



UNIVERSITAS NEGERI PADANG

FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM
 JURUSAN MATEMATIKA PROGRAM STUDI PENDIDIKAN
 MATEMATIKA

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Bachelor of Education in Mathematics

STAFF HANDBOOK

Name	Dr. Ali Asmar, M.Pd		
Post	Geometry Mathematics Education		
Academic career	Initial academic appointment	Institution	Year
		Universitas Negeri Padang	2013
Academic Background	1. Undergraduated Degree	Universitas Muhammadiyah Sumatera Barat	1988
	2. Master Degree	Universitas Negeri Padang	2004
	3. Doctoral Degree	Universitas Negeri Padang	2012
Employment	Position	Employer	Period
	Lecturer	Universitas Negeri Padang	2013-Now
Research and development projects over the last 5 years	1. <i>Name of project or research focus :</i> “Penerapan Keterampilan Abad 21 terhadap Kemampuan Berpikir Matematis Tingkat Tinggi Siswa SMA Kota Padang” <i>Period : 2018</i> <i>Partners : PNPB UNP</i> <i>Amount of financing : IDR 40.000.000,-</i>		
	2. <i>Name of project or research focus :</i> “Penerapan Keterampilan Abad 21 terhadap Kemampuan Berpikir Matematis Tingkat Tinggi Siswa SMA Kota Padang” <i>Period : 2019</i> <i>Partners : PNPB UNP</i> <i>Amount of financing : IDR 40.000.000,-</i>		

Industry collaborations or community services over the last 5 years	<p>1. <i>Project title:</i></p> <p>PPM Training Use of Software Autograph on Material Transformation Geometry for Teachers High school math Adabiah Padang (2017)</p> <p><i>Partners: STKIP PGRI Padang</i></p>	
	<p>2. <i>Project title:</i></p> <p>Improvement Workshop Teacher Competence MGMP 21st Century Mathematics Through training Olympic Math Based High Order Thinking Skills in Junior High South Solok Regency (2018)</p> <p><i>Partners: PNPB UNP</i></p>	
	<p>3. <i>Project title:</i></p> <p>Socialization Learning Media Math For Material Build Flat on SDN 14 Tabing Banda Gadang Padang (2018)</p> <p><i>Partners: STKIP PGRI</i></p>	
Patents and proprietary rights	Title	Year
	<p>1. <i>Asmar, ali.</i> Development of Guided Invention-Based Learning Tools to improve Students' Understanding of Mathematical Concepts in Class VII Social Arithmetic Materials at MTsN Gurun Panjang.</p>	2017
	<p>2. <i>Asmar, ali.</i> Descriptive Student Difficulties in Analytic Geometry Courses in Parabolic and Hyperbolic Material.</p>	2017
Important publications over the last 5 years	<p>1. <i>Asmar, ali.(2016).</i> Development Handout Based on Constructivism in Learning Mathematical at Fifth Class of Elementary School. ASEAN Comparative Education Research Network Conference, 90-98. http://repository.unp.ac.id/26378/1/7.%20Development%20Handout 1.pdf</p>	
	<p>2. <i>Asmar, Ali.(2017).</i> <i>Analysis of Student Difficulties in Solving Problems of Analytical Geometry in Parabolic and Hiperbolic Materials. International Conference on Mathematics and Mathematics Education (ICM2E 2017).</i>pg 12-17. http://repository.unp.ac.id/26344/1/6%20Prosiding%20ICM2E%202017 .pdf</p>	
	<p>3. <i>Alindra, Dini.dkk.(2018).</i> <i>Metacognitive Awareness and Its Effect on Student's Problem Solving Ability in Implementing RME Approach.</i> Atlantis Press, Vol. 178. pg 318-322.</p>	

	http://repository.unp.ac.id/26341/1/2%2055912925.pdf
4.	Asmar, Ali.dkk. (2018). <i>Needs Analysis Development of Mathematics Learning Device Based On 21st Century Skills In Senior High School</i> . Atlantis Press, vol. 285. pg 34-38. http://repository.unp.ac.id/26341/1/2%2055912925.pdf
5.	Asmar, Ali and Hafizah Delyana. (2018). <i>Development of Constructivity Learning Materials Using Problem-Based Learning Models in Fifth Class of Elementary School</i> .Malaysia: International Conference on Education, Mathematics & Science 2018. http://repository.unp.ac.id/26379/1/8%20Development%20of%20Constructivity.pdf
6.	I, Irwan. Dkk, 2018. <i>Pengembangan Perangkat Pembelajaran Berbasis Pendekatan Pembelajaran Berbasis Pendekatan Model Eliciting Activities (MEAS) untuk Meningkatkan Kemampuan Matematis Siswa Kelas X SMA Negeri Kota Padang</i> . Padang:UNP. http://repository.unp.ac.id/29151/1/1_331_lapakh_laporanakhirirwan.pdf
7.	Asmar, Ali.dkk. 2018. <i>The Development of Mathematical Learning Material Based on Model-Eliciting Activities (MEAs) Approach to Improve Mathematical Problem-Solving Skill of Students of Grade X of Senior High School Padang</i> . <i>Journal of Physics: Conference Series</i> . Padang: IOP Publishing.
8.	Raffles, H,dkk. 2018. <i>A Strategy of Human Resources Pass Through the Education and Training</i> . Adabi: Journal of Public Administration and Business.
9.	Asmar, Ali,dkk. 2018. <i>Learning Tools Based on Connecting, Organizing, Reflecting and Extending (Core) Models for Class VIII Small Classes Valid</i> . Atlantis Press. https://www.atlantis-press.com/article/55909516.pdf
10.	Arnellis,A.dkk. 2019. <i>Improving Mathematical Teachers Competency 21th Through Workshop Development of Mathematical Olympic Problems Based On High Order Thinking Skills in SMP Solok Selatan District</i> . Pelita Eksakta. http://pelitaeksakta.ppj.unp.ac.id/index.php/pelitaeksakta/article/download/59/57
11.	Asmar, Ali.dkk. 2020. <i>Perceptions of Student about Use of Classical Learning Models Using Power Points</i> . <i>Journal of Physics: Conference Series</i> . https://iopscience.iop.org/article/10.1088/1742-6596/1429/1/012001/pdf

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| <p>12. Asmar, Ali,dkk. 2020. <i>Improvement Students' Problem Solving Ability Through Problem Centered Learning (Pcl)</i>. International Journal of Scientific & Technology Research.
 http://repository.unp.ac.id/26405/1/Improvement-Students-Problem-Solving-Ability-Through-Problem-Centered-Learning.pdf</p> |
| <p>13. Asmar, Ali. Dkk. 2020. <i>Hubungan Kemandirian Belajar Terhadap Kemampuan Berfikir Kritis Melalui Penggunaan Software Geogebra</i>. AKSIOMA: Jurnal Program Studi Pendidikan Matematika.
 http://repository.unp.ac.id/27502/1/ALI%20ASMAR%202758-8368-1-PB.pdf</p> |
| <p>14. Asmar, Ali.dkk. 2020. <i>Development of Mathematics Learning Tools based on RME Approach to Improve Mathematical Communication Skills of Class VIII Students in Junior High Schools</i>. International Journal of Progressive Sciences and technologies.
 http://ijpsat.es/index.php/ijpsat/article/download/1544/828</p> |
| <p>15. Afriani,E.dkk. 2020. <i>The Development of Device Learning Based on Contextual teaching and Learning Improve Mathematical Communication Skills Class VII</i>. Journal of Physics: Conference Series.
 https://iopscience.iop.org/article/10.1088/1742-6596/1554/1/012041/pdf</p> |
| <p>16. Hakim,RP.dkk. <i>The Preliminary Research Phases of Learning Devices Based Guided Discovery Development to Improve the Students' Problem Solving Ability of Grade VII MTS/SMP</i>. Journal of Physics: Conference Series.
 https://iopscience.iop.org/article/10.1088/1742-6596/1554/1/012036/pdf</p> |
| <p>17. Zarista,RH.dkk. 2020. <i>The Validity of Mathematic Learning Device Based on Learning Cycle to Improve Reasoning Abilities of Junior High School's Students</i>. Journal of Physics: Conference Series.
 https://iopscience.iop.org/article/10.1088/1742-6596/1554/1/012031/pdf</p> |
| <p>18. Asmar, Ali.dkk. 2020. <i>Analysis of Student Error in Completion Analytical Geometry Problems in Circle and Sphere Material</i>. Journal of Physics: Conference Series.
 https://iopscience.iop.org/article/10.1088/1742-6596/1554/1/012037/pdf</p> |
| <p>19. Asmar, Ali,dkk. 2020. <i>Implementation of the 21st Century Skills to High Order Thinking Students' Mathematical in Senior High School Padang</i>. Journal of Physics : Conference Series.
 https://iopscience.iop.org/article/10.1088/1742-6596/1554/1/012080/pdf</p> |

20. Asmar, Ali.dkk.2020. *The Effect of Problem Centered Learning (PCL) Approach to Critical Thinking Skills of Class XI MAS Tanah Datar District*. Jurnal Pendidikan Matematika RAFA.
<http://jurnal.radenfatah.ac.id/index.php/jpmrafa/article/download/4579/3005>

21. Emina, Amelya Sri,dkk. 2020. *Analysis of Mathematics Representation Abilities Based on Prior Knowledge and Learning Styles*. Atlantis Press.
<https://download.atlantis-press.com/article/125948006.pdf>

	Organization	Role	Period
Activities in specialist bodies over the last 5 years (<i>Membership without a specific role need not be mentioned</i>)	1.		