ASIIN Subject-Specific Criteria of the Technical Committee 12 – Mathematics

BACHELOR Mathematics	Graduates of Bachelor's degree programme in the field Mathematics:	Key
Knowledge	TC12-PLO1: possess profound knowledge of the fundamentals of abstract and applied mathematics	Remember
	TC12-PLO2: are able to identify and explain the quality of simple mathematical problems	Understand
	TC12-PLO3: are able to generalize simple mathematical problems	Understand
Ability	TC12-PLO4: able to solve simple practical problems by applying fundamental mathematical methods	Apply
	TC12-PLO5: recognize the formal structure of simple mathematical problems	Analyze
Competency	TC12-PLO6: formally and correctly prove simple mathematical statements with facts and methods that students are familiar,	Evaluate
	TC12-PLO7: master fundamental strategies for transferring methods in the area of Mathematics	Model
	TC12-PLO8: implement simple, mathematical processes on the computer as well as utilize elementary mathematical software,	Create
	TC12-PLO9: within the framework of Bachelor activities, work on a simple and clearly defined scientific task in an applied area with a large mathematical proportion	Collaborate
	TC12-PL10: and are able to adequately present the results orally and in writing	Communicate

PLOs of BSc. Applied Mathematics

K1. Understand the fundamentals of Mathematics as a rigorous living discipline in its own right.

K2. Describe and outline the development of the application of Mathematics as a language in a wide range of situations relevant to research and industry.

S1. Develop critical abilities of an analytical, creative, and problem-solving nature.

S2. Design mathematical models of real-life problems.

S3. Develop critical skills with regard to literature searching, appraising and evaluating from a variety of sources and synthesizing the results.

S4. Communicate mathematical ideas orally and in writing, with precision and clarity.

S5. Make efficient use of computer technology and software in solving mathematical problems.

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 BSc. Applied Mathematics									
		K1	K2	S1	S2	S3	S4	S5	V1	V2	V3
ASIIN SSC-12	C12-PLO1		✓			✓					
	C12-PLO2	✓									
	C12-PLO3	✓									
	C12-PLO4			✓							
	C12-PLO5			✓							
	C12-PLO6	✓									
	C12-PLO7				✓						
	C12-PLO8				✓			✓			
	C12-PLO9		✓			✓	✓		✓	✓	✓
	C12-PLO1		✓				✓		✓	✓	✓