

# Research Methods and Professional Practice

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DESIGN & IMPLEMENT CLOUD SECURITY (IAM/DATA SECURITY)  
FRAMEWORK AND DEVELOP AND CLOUD INCIDENT RESPONSE-  
RESEARCH PROPOSAL (UNIT-10)

# AGENDA

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- Project Requirements
- Significance/Contribution to the discipline/Research Problem
- Research Questions
- Aims and Objectives
- Key literature related to the project
- Methodology/Development strategy/Research Design
- Ethical considerations and risk assessment (as part of your ethical approval application)
- Description of artefact(s) that will be created (if applicable)
- Timeline of proposed activities

# PROJECT REQUIREMENTS

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- British Computer Society (BCS) criteria
  - Establish practical work using computing/IT technology
  - Define the research problem and establish its objectives
  - Final Report covering results, lessons learned etc.
- CyBOK Knowledge Area
- Required for MS-Cybersecurity

# DELIVERABLES MAPPING

REQUIREMENT	ARTEFACT
Problem understanding & existing research	Literature Review Research Development
Demo in knowledge application	Cloud Security Assessment for the research questions ( IAM, Data Security, Incident Response)
Establish a technical skill through demonstration	
CyBok Knowledge Areas	Network Security Access Control Cryptography Security Operations and Incident Response

# RESEARCH QUESTIONS

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- How can organizations assess & implement identity and access management controls in cloud environments to prevent unauthorized access and privilege escalation?
- What are the best practices for data encryption in various cloud service categories (IaaS, PaaS, SaaS) implementation, and how can the efficacy of encryption measures be evaluated?
- How can the network security of cloud be evaluated, improved and implemented?
- How can organizations ensure a quick and coordinated response to security incidents? What are the key elements of an effective incident response plan tailored to cloud environments?

# AIMS & OBJECTIVES

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# ETHICAL CONSIDERATIONS

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# RISK MANAGEMENT

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Issues

Mitigation



# PROJECT TIMELINES

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- Timeline of the project <>

# References

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- << Relevant References >>

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THANK YOU

