



AITM College

UHI University of the
Highlands and Islands

BSc (Hons) COMPUTING

UK Degree with
Global Tech Opportunities

Build **The**
Future With Computing

AITM College



OVERVIEW

The BSc (Hons) Computing program at AITM College is a four-year internationally recognized degree designed to prepare students for careers in the modern IT industry.

The program combines strong theoretical foundations with practical learning in software development, web technologies, databases, networking, cyber security, artificial intelligence, and data science. Students can specialize in pathways such as Software Systems Architecture, Cyber Security & Networking, Data Science & AI, or Indie Games Development, while gaining industry-focused experience through projects and work placements.

Graduates are equipped with the technical, analytical, and professional skills required for global career opportunities or further studies at leading universities worldwide.

ENTRY REQUIREMENT

01



Academic qualification

Successful completion of NEB Grade 12 or equivalent

02



Minimum grades

NEB: 55% aggregate or CGPA 2.2 (no subject below Grade D)
CBSE: 60% overall or equivalent

03



English Language Proficiency

NEB Plus Two English: min 60%
IELTS: 6.0 overall (no band below 5.5) Or equivalent UKVI-recognized SELT (TOEFL/PTE)

COURSE STRUCTURE

YEAR 01

SEMESTER 01

Module Title	Credits
Relational Databases 1	20
Software Development 1	20
Troubleshooting Methodologies	10
Computer Systems Essentials	10

SEMESTER 02

Module Title	Credits
Web Development 1	20
Innovation & Change	20
Networking Fundamentals	10
Human Computer Interfaces 1	10

TOTAL CREDITS: 120

Specialization Pathways are available from Year 2

SPECIALIZATION PATHWAYS

01

Software System Architecture

02

Cyber Security & Networking

03

Data Science & AI

04

Indie Game Development

YEAR 02

Pathway 1: Software Systems Architecture

SEMESTER 03

Module Title	Credits
Database Systems	20
Object Oriented Programming	20
Secure Web Applications	20

SEMESTER CONTINUOUS (runs over S3 and S4)

Enterprise Practice Project	20
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TOTAL CREDITS: 120

SEMESTER 04

Module Title	Credits
UX/UI	20
Data Structures & Algorithms	20

Pathway 2: Cyber Security & Networking

SEMESTER 03

Module Title	Credits
Database Systems	20
Object Oriented Programming	20
Secure Web Applications	20

SEMESTER CONTINUOUS (runs over S3 and S4)

Enterprise Practice Project	20
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TOTAL CREDITS: 120

SEMESTER 04

Module Title	Credits
Networking & Infrastructure	20
Cyber Security Introduction	20

Pathway 3: Data Science & AI

SEMESTER 03

Module Title	Credits
Database Systems	20
Object Oriented Programming	20
Secure Web Applications	20

SEMESTER CONTINUOUS (runs over S3 and S4)

Enterprise Practice Project	20
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TOTAL CREDITS: 120

SEMESTER 04

Module Title	Credits
Data Analytics	20
Artificial Intelligence	20

Pathways 4: Indie Games Development

SEMESTER 03

Module Title	Credits
Database Systems	20
Object Oriented Programming	20
Secure Web Applications	20

SEMESTER CONTINUOUS (runs over S3 and S4)

Enterprise Practice Project	20
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TOTAL CREDITS: 120

SEMESTER 04

Module Title	Credits
Indie Game Design & Development	20
Indie Game Programming	20

YEAR 03

Pathway 1: Software Systems Architecture

SEMESTER 05

Module Title	Credits
Designing & Developing Web Based Applications	20
Advanced Databases	20
Software Construction	20

SEMESTER CONTINUOUS (runs over S5 and S6)

Computing Team Project or Work Placement: Industry Specific Skills	20
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TOTAL CREDITS: 120

SEMESTER 06

Module Title	Credits
Artificial Intelligence	20
Mobile Applications Development	20

Pathway 2: Cyber Security & Networking

SEMESTER 05

Module Title	Credits
Designing & Developing Web Based Applications	20
Cyber Security	20
Server Technologies	20

SEMESTER CONTINUOUS (runs over S5 and S6)

Computing Team Project or Work Placement: Industry Specific Skills	20
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TOTAL CREDITS: 120

SEMESTER 06

Module Title	Credits
Network & Information Security	20
Artificial Intelligence	20

Pathway 3: Data Science & AI

SEMESTER 05

Module Title	Credits
Designing & Developing Web Based Applications	20
Advanced Databases	20
Statistics for Data Science	20

SEMESTER CONTINUOUS (runs over S5 and S6)

Computing Team Project or Work Placement: Industry Specific Skills	20
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TOTAL CREDITS: 120

SEMESTER 06

Module Title	Credits
Artificial Intelligence	20
Big Data & Business Intelligence	20

Pathways 4: Indie Games Development

SEMESTER 05

Module Title	Credits
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Branching Narrative 20

3D Animation Techniques 20

SEMESTER CONTINUOUS (runs over S5 and S6)

Computing Team Project or

Work Placement: Industry 20

Specific Skills

TOTAL CREDITS: 120

SEMESTER 06

Module Title	Credits
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Artificial Intelligence 20

Mobile Applications Development 20

Indie Game Marketing & Business 20

YEAR 04

Pathway 1: Software Systems Architecture

SEMESTER 07

Module Title	Credits
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The Science of Computing 20

Web Programming 20

SEMESTER CONTINUOUS (runs over S7 and S8)

Dissertation 60

TOTAL CREDITS: 120

SEMESTER 08

Module Title	Credits
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Advanced Software Construction 20

Pathway 2: Cyber Security & Networking

SEMESTER 07

Module Title	Credits
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The Science of Computing 20

Cloud Computing 20

SEMESTER CONTINUOUS (runs over S7 and S8)

Dissertation 60

TOTAL CREDITS: 120

SEMESTER 08

Module Title	Credits
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Cyber Operations 20

Pathway 3: Data Science & AI

SEMESTER 07

Module Title	Credits
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The Science of Computing 20

Intelligence & Data Mining 20

SEMESTER CONTINUOUS (runs over S7 and S8)

Dissertation 60

TOTAL CREDITS: 120

SEMESTER 08

Module Title	Credits
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Data Analytics 20

Pathways 4: Indie Games Development

SEMESTER 07

Module Title	Credits
The Science of Computing	20
Web Programming	20
SEMESTER CONTINUOUS (runs over S7 and S8)	
Dissertation	60

SEMESTER 08

Module Title	Credits
Technologies in HCI	20

TOTAL CREDITS: 120

TOTAL CREDITS IN 4 YEARS: 480

WHY CHOOSE AITM?

- UK Degree Affiliated
- Project Based Learning
- Modern Computer Labs
- Industry Focused Curriculum
- International Standards
- Career Development Assistance

CAREER OPPORTUNITIES

AI Engineer

Data Analyst

Cloud Engineer

Web Developer

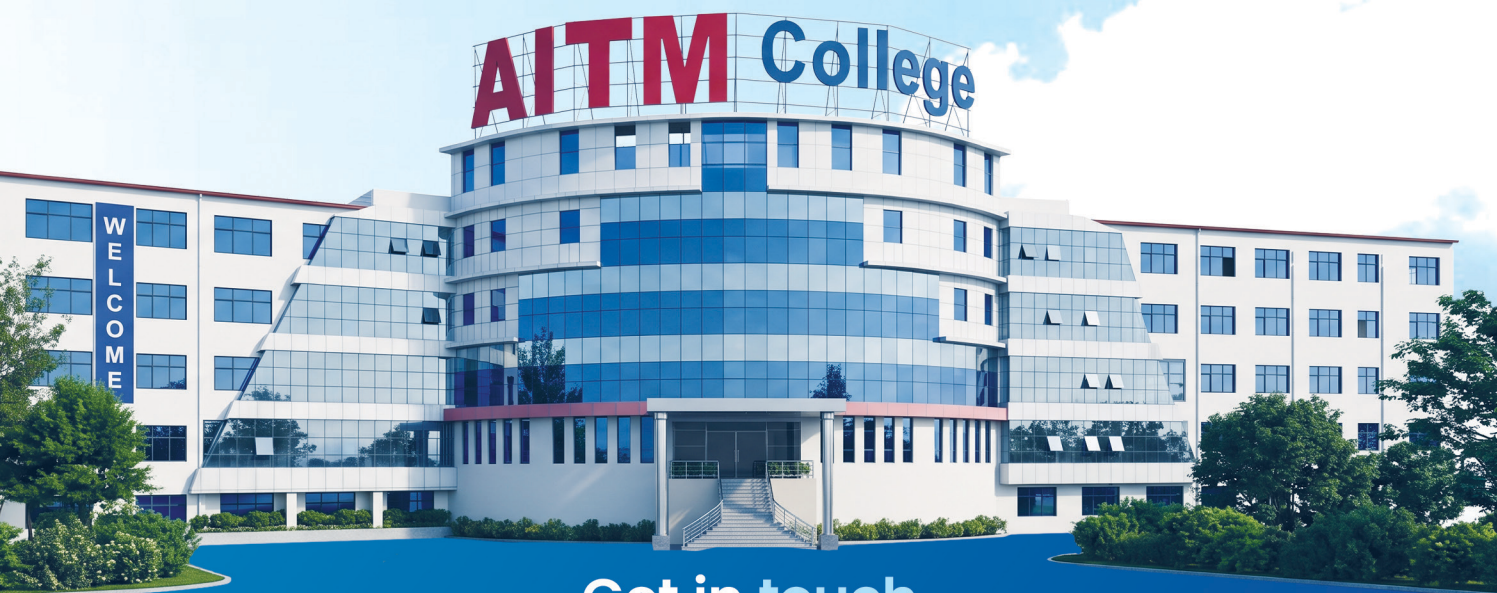
Game Developer

Software Engineer

Mobile App Developer

Cyber Security Analyst

“Where Innovation Meets Opportunity”



Get in touch



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9849449503 | 9818414682



Satdobato, Khumaltar
Height