



*Future Ready*



[www.kfald.com](http://www.kfald.com)

# BCS.IT

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



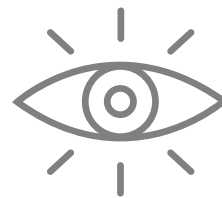


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## Mission

KFA is in the Mission to produce World-Class Human Resources and provide best mix of management solutions through its Education, Training & Consulting Services.



## Vision

KFA aspires to be one of the best Management Education, Training and Consulting firms not only in Nepal but also geared up to make visible contributions in Regional and Global arena.



## Values

- Respect for all
- Accountability
- Integrity & Trustworthy
- Learning Attitude
- Passion to Serve Excellence

# About Company

With a determined mindset to effectively contribute in the capacity building of the Nepalese Business Sector, KFA was established in July 2001 with major thrust on Management Education, Training, Consulting & AgriBusiness Firm initiatives. Since its establishment, KFA has been working in these areas and has been instrumental in knowledge denomination through the development of knowledgeable, academically sound & professionally trained human resources and also by delivering quality management consulting services to its valued clients. KFA Agro, a Strategic Business unit of KFA officially started on 17th June 2021. With objective of farming and processing of Aloe Vera & Avocado Products in 6 bigha land.



Training



Education



Consulting

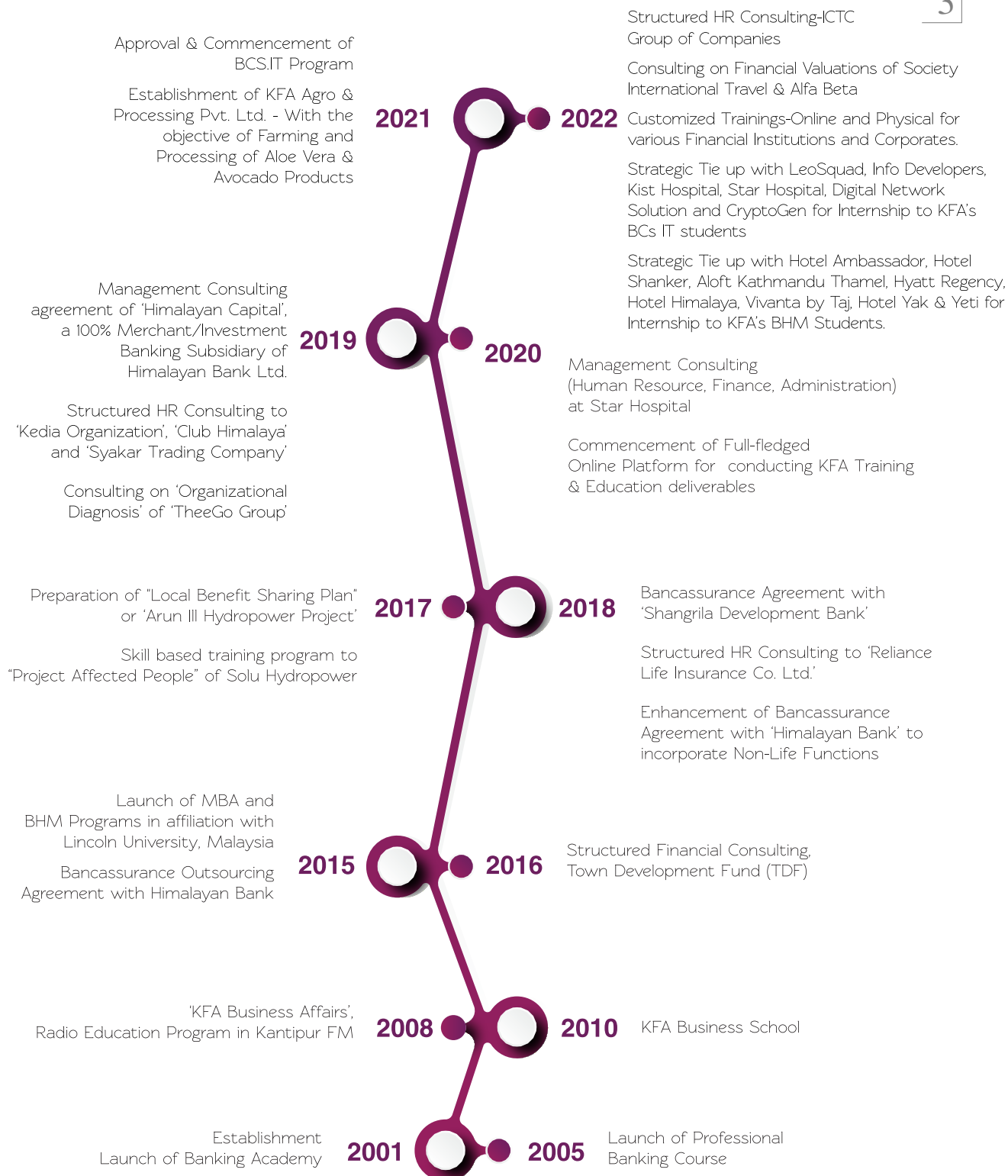


AgriBusiness Firm





# MILESTONES



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

President/ 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 Founder/ Executive Chairman & Principal

Resta Jha

Founder/ Executive Chairman & Principal



Global Pandemic COVID-19 and its economic ramification have made us more responsible towards contributing in overall economic upliftment of Nepal. We strongly feel that the Role of Entrepreneurs has increased many folds in Post-COVID period for positively contributing in Country's GDP and provide relevant employment opportunities to our workforce, not only to those who will be coming to the job market, but also to those, who have lost their jobs due to this pandemic.

KFA was established 22 Years back on 4th July 2001 and is contributing through Training, Education and Consulting initiatives. With its basic ethos of 'Vision Beyond the Box', KFA has always strived to contribute positively in Country's Entrepreneurial and Business landscapes. As per KFA's mission to produce world-class human resources and provide best mix of 'management solutions' through its Education, Training and Consulting Services, KFA Business School's MBA Program aspires to contribute in this mission by implementing 'Dual Faculty System (DFS)', an unique Teaching Methodology, along with other eleven

Pillars, adopted by the School. We desire our Graduates to make a significant impact in the economy, for which KFA's teaching methodology revolves around pairing of contemporary case studies with relevant academic chapters in each course. DFS, which brings in Academic Professors (APs) and Professional Contributors (PCs) together in each Class Interactions, has helped us in delivering 360 degrees management education in the School's Masters Level Program.

Besides conducting Academic Programs through DFS, various other initiatives such Industry Based Research (IBR), Entrepreneurship Brainstorming Sessions, Business Enterprise Project Management (BEMP), Professional Entrepreneurship Groups (PEGs), Global Economic Analysis, Evolve Series (Capacity Building and Skills Enhancement Programs), Behavioral Workshop Sessions, and KFA Career Cell add immense value to KFA's MBA Program. We would like to welcome all MBA aspirants to the school and request them to be a part of this unique concept of Management Education in Nepal.

# 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.





**BEYOND THE  
CLASSROOM**







A hand is shown on the left side of the page, holding a glowing network diagram. The diagram consists of numerous blue and white nodes connected by thin lines, forming a complex web. A bright orange and yellow light source is positioned within the network, creating a lens flare effect. Below the network, a laptop screen is visible, displaying a blue light. The background is dark with a subtle grid pattern.

# 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.

The background is a dark, textured field of small, light-colored squares. A large, white, stylized fingerprint is centered in the lower half. A circuit-like pattern of white lines is visible in the upper half. A diagonal band of red and blue colors runs from the top left to the bottom right, passing over the fingerprint.

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# 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







This college is bit more different than other BCS. IT college, as it goes both practical and theoretical knowledge simultaneously. It provides dual faculty system. I can confidently say that I had made one of the best decisions of my life by joining KFA.

- Ms. Krisha Pahari

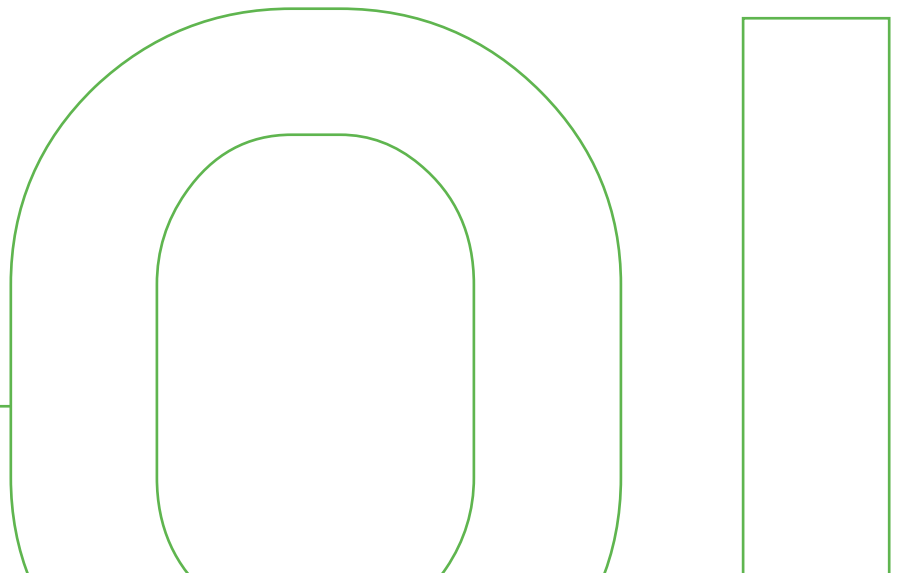


## Pillar to provide the opportunity to gain work experience in established companies through strategic alliance

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





“

With quality education, our college also organizes various events which expose us to the real world applications. My time at KFA has been nothing short of a great experience so far. I chose KFA to build my career in Cybersecurity and it has been one of the best decisions I ever made.

- Mr. Bishwoj Raj Nepal

”

## 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

OSR

# MANAGEMENT CRASH COURSE



“

Our both professional contributor and academic professors are highly talented and cooperative. KFA provides practical knowledge required to excel in managerial roles in IT at current scenario. I would really like recommend them to join KFA and grab the golden opportunity by being the student of KFA.

- Eliza Bhandari

”

## 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

I 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



“

KFA's faculty has unique, leading-edge insights into business, and here they share information that can immediately be applied to your career and professional development.

- Bhupendra K Sharma

”

## 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



BCS IT 4 YEAR'S  
PROGRAM COURSES

31

## FIRST SEMESTER

Course	Code	Credit Hrs.
Business English	ENG -111	3
Computer Network	CNW-112	4
C Programming	CPM-113	4
Discrete Mathematics	DSM-114	4
Basic Computer Architecture	BCA-116	4
Total Semester Credit Hours		19

## SECOND SEMESTER

Course	Code	Credit Hrs.
Security in Computing	SCT-115	4
Advanced Computer Network	ACNW-122	4
Python	PHN-127	4
Operating System	ECM-123	3
Advanced Computer Architecture	ACA-121	4
Total Semester Credit Hours		19

## THIRD SEMESTER

Course	Code	Credit Hrs.
Software Engineering (Including SAD Portion)	SAD 375	4
Digital Logic	CHS-124	4
E-Commerce	ECM-133	3
Windows Server 2016	WDS-125	4
Cyber Security Law & Policy	CSLP-126	3
Total Semester Credit Hours		18

## FOURTH SEMESTER

Course	Code	Credit Hrs.
Technopreneurship	TCP-241	3
Web Designing	WBD-113	3
Wireless Communications	WLC-234	4
Ethical Hacking	EHG-235	4
Database Management System	DMS-236	4
Total Semester Credit Hours		18

# SYLLABUS

## FIFTH SEMESTER

Course	Code	Credit Hrs.
Linux Administration	LNXA-243	4
Leadership & Human Relations	LSHR-244	2
Artificial Intelligence	AFI-353	4
Digital Forensics	DFS-354	4
Cryptography	CRPT-351	3
Total Semester Credit Hours		17

## SIXTH SEMESTER

Course	Code	Credit Hrs.
Industrial Management	MWS-362	3
Software Project Management	SPM-246	3
Data Structure & Algorithm	DSA-233	4
Information Security Management System	ISMS-352	3
Advanced Routing Technology	ART-354	4
Total Semester Credit Hours		17

## SEVENTH SEMESTER

Course	Code	Credit Hrs.
Advanced Switching Technology	AST-382	3
System Software and Administration	CSA-356	3
Final Year Project	PRJT-355	6
Cloud Computing	CCM-363	4
Total Semester Credit Hours		16

## EIGHT SEMESTER

Course	Code	Credit Hrs.
Industrial Training	IDT-366	6
Total Semester Credit Hours		6

**TOTAL PROGRAM CREDIT HOURS = 130 HOURS**



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