

IT Security Policies Checklist for Educational Institutions

1. Access control policy

Identify distinct roles and specify their respective access needs.	
Students: Access To Educational Resources, Assignments, And Personal Academic Records.	
Teachers/Faculty: Access To Student Records, Course Materials, And Administrative Functions.	
Administrative Staff: Access To Administrative Records, Financial Systems, And Student Information.	
IT Staff: Access To The Entire IT Infrastructure, Including Network Configurations & Security Systems.	
Library Staff: Access To Library Management Systems And Student Borrowing Records.	
Researchers: Access To Research Databases And Collaboration Tools.	
External Contractors/Vendors: Limited Access To Perform Specific Tasks Or Services.	

Assign permissions based on roles rather than individuals. Avoid granting blanket permissions.
Students: View Grades, Submit Assignments, Access Course Materials.
Teachers/Faculty: Edit Grades, Manage Course Content, Communicate With Students.
Administrative Staff: Update Student Records, Manage Financial Transactions, Generate Reports.
IT Staff: Configure Network Settings, Manage User Accounts, Monitor Security Alerts.
Library Staff: Manage Book Inventories, Issue And Return Books, Access Student Borrowing History.
Researchers: Access And Download Research Papers. Submit Research Proposals.

Map users to appropriate roles based on their responsibilities and job functions. Ensure you follow the principle of least privilege (PoLP)	
Create role hierarchies to define relationships between different roles. Higher-level roles inherit permissions from lower-level roles.	
Implement procedures for requesting and granting temporary access beyond regular privileges, with strict approval processes.	
Develop and enforce policies for role assignment, role modification, and role revocation.	
Regularly review and update user roles and access permissions, especially at the beginning and end of academic terms.	
Regularly review and update access rights and permissions.	
Detail the procedures for creating, issuing, and managing user accounts.	
Implement Multi-Factor Authentication (MFA) for staff, faculty, and students	
Define authentication methods like OTPs, biometrics or hardware tokens, for administrative access.	
Enforce single sign-on (SSO) where appropriate.	
Address the procedure for handling transfers and departures, ensuring that access rights are adjusted or revoked as necessary.	
Define password complexity requirements (length, character types).	
Set password expiration and rotation policies (e.g., every 90 days).	
Enforce account lockout after a specified number of failed login attempts	



2. Data protection policy

Classify data into categories such as public, internal, confidential, and restricted, considering student records, financial information, and research data.	
Label data according to its classification	
Specify how each category should be handled, stored, and transmitted securely	
Apply appropriate protection measures, ensuring compliance with FERPA and other regulations.	
Encrypt sensitive data at rest using robust encryption algorithms or BitLocker or FileVault, particularly for student records and research data.	
Enforce full-disk encryption on all devices.	
Ensure data in transit is encrypted using SSL/TLS, especially for online courses and remote communications.	
Regularly back up critical data to off-site or cloud locations.	
Ensure informed consent is obtained before collecting personal data.	
Provide clear information about what data is collected and for what purposes.	
Restrict data access to authorized personnel only.	
Define strict guidelines and legal frameworks for sharing data with third parties.	
Where possible, anonymize data to protect individual privacy.	
Establish and adhere to a data retention schedule that complies with legal and regulatory requirements.	



Securely delete or destroy data that is no longer needed, using methods such as shredding or degaussing for physical media and secure erase for digital data.	
Avoid storing data longer than necessary and ensure it remains up to date.	
Define backup frequency and retention periods for critical data.	
Store backups in off-site or cloud locations.	
Regularly test data restoration procedures.	
3. Endpoint security policy	
Maintain a detailed inventory of all endpoint devices including hardware and software components.	
Assign ownership and specific responsibilities for managing these assets.	
Automate provisioning and de-provisioning of accounts.	
Limit the number of privileged accounts.	
Have a procedure to immediately deactivate accounts for departed employees and graduated students.	
Establish minimum security baselines for devices	
 OS versions Antivirus software Firewall configuration Encryption status Backup and recovery Grade/department specific application versions 	



Use a centrally managed UEM solution for consistency and control	
Allow only approved applications to be installed and run on devices.	
Standardize settings across all user browsers to minimize vulnerabilities.	
Regulate the use of browser extensions to prevent potential breaches.	
Implement measures to detect and block phishing attempts.	
Monitor and control the opening of email attachments and links to prevent malware.	
Restrict types or size of files that can be uploaded or downloaded through email.	
Require the use of antivirus software and schedule regular scans.	
Mandate the use of Virtual Private Networks (VPNs) for accessing internal resources from external networks.	
Secure wireless connections with strong encryption protocols like WPA3.	
Develop a routine to prioritize and patch operating systems, software, firmware, third-party applications, and in-house applications.	
Test patches in a staging environment before deployment to avoid disrupting educational activities.	
Schedule regular scans for malware and vulnerabilities.	
Engage a next-gen malware protection software to identify and defend against threats and zero days	
Ensure devices comply with security baselines before network access is granted.	
Regularly back up data and test restoration processes.	



Keep detailed logs of system and user activities to support post-incident investigations.	
Control the use of USB and other peripheral devices on institution-owned machines	
Implement physical access controls such as key cards, biometric scanners, and security guards for sensitive areas, including server rooms, data centers, and labs.	
Restrict and monitor the use of RDP to authorized users only, such as IT staff and faculty needing remote access to on-campus resources.	
Use a UEM solution to enforce security policies on remote devices used by staff and students for online learning.	
Install and maintain surveillance cameras to monitor physical access to sensitive areas.	
Regularly review surveillance footage for suspicious activity, particularly during off-hours and holidays.	
4. Bring Your Own Device (BYOD) policy	
Require all personal devices accessing institutional resources to be registered with the IT department.	
Mandate that personal devices comply with institutional security policies.	
Control the use of USB and other peripheral devices on institution-owned machines	
Maintain an up-to-date inventory of registered devices.	
Implement device encryption to protect institutional data on personal devices.	
Use network segmentation to isolate personal devices from critical systems that require high levels of security, such as accessing financial systems or sensitive research data.	



Establish clear guidelines for acceptable use of personal devices, including restrictions on accessing and storing sensitive data.	
Establish a process for reporting security incidents involving personal devices, including lost or stolen devices.	
Perform remote complete or corporate wipe to protect institutional data on personal devices	
5. Email and communication policy	
Outline acceptable and unacceptable uses of institutional email and communication channels.	
State the institution's right to monitor email and communications for compliance and security purposes.	
Implement email filtering solutions to detect and block spam, phishing, and malicious attachments.	
Regularly update email filtering rules and definitions to protect against new threats.	
Specify guidelines for handling sensitive information and attachments.	
Use encrypted communication channels (e.g., secure email, encrypted messaging apps) for transmitting sensitive information, especially for academic and administrative communications.	
Establish clear guidelines for acceptable use of email and communication tools, including proper handling of sensitive information.	
Prohibit the sharing of sensitive information through unsecured channels and emphasize the importance of using institutional communication tools.	
Provide guidelines for appropriate communication etiquette and professionalism.	



6. User education and training policy

Provide mandatory security awareness training for all staff, faculty, and students.	
Cover topics such as phishing, social engineering, password security, and data protection, emphasizing scenarios relevant to the educational context.	
Conduct periodic phishing simulations to educate users on identifying and avoiding phishing attempts.	
Provide feedback and additional training to users who fall for phishing tests, with a focus on common education-related phishing tactics.	
Require users to acknowledge understanding and compliance with security policies.	
Keep records of acknowledgments for audit purposes, ensuring all members of the institution are aware of their responsibilities.	
7. Third-party vendor management policy:	
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8. Incident response policy:

Identify key roles and responsibilities for incident response (e.g., incident response team members, IT staff, administrators).	
Define decision-making authority during incident response.	
Establish a classification scheme for incident types (e.g., phishing, malware, data breach).	
Establish a dedicated Incident Response Team (IRT) from IT, legal, communications, and other relevant departments, with clear roles and responsibilities.	
If needed, identify external resources or services (e.g., cybersecurity firms, law enforcement) that may assist during incident response.	
Form an incident response team with representatives	
Outline procedures for reporting incidents promptly (including who to report to and how).	
Describe initial steps to be taken upon discovering or receiving a report of an incident (e.g., containment, preservation of evidence).	
Provide guidance on assessing the scope and impact of the incident.	
Maintain a chain of custody for digital evidence.	
Specify actions to mitigate the effects of the incident and prevent further damage.	
Include procedures for containment, eradication and communication.	
Outline procedures for restoring affected systems and services to normal operation.	
Require documentation of all incident response activities, including timelines, actions taken, and outcomes.	
Establish procedures for post-incident analysis and reporting to identify lessons learned and areas for improvement.	



Establish a schedule for testing the Incident Response Plan through simulations (e.g., tabletop exercises, penetration testing).	
Conduct regular training and simulation exercises.	
9. Change management policy:	
Create a framework for all changes to IT systems, including hardware, software, applications, network configurations, and data management processes within the institution.	
Define procedures for requesting, evaluating, approving, and implementing changes.	
Identify key performance indicators (KPIs) to measure the success of change initiatives.	
Implement a standardized change request form to capture essential details such as the description, rationale, and expected impact of the change.	
Use a centralized system to log and track all change requests, ensuring transparency and accountability.	
Assign a unique identifier to each change request for easy reference and tracking.	
Maintain a change log for auditing purposes.	
Establish a Change Advisory Board (CAB) comprising representatives from IT, academic departments, administration, and other relevant stakeholders.	
Define the CAB's roles and responsibilities, including evaluating and approving change requests based on their impact and risk.	

Define clear criteria for approving or rejecting change requests, including the need for CAB

approval for significant changes.



Establish a hierarchy of approval levels based on the nature and scope of the change.	
Develop a detailed implementation plan for approved changes, including timelines, resource allocation, budget, and roles and responsibilities.	
Ensure the plan includes steps for communication, training, and user support as needed.	
Conduct thorough testing of the functionality, security, and performance of the change.	
Develop a detailed deployment plan outlining the steps for rolling out the change, including fallback procedures in case of issues.	
Monitor the change implementation closely to identify and address any issues promptly.	
Conduct regular reviews of the change management policy and process to ensure they remain aligned with institutional goals.	