# Research Topics

**Direction:** Choose three topics you are interested in from the following research topics. Please choose the topics which match to host university that you choose in the application form.

| For ICTES Program | | |
|---|---|---|
| **Research Topic (ICTES)** | **Required Qualification/Background** | **Host University** |
| **1 Providing Quality of Services (QoS) in the Internet of Things (IoT)** | Background study in Computer Science, Information Science, Computer Engineering, ICT, or other related fields. Students should at least be able to write computer programming. | SIIT or KU |
| **2 Speaker diarization** | Good in programming especially in Python language for deep learning research | SIIT or KU |
| **3 Myanmar-Thai Machine Translation** | Myanmar Student, Good background in Programming, interested in NLP | SIIT |
| **4 Myanmar Language Processing** | Myanmar Student, Good background in Programming, interested in NLP | SIIT |
| **5 Development of LiDAR indoor mapping algorithm** | Background in mathematics, electronic and computer programing | SIIT or KU |
| **6 THz-Super Resolution Imaging** | Background study in signal processing and computer programming. | SIIT or KU |
| **7 Signal Processing, Data Fusion, Image Processing, Wireless Sensor Networks** | Digital signal processing, Embedded system | SIIT |
| **8 Algorithm to detect item and navigate it** | - | SIIT or KU |
| **9 Algorithm to improve the accuracy** | - | SIIT or KU |
| **10 Algorithm to auto configuration the system** | - | SIIT or KU |

As of 28/04/2020

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|---|---|---|---|
| 11 | Creating a device which generate random number, where source of randomness can be selected from various sources | Physics, Electrical Engineering, Engineering | SIIT or KU |
| 12 | Forecast of Poverty and Well-beings using Non-traditional Data with Machine Learning | Background study in Computer Science, Data Analytics and Machine Learning | SIIT or KU |
| 13 | Indoor Object Positioning | Programming, electronic, embedded systems, engineering math | KU |
| 14 | อุปกรณ์และวิธีการตรวจวัดการล้มของผู้ป่วยสูงอายุ เพื่อการเฝ้าระวังและแจ้งเตือน | - | SIIT or KU |
| 15 | Embedded System for RADAR Transceiver Control | Microcontroller, Embedded Programming (Python, C-Programming) | KU |
| 16 | Individual Identity Surveillance Platform | - | KU |