

<b>COURSE TITLE</b>	<b>TE142467: Anatomy and Physiology</b> Credits: 2 ELECTIVE COURSE
<b>LEARNING OBJECTIVES</b>	To have an understanding of fundamentals of anatomy and physiology of human body from cellular level to system organ level, and to have a capability to use the understanding in developing other understanding in biomedical engineering fields.
<b>COMPETENCY</b>	<ul style="list-style-type: none"> <li>• To have an understanding in anatomy of human body.</li> <li>• To have an understanding of physiology of human body.</li> <li>• To have a skill to use the understanding of anatomy and physiology in analysis of biological and biomedical systems.</li> </ul>
<b>SUBJECTS</b>	<ul style="list-style-type: none"> <li>• Scopes of anatomy and physiology</li> <li>• Cellular level anatomy and physiology</li> <li>• Tissue level anatomy and physiology</li> <li>• Nervous system</li> <li>• Skeletal system, muscular system, cardiovascular system, pulmonary system, selected topics from journal papers: applied physiology, biomechanics, etc.</li> </ul>
<b>MAIN REFERENCES</b>	<ul style="list-style-type: none"> <li>• Wynn Kapit et. al., <u>Anatomy coloring book</u>, Benjamin Cumings Science Publishing, USA, 3rd Ed, 2002.</li> <li>• Wynn Kapit et. al., <u>Physiology coloring book</u>, Benjamin Cumings Science Publishing, USA, 2nd Ed, 2000.</li> <li>• Frederic H Martini et. al., <u>Fundamentals of anatomy and physiology</u>, Prentice Hall Intl. Inc., USA, 5th Ed, 2001.</li> <li>• Mark L Latash, <u>Neurophysiological basis of movement</u>, Human Kinetics, USA, 1998.</li> <li>• Roger M Enoka, <u>Neuromechanics of human movement</u>, Human Kinetics, USA, 3rd Ed, 2002.</li> </ul>
<b>OPTIONAL REFERENCES</b>	Selected articles from journal in biomechanics, applied physiogy, etc.
<b>PREREQUISITE</b>	-