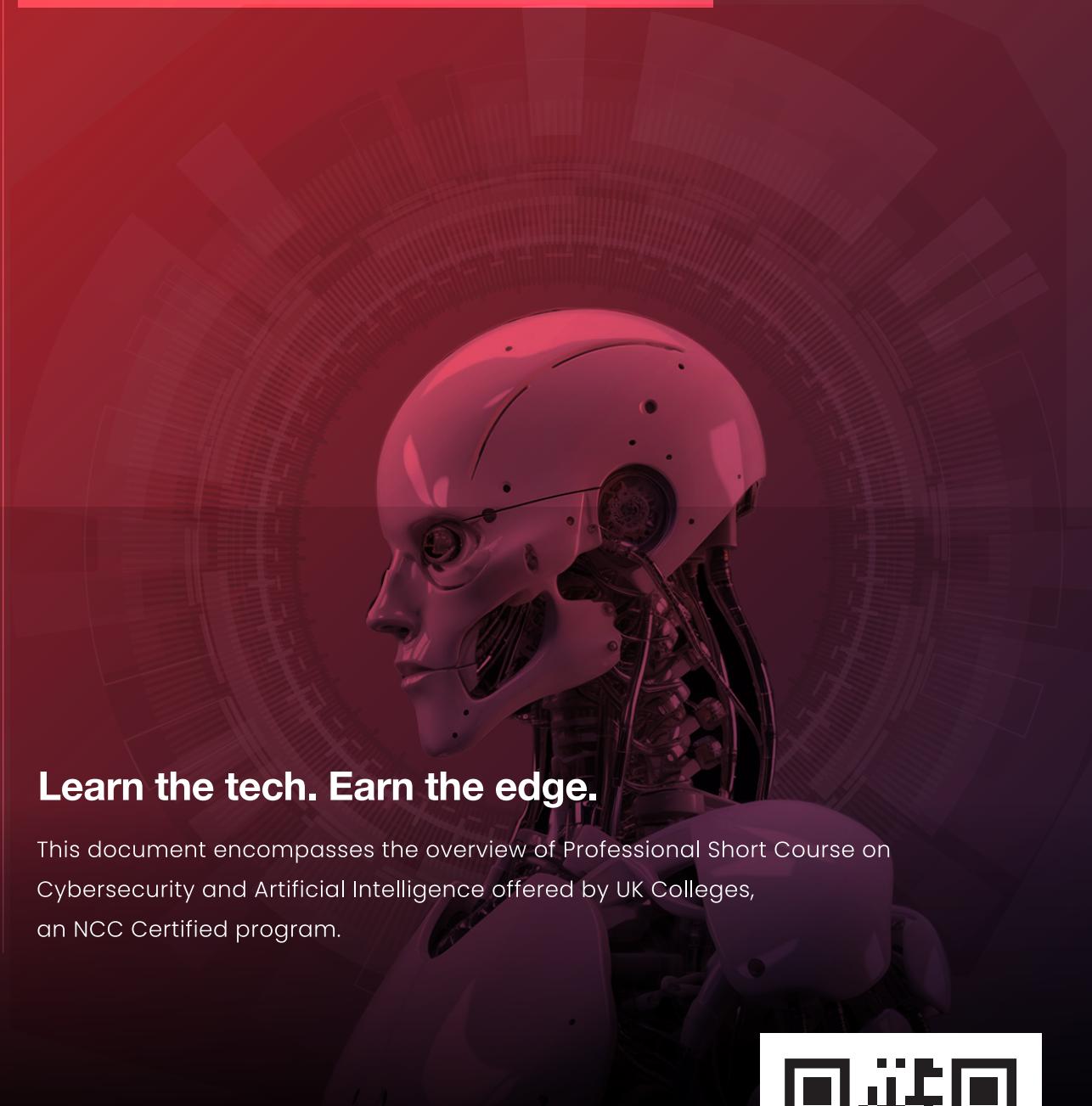


# COMPREHENSIVE PROPOSAL



**Learn the tech. Earn the edge.**

This document encompasses the overview of Professional Short Course on Cybersecurity and Artificial Intelligence offered by UK Colleges, an NCC Certified program.





UK Colleges is one of the leading institutions in the education industry, providing a wide range of professional skills development programs accredited by the National Computing Centre (NCC), an awarding body of British education. We aim to empower enthusiastic Nepalese students with comprehensive, industry-relevant education in cutting-edge technology fields such as Cybersecurity, Artificial Intelligence and many more. The objective is to equip them with the necessary skills and knowledge to excel in their careers and make significant contributions to continually evolving technology.

#### **Our Offerings:**

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**Short Professional  
Course on Cyber Security**



**Short Professional  
Course on Artificial Intelligence**

NCC Education Ltd.  
The Towers  
Towers Business Park  
Wilmslow Road  
Didsbury  
Manchester M20 2EZ  
United Kingdom

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



UK Colleges has a longstanding partnership with the National Computing Centre (NCC) UK, ensuring the legitimacy and verification of our short courses since our inception. NCC, a prominent UK awarding body, boasts a global presence with over 200 partners spanning across 50+ countries. Regulated by the Office of Qualifications and Examinations Regulation (Ofqual), NCC Education offers qualifications listed on the Regulated Qualifications Framework (RQF) in England, further solidifying the credibility of our programs.

Additionally, NCC Education holds recognition from the Department of Education in England. Furthermore, UK Colleges holds accreditation from e-skills UK, a sector skills council regulated in United Kingdom, adding another layer of credibility.

# Short Professional Course on Cyber Security

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Our Cyber Security Short Course will provide learners with the underlying theory and practical skills required to secure networks and to send data safely and securely over network communications (including securing the most common Internet services).

This course provides a look at the technologies employed to secure a network. It is designed to provide learners with knowledge of the fundamental principles and techniques employed in securing information and networks.

The course will allow learners to assess the security risks inherent in computer networks and the technologies that can be employed to counter such risks. It covers cryptographic algorithms from a mathematical point of view, including practical examples of breaking codes.

Once the learners have knowledge of the different types of algorithm, cryptographic protocols are introduced for accomplishing a varied set of tasks, including authentication, secure message exchange, digital signatures, etc. Other aspects of network security are then dealt with, such as access control devices and firewalls, VPN, NAT, malware, vulnerability assessment, Intrusion Detection Systems (IDS), etc.



# Comprehending the Details: Cyber Security

Reflecting upon the complexity of the subject matter and the curriculum specified by CDC Nepal, the entire course is further divided into two sub-modules: Module One, taught in Class 11, and Module Two, taught in Class 12.

Upon the completion of each module, students are awarded a certificate accredited and signed by officials from NCC Education. This serves as a testament to the standardized assessment process, guided and evaluated by NCC Education, UK.

<b>Module One   Class 11</b> Cryptography Fundamentals	CH 01	CH 06	<b>Module One   Class 11</b> Virtualization
<b>Module One   Class 11</b> Public Key Infrastructure	CH 02	CH 07	<b>Module One   Class 11</b> Linux Fundamentals
<b>Module One   Class 11</b> Web Security	CH 03	CH 08	<b>Module One   Class 11</b> Vulnerability Assessment
<b>Module One   Class 11</b> Email Security	CH 04	CH 09	<b>Module One   Class 11</b> Authentication
<b>Module One   Class 11</b> Data Protection	CH 05	CH 10	<b>Module One   Class 11</b> Careers in Cyber Security - I
<b>Module Two   Class 12</b> Internet Protocols	CH 01	CH 05	<b>Module Two   Class 12</b> Remote Access
<b>Module Two   Class 12</b> Access Control	CH 02	CH 06	<b>Module Two   Class 12</b> Wireless Security
<b>Module Two   Class 12</b> Firewalls	CH 03	CH 07	<b>Module Two   Class 12</b> Digital Forensics Fundamentals
<b>Module Two   Class 12</b> Virtual Private Network (VPN)	CH 04	CH 08	<b>Module Two   Class 12</b> Careers in Cyber Security - II

# Module I (Implementation): Short Course on Cyber Security

Module One aims to provide a comprehensive understanding of cybersecurity principles and practices. Upon completion, students should be able to apply cryptographic techniques, assess vulnerabilities, and implement security measures across various platforms.

<b>Lecture + Discussion</b> Course Orientation and Introduction to Cybersecurity	WK 01	WK 10	<b>Lecture + Guest Talk</b> CH 07: Careers in Cybersecurity – I
<b>Lecture + Lab</b> CH 01: Cryptography Fundamentals (Theory + Lab)	WK 02	WK 11	<b>Theory + Command Practice</b> CH 08: Linux Fundamentals (Part 1)
<b>Lecture + Activity</b> CH 02: Data Protection (Theory + Case Study)	WK 03	WK 12	<b>File Permissions + Terminal</b> CH 08: Linux Fundamentals (Part 2)
<b>Lecture + Lab</b> CH 03: Public Key Infrastructure (PKI)	WK 04	WK 13	<b>Lecture</b> CH 09: Vulnerability Assessment (Theory)
<b>Lecture + Simulation</b> CH 04: Web Security	WK 05	WK 14	<b>Lab</b> CH 09 (Cont'd): Tools like Nessus/Kali Linux
<b>Lecture + Lab</b> CH 05: Email Security	WK 06	WK 15	<b>Lecture + Multi-factor Demo</b> CH 10: Authentication Mechanisms
<b>Full lab session (2 hrs)</b> Lab Workshop 1 Entire (CH 1-5)	WK 07	WK 16	<b>Simulation + Review</b> Lab Workshop 2 Entire (CH 6-10)
<b>Written + Practical</b> Assessment One Followed by Feedback	WK 08	WK 17	<b>Course Comprehension</b> Assessment 2 and Final Feedback
<b>Lecture + Hands-on VM</b> CH 06: Virtualization	WK 09	WK 18	<b>Practical + Written + Viva</b> Assessment 2 and Final Feedback

# Module II (Implementation): Short Course on Cyber Security

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Module Two aims to equip learners with practical cybersecurity skills across areas like network security, access control, and digital forensics. By the end, students will be able to implement security measures and analyze threats.

Lecture + Discussion Recap of Module 1 and Intro to Module 2	WK 01	WK 8	WPA2, Encryption Demo CH 06: Wireless Security
Theory + Lab (Wireshark) CH 01: Internet Protocols	WK 02	WK 9	Theory CH 07: Digital Forensics Fundamentals (Part 1)
Role-based Access Labs CH 02: Access Control	WK 03	WK 10	Lab CH 07: Forensics Tools (Autopsy, FTK Imager)
Simulations CH 03: Firewalls	WK 04	WK 11	Guest Talk + Career Map CH 08: Careers in Cybersecurity – II
Lab CH 04: VPN – Concepts and Configuration	WK 05	WK 12	Case-based Scenario Final Year Project Begins Assessment Brief and Examinations
Theory + Practical CH 05: Email Security	WK 06	WK 13	Peer Review + Feedback Project Finalization and Mock Presentation
SSH, RDP, TeamViewer Demo CH 05: Remote Access	WK 07	WK 14	Final Evaluation + Closure Assessment 2 and Project Presentation

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## In Nutshell (Short Course on Cyber Security)

Module One | Class Eleven : Learning weeks - 18 / Learning Hours – 36 –40 hours of Study

Module Two | Class Twelve : Learning weeks - 14 / Learning Hours - 28- 30 hours of Study

# **Short Professional Course on Artificial Intelligence**

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This Short Course in Artificial Intelligence offers a comprehensive introduction to its fundamental principles while exploring its various branches, including search methodologies, knowledge representation frameworks, and reasoning techniques.

Learners will delve into a spectrum of established AI techniques and their real-world applications, such as the nuances of fuzzy logic, the power of machine learning, the structure of expert systems, the complexities of natural language processing, and the design of intelligent agents.

Upon completion, participants will not only grasp the significance of AI and its widespread utility but also acquire practical skills in applying AI search strategies and knowledge representation methods to solve problems.

Furthermore, they will develop the capacity to evaluate techniques for handling uncertain knowledge, gain insights into diverse machine learning approaches, understand the current landscape of AI applications in both industry and research, and ultimately be able to implement and critically assess a variety of AI models and techniques when tackling real-world challenges.



# Comprehending the Details: Artificial Intelligence

Reflecting upon the complexity of the subject matter and the curriculum specified by CDC Nepal, the entire course is further divided into two sub-modules: **Module One**, taught in Class 11, and **Module Two**, taught in Class 12.

Upon successful completion of each module, students are awarded a certificate that is accredited and officially signed by NCC Education, UK. This certificate represents more than just participation—it is a formal acknowledgment of academic achievement, earned through a rigorous and standardized assessment process. Each module is evaluated under the strict academic standards set by NCC Education, ensuring alignment with international benchmarks. As such, the certification not only enhances the student's academic profile but also plays a key role in their holistic development.

<b>Module One   Class 11</b> Introduction to AI	CH 01	CH 05	<b>Module One   Class 11</b> Fuzzy Logic
<b>Module One   Class 11</b> Problem Solving Using Search	CH 02	CH 06	<b>Module One   Class 11</b> Machine Learning
<b>Module One   Class 11</b> Knowledge Representation	CH 03	CH 07	<b>Module One   Class 11</b> Neural Networks
<b>Module One   Class 11</b> Uncertain Knowledge	CH 04	CH 08	<b>Module One   Class 11</b> Decision Trees
<b>Module Two   Class 12</b> Genetic Algorithms	CH 01	CH 04	<b>Module Two   Class 12</b> Intelligent Agents
<b>Module Two   Class 12</b> Expert Systems	CH 02	CH 05	<b>Module Two   Class 12</b> Prompt Engineering
<b>Module Two   Class 12</b> Natural Language Processing	CH 03	CH 06	<b>Module Two   Class 12</b> Careers in Artificial Intelligence – I

# Module I (Implementation): Artificial Intelligence

Module One aims for the students to understand core Artificial Intelligence concepts while applying foundational techniques like search, machine learning, and fuzzy logic in practical tasks.

Lecture + Discussion Orientation CH 01: Introduction to AI	WK 01	WK 10	Lecture + Tools CH 08: Neural Networks
Lecture + Algorithm Practice CH 02: Problem Solving Using Search	WK 02	WK 11	Lecture + Tools CH 08: Neural Networks
Lecture + Algorithm Practice CH 02: Problem Solving Using Search	WK 03	WK 12	Lecture + Tree Visualization CH 09: Decision Trees
Lecture + Modeling CH 03: Knowledge Representation	WK 04	WK 13	Hands-on Lab Lab Workshop 1 (CH 01–06 Practical)
Lecture + Probability Demo CH 04: Uncertain Knowledge	WK 05	WK 14	Theory + Practical Assessment 1 (Written + Short Demo)
Lecture + Lab + Case Studies CH 06: Fuzzy Logic	WK 06	WK 15	Group Guidance & Research Mini Project Planning and Consultations
Lecture + Lab + Case Studies CH 06: Fuzzy Logic	WK 07	WK 16	Lab + Test Case Development Lab Workshop 2 (CH 06–08 Practical)
Lecture + Hands-on Training CH 07: Machine Learning	WK 08	WK 17	Team Showcase & Peer Review Project and Presentation
Lecture + Hands-on Training CH 07: Machine Learning	WK 09	WK 18	Final Test & Reflection Assessment 2 and Final Feedback

# Module II (Implementation): Artificial Intelligence

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Module Two explores advanced AI concepts such as natural language processing, genetic algorithms, intelligent agents, and expert systems – preparing students with practical projects, and career-oriented exposure, in AI.

Lecture + Prompting Lab Orientation and CH 05: Prompt Engineering	WK 01	WK 8	Lecture + Agent Simulation CH 05: Intelligent Agents
Lecture + GA Problem Solving CH 01: Genetic Algorithms	WK 02	WK 9	Interactive Sessions CH 06: Careers in AI – II + Guest Session
Lecture + GA Problem Solving CH 01: Genetic Algorithms	WK 03	WK 10	NLP + Agent Practice Lab Workshop 1 (Practical CH 01–05)
Lecture + Demo CH 02: Expert Systems	WK 04	WK 11	Theory + Task Assessment 1 (Mid Evaluation)
NLP Theory + Lab CH 03: Natural Language Processing	WK 05	WK 12	Case-based Scenario Final Year Project Begins Assessment Brief and Examinations
NLP Theory + Lab CH 04: Natural Language Processing	WK 06	WK 13	Peer Review + Feedback Project Finalization and Mock Presentation
Lecture + Agent Simulation CH 05: Intelligent Agents	WK 07	WK 14	Final Evaluation + Closure Assessment 2 and Project Presentation

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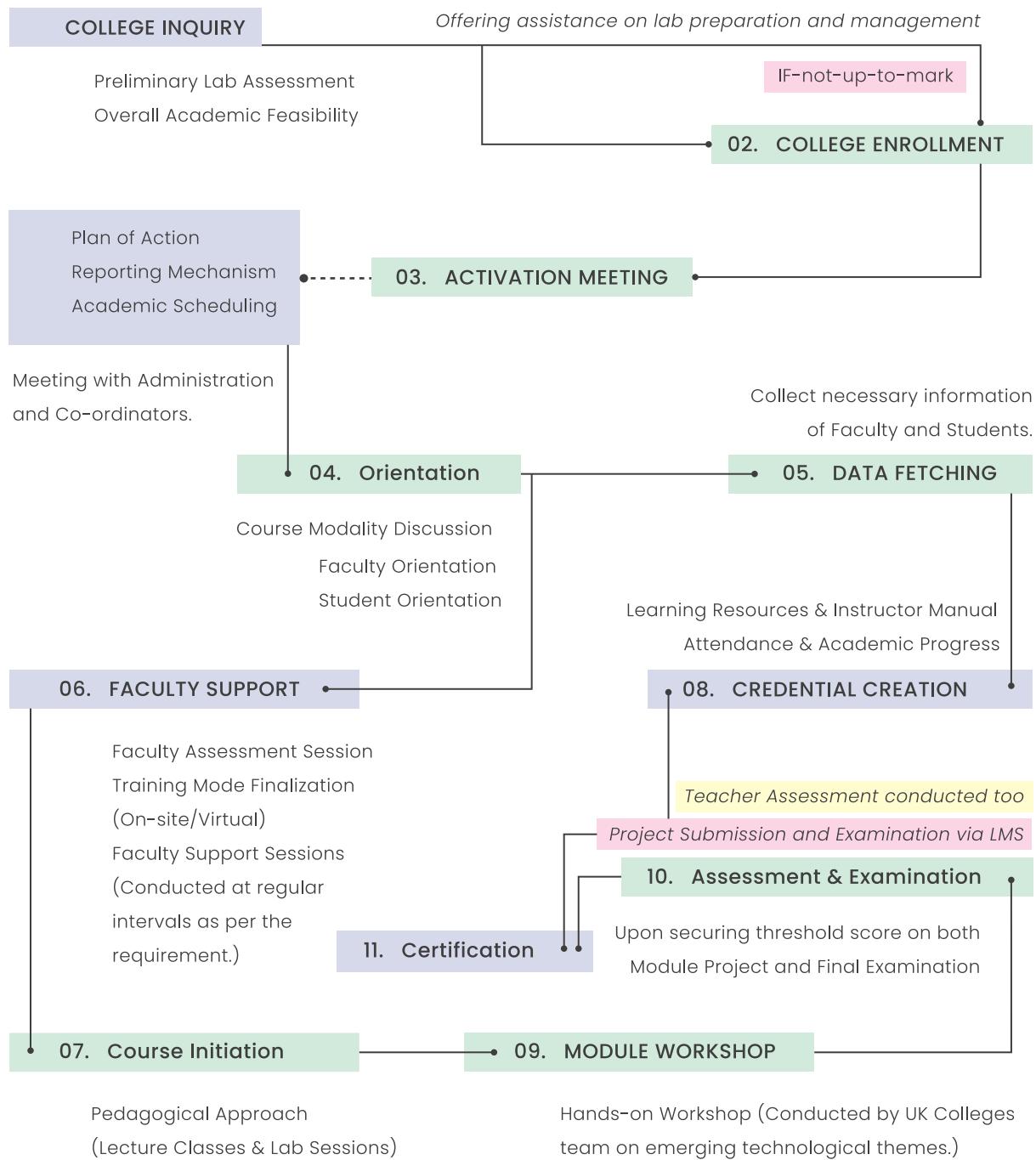
## In Nutshell (Short Course on Artificial Intelligence)

Module One | Class Eleven : Learning weeks - 18 / Learning Hours – 36 –40 hours of Study

Module Two | Class Twelve : Learning weeks - 14 / Learning Hours - 28- 30 hours of Study

# U.K. Colleges Pvt. Ltd.

## Standard Operating Procedure



# Merits Acquired by the Allied Institutions

Through collaboration with UK colleges, an educational institution can gain several added values. This includes enhanced branding, exceptional student learning experiences, and certifications received from our esteemed organization, which hold significant value for one's career.

## COLLABORATION PROSPECT

The college will have the opportunity to collaborate with SoftEd and other allied companies of UK College, fostering mutual growth and development.

## STUDENTS' PRIME CHOICE

By emphasizing its focus on IT education and career development, the college becomes the preferred choice for students interested in pursuing IT as a profession.

## FREQUENT TECH EVENTS & WORKSHOPS

Actively participating in diverse IT competitions, seminars, and feasts allows the college to showcase its capabilities and gain valuable exposure in the IT community.

## CO – BRANDING OPPORTUNITIES

Establishing the college as a prominent brand in IT education solidifies its reputation as an IT-centric institution, attracting IT interested students.

## Recognition as NCC Learning Center

Upon signing up for the course, the institution becomes eligible to obtain a **Certificate of Authorization**,

issued directly by NCC Education UK, establishing its official status as a recognized delivery partner for NCC-accredited programs for the given course in collaboration with the U.K. Colleges Private Limited.



**CERTIFICATE  
OF PARTICIPATION**



**PRESENTED TO  
Abishek  
Khadka**

Reference No.: ARB140CS14101

In recognition of the successful completion of

NCC Education Professional Development

Short Professional Course on

**Cyber Security - Module I**

which is a part of two-months program (Module I and Module II).

This course is a testament to their dedication and commitment to

enhancing their knowledge and skills in the field of Cyber Security.

DATE OF COMPLETION: APRIL 17, 2025

Abishek Khadka  
Chairman, UK Colleges

Ngaip Fong  
Chief Executive Officer, NCC Education

# Comprehending the Financials

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Fees include a waived NRs. 1,00,000 center fee and a negotiable annual per-student fee (GBP 20 or NRs. 3500). Payment involves a NRs. 50,000 signing amount, with the remaining balance in three installments (50%, 25%, 25%) at the end of the first, second, and third academic months, respectively. VAT is included.

Fee Type	Amount	Remarks
Center Authorization Fee	NRs. 1,00,000 /-	Waived
Fee Type	GBP 20   Rs. 3500 (Each of) <i>Cybersecurity Module 1</i> <i>Cybersecurity Module 2</i> <i>Artificial Intelligence Module 1</i> <i>Artificial Intelligence Module 2</i>	Per Students Per Year (Negotiable based on the number of students)

Note: The Fees are stated inclusive of VAT

## Payment Modes

Fee Details	Amount in %	Remarks
Signing Amount	NRs. 50,000 /-	Adjustable in 1st Installment
Course Installment Fee First Installment	50% (After the deduction of the Advanced amount)	End of First Academic Month
Second Installment Fee	25 %	End of Second Academic Month
Third Installment Fee	25 %	End of Third Academic Month

# Connection that Transforms

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SoftEd began with a mission to educate people about technology, evolving to educate through technology. Starting as a group of companies focused on service delivery with an emphasis on technology, SoftEd has broadened its scope beyond education and technology.

Through its "SoftEd Business" sub-domain, the company is now venturing into diverse sectors including "Health-Tech," "E-Commerce," and "Ed-Tech," driven by a diverse group of entrepreneurial individuals.



**NCC Education Ltd.**

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Manchester M20 2EZ United Kingdom  
P. +44 (0) 161 438 6200 | Monday to Friday | 08:30 - 17:00

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



## **PROPOSAL**

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Information is correct at the time of printing May 2025, however changes may occur. Check our website, [www.theukcolleges.com](http://www.theukcolleges.com) or contact us on (+977) -01-5906046 for most up-to-date information.

This document is available in other formats on request. Please contact the Business Development team on  
**+977-1-5906046**