Module Descriptions

A **module** is a self-contained **learning unit** within a higher education program that includes thematically related courses and is assigned a **fixed number of credits**. It follows specific **learning objectives**, includes an **assessment component**, and contributes to achieving the qualifications of a degree program. In some countries, “modules” are also named “courses”.

Please provide a module description for each module. In addition to the compulsory and elective modules, this also includes credited internships and the final thesis.

Please summarize all module descriptions in one document (Module Handbook) and create a table of contents so that the modules can be found easily.

Module designation	*Level A Mathematics*
Semester(s) in which the module is taught	*2*
Person responsible for the module	*Prof. Dr. Drs. Sugiman M.Si.* *Dr. Karyati, M.Si.*
Language	*Indonesian.*
Relation to curriculum	*Elective.*
Teaching methods	*Lectures and discussions.*
Workload (incl. contact hours, self-study hours)	*Total workload is 90.67 hours per semester which consists of 100 minutes lectures, 120 minutes structured activities, and 120 minutes self-study per week for 16 weeks.*
Credit points	*2*
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	*After taking this course the students have ability to:* *CO1. Demonstrate respect for others' opinions and work, while upholding honesty and integrity.* *CO2. Understand the characteristics of Level A mathematics test questions and their corresponding mark schemes.* *CO3. Demonstrates the ability to develop mathematics test items equivalent to Level A, including the formulation of appropriate mark schemes.*
Content	*This course covers Pure Mathematics 1, 2, 3, and 4; Probability and Statistics 1 and 2; the development of mark schemes; and practice in constructing sample test items with corresponding mark schemes.*
Examination forms	*Presentations and written examinations.*

Study and examination requirements	*The course assessment is divided into two main components:* 1. ***Cognitive Assessment (50%)*** *This includes the following elements:* ○ *Attendance: 5%* ○ *Quiz: 5%* ○ *Assignment:0%* ○ *Midterm Exam (UTS): 20%* ○ *Final Exam (UAS): 20%* 2. ***Participatory Assessment (50%)*** *This includes:* ○ *Case Study: 10%* ○ *Team-Based Project: 40%* ***Total: 100%***
Reading list	*1. Smedley R, Wiseman G, 2001, Introducing Pure Mathematics 2nd edition, Oxford University Pres.* *2. Goldie S, 2012, Pure Mathematics 1, Hodder Education, an Hachette UK company.* *3. Goldie S, 2012, Pure Mathematics 2 and 3, Hodder Education, an Hachette UK company.* *4. Sugiman, (2023). Efektivitas Metode Interleaving dalam Pembelajaran Matematika ditinjau dari Kemampuan Pemecahan Masalah dan Cognitive Load.*