

Department	Science Education Unit	
Course Code	SUPE 309	
Course Title	Philosophy of Science	
No. of Credits	03	
Pre-requisites	None	
Core/ Supplementary	Supplementary	
Aim(s): To develop students' knowledge and experience on scientific philosophy.		
Intended Learning Outcomes: On successful completion of the course, the students should be able to:		
<ul style="list-style-type: none"> • State what science is. • Express the ideas on the nature of science. • Explain scientific inquiry. • Describe the scientific method. • Discuss different philosophical ideas on science and science education. • Describe how to use philosophical views on the development of science. 		
Time Allocation (Hours):	Lectures: 45	Notional Hours: 150
Course content/Course description: What science is; what philosophy is; history of philosophy in science; the importance of philosophy on the development of science; nature of science; philosophical views of Dewey, Comenius, Kuhn, and Popper on science and science education; scientific method; application of philosophy in science on human development.		
Recommended Texts (if any):		
<ul style="list-style-type: none"> • Alexander, Rosenberg (2000). <i>The Philosophy of Science</i>. Routledge, 29 West 35th Street, New York, NY 10001. • Chalmers, Alan (1990). <i>Science and its Fabrication</i>. University of Minnesota Press. • Chalmers, Alan (1976). <i>What Is This Thing Called Science?</i> Queensland University Press and Open University Press. • Kuhn, Thomas S. (1970). <i>The Structure of Scientific Revolutions</i>. The University of Chicago Press, Ltd., London. • Popper, R. Karl (1962). <i>Conjectures and Refutations</i>. Basic Books, Publishers New York London. • Popper, Karl (1992). <i>The Logic of Scientific Discovery</i>. Routledge, 29 West 35th Street, New York, NY 10001. 		
Assessment	Percentage Mark	
End-Course Examination	100%	