



MINISTRY OF EDUCATION AND CULTURE  
UNIVERSITAS NEGERI SURABAYA

**FACULTY OF MATHEMATICS AND NATURAL SCIENCE**  
**DEPARTEMENT OF MATHEMATICS**

Kampus Ketintang, Jalan Ketintang, Gedung C8, Surabaya 60231  
<http://matematika.fmipa.unesa.ac.id/>

## STAFF HANDBOOK



|                                 |                                                            |                        |                                     |                 |               |
|---------------------------------|------------------------------------------------------------|------------------------|-------------------------------------|-----------------|---------------|
| <b>Name :</b>                   | Rooselyna Ekawati, M.Sc., PhD.                             |                        |                                     |                 |               |
| <b>Position:</b>                | Associate Professor in Psychology of Mathematics Education |                        |                                     |                 |               |
| <b>Academic Career:</b>         | <b>Degree</b>                                              | <b>Expertise</b>       | <b>Institution</b>                  | <b>Year</b>     |               |
|                                 | Undergraduate Degree                                       | Mathematics            | Universitas Airlangga               | 2000 - 2004     |               |
|                                 | Magister Degree                                            | Mathematics Education  | Utrecht University, The Netherlands | 2006 – 2008     |               |
|                                 | Doctoral Degree                                            | Mathematics Education  | National Taiwan Normal University   | 2012 - 2015     |               |
| <b>Employment</b>               | <b>Position</b>                                            | <b>Employer</b>        | <b>Period</b>                       |                 |               |
|                                 | Head of Mathematics Education Program                      | Unesa                  | 2016 - 2019                         |                 |               |
|                                 | Head of Mathematics Education Program                      | Unesa                  | 2019 – Now                          |                 |               |
|                                 | Secretary of Mathematics Department                        | Unesa                  | 2019 – Now                          |                 |               |
| <b>Research and development</b> | <b>No</b>                                                  | <b>Name of project</b> | <b>Period</b>                       | <b>Partners</b> | <b>Amount</b> |
|                                 |                                                            |                        |                                     |                 |               |



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|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------|-------------------------------------------------------------------------------------------|-------------|
| <b>projects over the last 5 years</b>           | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PNBP Unesa               | 2016 | Prof.Dr.Muslimin Ibrahim<br>Dr. Abadi, M.Sc                                               | 40 juta     |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PNBP Pasca Sarjana Unesa | 2018 | Dr. Yusuf Fuad,<br>M.AppSc<br>A'yunin Sofro,<br>Ph.D                                      | 50 Juta     |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PNBP FMIPA Unesa         | 2017 | Dr. Ismail, M.Pd<br>Dini Kinati F,<br>M.Pd                                                | 10 Juta     |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PNBP Unesa               | 2017 | Dr. Susanti, M.Si<br>Dr. Frida Ulfah                                                      | 40 Juta     |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PNBP Pasca Sarjana Unesa | 2019 | Dr. Yusuf Fuad,<br>M.AppSc<br>A'yunin Sofro,<br>Ph.D                                      | 40 Juta     |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DRPM Ristekdikti (PKPT)  | 2019 | Achmad Dhany Fachrudin, M.Pd<br>Dr. Rini Setianingsih,<br>M.Kes<br>Siti Nuriyatin<br>M.Pd | 167,7 juta  |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DRPM Ristekdikti         | 2019 | Dr. Elly Matul Imah, M.Kom<br>Prof. Dr Siti M Amin, M.Pd                                  | 172,13 juta |
| <b>Industry collaboration over last 5 years</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |      |                                                                                           |             |
| <b>Patents and proprietary rights</b>           | Desain Pembelajaran Teorema Phytagoras dengan Pendekatan Problem Solving dari Sejarah Matematika China (11 December 2019)                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |      |                                                                                           |             |
| <b>Important publications over last 5 years</b> | <ol style="list-style-type: none"> <li>Ekawati, R. Lin, F-L, Yang, KL, 2014. Developing an Instrument for measuring Teachers' Mathematics Content Knowledge on Ratio and Proportion : A Case of Indonesian Primary Teachers. International Journal of Science and Mathematics Education. Vol 13, No 1. Springer. DOI: 10.1007/s10763-014-9532-2</li> <li>Ekawati, R &amp; Lin, F-L, 2014. Designing Teacher Professional Development for Mathematics Teaching with Variation Theory. IndoMS-Journal of Mathematics Education. Volume 5. No. 2, July 2014 (ISSN 2087-8885)</li> </ol> |                          |      |                                                                                           |             |



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3. Ekawati, R. Lin, F-L, Yang, KL, 2015. Primary Teachers' knowledge for teaching ratio and proportion in Mathematics: the case of Indonesia. Eurasia Journal of Mathematics, Science and Technology Education Vol 11 (3), 513-533.
4. Ekawati, R & Kohar, A.W, 2016. Innovative Teacher Professional Development within PMRI in Indonesia. International Journal of Innovation in Science and Mathematics Education vol 24 no 5.
5. Ekawati, R, Kohar, A.W, Hartono, S, 2017. Experts' Notion and Students' Responses on Context-Based Mathematics Problem. Journal of Engineering Science and Technology. Special issue on AASEC 2016
6. Abadi, A & Ekawati, R, 2018. Redesigning Preservice Mathematics Teachers' Lesson Plan by using Productive Pedagogies Framework. Journal of Engineering Science and Technology. Vol 13 no 5.
7. Ekawati, R. Lin, F-L, Yang, KL, 2018. The Enactment of Mathematics Content Knowledge and Mathematics Pedagogical Content Knowledge in Teaching Practice of Ratio and Proportion: A case of two primary teachers. IOP Conference Series: Materials Science and Engineering.
8. Priyani, H.A & Ekawati, R, 2018. Error analysis of mathematical problems on TIMSS: A case of Indonesian secondary students. IOP Conference Series: Materials Science and Engineering.
9. Ekawati, R, Fiangga, S & Siswono, T.Y.E, 2018. Historical aspect of mathematics on Indonesian mathematics textbook. IOP Conference Series: Materials Science and Engineering
10. Ekawati, R, Kohar, A.W, Imah, E.M, Amin, SM & Fiangga, S, 2019. Students' Cognitive Process in Solving Problem Related to the Concept of Area Conservation. Journal on Mathematics Education Vol 10 No 1.
11. Fouryza, D, Amin, S.M & Ekawati, R, 2019. Designing lesson plan of integer number operation based on fun and easy math (FEM) approach. International Journal of Evaluation and Research in Education.

**Activities in specialist bodies over the last 5 years**

| Organisation                             | Position           | Period    |
|------------------------------------------|--------------------|-----------|
| Indonesian Mathematics Society (INDO-MS) | Financial Director | 2018-2020 |
|                                          |                    |           |
|                                          |                    |           |

Surabaya, 6 December 2019

Roselyna Ekawati