

**SCHOOL OF
INFORMATION &
COMMUNICATION
TECHNOLOGY**



LIBRARY INFORMATICS & COMPUTING

This programme is composed of the following modular components.

| MODULAR COMPONENTS | CREDIT VALUES |
|------------------------|---------------|
| Core Modules | 34 |
| Essential Modules | 28 |
| Specialisation Modules | 28 |
| TOTAL | 90 |

These are the modules that are considered fundamental modules for Library Informatics and Computing programme and therefore students are required to pass them. These modules are distributed throughout the duration of the programme as shown below.

| SEMESTER | MODULE CODE | ESSENTIAL MODULES | CREDIT VALUE |
|----------|-------------|------------------------------------|--------------|
| 1 | IS1201 | Computer Systems Architecture | 3 |
| 2 | DM2201 | Multimedia and Creative Technology | 3 |
| | IS1202 | Information Systems Essentials | 3 |
| | NS2201 | Network Fundamentals | 3 |
| | WD2201 | Basic Web Programming | 3 |
| | LC2201 | Introduction to Informatics | 3 |
| 3 | IS3203 | Systems Analysis and Design | 4 |
| 4 | IS4209 | Database Design and Implementation | 4 |
| 5 | IS5211 | Project Management | 2 |

These specialisation modules are available for Library Informatics and Computing programme. These modules will allow students to pursue in greater depth their chosen discipline. Students taking this programme are expected to undertake ALL the specialization modules in Semester 3 and Semester 4 as specified below.

| SEMESTER | MODULE CODE | SPECIALISATION MODULES | CREDIT VALUE |
|----------|-------------|---------------------------------------|--------------|
| 3 | LC3302 | Collection Development and Management | 4 |
| | LC3303 | Digital Libraries | 4 |
| | LC3304 | Information Retrieval and Storage | 4 |
| | LC3305 | Customer Relations and Services | 4 |
| 4 | LC4306 | Library Administration and Management | 4 |
| | LC4307 | Library Marketing | 4 |
| | LC4308 | Archives and Heritage Preservation | 4 |

| Session | Module Code | Module Title | Module Type | Credit Value | | |
|--|------------------------------|--------------------|---|---------------------------------------|-------------|----|
| Year 1 | Semester 1 | GS1101 | Pengajian Melayu Islam Beraja | Core | 2 | |
| | | GS1102 | Pendidikan Islam | Core | 2 | |
| | | GS1123 | Mathematics for Library Informatics & Computing | Core | 3 | |
| | | GS1112 | Communication Skills for Computing | Core | 3 | |
| | | HS1101 | Health, Safety, Security and Environment | Core | 3 | |
| | | IS1201 | Computer Systems Architecture | Essential | 3 | |
| | Total Credit Value | | | | 16 | |
| | Semester 2 | BE1101 | Entrepreneurship | Core | 3 | |
| | | IS1202 | Information Systems Essentials | Essential | 3 | |
| | | DM2201 | Multimedia and Creative Technology | Essential | 3 | |
| | | NS2201 | Network Fundamentals | Essential | 3 | |
| | | WD2201 | Basic Web Programming | Essential | 3 | |
| | | LC2201 | Introduction to Informatics | Essential | 3 | |
| | Essential Total Credit Value | | | | 18 | |
| | Year 2 | Semester 3 | IS3203 | Systems Analysis and Design | Essential | 4 |
| | | | LC3302 | Collection Development and Management | Specialised | 4 |
| | | | LC3303 | Digital Libraries | Specialised | 4 |
| | | | LC3304 | Information Retrieval and Storage | Specialised | 4 |
| LC3305 | | | Customer Relations and Services | Specialised | 4 | |
| Total Credit Value | | | | 20 | | |
| Semester 4 | | IS4209 | Database Design and Implementation | Essential | 4 | |
| | | LC4306 | Library Administration and Management | Specialised | 4 | |
| | | LC4307 | Library Marketing | Specialised | 4 | |
| | | LC4308 | Archives and Heritage Preservation | Specialised | 4 | |
| Total Credit Value | | | | 16 | | |
| Year 3 | Semester 5 | IS5211 | Project Management | Essential | 2 | |
| | | IT5101 | Final Year Project | Core | 8 | |
| | | Total Credit Value | | | | 10 |
| | Semester 6 | IN4101 | Internship | Core | 8 | |
| | | EM1188 | Enrichment | Core | 2 | |
| Total Credit Value | | | | 10 | | |
| Total Credit Value for the Whole Programme | | | | 90 | | |

*Final Year Project (FYP) activities and assessments commences in Semester 4 and continues in Semester 5 where the final grade will be awarded.

**Enrichment module commences throughout three (3) years Diploma programme

DIGITAL MEDIA

This programme is composed of the following modular components.

| MODULAR COMPONENTS | CREDIT VALUES |
|------------------------|---------------|
| Core Modules | 34 |
| Essential Modules | 24 |
| Specialisation Modules | 32 |
| TOTAL | 90 |

These are the modules that are considered fundamental modules for Digital Media programme and therefore students are required to pass them. These modules are distributed throughout the duration of the programme as shown below.

| SEMESTER | MODULE CODE | ESSENTIAL MODULES | CREDIT VALUE |
|----------|-------------|------------------------------------|--------------|
| 1 | IS1201 | Computer Systems Architecture | 3 |
| 2 | DM2201 | Multimedia and Creative Technology | 3 |
| | IS1202 | Information Systems Essentials | 3 |
| | NS2201 | Network Fundamentals | 3 |
| | WD2201 | Basic Web Programming | 3 |
| | LC2201 | Introduction to Informatics | 3 |
| 3 | WD3203 | Web Design | 4 |
| 5 | IS5211 | Project Management | 2 |

These specialization modules are available for Digital Media programme. These modules will allow students to pursue in greater depth their chosen discipline. Students taking this programme are expected to undertake ALL the specialisation modules in Semester 3 and Semester 4 as specified below.

| SEMESTER | MODULE CODE | SPECIALISATION MODULES | CREDIT VALUE |
|----------|-------------|----------------------------------|--------------|
| 3 | DM3302 | Pre-visualization | 2 |
| | DM3303 | Digital Design and Media Studies | 4 |
| | DM3304 | Digital Photography | 3 |
| | DM3305 | Conventions of Animation | 3 |
| | DM3306 | 3D Animation I | 4 |
| 4 | DM4307 | 3D Animation II | 4 |
| | DM4308 | Interactive Multimedia | 4 |
| | DM4309 | Video Production | 4 |
| | DM4310 | Portfolio and Showreel | 4 |

| Session | Module Code | Module Title | Module Type | Credit Value | |
|--|--------------------|------------------------|--|--------------|----|
| Year 1 | Semester 1 | GS1101 | Pengajian Melayu Islam Beraja | Core | 2 |
| | | GS1102 | Pendidikan Islam | Core | 2 |
| | | GS1122 | Mathematics for Computing | Core | 3 |
| | | GS1112 | Communication Skills for Computing | Core | 3 |
| | | HS1101 | Health, Safety, Security and Environment | Core | 3 |
| | | IS1201 | Computer Systems Architecture | Essential | 3 |
| | Total Credit Value | | | | 16 |
| | Semester 2 | BE1101 | Entrepreneurship | Core | 3 |
| | | IS1202 | Information Systems Essentials | Essential | 3 |
| | | DM2201 | Multimedia and Creative Technology | Essential | 3 |
| | | NS2201 | Network Fundamentals | Essential | 3 |
| | | WD2201 | Basic Web Programming | Essential | 3 |
| | | LC2201 | Introduction to Informatics | Essential | 3 |
| | Total Credit Value | | | | 18 |
| Year 2 | Semester 3 | WD3203 | Web Design | Essential | 4 |
| | | DM3302 | Pre-visualization | Specialised | 2 |
| | | DM3303 | Digital Design and Media Studies | Specialised | 4 |
| | | DM3304 | Digital Photography | Specialised | 3 |
| | | DM3305 | Conventions of Animation | Specialised | 3 |
| | | DM3306 | 3D Animation I | Specialised | 4 |
| | Total Credit Value | | | | 20 |
| | Semester 4 | DM4307 | 3D Animation II | Specialised | 4 |
| | | DM4308 | Interactive Multimedia | Specialised | 4 |
| | | DM4309 | Video Production | Specialised | 4 |
| DM4310 | | Portfolio and Showreel | Specialised | 4 | |
| Total Credit Value | | | | 16 | |
| Year 3 | Semester 5 | IS5211 | Project Management | Essential | 2 |
| | | IT5101 | Final Year Project | Core | 8 |
| | | Total Credit Value | | | |
| | Semester 6 | IN4101 | Internship | Core | 8 |
| | | EM1188 | Enrichment | Core | 2 |
| | | Total Credit Value | | | |
| Total Credit Value for the Whole Programme | | | | 90 | |

*Final Year Project (FYP) activities and assessments commences in Semester 4 and continues in Semester 5 where the final grade will be awarded.

**Enrichment module commences throughout three (3) years Diploma programme

WEB DEVELOPMENT

This programme is composed of the following modular components.

| MODULAR COMPONENTS | CREDIT VALUES |
|------------------------|---------------|
| Core Modules | 34 |
| Essential Modules | 40 |
| Specialisation Modules | 16 |
| TOTAL | 90 |

These are the modules that are considered fundamental modules for Web Development programme and therefore students are required to pass them. These modules are distributed throughout the duration of the programme as shown below.

| SEMESTER | MODULE CODE | ESSENTIAL MODULES | CREDIT VALUE |
|----------|-------------|------------------------------------|--------------|
| 1 | IS1201 | Computer Systems Architecture | 3 |
| 2 | DM2201 | Multimedia and Creative Technology | 3 |
| | IS1202 | Information Systems Essentials | 3 |
| | NS2201 | Network Fundamentals | 3 |
| | WD2201 | Basic Web Programming | 3 |
| | LC2201 | Introduction to Informatics | 3 |
| 3 | IS3203 | Systems Analysis and Design | 4 |
| | NS3202 | Cyber Security | 4 |
| | WD3202 | User Experience Design | 4 |
| | WD3203 | Web Design | 4 |
| 4 | IS4209 | Database Design and Implementation | 4 |
| 5 | IS5211 | Project Management | 2 |

These specialization modules are available for Web Development programme. These modules will allow students to pursue in greater depth their chosen discipline. Students taking this programme are expected to undertake ALL the specialisation modules in Semester 3 and Semester 4 as specified below.

| SEMESTER | MODULE CODE | SPECIALISATION MODULES | CREDIT VALUE |
|----------|-------------|---------------------------------------|--------------|
| 3 | WD3304 | Web Technologies | 4 |
| 4 | WD3305 | Mobile in Web Environment | 4 |
| | WD3306 | Advanced Web Programming | 4 |
| | WD3307 | Web Application and Development Tools | 4 |
| | | | |

| Session | Module Code | Module Title | Module Type | Credit Value | |
|--|--------------------|--------------------|--|--------------|----|
| Year 1 | Semester 1 | GS1101 | Pengajian Melayu Islam Beraja | Core | 2 |
| | | GS1102 | Pendidikan Islam | Core | 2 |
| | | GS1122 | Mathematics for Computing | Core | 3 |
| | | GS1112 | Communication Skills for Computing | Core | 3 |
| | | HS1101 | Health, Safety, Security and Environment | Core | 3 |
| | | IS1201 | Computer Systems Architecture | Essential | 3 |
| | Total Credit Value | | | | 16 |
| | Semester 2 | BE1101 | Entrepreneurship | Core | 3 |
| | | DM2201 | Multimedia and Creative Technology | Essential | 3 |
| | | IS1202 | Information Systems Essentials | Essential | 3 |
| | | NS2201 | Network Fundamentals | Essential | 3 |
| | | WD2201 | Basic Web Programming | Essential | 3 |
| | | LC2201 | Introduction to Informatics | Essential | 3 |
| | Total Credit Value | | | | 18 |
| Year 2 | Semester 3 | IS3203 | Systems Analysis and Design | Essential | 4 |
| | | NS3202 | Cyber Security | Essential | 4 |
| | | WD3202 | User Experience Design | Essential | 4 |
| | | WD3203 | Web Design | Essential | 4 |
| | | WD3304 | Web Technologies | Specialised | 4 |
| | Total Credit Value | | | | 20 |
| | Semester 4 | IS4209 | Database Design and Implementation | Essential | 4 |
| | | WD3305 | Mobile in Web Environment | Specialised | 4 |
| | | WD3306 | Advanced Web Programming | Specialised | 4 |
| | | WD3307 | Web Application and Development Tools | Specialised | 4 |
| Total Credit Value | | | | 16 | |
| Year 3 | Semester 5 | IS5211 | Project Management | Essential | 2 |
| | | IT5101 | Final Year Project | Core | 8 |
| | | Total Credit Value | | | |
| | Semester 6 | IN4101 | Internship | Core | 8 |
| | | EM1188 | Enrichment | Core | 2 |
| Total Credit Value | | | | 10 | |
| Total Credit Value for the Whole Programme | | | | 90 | |

*Final Year Project (FYP) activities and assessments commences in Semester 4 and continues in Semester 5 where the final grade will be awarded.

**Enrichment module commences throughout three (3) years Diploma programme

INFORMATION SYSTEMS

This programme is composed of the following modular components.

| MODULAR COMPONENTS | CREDIT VALUES |
|------------------------|---------------|
| Core Modules | 34 |
| Essential Modules | 36 |
| Specialisation Modules | 20 |
| TOTAL | 90 |

These are the modules that are considered fundamental modules for Information Systems programme and therefore students are required to pass them. These modules are distributed throughout the duration of the programme as shown below.

| SEMESTER | MODULE CODE | ESSENTIAL MODULES | CREDIT VALUE |
|----------|-------------|------------------------------------|--------------|
| 1 | IS1201 | Computer Systems Architecture | 3 |
| 2 | DM2201 | Multimedia and Creative Technology | 3 |
| | IS1202 | Information Systems Essentials | 3 |
| | NS2201 | Network Fundamentals | 3 |
| | WD2201 | Basic Web Programming | 3 |
| | LC2201 | Introduction to Informatics | 3 |
| 3 | IS3203 | Systems Analysis and Design | 4 |
| | IS3204 | Programming Application | 4 |
| 4 | IS4209 | Database Design and Implementation | 4 |
| 5 | IS5211 | Project Management | 2 |

These specialisation modules are available for Information Systems programme. These modules will allow students to pursue in greater depth their chosen discipline. Students taking this programme are expected to undertake ALL the specialisation modules in Semester 3 and Semester 4 as specified below.

| SEMESTER | MODULE CODE | SPECIALISATION MODULES | CREDIT VALUE |
|----------|-------------|------------------------------------|--------------|
| 3 | IS3305 | Emerging Technologies | 4 |
| | IS3306 | Information Systems Management | 4 |
| 4 | IS4307 | Systems Design and Development | 4 |
| | IS4308 | Advanced Programming | 4 |
| | IS4310 | Mobile Application and Development | 4 |

| Session | Module Code | Module Title | Module Type | Credit Value | |
|--|--------------------|--------------------|--|--------------|----|
| Year 1 | Semester 1 | GS1101 | Pengajian Melayu Islam Beraja | Core | 2 |
| | | GS1102 | Pendidikan Islam | Core | 2 |
| | | GS1122 | Mathematics for Computing | Core | 3 |
| | | GS1112 | Communication Skills for Computing | Core | 3 |
| | | HS1101 | Health, Safety, Security and Environment | Core | 3 |
| | | IS1201 | Computer Systems Architecture | Essential | 3 |
| | Total Credit Value | | | | 16 |
| | Semester 2 | BE1101 | Entrepreneurship | Core | 3 |
| | | DM2201 | Multimedia and Creative Technology | Essential | 3 |
| | | IS1202 | Information Systems Essentials | Essential | 3 |
| | | NS2201 | Network Fundamentals | Essential | 3 |
| | | WD2201 | Basic Web Programming | Essential | 3 |
| | | LC2201 | Introduction to Informatics | Essential | 3 |
| Total Credit Value | | | | 18 | |
| Year 2 | Semester 3 | IS3203 | Systems Analysis and Design | Essential | 4 |
| | | IS3204 | Programming Application | Essential | 4 |
| | | IS3305 | Emerging Technologies | Specialised | 4 |
| | | IS3306 | Information Systems Management | Specialised | 4 |
| | | WD3202 | User Experience Design | Essential | 4 |
| | Total Credit Value | | | | 20 |
| | Semester 4 | IS4307 | Systems Design and Development | Specialised | 4 |
| | | IS4308 | Advanced Programming | Specialised | 4 |
| | | IS4209 | Database Design and Implementation | Essential | 4 |
| | | IS4310 | Mobile Application and Development | Specialised | 4 |
| Total Credit Value | | | | 16 | |
| Year 3 | Semester 5 | IS5211 | Project Management | Essential | 2 |
| | | IT5101 | Final Year Project | Core | 8 |
| | | Total Credit Value | | | |
| | Semester 6 | IN4101 | Internship | Core | 8 |
| | | EM1188 | Enrichment | Core | 2 |
| Total Credit Value | | | | 10 | |
| Total Credit Value for the Whole Programme | | | | 90 | |

*Final Year Project (FYP) activities and assessments commences in Semester 4 and continues in Semester 5 where the final grade will be awarded.

**Enrichment module commences throughout three (3) years Diploma programme

IT NETWORK & SECURITY

This programme is composed of the following modular components.

| MODULAR COMPONENTS | CREDIT VALUES |
|------------------------|---------------|
| Core Modules | 34 |
| Essential Modules | 32 |
| Specialisation Modules | 24 |
| TOTAL | 90 |

These are the modules that are considered fundamental modules for IT Network & Security programme and therefore students are required to pass them. These modules are distributed throughout the duration of the programme as shown below.

| SEMESTER | MODULE CODE | ESSENTIAL MODULES | CREDIT VALUE |
|----------|-------------|------------------------------------|--------------|
| 1 | IS1201 | Computer Systems Architecture | 3 |
| 2 | DM2201 | Multimedia and Creative Technology | 3 |
| | IS1202 | Information Systems Essentials | 3 |
| | NS2201 | Network Fundamentals | 3 |
| | WD2201 | Basic Web Programming | 3 |
| | LC2201 | Introduction to Informatics | 3 |
| 3 | IS3203 | Systems Analysis and Design | 4 |
| | NS3202 | Cyber Security | 4 |
| | IS3204 | Programming Application | 4 |
| 5 | IS5211 | Project Management | 2 |

These specialisation modules are available for IT Network and Security programme. These modules will allow students to pursue in greater depth their chosen discipline. Students taking this programme are expected to undertake ALL the specialisation modules in Semester 3 and Semester 4 as specified below.

| SEMESTER | MODULE CODE | SPECIALISATION MODULES | CREDIT VALUE |
|----------|-------------|---------------------------------------|--------------|
| 3 | NS3303 | Internetworking | 4 |
| | NS3304 | Computer Network & Data Communication | 4 |
| 4 | NS4305 | Mobile and Wireless Computing | 4 |
| | NS4306 | Network Programming | 4 |
| | NS4307 | Cloud Computing | 4 |
| | NS4308 | Network Administration & Management | 4 |

| Session | Module Code | Module Title | Module Type | Credit Value | |
|--|--------------------|-------------------------------------|--|--------------|----|
| Year 1 | Semester 1 | GS1101 | Pengajian Melayu Islam Beraja | Core | 2 |
| | | GS1102 | Pendidikan Islam | Core | 2 |
| | | GS1122 | Mathematics for Computing | Core | 3 |
| | | GS1112 | Communication Skills for Computing | Core | 3 |
| | | HS1101 | Health, Safety, Security and Environment | Core | 3 |
| | | IS1201 | Computer Systems Architecture | Essential | 3 |
| | Total Credit Value | | | | 16 |
| | Semester 2 | BE1101 | Entrepreneurship | Core | 3 |
| | | DM2201 | Multimedia and Creative Technology | Essential | 3 |
| | | IS1202 | Information Systems Essentials | Essential | 3 |
| | | NS2201 | Network Fundamentals | Essential | 3 |
| | | WD2201 | Basic Web Programming | Essential | 3 |
| | | LC2201 | Introduction to Informatics | Essential | 3 |
| Total Credit Value | | | | 18 | |
| Year 2 | Semester 3 | IS3203 | Systems Analysis and Design | Essential | 4 |
| | | NS3202 | Cyber Security | Essential | 4 |
| | | IS3204 | Programming Application | Essential | 4 |
| | | NS3303 | Internetworking | Specialised | 4 |
| | | NS3304 | Computer Network & Data Communication | Specialised | 4 |
| | Total Credit Value | | | | 20 |
| | Semester 4 | NS4305 | Mobile and Wireless Computing | Specialised | 4 |
| | | NS4306 | Network Programming | Specialised | 4 |
| | | NS4307 | Cloud Computing | Specialised | 4 |
| NS4308 | | Network Administration & Management | Specialised | 4 | |
| Total Credit Value | | | | 16 | |
| Year 3 | Semester 5 | IS5211 | Project Management | Essential | 2 |
| | | IT5101 | Final Year Project | Core | 8 |
| | | Total Credit Value | | | |
| | Semester 6 | IN4101 | Internship | Core | 8 |
| | | EM1188 | Enrichment | Core | 2 |
| Total Credit Value | | | | 10 | |
| Total Credit Value for the Whole Programme | | | | 90 | |

*Final Year Project (FYP) activities and assessments commences in Semester 4 and continues in Semester 5 where the final grade will be awarded.

**Enrichment module commences throughout three (3) years Diploma programme