



**LINCOLN**  
UNIVERSITY COLLEGE  
DKU016 (B)



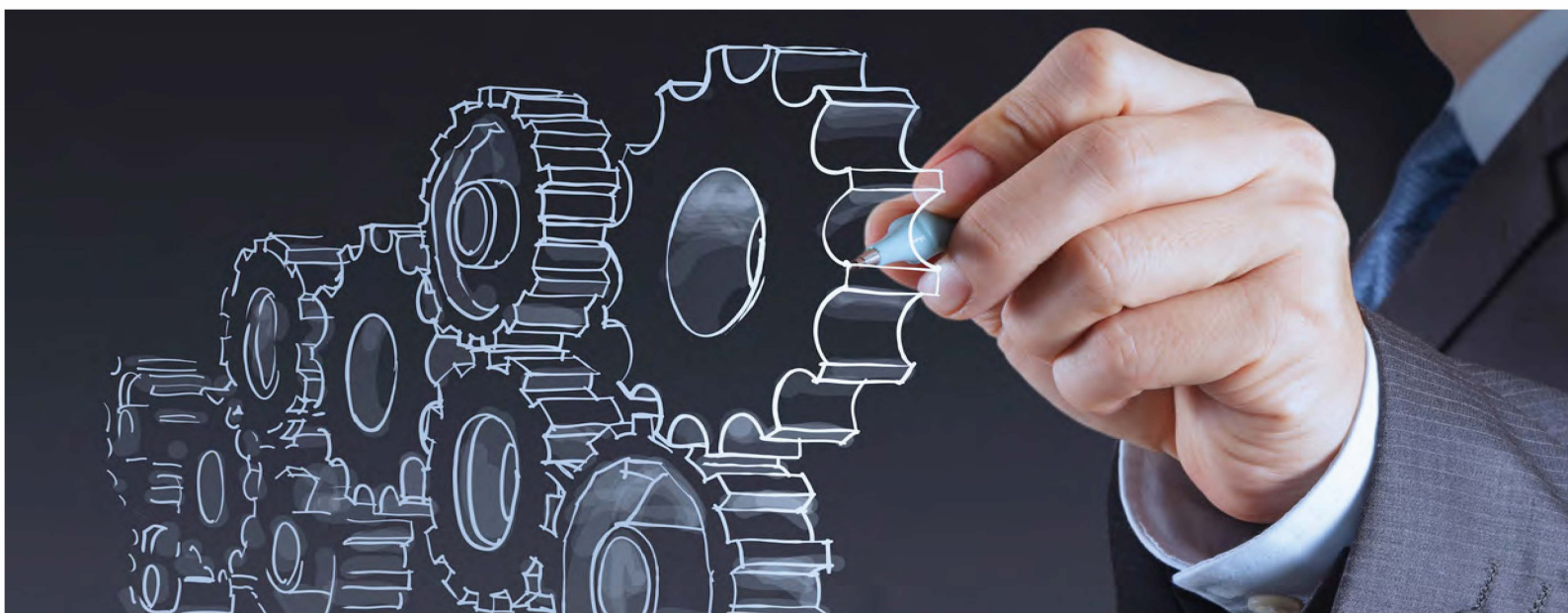
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# Doctor of Philosophy (PhD) in Engineering ( By Research)

(R/520/8/0077) (08/27) (MQA/FA 6196)

## PROGRAMME DESCRIPTION

The Doctor of Philosophy (PhD) in Engineering programme has been designed to provide students with in-depth knowledge in various fields of specialization to enable them to formulate questions and plan and carry out research in their respective subject areas. The candidates would be able to conduct a high-level research and address complex technical questions and challenge the established knowledge and practices on the respective subjects. The PhD candidates would be capable enough to evaluate the work of others as well, at the same level. The candidates will also evaluate the application of different techniques in the subject areas and shall contribute to the development of new theories, new knowledge and new methods in the respective subject area.



## PROGRAMME AIM

The Ph.D. in Engineering programme in Lincoln University College is to prepare a selected number of qualified students for careers in university-level teaching and research and for responsible positions in Government and Private Engineering industries. The primary aims of the programme are:

- ▶ To provide students with advanced knowledge in the theory and practice of areas of engineering studies with the concept of research work.
- ▶ To prepare the learners for critical problem solving, decision making on various situations and responsibilities in the course of their research work
- ▶ To create qualified managerial level Engineering professionals to provide support towards Engineering work in their specialty subjects
- ▶ To develop and prepare professionals with Research knowledge and aptitude that is useful for industrial need and in the professional engineering specialty area.
- ▶ To train student about the significance of skills and knowledge in specialties under Civil Engineering, Environmental Engineering and Management, Geotechnical Engineering, Architectural Engineering, Chemical Engineering, Petroleum Engineering, Mechanical Engineering, Computer Engineering, Metallurgical Engineering, Electrical and Electronic Engineering, Bioengineering, Biochemical Engineering, Engineering Management, Production and Industrial Engineering

▶ **PROGRAMME DURATION** Full Time: 3 - 5 Years  
Part Time: 4 - 10 Years

▶ **INTAKE** March, July, November

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No. 2, Jalan Stadium, SS 7/15, Kelana Jaya, 47301, Petaling Jaya, Selangor Darul Ehsan, Malaysia.

## ENTRY REQUIREMENTS

- ▶ Recognized Master's degree (Malaysian Qualifications Framework, MQF Level 7) in Engineering or its equivalent; or
- ▶ Other qualifications equivalent to a Master's degree (MQF Level 7) that are accepted by the Senate
- ▶ English language requirements for international students;
  - ▶ A minimum score in the Test of English as a Foreign Language (TOEFL)
    - i) 550 in the TOEFL Paper Based Test; OR
    - ii) 80 in the TOEFL Internet Based Test; OR
  - ▶ A minimum score of 6.0 in the International English Language Testing System (IELTS).

## LIST OF COURSE/MODULE OFFERED IN THE PROGRAMME

Sl. No.	Subject Name
1.	Research Methodology
2.	Computer Application
3.	<b>DISSERTATION ON ANY ONE OF THE FOLLOWING AREA</b>
<b>PHDE 101</b>	<b>CIVIL ENGINEERING</b>
RESEARCH WORK ON <b>ANY ONE</b> OF THE FOLLOWING TOPICS	
<b>Sl. No.</b>	<b>Tentative Subject Areas</b>
1.	Structural Engineering
2.	Off-Shore Structural Engineering
3.	Highway & Transportation Design Engineering
4.	Environmental Engineering and Management
5.	Geotechnical Engineering
6.	Water Resources Engineering
7.	Urban Planning Engineering
8.	Town & Country Planning Engineering
9.	Hydraulic Engineering
10.	Geotechnical Engineering
11.	Architectural Engineering
12.	Wastewater Engineering
13.	Sustainable Engineering
14.	Advanced Seismic Technology Engineering
15.	Non-Seismic Methods Engineering
16.	Advanced Engine Development Engineering
17.	Construction And Project Management Engineering
18.	Manufacturing System Optimization Engineering
19.	System Level Integration Engineering
20.	Infrastructure Systems Engineering
21.	Construction Engineering Management
22.	Rock Physics Engineering
<b>PHDE 102</b>	<b>MECHANICAL ENGINEERING</b>
RESEARCH WORK ON <b>ANY ONE</b> OF THE FOLLOWING TOPICS	
<b>Sl. No.</b>	<b>Tentative Subject Areas</b>
1.	Deep Reservoir (High Pressure High Temperature) Engineering
2.	Cementing Technology Engineering
3.	Flow Assurance Engineering
4.	Drilling Optimization Engineering
5.	Drilling Fluid and Completion Engineering
6.	Mechanical Systems Design Engineering
7.	Vehicle Design Engineering
8.	Friction Stir Welding Engineering
9.	Metallurgical Engineering
10.	Instrumentation Engineering and Control
11.	Printing Engineering
12.	Modeling, Simulation, And Visualization Engineering

	13.	Integrated Basin Analysis Engineering
	14.	Reservoir Characterization, Modeling & Simulation Engineering
	15.	Carbonate Reservoir Characterization Engineering
	16.	Carbonate Sedimentology, Diagenesis and Sequence Stratigraphy Engineering
	17.	Energy Systems Engineering
	18.	Production & Industrial Engineering
	19.	Energy And Sustainability Engineering
	20.	Engineering Management
<b>PHDE 103</b>	<b>ELECTRICAL ENGINEERING</b>	
RESEARCH WORK ON <b>ANY ONE</b> OF THE FOLLOWING TOPICS		
	<b>Sl. No.</b>	<b>Tentative Subject Areas</b>
	1.	Geographical Information System (GIS) Engineering
	2.	Communications Engineering
	3.	Sensor Technology Engineering
	4.	Energy Utilization & Power System Engineering
	5.	Electronic System Design Engineering
	6.	Power Electronics Engineering
	7.	Power Systems Engineering
	8.	Microelectronics Engineering
	9.	Computer Engineering
	10.	Computer Architecture Engineering
	11.	Intelligent Imaging Engineering
<b>PHDE 104</b>	<b>CHEMICAL ENGINEERING</b>	
RESEARCH WORK ON <b>ANY ONE</b> OF THE FOLLOWING TOPICS		
	<b>Sl. No.</b>	<b>Tentative Subject Areas</b>
	1.	Ionic Liquid Engineering
	2.	Bio-Fuel Engineering
	3.	Material Development Engineering
	4.	Advanced Process Control Engineering
	5.	Process System Engineering
	6.	Process Safety Engineering
	7.	Oil Field Chemical Engineering
	8.	Petroleum Engineering
	9.	Catalysis Engineering
	10.	Reactor Technology Engineering
	11.	Unconventional Hydrocarbon Engineering
	12.	Petrochemical Engineering
	13.	Petroleum Geosciences Engineering
	14.	Separation Engineering
	15.	Advanced Materials and Processing Engineering
	16.	Biochemical Engineering
	17.	Bioengineering
	18.	Enhanced Oil Recovery Engineering
	19.	Corrosion And Reliability Engineering