



JUNIOR RESEARCHER MENTORING PROGRAMME 2022

Code:	JRMP2022_14
School / Department:	Department of Electronic and Information Engineering
Name of Research Leader:	Prof. Yu Changyuan, Professor
Research Topic:	Vital Signs Monitoring by Optical Fiber Sensor for Biomedical Applications
Short Description of the Research Project:	Vital signs (including breath and heartbeat) monitor is a key tool for healthcare. We will use an optical fiber sensor for vital signs monitoring. Users simply need to lie on the sensor cushion. Vital signs will introduce a change of light within the fiber embedded in the cushion, which will then be used as a monitoring signal. This project focuses on the development of the monitoring system. No background knowledge on optics is required since it can be learned during the project.
No. of Places Offered:	2
Frequency of Meetings:	Monthly
Special Requirement(s):	With strong interest in physics and signal processing

* The information presented above is subject to change.