

Appendix M1.1 BPM Graduate Profiles

No	Profil	Description	Required skills	Required knowledge
1	Mathematics Educator	Graduates who can assist lecturer at universities or non-university institutions, teaching mathematics in secondary education.	Have a deeply rooted understanding of mathematical concepts, think logically and critically, and are able to model, modify, and solve problems with or without the aid of technology, also develop reasoning, generalisation, and formal proof, as well as convey ideas clearly both verbally and in writing.	Theoretical and conceptual understanding of mathematics, analytical and logical reasoning, mathematical modelling and computational methods, scientific research methodology, and effective communication and pedagogical skills.
2	Young Researcher	Graduates, who can conduct research under the supervision of senior staff to perform research tasks.	Have a good grasp of mathematical concepts, think logically and critically, solve problems, conduct research, interpret results, write scientific reports, and adapt to developments in science and technology.	Theoretical mathematical concepts, scientific research methods, academic ethics, foreign languages, and interdisciplinary insights to support research.
3	Analyst	Graduates, who can become individuals capable of identifying the root causes of problems, whether related to Mathematics or other fields, and analyzing strategic solutions to existing problems in those fields.	Able to develop organised solutions, adaptable, and develop themselves in accordance with the demands of the profession	Applied mathematics, programming, application contexts, communication skills, project experience to apply mathematical theory in solving real-world problems.

4	Practitioner	Graduates, who can perform work using mathematical methods in Industry, Services, and Government.	Able to demonstrate creativity, problem-solving skills, effective communication, interpersonal skills, and personality management in understanding clients and providing appropriate solutions to achieve objectives.	Applied mathematics, research methods, data analysis technology, as well as social, economic, cultural, and business insights, communication skills, understanding of ethics, regulations, and sustainability for appropriate solutions for clients.
5	Middle-Level Manager	Mathematics graduates can become decision-makers.	Able to analyse data, think critically, logically, and creatively, communicate effectively, listen actively, use experience-based intuition, and be responsible for choosing the right solutions and minimising risks.	Data analysis, mathematical modeling, logical thinking and reasoning, communication skills, and interdisciplinary knowledge.