	<ul style="list-style-type: none"> • Mathematics
	Statistics	<ul style="list-style-type: none"> • Statistics
	Decision Science	<ul style="list-style-type: none"> • Optimization: resource allocation, multi-criteria decision making, scheduling etc. • Heuristics/Artificial Intelligence • Combinatory • Information Technology Application in Decision Making • Operation Production Management • Computer Simulation and Modeling • Numerical Analysis • Simulation and System Dynamics • Modeling and Forecasting: time series, regression, mathematical modeling etc • Quality and Productivity: efficiency, measurement, quality control, total quality management etc • Decision Support Systems
Social Development	Psychology	<ul style="list-style-type: none"> • Psychology
	Counselling	<ul style="list-style-type: none"> • Counselling
	Social Work	<ul style="list-style-type: none"> • Social Work
Center for General Studies	Islamic Studies	<ul style="list-style-type: none"> • Islamic Studies
	History	<ul style="list-style-type: none"> • History