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## DEEP LEARNING II

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### School of Comp. Technology

<b>Course Code:</b> AASD4014	<b>Co-Requisites:</b> Please see Course Related Information	<b>Pre-Requisites:</b> Please see Course Related Information
<b>Applicable Program(s):</b> T431 - Applied A.I. Solutions Development	<b>Core/Elective:</b> Core	
<b>Prepared by:</b>	Moe Fadaee, Professor	
<b>Approved by:</b>	Chair Computer Technology, Chair, School of Comp. Technology	
<b>Approval Date:</b>	Friday, February 25, 2022	
<b>Approved for Academic Year:</b>	2021-2022	
<b>Contact Hours:</b>	48.00	
<b>Credit Hours:</b>	3.00	

### Course Description

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This course will dive into the advanced concepts of Deep Learning. The focus of this course will be on the development of Deep Learning models for image and video processing. Students will gain hands-on experience with popular tools, techniques, and libraries such as OpenCV, Keras, and Tensorflow, as well as the advanced applications of multi-layered Deep Neural Networks.

### Essential Employability Skills

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This course contributes to your program by helping you achieve the following Essential Employability Skills:

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| EES 1 | COMMUNICATION: Communicate clearly, concisely and correctly in the written, spoken and visual form that fulfills the purpose and meets the needs of the audience. (P, E,) |
| EES 2 | COMMUNICATION: Respond to written, spoken or visual messages in a manner that ensures effective communication. (P, E,)  |
| EES 3 | NUMERACY: Execute mathematical operations accurately. (P, E,)   |
| EES 4 | CRITICAL THINKING & PROBLEM SOLVING: Apply a systematic approach to solve problems. (T, P, E,)  |
| EES 5 | CRITICAL THINKING & PROBLEM SOLVING: Use a variety of thinking skills to anticipate and solve problems. (T, P, E,)  |
| EES 6 | INFORMATION MANAGEMENT: Analyze, evaluate and apply relevant information from a variety of sources. (T, P, E,)  |