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| ***Consistency between Programme Outcomes and NCAAA Outcomes*** | **Code****MUP05** |

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| ***NCAAA Outcomes*** |  |  |
| E **NCAAA** | D **NCAAA** | **C NCAAA** | **B NCAAA** | **A NCAAA** |
| **e2** | **e1** | **d3** | **d2** | **d1** | **c3** | **c2** | **c1** | **b3** | **b2** | **b1** | **a3** | **a2** | **a1** |  |  |  |
|  | √ |  | √ | √ | √ |  |  | √ | √ | √ | √ | √ | √ | **a1** | **A** | ***Programme Outcomes*** |
|  | √ | √ |  | √ | √ | √ |  | √ |  | √ | √ | √ | √ | **a2** |
|  |  |  |  |  | √ |  | √ | √ |  |  |  |  | √ | **a3** |
|  |  |  | √ | √ |  |  |  |  | √ | √ | √ | √ | √ | **b1** | **B** |
| √ |  |  | √ |  | √ | √ |  | √ | √ | √ |  | √ | √ | **b2** |
| √ |  |  |  |  | √ | √ | √ |  | √ |  | √ |  |  | **c1** | **C** |
|  |  |  |  |  | √ | √ |  | √ | √ |  | √ |  |  | **c2** |
|  |  |  |  |  | √ | √ |  | √ |  |  |  |  |  | **c3** |
|  |  |  | √ |  | √ |  |  | √ |  |  | √ | √ | √ | **d1** | **D** |
| √ |  | √ |  | √ |  |  |  | √ | √ |  |  | √ | √ | **d2** |
|  | √ | √ |  | √ |  |  | √ |  |  |  | √ |  | √ | **d3** |
| √ |  | √ |  | √ | √ |  |  |  | √ |  |  | √ | √ | **e1** | **E** |

**( A ) knowledge**

**( B ) cognitive skills**

**( C ) interpersonal skills and responsibility**

**( D ) communication, information technology and numerical skills**

**( E ) Psychomotor skills**

|  |  |  |  |  |
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| ***NCAAA Outcomes*** |  |  |  | ***Programme Outcomes*** |
| **SO** | **Code** | **Domain** |  | **SO** | **Code** | **Domain** |
| Knowledge of facts. | a1 | **A** |  | Apply fundamentals and concepts of mathematics**.** | a1 | **A** |
| Knowledge of concepts, principles and theories. | a2 |  | Apply fundamentals and concepts of General sciences and Computer skills | a2 |
| Knowledge of procedures | a3 |  | Realize Social and ethical values | a3 |
| Apply conceptual understanding of concepts, principles, and theories  | b1 | **B** |  | Read and construct mathematical arguments and proofs | b1 | **B** |
| Apply procedures involved in critical thinking and creative problem solving, both when required to do so, and when faced with unanticipated new situations  | b2 |  | Apply critical thinking skills to solve problems that can be modeled mathematically | b2 |
| Investigate issues and problems in a field of study using a range of sources and draw valid conclusions | b3 |
| Work effectively in groups and exercise leadership when appropriate | c1 | **C** |  | Work independently and within a team | c1 | **C** |
| Act responsibly in personal and professional relationships | c2 |  | Bear responsibility for different situations | c2 |
| Take responsibility for their own learning and continuing personal and professional development | c3 |  | Realize codes of ethics and their importance. | c3 |
| Use modern mathematical and statistical techniques | d1 | **D** |  | Communicate a depth and breadth of mathematical knowledge, both orally and in writing | d1 | **D** |
| Communicate effectively in oral and written form | d2 |  | Ability to Organize, connect and communicate mathematical and algorithmic ideas | d2 |
| Use information and communications technology. | d3 |  | Critically interpret numerical and graphical data. | d.. |
| Psychomotor skills include manual dexterity and the capacity to manage physical behavior with precision and skill. | e1 | **E** |  | Use computer and its applications as an office tool | e1 | **E** |
| Descriptions of the level of psychomotor skills expected of a bachelor’s degree graduate will vary widely for different fields of study according to the nature of the skills to be developed in different academic areas or professional fields  | e2 |