

Unit of the Module	Topic	Objective	Task and Time Allotted
<p>Module 1 Unit 1</p> <p>Welcome, Orientation and General Introduction (The Human System)</p> <p>Duration: March 4 - 8, 2019</p>	<p>Welcome, Overview of Google Classroom</p> <p>Root Words, Terminologies and Systems of Reference</p> <p>Physical and Physiological Quantities</p> <p>Human Body as a Physical System</p>	<p>Get to meet everyone and become familiar with the learning environment</p> <p>Become familiar with: anatomical terminologies; root words and their meaning and systems of reference</p> <p>Appreciate the basic physical and physiological quantities seen in anatomy and physiology</p> <p>Understand the human body as a physical system using the engineering point of view</p>	<p>Introduce yourself; Watch short videos to become familiar with Classroom</p> <p>Complete the pretest for the unit. Click on Turn in within classroom after the survey.</p> <p>Watch the summary video for each topic. Each video is about 10 minutes long</p> <p>Read the slides for each topic.</p> <p>Complete the post-test for the module. Click on Turn in within classroom after the survey.</p> <p>To be completed Week 1 Can be done in 30 mins-1hr</p>
<p>Module 1 Unit 2</p> <p>The Structural Systems of Man</p> <p>Duration: March 11 - 15, 2019</p>	<p>Organisation of the Body</p> <p>Support and Movement of the Body</p> <p>Regulation and Integration of the Body</p> <p>Continuity and Maintenance of the Body</p>	<p>Understand how the entire body is organized</p> <p>Appraise the structures the support and move the body</p> <p>Gain above-average understanding of how the body is regulated and integrated as a whole</p> <p>Know the structures of the body responsible for maintenance and continuity of the human organism.</p>	<p>Complete the pretest for the unit. Click on Turn in within classroom after the survey.</p> <p>Watch the summary video for each topic. Each video is about 10 minutes long</p> <p>Read the slides for each topic.</p> <p>Complete the post-test for the module. Click on Turn in within classroom after the survey.</p> <p>To be completed Week 2 Can be done in 30 mins—1 hour</p>
<p>Module 1 Unit 3</p> <p>The Functional Systems of Man</p>	<p>Communication Systems in man</p> <p>Human Materials Processing</p>	<p>Become familiar with the principles and concepts of bio-fluid mechanics</p> <p>Learn the mechanism of body processes</p>	<p>Complete the pretest for the unit. Click on Turn in within classroom after the survey.</p> <p>Watch the summary video for each topic. Each video is about 10 minutes long</p>

Unit of the Module	Topic	Objective	Task and Time Allotted
<p>Duration: March 18 - 22, 2019</p>	<p>Human Control Mechanism</p> <p>Safety Systems in Man</p>	<p>Get acquainted with how the control mechanisms in man work</p> <p>Understand all the safety systems in man</p>	<p>Read the slides for each topic.</p> <p>Complete the post-test for the module. Click on Turn in within classroom after the survey.</p> <p>To be completed Week 1 Can be done in 30 mins-1hr</p>
<p>Module 1 Unit 4</p> <p>Bio-Fluid Mechanics of Man</p> <p>Duration: March 25 - 29, 2019</p>	<p>Principles and Concepts of Bio-fluid Mechanics</p> <p>Mechanism of Body Processes</p> <p>Fluid Mechanics in Man</p> <p>Applications of Bio-fluid Mechanics</p>	<p>Become familiar with the principles and concepts of bio-fluid mechanics</p> <p>Learn the mechanism of body processes</p> <p>Gain insight into the principles underlying fluid mechanics in man</p> <p>Know the various applications of bio-fluid mechanics in biomedical engineering.</p>	<p>Complete the pretest for the unit. Click on Turn in within classroom after the survey.</p> <p>Watch the summary video for each topic. Each video is about 10 minutes long</p> <p>Read the slides for each topic.</p> <p>Complete the post-test for the module. Click on Turn in within classroom after the survey.</p> <p>To be completed Week 2 Can be done in 30 mins-1hr</p>
<p>1- day Face-to-face Workshop at UUTH, Uyo, Akwa Ibom State, Nigeria</p> <p>Workshops on Anatomy and Physiology for Biomedical Engineering Students and Engineers</p> <p>Duration April 10, 2019</p>	<p>Recap of all the units of the modules</p> <p>Practical applications of anatomy, physiology and bio-mechanics to biomedical engineering</p> <p>Hands-on opportunity via models</p> <p>Course completion ceremony</p>	<p>Improve acquisition of knowledge of anatomy and physiology with practical skills applied to biomedical engineering</p> <p>Develop foundation for upcoming course modules</p> <p>Ask questions about online modules</p> <p>Provide course evaluation</p>	<p>Participants will rotate through various stations (i.e. clinical pathway, breast exam, breast ultrasound, breast biopsy, and chemotherapy).</p> <p>Practice models will be provided</p> <p>About 6—8 hours shall be taken for the workshop.</p>