



British Embassy
Kuwait



المركز الوطني للأمن السيبراني
National Cyber Security Center

cerc 2024

THE 6TH CYBERSECURITY EDUCATION & RESEARCH CONFERENCE

Cyber Security

**In Secondary Education:
Empowering Students to Counter.**

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The general technical director for the
computer subject by assignment

Ministry Of Education

الأمن السيبراني

في التعليم الثانوي
تمكين المتعلمين من المواجهة

الأستاذة منى سالم عوض
الموجه الفني العام لمادة الحاسوب بالتكليف

وزارة التربية



KUWAIT COLLEGE OF SCIENCE & TECHNOLOGY
كلية الكويت للعلوم والتكنولوجيا



جامعة الكويت
KUWAIT UNIVERSITY



UK Science
& Innovation
Network



125 عاماً من الشراكة الكويتية البريطانية
125 YEARS OF KUWAITI-BRITISH PARTNERSHIP



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الأمن السيبراني في التعليم الثانوي-تمكين المتعلمين من المواجهة.

**Cybersecurity in Secondary Education:
Empowering Students to Counter.**



وزارة التربية



الوجبة العامة للحاسوب
General Supervisory of Computing



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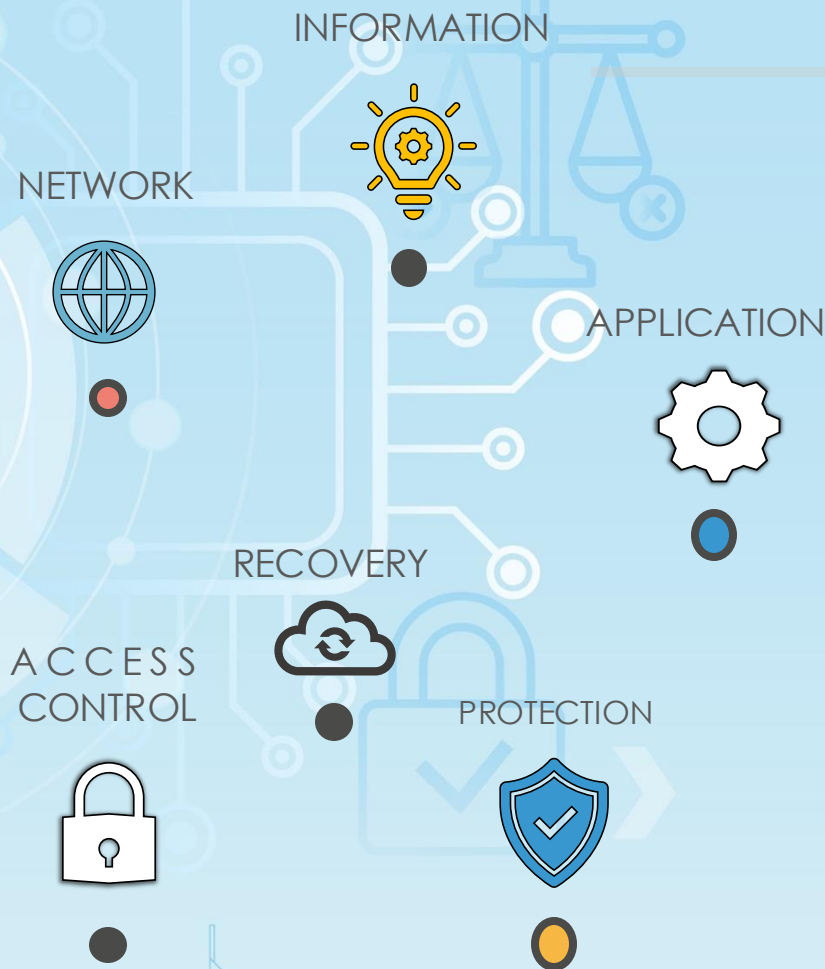
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Introduction

Today, the world is facing great challenges in the field of cybersecurity, so introducing cybersecurity concepts into school curricula and enhancing awareness of their importance to protect systems and data from electronic threats, urging new generations to work in the field of cybersecurity, and developing secure electronic solutions to meet current and future challenges.





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Strengths, Weaknesses, Opportunities & Threats

Analysis for Incorporating Cybersecurity in Secondary Education to empower students to counter digital threats.

Today, the world is facing great challenges in the field of cybersecurity, so introducing cybersecurity concepts into school curricula and enhancing awareness of their importance to protect systems and data from electronic threats, urging new generations to work in the field of cybersecurity, and developing secure electronic solutions to meet current and future challenges.

SWOT



Strengths

- **Growing Awareness:** Increasing public and governmental recognition of the importance of cybersecurity.
- **Technological Integration:** Schools are becoming more reliant on technology, making cybersecurity education essential.
- **Young and Adaptable Students:** Students are generally more tech-savvy and can adapt to new concepts quickly.

Strengths

Growing Awareness



Public Recognition

Governmental Recognition

Cybersecurity Education in Schools



Technological Integration

Increased Technology Use

Essential Education



Young and Adaptable Students

Tech-Savvy

Quick Adaptation

Weaknesses

Lack of Specialized Teachers



Qualified Educators
Expertise Shortage


Cybersecurity
Education
Weaknesses



Limited Resources

Funding Issues
Training Materials



Curriculum Gaps

Existing Curricula
Integration Challenges

Overcome weaknesses in MOE

Curriculum Gaps

- IN 10th Grad New curriculum introduction to CS.
 - Cyber Security
 - The main interlocutor of cybersecurity CIA
 - Cybersecurity Cybersecurity concepts
 - Marsat Cyber Security
 - Cyber Security Jobs

GRAD 10



OPPORTUNITIES



OPPORTUNITIES

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2024

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MINISTRY OF EDUCATION

KUWAIT
CYBERCHAMPS®
2024-2025

**أبطال الكويت
للأمن السيبراني**

هاكاثون الطلاب الأول
من نوعه في الكويت

استمارة التسجيل



المركز الوطني للأمن السيبراني
National Cyber Security Center

وزارة التربية
MINISTRY OF EDUCATION

طريقة المشاركة

الخطوة الأولى
املا استمارة التسجيل



الخطوة الثانية
استعد للاختبار (أونلاين)

الخطوة الثالثة
تميز في المقابلة الشخصية وكن
حاضر للمخيم التدريبي الرائع

الخطوة الرابعة
انضم لفريقك وشارك بالتحدي!

THREATS



OUR Strengths in MOE

- Awareness campaign "Be Aware" in cybersecurity.
- Target Segment.
 - Students of educational stages.
 - From fourth to twelfth grade.
 - Nearly 450,000 students in all schools of the Ministry of Education.
- The executing party of the campaign:
 - The number of mentors supervising the campaign in all educational zones is 120 mentors and mentors.
 - 3476 computer teachers and head of the computer department.



ADDRESSING WEAKNESSES



Addressing Weaknesses:

How to fund cybersecurity education?

Budgetary Prioritization

Allocate sufficient funds for cybersecurity education.



Grant Applications

Explore grant opportunities from government agencies, foundations, or technology companies.

Community Partnerships

Partner with local businesses and organizations to obtain resources and support.



Addressing Weaknesses:

How to integrate cybersecurity education into the curriculum?

Cross-Curricular Themes

Incorporate cybersecurity concepts into various subjects.



Real-World Applications

Use real-world examples and case studies.

Student-Centered Learning

Encourage simulations, role-playing, and problem-based learning.



Addressing Threats:



Addressing Threats:

Bridging the Digital Divide:

1. **Technology Access:** Ensure that all students have access to technology and the internet.
2. **Digital Literacy Programs:** Offer digital literacy programs to help students develop essential skills.
3. **Community Initiatives:** Partner with community organizations to provide technology resources and training.

Addressing Threats:



Addressing Threats:

Ethical Frameworks

Incorporate Ethical Guidelines
Teach Ethical Principles


Privacy and
Ethical
Considerations
in
Cybersecurity
Education

Data Privacy Training

Educate on Data Privacy Laws
Best Practices Training

Consent and Informed Choice

Importance of Informed Consent
Responsible Use of Technology

How to equip students with cybersecurity knowledge and skills?

Implement Cybersecurity Curriculum

Introduce dedicated courses on cybersecurity.



Conduct Workshops and Seminars

Organize events with industry experts.

Collaborate with Cybersecurity Firms

Partner for resources and expertise.



Encourage Online Learning

Provide access to online cybersecurity courses.