LABORATORY MANAGEMENT AND SAFETY

Course Title	Laboratory Management and Safety											
Course Code	EBS 366		Course Level		300	Cr	redit value	2	Semester		1	
Pre-requisite			I						I		I	
Course Delivery Modes	Face-to-face	Practical	Activity	Work-B Learnin			Seminars	Inde Stud	pendent Y	e-learning opportunities	5	Practicum
Course Description for significant learning (indicate NTS, NTECF, BSC GLE to be addressed)	The objectives of this course are to aid develop a firm understanding of the possibility that a prolonged use of daily gadgets and ICT tools can have some implications on one's health. Some of these health concerns to a user of computing tools are issues related to vision, hearing and musculoskeletal problems that can arise from our extensive use of daily ICT tools. Ergonomics (which deals with the science and study of designing or arranging workplaces, products and systems so that they fit the people who use them and reduce health related problems) will be discussed. (NTS 2b, 2c, 3a, 3c, 3e-3m, 3p; NTECF Pillar 1)											
Course Learning	Outcomes								Ind	licators		

Outcomes: including INDICATORS for Each learning outcome	1. describe hazards NTS 2b, 2c, 3a, 3c, 3e-3m	1. list one physical or psychological hazard
	2. identify ICT tools and their potential health hazards NTECF, NTS, 3i, & 3j	2. list one vision related problem
	3. define vision problems associated with prolonged ICT tools' use NTECF, NTS, 3i, & 3j	3. list on hearing related problem
	4. define hearing problems associated with prolonged ICT tools' use	4. list at least two
	NTS 2a, 2b, 2c, 2e. 2f, 3e-3o	ergonomics feature of an ICT lab setup
	5. identify some common examples of conditions that affect our vision and hearing as a result of our prolonged use ICT tools	ici iab setup
	NTS 2b, 2c, 3a, 3c, 3e-3m, 3p; NTECF Pillar 1 precautionary measures to control vision, hearing and musculoskeletal problems from ICT tools	
	NTS 2b, 2c, 3a, 3c, 3e-3m	

	6. NTS, 3	6. Explain the concepts of ergonomics and computer ergonomics NTECF, NTS, 3d, & 3j							
	on features								
Course Content	Units	Topics	Sub-topics (if any):	• Teaching and learning activities to active learning outcomes					
	1	ICT tools and their potential health hazards		• Give a presentation on the various ICT tools and the potential hazards they pose.					

		Vision and hearing problems associated with prolonged ICT tools' use		• ICT.	Discuss some of the problems associated with	
		Concepts of ergonomics and computer ergonomics			uss ergonomics and its importance in ensuring and efficiency at work	
	4	Guidelines for healthy computing		• guideli	Brainstorm with students some of the ines to ensure healthy computing	
Course Assessment Components: Educative assessment of, for and as learning)	assignmer Assessmer S follows:	ation of formative and summative at and examination will be used. nt weighting ummative Assessment 60% %; B+= 75-79%; B =70-74%, C+ =65	Formative A	ssessme		
Instructional Resources	Class discussion, lecture, pair/group presentations, demonstrations					
Required Text (core)	Eastman, K. (1986). <i>Ergonomic Design for people at work</i> : Volume 2, John Wiley & Sons. Kenneth, E. H., & Herman, T. T. (2008). <i>The handbook of information and computer ethics.</i> New Jersey, NJ: John Wiley and Sons, Inc.					
Additional Reading List	NCTE Advice Sheet – Ergonomics, Health and Safety Advice Sheet 29 Available at http://www.pdsttechnologyineducation.ie/en/Technology/Advice-Sheets/Ergonomics-Health-and-Safety1.pdf					