

**Consistency between Student Learning Outcomes and NCAAA Outcomes**  
College: **Science**      Department: **Mathematics**      Program: **B.Sc.( Mathematics)**

Code  
MUP05

			NCAAA Outcomes																	
			A <sub>NCAAA</sub>				B <sub>NCAAA</sub>						C <sub>NCAAA</sub>					D <sub>NCAAA</sub>		
			a1	a2	a3	a4	b1	b2	b3	b4	b5	b6	c1	c2	c3	c4	c5	d1	d2	d3
Student Learning Outcomes	A	a1	√		√															
		a2		√	√															
		a3			√	√														
	B	b1					√	√	√	√	√	√								
		b2					√	√	√	√	√	√								
	C	c1										√	√	√	√	√				
		c2										√	√	√	√	√				
		c3														√				
	D	d1															√		√	
		d2																		
E	N. A																			

- ( A ) knowledge
- ( B ) cognitive skills
- ( C ) interpersonal skills and responsibility
- ( D ) communication, information technology and numerical skills
- ( E ) Psychomotor skills

## NCAAA Outcomes

Domain	Code	NCAAA Student Outcomes
A	a1	Possesses a comprehensive, coherent and systematic body of knowledge in a field and the underlying principles and theories associated with it.
	a2	Is aware of related knowledge and theory in other disciplines and, in the case of professional programs, other professional fields.
	a3	Is familiar with the latest developments at the forefront of specializations within the main field of study including critical awareness of current research relating to resolution of issues and extension of knowledge.
	a4	In programs preparing students for professional practice graduates are aware of relevant conventions, regulations, and technical requirements and of how these may be modified over time in response to changing circumstances.
B	b1	Is able to undertake investigations, comprehend and evaluate new information, concepts and evidence from a range of sources.
	b2	Apply conclusions to a wide range of issues and problems with limited guidance.
	b3	Is able to investigate relatively complex problems using a range of information technology and other sources.
	b4	Recommend creative and innovative solutions taking account of relevant theoretical knowledge and practical experience and the consequences of decisions made.
	b5	Can apply these skills and insights in professional and academic contexts relevant to the field of study undertaken.
	b6	In professional programs can use routine procedures appropriately, but identify situations requiring innovative solutions and draw on relevant theoretical and practical insights in response.
C	c1	Contributes to and facilitates constructive resolution of issues in group or team situations, whether in a leadership role or as a member of a group.

	c2	Can exercise group leadership in undefined situations calling for innovative responses.
	c3	Shows initiative in identifying issues requiring attention and in addressing them appropriately on an individual or team basis.
	c4	Takes responsibility for own learning and is able to identify and use means offinding new information or techniques of analysis needed for completion of tasks.
	c5	Deals with ethical and professional issues involving values and moral judgments in ways that are sensitive to others and consistent with underlying basic values and relevant professional codes of practice.
<b>D</b>	d1	When investigating issues and problems can identify relevant statistical or mathematical techniques and apply them creatively in interpreting information and proposing solutions.
	d2	Can communicate effectively both orally and in writing, selecting and using forms of presentation appropriate for differing issues and audiences.
	d3	Routinely uses the most appropriate information and communications technology in gathering, interpreting and communicating information and ideas.
<b>E</b>	e1	
	e..	