

<b>MASTER Mathematics</b>	Graduates of Master's degree programme in the field Mathematics:	<b>Key</b>
<b>Knowledge</b>	TC12-PLO1: possess further knowledge of abstract and applied mathematics,	Remember
	TC12-PLO2: are able to identify and explain the quality of complex mathematical problems,	understand
	TC12-PLO3: are able to generalize complex mathematical problems	understand
<b>Ability</b>	TC12-PLO4: are able to use mathematical statements to solve mathematical problems,	Apply
	TC12-PLO5: are able to formulate mathematical hypotheses and verify them,	Apply
	TC12-PLO6: recognize the mathematically abstract structure of problems and are able to analyze this,	Analyze
<b>Competency</b>	TC12-PLO6: formally and correctly prove mathematical statements,	Evaluate
	TC12-PLO7: master strategies to transfer methods within a wide area of Mathematics,	Model
	TC12-PLO8: implement mathematical processes for complex problems on the computer by applying mathematical standard software,	Create
	TC12-PLO9: are able to scientifically work on and present mathematical problems within the area of abstract and applied mathematics,	Create
	TC12-PLO10: within the framework of Master activities, independently work on an advanced scientific within the area of abstract and applied mathematics,	Independent
	TC12-PLO11: are able to adequately present and scientifically discuss the results both orally and in writing.	Communicate

#### PLOs of MSc. Mathematics

- K1. Demonstrate a solid understanding of advanced topics in Mathematics.
- K2. Outline the areas of specialization through studying specific topics relevant to research in mathematics.
- S1. Apply advanced mathematical knowledge to analyze problems and develop innovative solutions.
- S2. Develop critical skills with regard to literature searching, appraising and evaluating from a variety of sources and synthesizing the results.
- S3. Communicate in a clear and concise manner orally, on paper and using IT.
- S4. Make efficient use of computers for acquiring, analyzing and presenting information.
- V1. Demonstrate integrity, professional and academic ethics, participation in finding constructive solutions to some societal issues, and a commitment to responsible citizenship.
- V2. Self-evaluate the level of learning and performance, insist on achievement and excellence, and make logical decisions supported by evidence and arguments independently.

V3. Lead teamwork with functional flexibility and effectiveness, and take responsibility for professional development, participating in developing the group's performance, and enhancing the quality of life.

ASIIN SSC-12 Vs PLOs

		PLOs of MSc Mathematics								
		K1	K2	S1	S2	S3	S4	V1	V2	V3
ASIIN SSC-12	TC13-PLO1	✓	✓							
	TC13-PLO2		✓							
	TC13-PLO3			✓						
	TC13-PLO4			✓						
	TC13-PLO5			✓	✓					
	TC13-PLO6				✓					
	TC13-PLO7		✓							
	TC13-PLO8							✓		
	TC13-PLO9						✓	✓	✓	✓
	TC13-PLO10						✓			✓
	TC13-PLO11						✓	✓	✓	✓