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Bachelor of Science in Mathematics

MODULE HANDBOOK

Name	Dr. Dra. Arnellis, M.Si.		
Expertise	Mathematics		
Academic Career	Initial Academic Appointment	Institution	Year
		Universitas Negeri Padang	1985
Academic Background	1. Post Doctoral	-	-
	2. Doctoral Degree	-	-
	3. Master Degree	UGM Yogyakarta	2003
	4. Undergraduate Degree	IKIP Padang	1985
Employment	Position	Employer	Period
	CPNS (Lecturer)	Universitas Negeri Padang	01/03/1987
	Asisten Ahli (Assistant Professor)	Universitas Negeri Padang	01/01/1993
	Lektor (Assistant Professor)	Universitas Negeri Padang	01/10/2000
Research and development projects over the last 5 years	Source : PNBP UNP Title : Pengembangan <i>Hypothetical Learning Trajectory</i> Kalkulus Berbasis <i>High Order Thinking Skills</i> dengan Pendekatan <i>Realistic Mathematics Education</i> Siswa SMA Kota Padang (Tahun 1 dari 2 tahun) Period : 2017 Research Team : Arnellis, Suherman, Total Funding : IDR 52.000.000		
	Source : PNBP UNP Title : Pengembangan <i>Learning Trajectory</i> Kalkulus Berbasis <i>High Order Thinking Skills</i> dengan Pendekatan <i>Realistic Mathematics Education</i> Siswa SMA Kota Padang (Tahun 2 dari 2 tahun) Period : 2018 Research Team : Arnellis, Suherman, Nonong Amalita Total Funding : IDR 50.000.000		
	Source : PNBP UNP Title : Implementasi Keterampilan Abad 21 Terhadap Kemampuan Berpikir Matematis Tingkat Tinggi Siswa SMA Kota Padang Period : 2019 Research Team : Ali Asmar, Arnellis, Riry Sriningsih Total Funding : IDR 40.000.000		

Industry collaborations over the last 5 years	<p>1. Project Title: Penguatan Materi Olimpiade untuk Peningkatan Profesionalisme Guru MGMP SMP Kabupaten Agam Wilayah Barat Tahun 2017 Partners : Guru MGMP Matematika SMP Kabupaten Agam Barat</p>				
	<p>2. Project Title: Pelatihan Penyusunan Soal Olimpiade Matematika Berbasis High Order Thinking Skills Sebagai Upaya Peningkatan Kompetensi Guru Matematika SMP Kabupaten Pesisir Selatan, Tahun 2017 Partners : Guru MGMP Matematika SMP Kabupaten Pesisir Selatan</p>				
	<p>3. Project Title: In House Training Sekolah Rujukan SMAN 1 Lubuk Alung pada 29 September 2017 Partners: Guru –guru Rujukan SMA Kabupaten Padang Pariaman</p>				
	<p>4. Project Title: Workshop Peningkatan Kompetensi Guru MGMP Matematika Abad 21 Melalui Pelatihan Olimpiade Matematika Berbasis High Order Thinking Skills di SMP Kabupaten Solok Selatan Tahun 2018 Partners: Guru MGMP Matematika SMP Kabupaten Solok Selatan</p>				
	<p>5. Project Title: In House Training Sekolah Rujukan SMAN 10 Padang pada tanggal 22 September 2018 Partners: Guru-guru Rujukan SMAN 10 Padang</p>				
	<p>6. Project Title: In House Training Pembelajaran Berbasis STEM Zonasi SMAN 2 Payakumbuh pada tanggal 9 Agustus 2019 Partners: Guru-guru Zonasi SMAN 2 Payakumbuh</p>				
	<p>7. Project Title: Pembelajaran Berbasis HOTS Zonasi SMAN 2 Padang pada tanggal 19 Oktober 2019 Partners: Guru-guru Zonasi SMAN 2 Padang</p>				
Patents and proprietary rights	<table border="1"> <thead> <tr> <th data-bbox="443 1314 1312 1346">Title</th> <th data-bbox="1312 1314 1492 1346">Year</th> </tr> </thead> <tbody> <tr> <td data-bbox="443 1346 1312 1430">1. Published book: Aljabar dan Trigonometri Writer : Dra. Arnellis,M.Si</td> <td data-bbox="1312 1346 1492 1430">2016</td> </tr> </tbody> </table>	Title	Year	1. Published book: Aljabar dan Trigonometri Writer : Dra. Arnellis,M.Si	2016
Title	Year				
1. Published book: Aljabar dan Trigonometri Writer : Dra. Arnellis,M.Si	2016				
Important publications over the last 5 years	<p style="text-align: center;">Selected recent publications form a total of approx.:</p> <p>1. Learning Trajectory Differential With High Order Thinking Skills Using Realistic Mathematics Education. , ICM2E 2017. https://www.atlantispress.com/proceedings/icm2e-17</p> <p>2. Using Learning Trajectory Real Function Based on Realistic Mathematics Education to Increase High Order Thinking Skills of The Students' at SMAN 10 Padang. ICM2E 2018. https://www.atlantispress.com/proceedings/icm2e-18</p> <p>3. Olympiad Material Development for Improving of Teacher Professionalism MGMP SMP regency of Agam West Region. Pelita Eksakta. http://pelitaeksakta.ppj.unp.ac.id/index.php/pelitaeksakta/article/download</p>				

4. Efforts to Improve Mathematics Teacher Competency Through Training Program on Design Olympiad Mathematics Problems Based on Higher Order Thinking Skills in The Junior High School. IOP Conference Series: Materials Science and Engineering. https://iopscience.iop.org/article/10.1088/1757-899X/335/1/012118/pdf
5. Improving Teacher Professionalism Through In House Training Model To Higher Order Thinking Skills Items SMAN 10 Refference Padang. Pelita Eksakta. http://pelitaeksakta.ppj.unp.ac.id/index.php/pelitaeksakta/article/download/65/50
6. Needs analysis development of mathematics learning device based on 21st century skills in senior high school. 2nd International Conference on Mathematics and Mathematics Education 2018. https://www.atlantispress.com/proceedings/icm2e-18
7. Implementasi Learning Trajectory Kalkulus Berbasis Realistic Mathematics Education Untuk Meningkatkan Kemampuan Berpikir Matematis. Menara Ilmu. https://jurnal.umsb.ac.id/index.php/menarailmu/issue/view/106
8. Modified For The Pascal Triangle Multinomial. International Conference on Education, Science and Technology 2019. doi:10.1088/1742-6596/1387/1/012145
9. Improving Mathematical Teachers Competency 21th Through Workshop Development Of Mathematical Olympic Problems Based On High Order Thinking Skills In SMP Solok Selatan District. Pelita Eksakta 2 (2), 109-114

Activities in specialist bodies over the last 5 years (<i>Membership without a specific role</i>)	Organization	Rol	Period