

Course Syllabus

Course Code and Name	CE 26574 – Principles of scientific research in Engineering
Credit and contact hours	2 (2, 0, 0) (Lecture, Tutorial, Lab)
Required or Elective	Required
Level / Year	Level (10) / Year (5)
Course Prerequisite	-
Textbook	Booth, W. C., Colomb, G. G., Williams, J. M., Bizup, J., & Fitzgerald, W. T. The craft of research. (Latest edition).
Course Description	This course aims to provide students with the tools and skills required to conduct research both theoretically and practically. It is intended to help students develop research questions, based on a critical appraisal of existing research. It purports to enable students to embark on new research projects through introducing them to the different principles and scientific methods of research writing.
Brief List of Topics to be Covered	<ol style="list-style-type: none">1. Literature search.2. Critical literature review3. Citing references4. Risk assessment5. Research ethics6. Project planning7. Data collection8. Data analysis9. Poster presentation10. Paper writing11. Report writing12. Abstracts and conclusions
Course is prerequisite for	-