**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 1Trim. 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 2Trim. 3Year 2Trim.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 2Trim.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 2Trim. 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*** |