



Curriculum Vitae

Dr. Rida Siti Nur'aini Mahmudah, S.Si., M.Si.



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Unit Kerja : Fakultas MIPA

Status : Tenaga Pendidik

Riwayat Pendidikan :

Program	S1	S2	S3
Nama Perguruan Tinggi	Institut Teknologi Bandung	Institut Teknologi Bandung	Kyushu University
Bidang Ilmu	Fisika	Fisika	Department Applied Quantum Physics and Nuclear Engineering
Tahun Masuk	2002	2006	2008
Tahun Lulus	2006	2008	2011
Judul Skripsi/Tesis/Disertasi	Desain Studi Reaktor Cepat Berpendingin Pb-Bi dengan Uranium Alam sebagai Input dalam Operasinya	Desain Studi Reaktor Cepat Berpendingin Pb-Bi Dengan Strategi Shuffling Menggunakan Uranium Alam	<i>Development of Particle-based Simulation Methods for Multiphase Flows with Solidification</i>
Nama Pembimbing	Prof. Zaki Su'ud	Prof. Zaki Su'ud	Prof. Koji Morita

Keahlian :

Fisika Reaktor Nuklir

Computational Fluid Dynamics

Bidang Pendidikan :

No.	Matakuliah	Semester/Tahun	Strata	Prodi
1.	Electricity and Magnetism Instruments	Genap 2014/2015	S1	Pend.Fisika
2.	Sensor dan Transduser	Gasal 2015/2016	S1	Pend. Fisika
3.	Fisika Inti Lanjut	Gasal 2015/2016	S1	Fisika
4.	Analisis Numerik	Genap 2015/2016	S1	Fisika
5.	Praktikum Analisis Numerik	Genap 2015/2016	S1	Fisika
6.	Fisika Inti	Genap 2015/2016	S1	Pend. Fisika
7.	Praktikum Fisika Inti	Genap 2015/2016	S1	Pend. Fisika
8.	English for Physics 1	Gasal 2016/2017	S1	Pend. Fisika dan Fisika
9.	Fisika Inti Lanjut	Gasal 2016/2017	S1	Fisika
10.	Analisis Numerik	Genap 2016/2017	S1	Fisika
11.	Praktikum Analisis Numerik	Genap 2016/2017	S1	Fisika
12.	Reaksi Nuklir dan Data Nuklir	Genap 2016/2017	S1	Fisika
13.	English for Physics 2	Genap 2016/2017	S1	Pend. Fisika

File Bidang Pendidikan :

-  [rps-analisis-numerik](#)
-  [materi-1-akar-persamaan](#)
-  [materi-2-sistem-persamaan-linier-1](#)
-  [materi-3-sistem-persamaan-linier-2](#)
-  [materi-4-diferensiasi-numerik](#)
-  [rps-fisika-inti](#)
-  [materi-1-pendahuluan](#)
-  [materi-2-struktur-inti-atom](#)
-  [materi-3-radioaktivitas](#)

Bidang Penelitian :

No.	Judul	Sumber Dana	Keterangan
1.	Heat Transfer Problems Verification of Finite Volume Particle (FVP) Method-based Code (Rida SN Mahmudah , Denny Darmawan, Koji Morita)	MIPA	Dipresentasikan pada: The 3 rd International Conference on Research, Implementation and Education of Mathematics and Science, UNY, 16-17 Mei 2016
2.	Preliminary Study of Lead-oxide Cooled Fast Reactor with Natural Uranium As An Input Fuel with Reactor Shuffling Strategy (Rida SN Mahmudah , Zaki Su'ud)	-	Dipresentasikan pada: The 5 th International Conference on Advanced in Nuclear Sciences and Engineering, ITB, 18-20 November 2015



3.	3D Simulations of Solid-melt Mixture Flow with Melt Solidification Using a Finite Volume Particle Method (Rida SN Mahmudah , M. Kumabe, T. Suzuki, L. Guo, K. Morita)	MEXT Japan	Journal of Nuclear Science and Technology, Vol. 48, No.10 (2011) pp 1327-1336
4.	Particle-based Simulations of Molten Metal Flows with Solidification (Rida SN Mahmudah , M. Kumabe, T. Suzuki, L. Guo, K. Morita)	MEXT Japan	Memoirs of the Faculty of Engineering, Kyushu University, Vol.71, No.1 (2011) pp. 17-29
5.	Numerical Simulation of Effective Viscosity in Solid-Fluid Mixture Flows Using Finite Volume Particle Method (T. Suzuki, L. Guo, Rida SN Mahmudah , K. Morita)	MEXT Japan	Dipresentasikan pada: 19th International Conference on Nuclear Engineering (ICONE-19), Chiba, Japan, 24-25 Oktober 2011
6.	3D Simulation of Solid-melt Mixture Flow with Phase Change Using Finite Volume Particle Method (Rida SN Mahmudah , M. Kumabe, W. Torii, I. Miya, T. Takeda, T. Suzuki, L. Guo, K. Morita)	MEXT Japan	Dipresentasikan pada: 7th Korea-Japan Symposium on Nuclear Thermal Hydraulics and Safety (NTHAS7), Chuncheon, Korea, Nov. 14-17, 2010
7.	3D Simulation of Molten Metal Freezing Behavior Using Finite Volume Particle Method (Rida SN Mahmudah , M. Kumabe, T. Suzuki, L. Guo, K. Morita, K. Fukuda)	MEXT Japan	Dipresentasikan pada: 18th International Conference on Nuclear Engineering (ICONE-18), Xicong, China, May 17-21, 2010
8.	Fission Yield Calculation Method and its Effect in Nuclear Fuel Cell Homogenization Calculation (Zaki Suud, M. Ali Safii, Rida SNM)		Indonesian Journal of Physics, Vol. 20, No. 1(2009) pp. 33-36
9.	Feasibility Design Study of Long Life BWR with Natural Uranium/Thorium as Fuel Cycle Input (Zaki Suud, Rizal Kurniadi, Rida SNM , Zuhair)		Indonesian Journal of Physics, Vol. 20, No. 1(2009) pp. 17-20
10.	The Fission Products (FP) Group Constant Treatment For Long Life Pb-Bi Cooled Fast Power Reactors (Zaki Suud, A. Waris, Rida SNM)		Int. Journal of Energy Science and Technology (IJNEST), Vol. 4 no. 3 (2009) pp.201-216
11.	Design Study of Pb-Bi Cooled Fast Reactors Which Fuel Cycle Input is Natural Uranium (Rida SNM and Zaki Suud)		Int. Journal of Energy Science and Technology (IJNEST), Vol. 4 no. 3 (2009) pp. 217-222
12.	The Utilization of Thorium for Long Life Small Thermal Reactors Without On-Site Refueling (Iyos Subki, Asril P, Rida SNM , Zaki S, Eka SR, Muh. Nurul S., Topan, Yuli A., Sedyartomo S)		Progress of Nuclear Energy, Vol. 50 (2008), p. 152-156



13.	Design Study of Long Life Pb-Bi Cooled Reactors With natural Uranium as Fuel Cycle Input Using Radial Fuel Shuffling Strategy (Rida SNM and Zaki S)	-	Dipresentasikan pada: International Conference on Nuclear Science and Engineering (ICANSE-1), Bandung, Indonesia, Nov 14-16, 2007
14	The Utilization of Thorium for Long Life Small Thermal Reactors Without On-Site Refueling (Iyos Subki, Asril Pramutadi, Rida SNM , Zaki Su'ud, Eka Sapta R, Muh. Nurul S. Topan S, Yuli Astuti, Sedyartomo Soentono)	Mandiri	Dipresentasikan pada: 2 nd COE INES International Symposium, Yokohama, Japan, Dec. 27 - 31, 2006

File Bidang Penelitian :

- [utilization-thorium-long-life-small-thermal-reactors-without-site-refueling](#)
- [design-study-long-life-pb-bi-cooled-reactors-natural-uranium-fuel-cycle-input-using-radial-fuel-shuf](#)
- [design-study-pb-bi-cooled-fast-reactors-which-fuel-cycle-input-natural-uranium](#)
- [fission-products-fp-group-constant-treatment-long-life-pb-bi-cooled-fast-power-reactors](#)
- [feasibility-design-study-long-life-bwr-natural-uraniumthorium-fuel-cycle-input](#)
- [fission-yield-calculation-method-and-its-effect-nuclear-fuel-cell-homogenization-calculation](#)
- [3d-simulation-molten-metal-freezing-behaviour-using-finite-volume-particle-method](#)
- [heat-transfer-benchmark-problems-verification-finite-volume-particle-fvp-method-based-code](#)
- [particle-based-simulations-molten-metal-flows-solidification](#)
- [3d-simulations-solid-melt-mixture-flow-melt-solidification-using-finite-volume-particle-method](#)
- [Preliminary Study of Lead-oxide Cooled Fast Reactor with Natural Uranium As An Input Fuel with Reactor Shuffling Strategy](#)
- [Heat Transfer Problems Verification of Finite Volume Particle \(FVP\) Method-based Code](#)

Bidang Pengabdian :

No.	Judul	Sumber Dana	Keterangan
1.	Workshop Pengajaran <i>Active Learning</i> untuk Guru dan Calon Guru Sains, Fisika dan Biologi SMA dan SMP di Yogyakarta dan sekitarnya	AMINEF	Dilaksanakan di FMIPA UNY, bulan April 2015
2.	Pelatihan Perangkat Praktikum Fisika tingkat SMP untuk Mata Pelajaran Listrik Magnet, Optik dan Mekanika	MIPA UNY	Dilaksanakan di SMPN 3 Kalasan, bulan Oktober 2016

File Bidang Pengabdian :

- [workshop-pengajaran-active-learning-untuk-guru-dan-calon-guru-sains-fisika-da-biologi-sma-dan-smp-d](#)