DEPARTMENT OF SCIENCE AND TECHNOLOGY STUDIES
FACULTY OF SCIENCE,

List of Courses Offered for University of Malaya
Student Exchange (UMSEP) for the 2017/2018 Academic Session

BACHELOR OF SCIENCE AND TECHNOLOGY STUDIES

No	Course Code	Topic	Pre-requisite	Credit	Courses Offered Please tick (√) where applicable			Course Description	Other Description
					Semester I	Semester II	Special Semester		
1.	SIX1001	Introduction to Science and Technology Studies		3	√	√		This course is designed to introduce the students variety of aspect in S&T studies - history, philosophy, sociology, management, policy and economy; case studies in S&T. Students will analyze issues in S&T by using S&T framework – epistemology, ethics, environment, and entrepreneurship; apply variety of disciplines from S&T studies to create local contextual understanding and to apply sustainable S&T intellectually and material. The elements of this course include 1) history of development of S&T in society; 2) critical analysis in science and technology response; 3) effect of S&T in life; 4) initiative in sustainable S&T; and 5) future development of alternative S&T system, vis-à-vis dominant S&T paradigm.	
2.	SIS1001	Logic and Critical Thinking		3	√	√		This course will equip students with the skills to think critically and systematically in solving the problems faced by the theories and concepts learned. Students have the opportunity to learn the basics and methods of analysis through oral and written submissions that are authentic and not authentic, deductive arguments and inductive arguments. Students are exposed to some type of Fallacy of thought and speech, including Ad hominem, Ad Populum, HASTY Generalization, False Alternatives, Bandwagon Argument, Slippery Slope, and Overstatement.	
3.	SIS1002	Philosophy of Science and		3	√	√			

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		Philosophy of Technology						In this course, students will be exposed to some of the philosophical schools of science and philosophy of technology with an emphasis on the need to understand the nature of S & T in confronting the issues and challenges of the current world. Subsequently, students will apply theoretical knowledge by doing research on the issues selected via a PBL (Problem Based Learning).	
4.	SIS1003	Science and Technology in Malaysia		3	√	√		This course will provide a platform to the students about the development of science and technology in Malaysia, starting in British colonial times up to the 21st century. Transfer model of science and technology will also be introduced to the students. This discussion will take a number of sectors such as agriculture, education, and industry as a case study. The course also covers the development of government policy in the development of science and technology in Malaysia involving several key players. In addition, an introduction to the basic policy analysis will also be introduced.	
5.	SIS2003	Science, Technology and Religion		3	√	√		This course is designed to explain the separation between science, technology and religion, how secularism that sparked drive industrial revolution and modernism. Today scenario in development of science shows that the dominant world-view need to be fill with value and meaning of life. The application of universal value of religion in life will be explained with the definition of religion, the philosophy of science, technology and it's limitation.	
6.	SIS2006	Environmental and Sustainability Policy		3	√	√			

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								Sustainable Development is an important policy concept in the 21st century, influencing policy development to incorporate the long-term balance between economic growth, social welfare and environmental protection. This is a new challenge to technocrats (including scientists and technologists), managers and policy makers who are involved in the problematisation and development of environmental policies. This course will provide basic exposure on how environmental policy can be developed in a more holistic manner, by systematically incorporating the perspective of sustainability in decision making	
7.	SIS2007	Managing New Technologies		3	√	√		This course is designed to provide student with knowledge on the nature of new technologies and the importance of technology management. Student will be exposed to various strategies in new technologies management including intellectual property management, collaborative strategies and project management. Besides, student will study the various sources of technological capabilities development and how to plan a science and technology project in an organisation	
8.	SIS3008	Philosophy of Islamic Science and Technology		3	√	√		This course is designed to discuss the concept of philosophy for Muslim, western definition of philosophy, problems in defining philosophy, several aspect of philosophy of knowledge, concept, definition, classification and employment, differentiation between philosophy and knowledge, branches of knowledge of philosophy, branches of current knowledge of philosophy, science, philosophy and Islam, al-farabi philosophy of science, science of cosmology and revelation, research of science of cosmology in Islamic history, the relationship between Ikhwan al-safa' and philosophy in the study of cosmos and hierarchy of universe, comparison of philosophy between al-Ghazali and Descartes principle of philosophy	