**PROGRAMME MODULE STRUCTURE: BACHELOR OF EDUCATION WITH HONOURS IN MATHEMATICS AND COMPUTER (BSED)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **YEAR** | **BAED** | **Programme** | **Bachelor of Education with Honours in Mathematics and Computer** |  |
|  | **Code** | **Module Code** | **Module Title** | **No. of Credits per module** |
| Level 1 | **Award: Certificate of Higher Education** | |  |
| **YEAR 1**  **Year 2** | **Year 1**  Trim. 1 | COM 1101 | Communication skills | **10 credits** |
| COL 1101 | Computer literacy | **10 credits** |
| HUM 1101 | Humanities (philosophy, Ethics and sociology) | 15 credits |
| CSE 1101 | Introduction to information Technology | **10 credits** |
| MAT 1101 | Mathematics Analysis I | **15 credits** |
|  | ***Subtotal SUB-TOTAL 1*** | ***60 credits*** |
| Year 1  Trim. 2 | CSE 1201 | Computer Basics | **10 credits** |
| MAT 1201 | Statistics and Probability | **10 credits** |
| IRM 1201 | Introduction to Research methodology | 10 credits |
| EDP 1201 | **Fundamental psychology** | 15 credits |
| EDG 1201 | General pedagogy and methodology | 15 credits |
| ***Sub-total 2*** | | ***60* *credits*** |
| ***Total*** | | ***120 credits*** |
| Level 2  Trim. 3  Year 2  Trim.1 | **Award: Diploma in Higher Education** | |  |
| MAT 2301 | Linear algebra and Geometry | **15 credits** |
| CSE 2301 | Basic Mathematics for computing | **20 credits** |
| MAT 2302 | Mathematics Analysis II | **10 credits** |
| EDH 2301 | Human developmental psychology | **15 credits** |
|  | ***SUB-TOTAL 3*** | ***60 credits*** |
| CSE 2101 | General Physics for Computing Science | **15 credits** |
| EDC 2101 | Curriculum studies | 10 credits |
| CSE 2102 | Artificial Intelligence | **15 credits** |
| CSE 2102 | Object oriented Programming with C ++ | **10 credits** |
| EDF 2101 | Foundation of education | **10 credits** |
|  | ***SUB-TOTAL 4*** | ***60 credits*** |
| ***Total*** | ***120 credits*** |
| Level 3 |  | **Award: Advanced Diploma in Higher Education** |  |
| Year 2  Trim.2 | EDS 3201 | Mathematics and Computer Teaching Methods | **15 credits** |
| CSE 3201 | Electromagnetism for Computer Science | **10 credits** |
| ENT 3201 | Entrepreneurship Skills | **10 credits** |
| EDL 3201 | School management and Legislation | 10 credits |
| CSE 3201 | Computer Graphic and multimedia | **15 credits** |
|  | ***SUB-TOTAL 5*** | ***60 credits*** |
| Level 4 | **Award: Ordinary Degree in Education** | |  |
| Year 2  Trim. 3 | CSE 4301 | Electronics | **10 credits** |
| EDR 4301 | Educational research | 10 credits |
| CSE 4301 | Operating System | **10 credits** |
| CSE 4302 | Computer Architecture and Assembly | **10 credits** |
| MAT 4302 | Functional Analysis | **10 credits** |
| EDM 4301 | Educational Measurement and evaluation | 10 credits |
|  | ***SUB-TOTAL 6*** | ***60 credits*** |
| ***Total*** | ***120 credits*** |
| **Year 3** | **Level 5** | **Award: Bachelor’s Degree in Education with Honours in History and Geography** | |  |
| **Year 3**  **Trim. 1** | CSE 5101 | Data Communication and Computer networks | **15 credits** |
| MAT 5101 | Numerical Analysis and Linear Programming | **15 credits** |
| MAT 5102 | Stochastics Processes | **15 credits** |
| CSE 5102 | Database and Software Engineering | **15 credits** |
|  | ***SUB-TOTAL 7*** | ***60 credits*** |
| **Year 3**  **Trim. 2** | 5201 | Internet Programming | **15 credits** |
| MAT 5201 | Group Theory | **10 credits** |
| MAT 5202 | Data Analysis | **10 credits** |
| MAT 5203 | Multivariate Analysis | **10 credits** |
| EDE 5201 | Educational Technology and microteaching | 15 credits |
|  | **SUB-TOTAL 8** | **60 credits** |
|  | **TOTAL 8** | **120 credits** |
| **Year 3**  **Trim.3** | EDT 5301 | Teaching and School Practice | 30 credits |
| RSP 5301 | Research Project | 30 credits |
|  | ***SUBTOTAL 9*** | **60 credits** |
|  | ***Total*** | **120 credits** |
|  |  | **TOTAL** | ***GENERAL TOTAL*** | ***480 CREDITS*** |