# CORE MODULES

## 1st Year

| BRIDGING COURSE | Foundation Mathematics<br>English and Communication Skills<br>Computational Thinking |
|---|---|
| ORIENTATION COURSE | Japanese Cultural Orientation<br>Communication Skills |
| SEMESTER 01 | Computer Fundamentals<br>Japanese Language Level I<br>Technical Writing<br>Programming Fundamentals<br>Technologies for Web development<br>Mathematics I for SE<br>Fundamentals of Multimedia |
| SEMESTER 02 | Japanese Language Level II<br>Database Systems<br>Object Oriented Modelling and Development<br>Web Programming<br>Requirement Engineering<br>Mathematics II for SE |

## 2nd Year

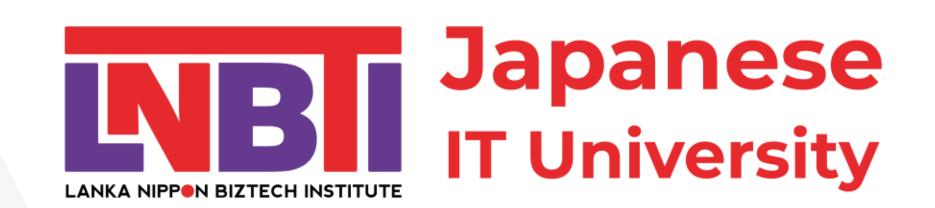| SEMESTER 03 | Japanese Language Level III<br>Data Structures and Algorithms<br>Internetworking<br>Software Architecture and Design<br>Visual Application Programming<br>Mathematics III for SE |
|---|---|
| SEMESTER 04 | Japanese Language Level IV<br>System Analysis and Development – Group Project<br>Advanced Database Systems<br>Project Management<br>Computer Architecture<br>Statistics I for SE |

# 3rd Year

| SEMESTER 05 | Japanese Language Level V<br>Industrial Based Software Development Group Project<br>Software Process Improvements<br>Operating Systems<br>Software Testing and Quality Assurance<br>Professional Practice and Work Based Learning<br>Statistics II for SE<br><br>Optional (select only one) subject<br>Enterprise Application Development<br>Physics and Digital Electronics<br>Mobile Application Development |
|---|---|
| SEMESTER 06 | Software Evolution<br>Industrial Training<br>Japanese Way of Doing Business<br>Business Management and Regulatory Studies |

# 4th Year

| SEMESTER 07 | Japanese Language Level VI<br>Final Year Software Engineering Research Project –Part I (Year Long)<br>Research Methodology<br>Software Measurement Metrics<br><br>Optional (select only one) subject<br>High Performance Computing<br>Data Mining and Machine Learning<br>Internet of Things<br>Computer Virtualization<br>Cyber Security and Forensics<br>Advanced Physics |
|---|---|
| SEMESTER 08 | Japanese Language - Level VII<br>Final Year Software Engineering Research Project –Part II (Year Long)<br>Human Computer Interaction and UX Engineering<br>Software Safety and Reliability<br><br>Optional (select only one) subject<br>Formal Methods<br>Ethical Hacking<br>Big Data Analytics<br>Entrepreneurship<br>Cloud Computing<br>Image Processing<br>Game Development and Programming<br>Introduction to Robotics<br>Wireless Networks<br>Advanced Mathematics |

LNBTI
LANKA NIPPON BIZTECH INSTITUTE
**Japanese
IT University**

# BSC (HONS) SOFTWARE ENGINEERING DEGREE

## Entry Requirements

- Three (3) simple passes ('S') in Physical Science /ICT subject streams in the same sitting at the GCE (Advanced Level) Examination conducted by the Department of Examination or equivalent qualification

  OR

- At least three (3) simple passes ('S') in any stream in the same sitting at the GCE (Advanced Level) Examination conducted by the Department of Examination or equivalent qualification, with a bridging course approved by the Specified Authority.

- Candidates must have Credit passes (C) in Mathematics and English at the G.C.E Ordinary level conducted by the Department of Examination of Sri Lanka.
  Students who have not yet completed this requirement are still eligible to enroll. However, they must fulfill this requirement within the first year of their degree program.

## Join the Japanese IT Industry as a Software Engineer

Join the IT industry in Japan as a Software Engineer

**GRADUATE**

**04 YEAR**
Bsc (Hons) Software Engineering
Business Japanese Language Individual Discussion & Job macthing with HR/IT companies for jobs in Japan

**03 YEAR**
Industrial training / Internship / Japanese Language ( N3 Level ) + Business Culture Exposure to prepare for jobs in Japan

**01 AND 02 YEAR**
Excellent IT Skill Japanese Language (N4 Level) Japanese Society & Business Cultural Exposure

**JOIN**
A/Ls with minimum 3"S" passes or Successfully completed the bridging course

KIT
金沢工業大学
kanazawa Institute of Technology

THE UNIVERSITY OF AIZU
University of AIZU (UOA)

K G U
関東学院大学
KANTO GAKUIN UNIVERSITY
Kanto Gakuin University

公立はこだて未来大学
FUTURE UNIVERSITY HAKODATE
Future University of Hakodate

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கல்வி அமைச்சு
MINISTRY OF EDUCATION