



Kot Bhalwal, Jammu



Model Institute of Engineering
& Technology (Autonomous)
Course Handout

COURSE HANDOUT

Cyber Security (BBAMI-505 (D))

BBA-5th SEMESTER

ACADEMIC YEAR (2024-25)

Ms. Jagriti Sharma

Assistant Professor

Computer science & Engineering



UG School of Management

Model Institute of Engineering & Technology (Autonomous)

Kot Bhalwal, Jammu - 181122

www.mietjmu.in



Dr. Arun K. Gupta Teaching-Learning Centre

Version 1.1



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Course Code	Course Name	Course Type	Cd	L	T	P	Marks		
							Sessional	Final Exam	Total
BBAMI-505(D)	Cyber Security	Minor	4	0	0	4	40	60	100

COURSE OUTCOMES

At the end of the course the student will be able to:	
CO1	Define the principles of cybersecurity and their importance in cloud security.
CO2	Articulate cloud risk management frameworks and their applications.
CO3	Examine principles of identity management in cloud security.
CO4	Analyse techniques for detecting cloud cybersecurity threats.
CO5	Evaluate methods for mitigating cloud security attacks.

The Departmental committee shall select a MOOC available on any reputed platform. However, the selected MOOC course should not be similar to the regular courses offered as a part of the department curriculum. The overall monitoring of the MOOC course will be under the supervision of the teacher In-charge of the department. The Departmental Academic Committee shall assess the student work based relevant course completion certificate and Viva-Voce.

UNIT-I

Introduction to Security Principles in Cloud Computing: Essentials of cybersecurity, security lifecycle, digital transformation, and key cloud computing concepts. **(10 hours)**

UNIT-II

Strategies for Cloud Security Risk Management: widely used cloud risk management frameworks, exploring security domains, compliance lifecycles, and industry standards such as HIPAA, NIST CSF, and SOC **(10 hours)**

UNIT-III

Cloud Security Risks: Identify and Protect Against Threats: principles of identity management and access control within a cloud environment, covering key elements like AAA (Authentication, Authorization, and Auditing), Threat and vulnerability management, Cloud native principles **(10hours)**

UNIT-IV

Detect, Respond, and Recover from Cloud Cybersecurity Attacks: Detection Foundations, developing capabilities in logging, security, and alert monitoring, techniques for mitigating attacks. **(09hours)**

UNIT-V

Prepare for a Cloud Security Analyst: combine and apply key concepts such as cloud security principles, risk management, identifying vulnerabilities, incident management, and crisis communications. **(09hours)**



COURSE PLAN		
Unit-I Introduction to Security Principles in Cloud Computing		
S.No	Topics	Recommended Books
1	Essentials of cybersecurity	https://www.cloudskillsboost.google/paths/419/course_templates/966/video/469588
2	Security lifecycle	https://www.cloudskillsboost.google/paths/419/course_templates/966/video/469659
3	Digital transformation	https://www.cloudskillsboost.google/paths/419/course_templates/966/video/469659
4	Key cloud computing concepts	https://www.cloudskillsboost.google/paths/419/course_templates/966/video/469659
Unit-II Strategies for Cloud Security Risk Management		
5	Cloud risk management frameworks	https://www.coursera.org/lecture/compensation-management/hr-for-people-managers-specialization-re-cap-IpiuQ
6	Security domains	https://www.coursera.org/lecture/compensation-management/2-1-1-tying-pay-to-performance-evaluations-BCg4R
7	Compliance lifecycles	https://www.cloudskillsboost.google/paths/419/course_templates/967/video/470223
8	Industry standards	https://www.cloudskillsboost.google/paths/419/course_templates/967/video/470251
Unit-III Cloud Security Risks		
9	Principles of identity management and access control	https://www.cloudskillsboost.google/paths/419/course_templates/968/video/483882
10	Covering key elements	https://www.cloudskillsboost.google/paths/419/course_templates/968/video/483888
11	Threat and vulnerability management	https://www.cloudskillsboost.google/paths/419/course_templates/968/video/483910
12	Cloud native principles	https://www.cloudskillsboost.google/paths/419/course_templates/968/video/483938
Unit-IV Recover from Cloud Cybersecurity Attacks		
13	Detection Foundations	https://www.cloudskillsboost.google/paths/419/course_templates/969/video/490394



14	Developing capabilities in logging, security, and alert monitoring	https://www.cloudskillsboost.google/paths/419/course_templates/969/video/490449
15	Incident response management and attack mitigation	https://www.cloudskillsboost.google/paths/419/course_templates/969/video/490478
16	Techniques for mitigating attacks	https://www.cloudskillsboost.google/paths/419/course_templates/969/video/490480
Unit-V Prepare for a Cloud Security Analyst		
17	Apply key concepts such as cloud security principles	https://www.cloudskillsboost.google/paths/419/course_templates/970/video/503478
18	Risk management	https://www.cloudskillsboost.google/paths/419/course_templates/970/video/503478
19	Identifying vulnerabilities, incident management, and crisis communications	https://www.cloudskillsboost.google/paths/419/course_templates/970/video/503503

ADDITIONAL WEB RESOURCES

1.	MOOC: Cyber Security https://www.cloudskillsboost.google/paths/419
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GRADING AND ASSESSMENT

- **Sessional: 40 marks**
 - MCQ Test on Examly: 20marks
 - Viva: 20 marks
- **Final Examination: 60 marks**
 - Completion of Learning Paths-This will include completion of learning hours+ learner effort based on the gradebook: 10 marks
 - MCQ Test on Examly: 40 marks
 - Viva: 5 marks
 - PPT Presentation: 5 marks

COURSE POLICIES

- **Attendance:** Minimum 75% attendance is mandatory to appear in the final examination of the course.
- **Academic Integrity:** MIET's academic integrity policies apply. Plagiarism will not be tolerated.
- **Late Submissions:** Assignments and projects must be submitted by the specified timelines.

FACULTY INFORMATION

- **Office Hours**
Monday (12:05 PM - 12:55 PM)
Friday (12:05 PM - 12:55 PM)
- **Contact Information**
jagriti.cse@mietjammu.in





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