JUNIOR RESEARCHER MENTORING PROGRAMME 2022

Code:	JRMP2022_16
School / Department:	Department of Electronic and Information Engineering
Name of Research Leader:	Dr Ivan Ho, Associate Professor
Research Topic:	Research and Development of an Innovative IoT System
Short Description of the Research Project:	Through tutorials, participating students will be first instructed with hands-on skills to collect, process and visualize sensor data with IoT development kits such as Arduino and Raspberry Pi. They will configure an IoT server and publish data to it for visualization. The collected data can be further analyzed through various machine learning and deep learning techniques to make decisions for different IoT applications. After gaining the skills and knowledge, students will be asked to research and propose an innovative IoT system to solve problems in their daily lives. They are expected to develop an IoT prototype to demonstrate their ideas at the end of the project. Overall, accomplishing the project requires an integration of the student's creative thinking, research and technical skills.
No. of Places Offered:	4
Frequency of Meetings:	Bi-weekly
Special Requirement(s):	Computer programming experience (e.g., in C/C++, Python) would be an advantage but is not a must.

* The information presented above is subject to change.