## THE MODULES

	Introduction to Application of Software in Medical Devices and Healthcare Introduction to application of software in medical device. • Overview SiMD and SaMD in healthcare.
DAY 1	<ul> <li>Key applications and market trends.</li> <li>Al and Machine Learning in Medical Devices and Healthcare</li> </ul>
DATT	<ul> <li>Introduction to AI and machine learning principles.</li> <li>The role of AI in diagnostics, decision support, and patient management.</li> <li>Case studies of AI-driven medical device innovations.</li> </ul>
	Regulatory Landscape for SaMD and AI in Medical Devices
	<ul> <li>Global regulatory frameworks: FDA, EU MDR, and other regional requirements.</li> <li>Regulatory pathways for SaMD and AI technology.</li> <li>Documentation and submission requirements for software and AI technologies</li> </ul>
	Risk Management and Safety for Software and Al in Medical Devices
	<ul> <li>Key risk associated with integration of software and AI technologies in medical devices.</li> <li>Implementing quality management systems in software and AI development.</li> </ul>
	<ul> <li>Implementing ISO 14971 for effective risk management</li> <li>Best practices for ensuring software safety and reliability.</li> <li>Software verification and validation</li> </ul>
	Cybersecurity, Data Privacy, and Compliance
DAY 2	<ul> <li>Managing cybersecurity risks in software-powered and Albased medical devices</li> <li>Best practices for ensuring patient data privacy (GDPR, HIPAA, etc.)</li> <li>Cybersecurity threats in connected medical devices</li> <li>Strategies to secure Al models and protect sensitive health data</li> </ul>
	Clinical and Ethical Considerations of Al in Medical Devices
	<ul> <li>Ethical concerns surrounding AI-driven healthcare solutions.</li> <li>Clinical evaluation and validation of AI-based diagnostics and treatments.</li> <li>Best practices for integrating AI into clinical workflows</li> </ul>
	Future of AI and Software in Medical Devices and Healthcare • Emerging trends in AI technology and medical device
	innovation <ul> <li>Al in wearable devices and remote monitoring</li> <li>Regulatory evolution: the future of compliance for Al-</li> </ul>
	<ul> <li>powered medical devices</li> <li>The impact of AI and software on the global healthcare landscape</li> </ul>
	Registration fees: RM 2400pax For HRDF claimable process, kindly liaise with Ms. Kiru