



**International Qualifications and  
Assessment Centre**

Date:



**Agency for Strategic Reforms**  
**Under the President of the Republic of Uzbekistan**

Date:

**LEVELS 3-7**

based on the UK's RQF educational standards

## ACADEMIC PLAN

**Only educational institutions with valid IQAC accreditation are authorized to implement this academic plan**

**Major: Diploma in Cyber Security**

### Level 3 - Foundation

**Academic level:** Levels 4-6 - Bachelor

### Level 7 - Master's

**Mode of study – full time, blended, distance learning**

**Classification – Cyber Security**



Ministry of Higher Education, Science and  
Innovation of the Republic of Uzbekistan

Date \_\_\_\_\_

## I. ACADEMIC PLAN

LEVEL	Weeks																																																				Study process:					Academic break	Total																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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	Theoretical-practical study	A	Assessment	B	Academic break	K	Weeks - credit module system	P	Production practice is given in appendix 8
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II. Curriculum														
Level 3 Diploma in IT- General for all IT														
№	Unit Reference Number	Unit	Subjects	Total student workload					Semester				Total credit value by year	
				Distribution					I semester		II semester			
				Total qualification time	Total Guided learning hours	Theory-based learning	Practice-based learning	Self-guided learning hours	Semester credits				CATS	ECTS
CATS	ECTS	CATS	ECTS											
1	2	3	4	5	6	7	8	9	10		11		12	
3.01	L03FEN-U1	Unit 1	Functional English	120	48	24	24	72	12	6			12	6
3.02	L03OPS-U2	Unit 2	Operating System	200	90	45	45	110	20	10			20	10
3.03	L03NCS-U3	Unit 3	Networking and Cyber Security	120	48	24	24	72			12	6	12	6
3.04	L03PAD-U4	Unit 4	Programming concepts and application development	200	90	45	45	110			20	10	20	10
3.05	L03CAI-U5	Unit 5	Cloud computing & AI	120	48	24	24	72	12	6			12	6
3.06	L03MIT-U6	Unit 6	Mathematics in IT	200	90	45	45	110	20	10			20	10
3.07	L03SSC-U7	Unit 7-uz	Social Science (The New History of Uzbekistan, Philosophy, Basics of Spirituality and Jurisprudence)	200	90	45	45	110	10	5	10	5	20	10
L03PRP-CS			Capstone project	40	40		40				4	2	4	2
			Total 3 level subjects	1200 CATS/ 1800 ECTS	544 CATS/ 816 ECTS	252 CATS/ 375 ECTS	292 CATS/ 441 ECTS	656 CATS/ 984 ECTS	74	37	46	23	120	60

III. Curriculum														
Level 5 Extended Diploma in Cyber Security														
Extended level included 4 and 5 levels. 1-6 units of level 4; 7-12 units of level 5. Each level has two semesters that means a year. Extended level 4-5 will be two years														
№	Unit Reference Number	Unit	Subjects	Total student workload					Semester				Total credit value by year	
				Distribution					III semester		IV semester			
				Total qualification time	Guided learning hours	Theory based learning	Practice based learning	Self-guided learning hours	Semester credits				CATS	ECTS
CATS	ECTS	CATS	ECTS											
1.	2.	3.	4.	5.	6.	7.	8	9.	10.		11.		12.	
5.01	L04ICS-U1	Unit 1	Introduction to Cyber Security	200	90	45	45	110	20	10			20	10
5.02	L04CSP-U2	Unit 2	Cyber security policies and governance	200	90	45	45	110	20	10			20	10
5.03	L04NWS-U3	Unit 3	Network security	200	90	45	45	110	20	10			20	10
5.04	L04OSS-U4	Unit 4	Operating system security	200	90	45	45	110			20	10	20	10
5.05	L04APS-U5	Unit 5	Application security	200	90	45	45	110			20	10	20	10
5.06	L04CRP-U6	Unit 6	Cryptography	200	90	45	45	110			20	10	20	10
			Total 4 level subjects	1200 CATS/ 1800 ECTS	540 CATS/ 810 ECTS	270 CATS/ 405 ECTS	270 CATS/ 405 ECTS	660 CATS/ 990 ECTS	60	30	60	30	120	60
Level 5 Extended Diploma in Cyber Security									V semester		VI semester		Total credit value by year	
									Semester credits					
5.07	L05ANS-U7	Unit 7	Advanced network security	200	90	45	45	110	20	10			20	10
5.08	L05EHPT-U8	Unit 8	Ethical Hacking and Penetration Testing	200	90	45	45	110	20	10			20	10
5.09	L05DFIR-U9	Unit 9	Digital Forensics and Incident Response	200	90	45	45	110	20	10			20	10

5.10	L05MAR-U10	Unit 10	Malware Analysis and Reverse Engineering	200	90	45	45	110			20	10	20	10
5.11	L05CLS-U11	Unit 11	Cloud Security	200	90	45	45	110			20	10	20	10
5.12	L05CPSP-U12	Unit 12	Capstone Project	200	90	45	45	110			20	10	20	10
			Total 5 level subjects	1200 CATS/ 1800 ECTS	540 CATS/ 810 ECTS	270 CATS/ 405 ECTS	270 CATS/ 405 ECTS	660 CATS/ 990 ECTS	60	30	60	30	120	60
			Total extended level 5	2400 CATS/ 3600 ECTS	1080 CATS/ 1620 ECTS	540 CATS/ 810 ECTS	540 CATS/ 810 ECTS	1320CATS/ 1980 ECTS	120	60	120	60	240	120

IV. Curriculum														
Level 6 Diploma in Diploma in Cyber Security														
№	Unit Reference Number	Unit	Subjects	Total student workload					Semester				Total credit value by year	
				Distribution					VII semester		VIII semester			
				Total qualification time	Guided learning hours	Theory based learning	Practice based learning	Self-guided learning hours	Semester credits				CATS	ECTS
CATS	ECTS	CATS	ECTS											
1	2		3	4	5	6	7	8	9		10		11	
6.01	L06SAEI-U1	Unit 1	Security Architecture and Enterprise Infrastructure	200	90	45	45	110	20	10			20	10
6.02	L06CTID-U2	Unit 2	Cyber Threat Intelligence and Digital Forensics	200	90	45	45	110	20	10			20	10
6.03	L06CSPE-U3	Unit 3	Cryptographic Systems and Protocol Engineering	200	90	45	45	110	20	10			20	10
6.04	L06CSGC-U4	Unit 4	Cyber Security Governance, Compliance and Risk Management	200	90	45	45	110			20	10	20	10
6.05	L06AACS-U5	Unit 5	AI and Automation in Cyber Security	200	90	45	45	110			20	10	20	10
6.06	L06CPAC-U6	Unit 6	Capstone Project: Applied Cyber Security Strategy	200	90	45	45	110	10	5	10	5	20	10
			Total 6 level subjects	1200 CATS/ 1800 ECTS	540 CATS/ 810 ECTS	270 CATS/ 405 ECTS	270 CATS/ 405 ECTS	660 CATS/ 990 ECTS	70	35	50	25	120	60
Overall, for bachelor levels														
			Total 3 level subjects	1200	544	252	292	656	74	37	46	23	120	60
			Total 4 level subjects	1200	540	270	270	660	60	30	60	30	120	60
			Total 5 level subjects	1200	540	270	270	660	60	30	60	30	120	60
			Total 6 level subjects	1200	540	270	270	660	70	35	50	25	120	60
			Total	4800 CATS/ 7200 ECTS	2164 CATS/ 3246 ECTS	1062 CATS/ 1590 ECTS	1102CATS/ 1656 ECTS	2636 CATS/ 3954 ECTS	264	132	216	108	480	240

V. Curriculum														
Master's degree														
Level 7 Diploma in Cyber Security														
№	Unit Reference Number	Unit	Subjects	Total student workload					Semester				Total credit value by year	
				Distribution					I Semester	II semester	III semester			
				Total qualificati on time	Guided learning hours	Theory based learning	Practice based learning	Self-guided learning hours	Semester credits				CATS	ECTS
									CATS	ECTS	CATS	ECTS		

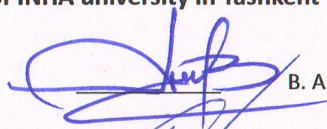
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.		11.		12.		13.	
7.01	L07SCSL-U1	Unit 1	Strategic cyber security leadership and policy development	200	90	45	45	110	20	10					20	10
7.02	L07ACQS-U2	Unit 2	Advanced cryptanalysis and quantum-resistant systems	200	90	45	45	110	20	10					20	10
7.03	L07ADTD-U3	Unit 3	AI-driven threat detection and autonomous response systems	200	90	45	45	110	20	10					20	10
7.04	L07EHRB-U4	Unit 4	Ethical hacking, red/blue teaming, and cyber warfare simulation	200	90	45	45	110			20	10			20	10
7.05	L07GCLE-U5	Unit 5	Global cyber law, ethics, and regulatory compliance	200	90	45	45	110			20	10			20	10
7.06	L07RPMC-U6	Unit 6	Research project / master's thesis in cyber security	200	90	45	45	110			10	5	10	5	20	10
7.07			SAW (Scientific Academic Work)	300	120		120	180	10	5	10	5	10	5	30	15
7.09			SRW (Scientific Research Work)	300	120		120	180	10	5	10	5	10	5	30	15
Total				1800 CATS/ 2700 ECTS	780 CATS /1170ECTS	270CATS/ 405 ECTS	510CATS/ 765 ECTS	1020 CATS/ 1530 ECTS	80	40	70	35	30	15	180	90

#### Appendix:

- 1 credit consists 10 academic hours.
- Course** - Individual units of the programme are called courses. Each course is a self-contained, formally structured learning experience with a coherent and explicit set of learning outcomes and assessment criteria.
- Learning Outcomes** – Describe what learners should know, be able to do, and value as a result of integrating knowledge, skills, and attitudes learned throughout the course.
- Assessment Criteria** – Refer to the specific standards or benchmarks used to evaluate the effectiveness of the outcomes attained.
- Total Qualification Time (TQT)** – The number of notional hours which represents an estimate of the total amount of time that could reasonably be expected to be required for a learner to achieve and demonstrate the level of attainment necessary for the award of a qualification.
- TQT is comprised of the following two elements:
  - **Guided Learning Hours (GLH)** – Defined as the hours that a teacher, lecturer, or another member of staff is available to provide immediate teaching support or supervision to a student working towards a qualification.
  - **Credit Value** – Defined as the number of credits that may be awarded to a learner for the successful achievement of the learning outcomes of a unit. One credit is equal to 10 hours of TQT.
- RQF** – Regulated Qualifications Framework
- Each level has own practice hours which included in TQT; practice hours are taken from each unit by 10% , meaning 20 hours in one level it equals to 120 hours
  - **Level 4** (extended 5 first year) 120 hours of production practice
  - **Level 5** (also in second year) 120 hours of production practice
  - **Level 6** – 120 hours for practice before defend Final Capstone project (Graduation work) Implementational practice of Capstone project (Graduation work)
 Total practice hours 360 hours in CATS -36 credit (18 ECTS credits 540 hours)
- SAW (Scientific Academic Work) making methodical instructions books, assist teachers on their classes (making classes)
- SRW (Scientific Research Work) retrieval search for research, making scientific papers and publishing them
- The European Credit Transfer and Accumulation System (ECTS) is a standardized academic credit system widely adopted across the European Higher Education Area and currently implemented in Uzbekistan, where 60 ECTS credits represent the workload of one full academic year. In the United Kingdom, the Credit Accumulation and Transfer Scheme (CATS) is applied, with 120 CATS credits corresponding to a full academic year; typically, 2 CATS credits are considered equivalent to 1 ECTS credit.
- This academic plan is eligible for adoption by other higher education institutions and universities that hold official approval and accreditation from the IQAC  
**Upon approval of this academic plan schedule, the involved parties will be authorized to issue their respective diplomas, meaning that the student will receive two diplomas upon graduation.**

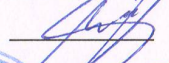
**On behalf of INHA university in Tashkent**

Rector



B. Abdullaev

First Vice-Rector for Academic  
Affairs



J. Inoyatkhodjaev

Head of Academic Affairs Division



U. Rustamova



**On behalf of International Qualifications and Assessment Centre**

Director of studies



U. Azizov

Deputy of academic affairs



Z. Aripova