**SECTION II: PROGRAM STRUCTURE AND MODULES DISTRIBUTION**

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

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| **YEAR** | **BSED** | **Programme** | **Bachelor of Education with Honours in Mathematics and Physics** |  |
|  | **Code** | **Module Code** | **Module Title** | **Number 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 | **15 credits** |
| PHY 1101 | Classical Mechanics | **10 credits** |
| MAT 1101 | Mathematics Analysis I | **15 credits** |
|  | ***Sub-total 1*** | ***60 credits*** |
| **Year 1**  **Trim. 2** | PHY 1202 | Properties of Matter and Thermodynamics | **10 credits** |
| MAT 1202 | Statistics and Probability I | **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 I | **15 credits** |
| PHY 2301 | Electromagnetism | **10 credits** |
| PHY 2302 | Waves and Optics | **10 credits** |
| MAT 2302 | Mathematics Analysis II | **10 credits** |
| EDH 2301 | Human developmental psychology | **15 credits** |
|  | ***Sub-total 3*** | ***60 credits*** |
| PHY 2103 | Modern Physics | **10 credits** |
| EDC 2101 | Curriculum studies | **10 credits** |
| MAT 2103 | Linear algebra and Geometry II | **15 credits** |
| PHY 2104 | Special relativity and Electrodynamics | **15 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 Physics Teaching Methods | **15 credits** |
| PHY 3201 | Analytical Mechanics | **10 credits** |
| ENT 3201 | Entrepreneurship Skills | **10 credits** |
| EDL 3201 | School management and Legislation | **10 credits** |
| MAT 3201 | Statistics and Probability II | **15 credits** |
|  | ***Sub-total 5*** | ***60 credits*** |
| **Level 4** | **Award: Ordinary Degree in Education** | |  |
| **Year 2**  **Trim. 3** | PHY 4301 | Mathematical Physics | **10 credits** |
| EDR 4301 | Educational research | **10 credits** |
| MAT 4301 | Mathematics Analysis III | **10 credits** |
| PHY 4302 | Solid State Physics | **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 Mathematics and Physics** | |  |
| **Year 3**  **Trim. 1** | PHY 5101 | Quantum Mechanics | **15 credits** |
| MAT 5101 | Numerical Analysis and Linear Programming | **15 credits** |
| MAT 5102 | Stochastic Processes | **15 credits** |
| PHY 5102 | Statistical Physics | **15 credits** |
|  | ***Sub-total 7*** | ***60 credits*** |
| **Year 3**  **Trim. 2** | PHY 5203 | Atomic Physics | **15 credits** |
| MAT 5203 | Group Theory | **10 credits** |
| MAT 5204 | Data Analysis | **10 credits** |
| MAT 5205 | 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** |
|  | ***Sub-total 9*** | **60 credits** |
|  | ***Total*** | **120 credits** |
|  |  | **TOTAL** | ***GENERAL TOTAL*** | ***480 CREDITS*** |