



Future Ready



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BCS.IT

Bachelor of Computer Science (Hons.)
(Network Technology & Cybersecurity)







COMPUTER

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Syllabus

Lincoln University College (LUC), Petaling Jaya, Malaysia established in 2002 as Lincoln College (LC) and upgraded on 16th August 2011 as University. LUC is one of the premier private institutions of higher education approved by the Ministry of Higher Education and Malaysian Qualifying Agency (MQA). The University is situated in the cosmopolitan town of Petaling Jaya, which is 10 kilometers West of the capital city, Kuala Lumpur.



ABOUT THE UNIVERSITY

The founders and administrators of LUC are true academicians who are committed to helping the students to achieve their potential in the education, research and employment world of this exciting new millennium. They bring together almost fifty years of higher education, post-secondary education and language teaching experience. Their backgrounds include teaching, research and professional training. LUC's focus is student-centered and student-directed, with the philosophy that everyone has a claim to education in order to better their life, advance their career & reach their desired level of personal success. LUC is an ideal learning institution to career shifters, second degree students, and high school seniors who consider getting a diploma, under-graduate or postgraduate degree, will open many doors of career opportunities. For those working adults pursuing second careers or acquiring new skills, LUC offers the occupational and professional training they need, to go ahead in today's competitive marketplace.

TIMES HIGHER EDUCATION-35 IN QUALITY EDUCATION IN THE WORLD UNIVERSITY RANKINGS



Lincoln University College has been ranked among the best top nine universities in Malaysia. In addition, the University has been ranked 35 in quality education in 2021 THE University Impact Rankings. The result is based on global performance against United Nations' Sustainable Development Goals (SDGs).

It is our great honor to be associated with Lincoln University College and we stand together to acknowledge and celebrate this significant milestone!

We believe this achievement will pave a path for a more enriching and valuable collaboration between KFA Business School and Lincoln University!

Message from Vice Chancellor

Dr. Amiya Bhaumik

Vice Chancellor, Lincoln University College



Students applying to selective colleges understandably want to know, “what does it take to get in?” The answers they receive from admission professionals often sound evasive, disingenuous, and even haughty. But the truth is that there is no concrete formula for gaining admission to colleges that have so many excellent candidates. Consider the following thoughts about college admission in general against LINCOLN UNIVERSITY COLLEGE in particular.

Most candidates applying to top schools have the preparation, performance and personal qualities to be successful in a highly competitive learning environment.

Selective Colleges attract far more qualified students than they could possibly accommodate in their first-year classes. The admission process at these schools is highly subjective and arbitrary.

Applicants to highly selective colleges must confront the prospect that they will be placed on a waiting list or refused admission without concrete reasons. Such an outcome does not mean they are unqualified or unworthy.

It reflects the quality of competition for admission.

But at LUC, in the selection process, involvement with activities, services or work are carefully considered. We look for serious commitment, leadership and earned recognition from peers or adults. We want to enroll people, who will enrich our community with their talents and personalities.

The appraisal of teachers and guidance counselors influence our decisions. We value intellectual vigor, self-motivation, active participation and the desire to pursue knowledge with creativity and independence.

We hope candidates will use the required essay as a vehicle to reveal their ideas and opinions, their values and aspirations. We want to know about their thought processes.

As I mentioned, there is no formula for gaining admission into a highly selective college. But I hope this has provided some insights into our evaluation of application here at Lincoln. Good luck with the process.

Message from Director- Academics & Consulting

Jasmine Hada Bajracharya

Director- Academics & Consulting



Welcome to KFA Business School!

Graduate school is one of those endeavors that require significant personal sacrifice with the realization that the results will transform your future for yourself and for your family. As you consider different graduate programs and career paths, know that my team and I will be here to support you in making the optimal choice to help you achieve your personal goals.

Our entire IT curriculum is based on the 9 Pillars which have been carefully crafted understanding the gap between the education being imparted and the need of competent human resources in the related industry, thereby enhancing the foundational knowledge & skills our graduates take into their careers.

We strive to create impactful knowledge, transform

business and academic practices and empower our students for a fair and sustainable future.

KFA, with almost two decades of experience in excellent and innovative Academic, Training and Consulting deliveries, has a vibrant community of faculties, staff members, students and alumni who are contributing to shape and apply the best practice of businesses at local or global arena.

Come join us to experience a teaching methodology never experienced before, explore the world of IT and transform yourself into a RockStar IT Professional.





About BCS.IT

The Bachelor of Computer Science (Hons.) (Network Technology & Cybersecurity) program offered by KFA has been developed based on the rapidly evolving information technology industry and its impact on the economy and lives of the people on the national and global scale. As one of the most sought-after undergraduate courses, the BCS.IT program offered by KFA, in affiliation to Lincoln University College, specializes in Network Technology and Cyber Security, which equips the students with the essential skills required for designing, implementing and managing networking systems, and provides them with diverse opportunities for career development. The graduates could have job opportunities in different government, non-government, private and public organizations, software companies, telecommunications, computer networking companies, financial institutions, etc. as System Administrators, Network Administrators, Cyber Security Experts, System Analysts, Network & Security Designers, Network Consultants, LAN/WAN Specialists, Ethical Hackers, and so on.

Taking into account the wide range of opportunities created by the program, and the industry requirement, the BCS.IT- Network Technology and Cyber Security program at KFA has been designed on the foundation of 9 Strong Pillars to impart the theoretical and practical knowledge in an integrated manner to help the students understand the practical implications of what they learn in the class. Furthermore, these pillars also help in building the competencies required by the students to compete in the national as well as global platforms, as well as contribute to their employability to help them outstand in the job market.



STRONG PILLARS

1. Strategic Alliance with Traineeship Opportunities
2. Real Time Exposure in Virtual Office Lab
3. Dual Faculty System
4. Management Crash Course
5. I Evolve Series for soft-skills development
6. IT Entrepreneurship
7. Career Cell
8. Certified IT Training Courses
9. IT Talk show

STRATEGIC ALLIANCE WITH TRAINEESHIP OPPORTUNITIES



Pillar to provide the opportunity to gain work experience in established companies through strategic alliance

It provides the opportunity for the students to leverage through KFA's strategic alliance with various companies in IT sector to get hands-on experience to better understand the practical implications of the network technologies and security system used in the industry, while also helping them kick-start their career.

Proven Process:

- Student profiling (semester wise)
- List the openings
- Receive application of interest from students
- Mapping of the students with the available vacancies
- Student interview and selection
- Student traineeship period
- Student traineeship report submission and viva

REAL TIME EXPOSURE IN VIRTUAL OFFICE LAB



Pillar to simulate real working environment

In order to equip the students with the skillset and knowledge beyond the curriculum requirement, they will be assigned projects based on multiple aspects of IT Management ranging from the installation of hardware and software components, creating and managing servers, security management to overseeing and managing the overall computer networking system. The exposure gained by the students in the virtual office lab will enable them experience a real office/working environment.

Proven Process:

- Assigning projects according to the subjects
- Practice in a simulated environment
- Map out the virtual environment to the real-life environment
- Deploy the project they have been working on



DUAL FACULTY SYSTEM



Pillar to incorporate practical approach in learning method

This is our unique teaching mechanism in which two Resource Persons – the Academic Professors (APs) & the Practical Contributors (PCs) are responsible for delivering the curriculum of BCS.IT Program in an integrated manner. The APs teach from the textbooks covering conventional and contemporary/emerging theories, while PCs provide insight into the actual scenario of the IT industry as well as the working environment which the students need to experience once they kick-start their career.

Proven Process:

- Assignment of Dual Faculty in respective subjects
- DFS workshop for teachers
- Role assignment to Practical Contributor (PC) and Academic Professor (AP)
- Dual Faculty takes classes
- Mid-semester review of DFS by students
- Clinical and coffee session with dual faculty by Academic department



MANAGEMENT CRASH COURSE



Pillar to enhance management skills amongst the students

This pillar has been designed with the objective impart management- based knowledge amongst the students in order to enhance their management skills such as strategic thinking, critical analysis, project management and so on. Paired with the real-time exposure provided by the virtual office labs, the students will learn how to utilize the management skills, thus, enabling them conduct the functions of an IT Manager efficiently.

Proven Process:

- Map out the management courses required for each semester
- Register students to the courses
- Few-day workshop classes
- Evaluation through projects
- Student traineeship report submission and viva

I EVOLVE SERIES FOR SOFT-SKILLS DEVELOPMENT



Pillar to provide applicable skills for competencies development

The Evolve Series includes a series of structured, non-credit training courses that help students learn, develop and polish their soft-skills. Presentation, Communication, Writing, Public Speaking and Professional Etiquettes are some of the many skills that students master from these classes, that are critical in helping develop dynamism in the students.

Proven Process:

- Students skills mapping
- Training scheduling
- Select training experts
- Program delivery
- Post discussion on learning



IT ENTREPRENEURSHIP



Pillar to mentor the IT students on entrepreneurship

The Pillar is designed to facilitate mentoring sessions for the students by integrating the entrepreneurship aspect of the IT sector, to support them in starting their own ventures.

Proven Process:

- Idea submission by students
- Workshops on topics that are important for entrepreneurship
 - Collaboration among team members
 - Feasibility study
 - SWOT analysis
 - Budget planning
- Mentorship sessions
- Business Idea pitching



CAREER CELL



Pillar to connect students with the world of Information Technology for best placement

The career cell will help the students connect with the world of Information Technology during and after the completion of their BCS.IT course.

Proven Process:

- Letter of interest from students
- Selection of students to run career cell
- Students briefing and oath-taking ceremony
- Placement of students in respective function (Training Cell, Career Fair Cell, Industry Relation Cell, Internal Operation Cell)

CERTIFIED IT TRAINING COURSES



Pillar to provide IT courses for certification that helps them increase employability

The pillar will help the students adapt to the practical world by providing them with opportunities to learn various certified courses. By partnering with various training centers, KFA offers various IT courses that are useful for students in the future, like programming classes (Python, Java, .net, ruby, c), networking and Cyber Security certifications (CCNA, CCNP, CCENT Comp TIA A+, CEH). However, students are required to pay for the certification themselves.

Proven Process:

- Letter of interest from students
- Finalize the courses being offered
- Training classes by forming strategic alliances with different training centers

IT TALK SHOW



Pillar to facilitate two-way conversation between students and IT experts

Under this pillar, the national and international delegates who are the experts from the IT industry will be invited to provide insights into the national and global trends and issues of the IT industry, through active interaction between the students and the industrial experts.

Proven Process:

- Gather ideas for talk shows
- Finalize the format of the talk show
- Finalize the guests who are currently working in the IT industry
- Complete the list of guests and moderators
- Organize the talk shows

SEMESTER

1

COURSE

Business English
 Computer Network
 Web Designing
 Discrete Math
 Security Computing
 Basic Computer Architecture
 Total Semester Credit Hours

STATUS

Free
 Concentration
 Core
 Core
 Core
 Concentration

CREDIT HRS.

3
 3
 4
 4
 3
 4
 21

SEMESTER

2

COURSE

Advance Computer Architecture
 Advance Computer Network
 System Analysis & Design
 Digital Logic
 Windows Server 2016
 Cyber Security Law and Policy
 Total Semester Credit Hours

STATUS

Core
 Concentration
 Core
 Core
 Free
 Core

CREDIT HRS.

4
 3
 4
 4
 4
 4
 23

SEMESTER

3

COURSE

Operating System
 E-commerce
 Data Structure & Algorithm
 Wireless Communications
 Ethical Hacking
 Database Management System
 Total Semester Credit Hours

STATUS

Core
 Free
 Core
 Concentration
 Core
 Core

CREDIT HRS.

3
 3
 4
 3
 3
 4
 20

SEMESTER

4

COURSE

Advance Database Management System
 Data Communication & Networking
 Linux Administration (WAN & MAN)
 Leadership & Human Relations
 Embedded System
 Software Project Management
 Total Semester Credit Hours

STATUS

Core
 Core
 Core
 Concentration
 Free
 Concentration

CREDIT HRS.

4
 4
 4
 2
 4
 4
 22

SEMESTER

5

COURSE

Cryptography
 Information Security Management System
 Artificial Intelligence
 Advance Routing Technology (WAN)
 Project Work
 System Software & Administration
 Total Semester Credit Hours

STATUS

Free
 Concentration
 Core
 Core
 Core
 Concentration

CREDIT HRS.

4
 4
 4
 4
 6
 4
 26

SEMESTER

6

COURSE

Digital Crime Investigation
 Industrial Management
 Cloud Computing
 Industrial Training
 Total Semester Credit Hours

STATUS

Core
 Core
 Concentration
 Concentration

CREDIT HRS.

4
 4
 4
 6
 18

TOTAL PROGRAM CREDIT HOURS = 130 HOURS

Future Ready



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