RUBRIC ASSESSMENT PLO OF MATHEMATICS EDUCATION STUDY PROGRAM

KKO of PLO	Performance Criteria	Excellent (A and A-) (Range 80-100)	Good (B+, B, B-) (Range 65-79)	Satisfy (C+, C, C-) (Range 50-64)	Fail (D, E) (Value <50)
P1	Graduates can analyze the formal structure of simple math problems in the areas of basic mathematics and advanced mathematics to support the professional competence of teachers and further studies.	Students can state, interpret, apply and analyze mathematical problems with an error rate of <20%	Students can state, interpret, apply and analyze mathematical problems with an error rate of <35%	Students can state, interpret, apply and analyze mathematical problems with an error rate of <50%	Students can state, interpret, apply and analyze mathematical problems with an error rate of> 50%
P2	Graduates are able to design innovative learning based on the concept of mathematics education and learning	Students can state and apply concepts, analyze and evaluate problems related to education & learning and design a mathematics lesson with an error rate of <20%	Students can state and apply concepts, analyze and evaluate problems related to education & learning and design a mathematics lesson with an error rate of <35%	Students can state and apply concepts, analyze and evaluate problems related to education & learning and design a mathematics lesson	Students can state and apply concepts, analyze and evaluate problems related to education & learning and design a mathematics lesson with an error rate of> 50%

				with an error rate of <50%	
P3	Graduates are able to design mathematics learning media, both manipulative learning media and ICT-based learning media	Students can state and apply concepts about media, analyze and evaluate media-related problems and design manipulative media and ICT with an error rate of <20%	Students can state and apply concepts about media, analyze and evaluate media-related problems and design manipulative media and ICT with an error rate of <35%	Students can state and apply concepts about media, analyze and evaluate media-related problems and design manipulative media and ICT with an error rate of <50%	Students can state and apply concepts about media, analyze and evaluate media-related problems and design manipulative media and ICT with an error rate of> 50%
P4	Graduates are able to design research in the field of mathematics education	Students can state and apply concepts about research, analyze and evaluate problems related to educational research and design a mathematics	Students can state and apply concepts about research, analyze and evaluate problems related to educational research and design a mathematics education	Students can state and apply concepts about research, analyze and evaluate problems related to educational	Students can state and apply concepts about research, analyze and evaluate problems related to educational research and design a mathematics education

		education research with an error rate of <20%	research with an error rate of <35%	research and design a mathematics education research with an error rate of <50%	research with an error rate of> 50%
P5	Graduates are able to use general knowledge concepts to support professional teacher competencies	Students can mention, explain and apply general knowledge concepts with an error rate of <20%	Students can mention, explain and apply general knowledge concepts with an error rate of <35%	Students can mention, explain and apply general knowledge concepts with an error rate of <50%	Students can mention, explain and apply general knowledge concepts with an error rate of> 50%
KU 1	Graduates are able to produce innovative work, in the fields of education and entrepreneurship	Graduates are able to produce innovative work, in the field of education and entrepreneurship Students can choose, use and imitate the creation of a work then construct ideas and materials, adapt and revise a work so that innovative	Students can choose, use and imitate the making of a work then construct ideas and materials, adapt and revise a work so that innovative work will be created with an appropriate level of use	Students can choose, use and imitate the making of a work then construct ideas and materials, adapt and revise a work so that innovative work will be created with an	Students can choose, use and imitate the making of a work then construct ideas and materials, adapt and revise a work so that innovative work will be created with an appropriate level of use KU1 is on the percentage

		work will be created with an appropriate level of use KU1 is at a percentage 80% ≤ KU1 ≤ 100%	KU1 is on the percentage 65% ≤ KU1 <80%	appropriate level of use KU1 is on the percentage 50% ≤ KU1 <65%	KU1 <50%
KU 2	Graduates are able to demonstrate oral and written communication skills	Students can describe, explain, respond and construct an idea orally & in writing with an error rate <20%	Students can describe, explain, respond and construct an idea orally & in writing with an error rate of <35%	Students can describe, explain, respond and construct an idea orally & in writing with an error rate of <50%	Students can describe, explain, respond and construct an idea orally & in writing with an error rate of> 50%
KU 3	Graduates are able to demonstrate skills / skills using ICT	Students can identify, process, follow procedures and organize data using ICT with an error rate <20%	Students can identify, process, follow procedures and organize data using ICT with an error rate <35%	Students can identify, process, follow procedures and organize data using ICT with an error rate <50%	Students can identify, process, follow procedures and organize data using ICT with an error rate
KK	Graduates can carry out innovative mathematics learning	Students can choose, process, follow manufacturing procedures,	Students can choose, process, follow manufacturing	Students can choose, process, follow	Students can choose, process, follow manufacturing

		organize learning devices, adapt and carry out mathematics learning with the innovative percentage level at 80% ≤ KK ≤ 100%	procedures, organize learning devices, adapt and carry out mathematics learning with the innovative percentage level at 65% ≤ KK <80%	manufacturing procedures, organize learning devices, adapt and carry out mathematics learning with the innovative percentage level at 50% ≤ KK <65%	procedures, organize learning devices, adapt and carry out mathematics learning with the innovative percentage level at S2 <50%
A1	Graduates are able to show a responsible attitude in their own work and can be given responsibility for the achievement of group work	Students are able to meet / show the PLO 10 (S1) indicator with a percentage 80% ≤ S1 ≤ 100%	Students are able to meet / show the PLO 10 (S1) indicator with a percentage 65% ≤ S1 <80%	Students are able to meet / show the PLO 10 (S1) indicator with a percentage 50% ≤ S1 <65%	Students are able to meet / show the PLO 10 (S1) indicator with a percentage S1 <50% $25\% \leq S1 < 37{,}5\%$
A2	Graduates are able to demonstrate good social	Students are able to meet / show the PLO 11 (S2) indicator with a percentage	Students are able to meet / show the PLO	Students are able to meet / show the	Students are able to meet / show the PLO 11

	ethics in the workplace and socially	80% ≤ S2 ≤ 100%	11 (S2) indicator with a percentage 65% ≤ S2 <80% $62{,}5\% \leq S2 < 87{,}5\%$	PLO 11 (S2) indicator with a percentage 50% ≤ S2 <65% $37{,}5\% \leq S2 < 62{,}5\%$	(S2) indicator with a percentage S2 <50% $25\% \leq S2 < 37{,}5\%$