


## Requirement of the responsive properties

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# B.Eng. in Software Engineering Program

The B.Eng. in Software Engineering Program is a 4-year undergraduate program aiming at producing graduates who are capable of working confidently in the international software industry as well as pursuing postgraduate study and research in leading universities worldwide. The curriculum of the program is designed in accordance with the recent ACM/IEEE guideline for undergraduate curriculum in software engineering.

## Curriculum Overview - Study Plans

Years 1 and 2 @ KMITL	Years 3 and 4 - Track 1 @ KMITL	Years 3 and 4 - Track 2 @ Glasgow						
<ul style="list-style-type: none"><li>Mathematics</li><li>Programming (Python, Rust, C++)</li><li>Basics of Computer Hardware</li><li>Computer Science Fundamentals</li><li>Introduction to Software Engineering</li><li>General Education Courses</li></ul>	<ul style="list-style-type: none"><li>Further Computer Science topics</li><li>Software Engineering topics</li><li>Software Projects</li><li>Summer internship between Year 2 and Year 3</li></ul> <p>Choose one of these specializations</p> <table><thead><tr><th>Metaverse SE</th><th>Industrial IoT</th><th>Artificial Intelligence</th></tr></thead><tbody><tr><td><ul style="list-style-type: none"><li>Web Service Development and Service-Oriented Architecture</li><li>Computer Graphics and Mixed Reality</li><li>Advanced Database Systems</li><li>Distributed Computing</li></ul></td><td><ul style="list-style-type: none"><li>Web Service Development and Service-Oriented Architecture</li><li>Real-Time Embedded System Design and Development</li><li>Industrial IoT Networks and Communications</li><li>Cyber-Physical Systems and Industry 4.0</li></ul></td><td><ul style="list-style-type: none"><li>Machine Learning</li><li>AI Programming</li><li>Data Science and Data Analytics</li><li>Knowledge Representation and Reasoning</li><li>Deep Learning</li></ul></td></tr></tbody></table>	Metaverse SE	Industrial IoT	Artificial Intelligence	<ul style="list-style-type: none"><li>Web Service Development and Service-Oriented Architecture</li><li>Computer Graphics and Mixed Reality</li><li>Advanced Database Systems</li><li>Distributed Computing</li></ul>	<ul style="list-style-type: none"><li>Web Service Development and Service-Oriented Architecture</li><li>Real-Time Embedded System Design and Development</li><li>Industrial IoT Networks and Communications</li><li>Cyber-Physical Systems and Industry 4.0</li></ul>	<ul style="list-style-type: none"><li>Machine Learning</li><li>AI Programming</li><li>Data Science and Data Analytics</li><li>Knowledge Representation and Reasoning</li><li>Deep Learning</li></ul>	 <ul style="list-style-type: none"><li>Study Years 3 &amp; 4 in SE program at School of Computing Science, University of Glasgow</li><li>Summer internship between Year 3 and Year 4</li><li>Obtain 2 degrees:<ul style="list-style-type: none"><li>B.Eng. in Software Engineering from KMITL</li><li>BSc Software Engineering from U. of Glasgow</li></ul></li></ul>
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Year 1 and Year 2

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Text size for

H1: 48px

H2: 36px


H3: 24px

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Year 1 and Year 2

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Image re-size accordingly

## Curriculum Courses

### Year 1

#### Semester 1

01006710 : Introduction to Calculus
01286111 : Circuits and Electronics
01286120 : Elementary Systems Programming
01286121 : Computer Programming
96641002 : Digital Intelligence Quotient
96642170 : Introduction to Logic

#### Semester 2

01006717 : Differential Equations
01006718 : Discrete Mathematics
01286112 : Digital System Fundamentals
01286131 : Object-Oriented Programming
96641001 : Charm School
96641003 : Sports and Recreational Activities
96644034 : Technical Writing

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### Year 2

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