

STAFF HANDBOOK



Name	Prof. Dr. Budi Jatmiko, M.Pd.		
Position	<i>Lecturer of Innovative Learning Professor in Physics Department, Universitas Negeri Surabaya, Indonesia</i>		
Academic Career	Degree	University	Year
	<i>Bachelor Program at Physics Education Study Program</i>	<i>IKIP Surabaya-Indonesia</i>	<i>1979 – 1985</i>
	<i>Master Program at Physics Education Study Program</i>	<i>IKIP Jakarta-Indonesia</i>	<i>1985 – 1990</i>
	<i>Doctor Program at Physics Study Program</i>	<i>Universitas Airlangga-Indonesia</i>	<i>1992 – 1997</i>
	<i>Government Employer at Ministry of Research, Technology and Higher Education as a Lecturer Institution (now Ministry of Education and Culture)</i>	<i>Universitas Negeri Surabaya-Indonesia</i>	<i>1985-now</i>
Employment	Position	Employer	Period
	<i>Lecturer on Physics Education Study Program</i>	<i>Universitas Negeri Surabaya - Indonesia</i>	<i>1985-now</i>
	<i>Lecturer on Postgraduate Study Program</i>	<i>Universitas Negeri Surabaya - Indonesia</i>	<i>1998-now</i>
	<i>Professor in Physics Department</i>	<i>Universitas Negeri Surabaya - Indonesia</i>	<i>2009-Now</i>
	<i>Head of Puskom</i>	<i>Universitas Negeri Surabaya - Indonesia</i>	<i>1998-2003</i>
	<i>Senate of University</i>	<i>Universitas Negeri Surabaya - Indonesia</i>	<i>2003-now</i>
	<i>Dean of Faculty of Mathematics and Natural Sciences</i>	<i>Universitas Negeri Surabaya - Indonesia</i>	<i>2003-2006</i>
	<i>Vice Rector I</i>	<i>Universitas Negeri Surabaya - Indonesia</i>	<i>2006-2010</i>
	<i>Director of STIKOM Surabaya</i>	<i>STIKOM Surabaya -Indonesia</i>	<i>2011-2014</i>
	<i>Rector of Institut Bisnis dan Informatika Stikom Surabaya.</i>	<i>Institut Bisnis dan Informatika Stikom Surabaya -Indonesia</i>	<i>2014-2019</i>

	<i>Rector of Universitas Dinamika</i>	<i>Universitas Dinamika - Indonesia</i>		<i>2019-Now</i>
	<i>Assessor of PAK</i>	<i>Kemendikbud, Indonesia</i>		<i>2017-now</i>
Research and Development Project Over the Last 5 Years	Title	Funder	Year	Amount of Financing (million)
	<i>Physics Learning Web-Based Digital Learning to Improve Critical Thinking Skills of Physics Education Students: Optimizing MBKM in Higher Education</i>	<i>Penelitian Dasar Unggulan Perguruan Tinggi (On Going)</i>	<i>2023</i>	<i>257,618</i>
	<i>Science Learning Based on Socio Scientific Issues (SSI) Assisted by Mobile Multimedia Interactive (MMI) to Improve Students' Science Literacy Skills.</i>	<i>Penelitian Kebijakan FMIPA</i>	<i>2023</i>	<i>20</i>
	<i>Development of the HOPS (Heuristic Oriented Problem Solving) Model in Chemistry Learning to Train Senior High School Student Problem Solving Skills</i>	<i>DRTPM</i>	<i>2023</i>	<i>50,4</i>
	<i>Development of a Data Literacy-Based Science Learning Model to Improve Student Scientific Reasoning</i>	<i>DRTPM</i>	<i>2023</i>	<i>51</i>
	<i>Physics Learning Web-Based Digital Learning to Improve Critical Thinking Skills of Physics Education Students: Optimizing MBKM in Higher Education</i>	<i>Penelitian Dasar Unggulan Perguruan Tinggi</i>	<i>2022</i>	<i>200</i>
	<i>The Investigation-Based Multiple Representation Online (IBMRO) Model to improve the Problem Solving Skills of Physics Education Students. (chairman of research)</i>	<i>Penelitian Dasar LPPM</i>	<i>2022</i>	<i>50</i>
	<i>Development of the MBKM Entrepreneurship Model Book to Produce Startups for Alternative Students to Improve Students' Creative Competence Post the Covid-19 Pandemic.</i>	<i>Penelitian Kompetitif Dasar FMIPA</i>	<i>2022</i>	<i>20</i>
	<i>Development of the Unesa Chancellor's Regulation on the Code of Ethics for Lecturers, Academic Ethics and Planning for Unesa PTN-BH</i>	<i>Penelitian PNB(Penelitian Kebijakan Strategis Univ (PTNBH))</i>	<i>2021</i>	<i>50</i>
	<i>Development of Microcontroller Education KIT as Learning Media for</i>	<i>Penelitian PNB(Penelitian Kebijakan FMIPA)</i>	<i>2021</i>	<i>20</i>

	<i>Microprocessor and Microcontroller Courses(chairman of research)</i>			
	<i>The OR-IPA Online Model to Improve Students' Critical Thinking Skills: An Alternative to Online Lectures in the Era of the Covid-1 Pandemic (Chairman of Research)</i>	<i>Penelitian Kompetitif LPPM Dana PNBP (Guru Besar)</i>	<i>2020</i>	<i>40</i>
	<i>Development of the Blended Web Mobile Learning (BWML) Model to Improve HOTS-Based Learning Outcomes for High School Students. (chairman of Research)</i>	<i>LPDP Research Project</i>	<i>2019</i>	<i>189</i>
	<i>Collaborative Physics Learning (CTL) Model to Improve Student Collaborative and Problem Solving Ability</i>	<i>Penelitian Guru Besar Dana PNBP FMIPA</i>	<i>2019</i>	<i>40</i>
	<i>The Effectiveness of the Creative Responsibility Based Learning (CRBL) Model and the C3PDR Learning Model to Increase the Scientific Creativity of Science Education Students</i>	<i>Penelitian Dana PNBP Pascasarjana UNESA</i>	<i>2018</i>	<i>50</i>
	Title	Funder	Year	Amount of Financing (million)
Community Service Over The Last 5 Years	<i>Provision of Household-Scale Consumption Water for Communities in Tarokan Village, Kab. Kediri, East Java</i>	<i>BOPTN FMIPA UNESA</i>	<i>2018</i>	<i>7,5</i>
	<i>Scientific Writing Preparation Training for High School Science Subject Teachers in the District</i>	<i>PNBP Pascasarjana</i>	<i>2019</i>	<i>15</i>
	<i>Parabolic Antenna Installation Assistance, Satellite Signal Position Tracking, TV Program Tracking, and Digital Information Sorting Education for Communities in Mojokerto Regency</i>	<i>PNBP FMIPA UNESA</i>	<i>2019</i>	<i>7,5</i>
	<i>Online Workshop for Creating Scientific Content on COVID-19 Info at the Physics Department, Surabaya State University</i>	<i>PKM Kebijakan FMIPA</i>	<i>2020</i>	<i>7</i>
	<i>Training on making Herbal-based Health Drinks for Foster Village residents in Gresik Regency</i>	<i>PKM Penugasan Pascasarjana</i>	<i>2020</i>	<i>20</i>

	<i>Training on Preparation of Minimum Competency Assessment (AKM) for High School Science Subject Teachers in Nganjuk Regency</i>	<i>PKM Penugasan Pascasarjana</i>	<i>2021</i>	<i>15</i>
	<i>Training on Processed Chili Products During the Covid-19 Pandemic for PKK Women in Iker-Iker Village, Cerme District, Gresik Regency, East Java</i>	<i>PKM Penugasan FMIPA</i>	<i>2021</i>	<i>10</i>
	<i>Training for Writing Higher Order Thinking Skills (HOTS) Questions for High School Science Subject Teachers in Gresik Regency</i>	<i>PKM Penugasan Pascasarjana</i>	<i>2022</i>	<i>15</i>
	<i>Training on Making High School Physics Practicum Tools on Dynamic Electricity Based on Scientific Argumentation Skills for High School Physics Teachers throughout Sidoarjo Regency</i>	<i>PKM Penugasan FMIPA</i>	<i>2022</i>	<i>10</i>
	<i>Training on Writing Questions Based on Higher Order Thinking Skills (HOTs) for High School Science Subject Teachers at the Indonesian School in Davao, Philippines</i>	<i>PKM FMIPA</i>	<i>2023</i>	<i>10</i>
	<i>Improvement of Scientific Publication Competency for Masters and Doctoral Students Scholarship LPDP Unesa Village</i>	<i>PKM FMIPA</i>	<i>2023</i>	<i>10</i>
Industry Collaborations Over the Last 5 Years	Title	Partner	Year	
Patents and Property Right	Title	Patent ID	Year	
	<i>Buku "Perangkat Pembelajaran Fisika Umum Berorientasi KKNI (RPS, SAP, LKM, dan INSTRUMEN THB)"</i>	<i>(Hak Cipta: EC10201600520)</i>	<i>2016-2066</i>	
	<i>Buku "Buku Prototipe Kurikulum Pendidikan Sains Berorientasi KKNI Edisi 2"</i>	<i>(Hak Cipta: EC10201600519)</i>	<i>2016-2066</i>	
	<i>Model Physics Independent Learning (PIL)</i>	<i>(Hak Cipta: EC00201700960)</i>	<i>2017-2067</i>	
	<i>Prototipe Buku Materi Pokok Praktikum Di Program S1 PGSD; Model Physics Independent</i>	<i>(Hak Cipta: EC00201700962)</i>	<i>2017-2067</i>	

<i>Learning (PIL); Kelistrikan Dan Kemagnetan</i>		
<i>Perangkat Model Physics Independent Learning</i>	<i>(Hak Cipta: EC00201700961)</i>	<i>2017-2067</i>
<i>Buku Model Physics Independent Learning</i>	<i>(ISBN-978-602-6691-03-3)</i>	<i>2017</i>
<i>Bahan Ajar Mahasiswa Fisika Dasar Model Problem Based Learning</i>	<i>(ISBN-978-602-6691-23-1.)</i>	<i>2017</i>
<i>Perangkat Pembelajaran Fisika Dasar Berbasis Orientasi IPA.</i>	<i>(ISBN-978-602-6691-24-8)</i>	<i>2017</i>
<i>Buku Model Scientific Hybrid Learning Menggunakan Aplikasi Brilian</i>	<i>(Hak Cipta: EC00201858576)</i>	<i>2018 – 2067</i>
<i>Lembar Kegiatan Mahasiswa Pembelajaran Inovatif Scientific Hybrid Learning Mata Kuliah Matematika Bisnis</i>	<i>(Hak Cipta: EC00201858577)</i>	<i>2018 – 2067</i>
<i>Modul Pembelajaran Inovatif Model Shl Scientific Hybrid Learning Mata Kuliah Matematika Bisnis</i>	<i>(Hak Cipta: EC00201858579)</i>	<i>2018 – 2067</i>
<i>Buku Model Collaborative Physics Solving (CPS) Untuk Meningkatkan Kemampuan Pemecahan Masalah Dan Kolaboratif Mahasiswa</i>	<i>(Hak Cipta: EC00201984124)</i>	<i>2019 – 2069</i>
<i>Perangkat Pembelajaran Berbasis Model Collaborative Physics Solving (CPS) Untuk Meningkatkan Kemampuan Pemecahan Masalah Dan Kolaboratif Mahasiswa</i>	<i>(Hak Cipta: EC00201984125)</i>	<i>2019 – 2069</i>
<i>Buku Model Blended Web Mobile Learning (BWML)</i>	<i>(Hak Cipta: EC00201975887)</i>	<i>2019 – 2069</i>
<i>Buku Konsep Dasar IPA SD berbasis model ARICESA (Attention, Relevance, Inquiry, Confidence, Enjoyment, Satisfaction, dan Self-Assessment).</i>	<i>(Hak Cipta : 000131930)</i>	<i>2019 – 2069</i>
<i>Buku Model ARICESA (Attention, Relevance, Inquiry, Confidence, Enjoyment, Satisfaction, dan Self-Assessment)</i>	<i>(Hak Cipta : 000131927)</i>	<i>2019 – 2069</i>
<i>Lembar Kerja Mahasiswa Konsep Dasar IPA SD berbasis model ARICESA (Attention, Relevance, Inquiry, Confidence, Enjoyment, Satisfaction, dan Self-Assessment),</i>	<i>(Hak Cipta : 000131928)</i>	<i>2019 – 2069</i>

	<i>Model CTBL (Critical Thinking Blended Learning) Untuk Meningkatkan Keterampilan Berpikir Kritis Siswa Dalam Pembelajaran IPA Di SMP</i>	(Hak Cipta : 000190409)	2020-2070
	<i>Bahan Ajar Siswa Berbasis Edmodo Pada Materi Suhu Dan Kalor Kelas VII SMP/MTs.</i>	(Hak Cipta : 000190577)	2020-2070
	<i>Model Critical Thinking-Independent Learning (CTIL): Dilengkapi Bentuk Operasional Pembelajaran Di Kelas</i>	(Hak Cipta) 000477271 / EC00202344343,	2023-2073
	<i>Buku Suhu Dan Kalor Berbasis Model Critical Thinking-Independent Learning (CTIL)</i>	(Hak Cipta) 000477268/ EC00202344340,	2023-2073
	<i>Buku Model Critical Thinking-Independent Learning (CTIL)</i>	(Hak Cipta) 000477270/ EC00202344342	2023-2073
Important Publications Over the Last 5 Years	1. Suyidno,, Nur, M, Yuanita, L, Prahani, BK, Jatmiko, B. (2018). Effectiveness of creative responsibility based teaching (CRBT) model on basic physics learning to increase student's scientific creativity and responsibility. <i>Journal of Baltic Science Education (JBSE)</i> Vol. 17, No. 1, 2018, pp. 136-151., ISSN: 1648-3898,		
	2. Jatmiko, B, Prahani, BK, Munasir,, Supardi, IZA, Wicaksono, I, Erlina, N, Pandiangan, P, Althaf, R, Zainuddin. (2018). The comparison of OR-IPA teaching model and problem based learning model effectiveness to improve critical thinking skills of pre-service physics teachers. <i>Journal of Baltic Science Education (JBSE)</i> Vol. 17, 2018, ISSN: 1648-3898		
	3. Siswanto, J, Susantini, E, Jatmiko, B. (2018) Practicality and effectiveness of the IBMR teaching model to improve physics problem solving skills. <i>Journal of Baltic Science Education (JBSE)</i> Vol. 17, 2018, ISSN: 1648-3898,		
	4. B. Jatmiko, K.H. Sugiyarto and J. Ikhsan. (2018) Developing ChemonDro Application on Redox Concepts to Improve Self-Regulated Learning of Students. <i>Journal of Physics: Conference Series</i> (2018) . Vol 1097		
	5. R Sujanem, S. Poedjiastuti and B. Jatmiko. (2018). The Effectiveness of problem-based hybrid learning model in physics teaching to enhance critical thinking of the students of SMAN. <i>Journal of Physics: Conference Series</i> (2018). Vol. 1040. <i>International Conference on Mathematics and Natural Sciences (IConMNS 2017)</i> 6–7 September 2017, Bali, Indonesia		
	6. E K Nisa, T Koestiari, M Habibullohmand B. Jatmiko . (2018). Effectiveness of guided inquiry learning model to improve students' critical thinking skills at senior high school. <i>Journal of Physics: Conference Series.</i> (2018). Vol 997.		
	7. J Siswanto, E Susantini and B Jatmiko. (2018). Multi-representation based on scientific investigation for enhancing students' representation skills. <i>Journal of Physics: Conference Series.</i> 2018. Vol 983.		
	8. A S D Sari, B K Prahani, Munasir and B Jatmiko. (2018). The improvement of students physics problem solving skills through the implementation of PO2E2W learning model assisted PhET media. <i>Journal of Physics: Conference Series.</i> (2018). Vol. 1108		
	9. P A D Sulistyowarni, B K Prahani, Z A I Supardi and B Jatmiko. (2019). The effectiveness of OR-IPA teaching model to improve students' critical thinking skills on senior high school physics subject. <i>Journal of Physics: Conference Series.</i> (2019). Vol. 1157, Issue 3		

10. M I Mashluhah, B K Prahani, S Suryanti and B Jatmiko . (2019). The effectiveness of OrDeP2E learning model to train the natural science problem-solving skills of primary school students. <i>Journal of Physics: Conference Series</i> .(2019). Vol 1157, Issue 2.
11. S Pratiwi, B K Prahani, S Suryanti and B Jatmiko.(2019). The effectiveness of PO2E2W learning model on natural science learning to improve problem solving skills of primary school students. <i>Journal of Physics: Conference Series</i> .(2019). Vol 1157, Issue 3
12. R. Setiyani, I. G. M. Sanjaya, B. Jatmiko ,. (2019). ARICESA as an Alternative Learning Model to Improve Learning Motivation and Understanding of Student Concepts. <i>International Journal of Instruction</i> Vol. 12 No. 2, 2019, e-ISSN: 1308-1470, p-ISSN: 1694-609X,
13. Prahani, B.K, Jatmiko, B. , Hariadi, B. .Amelia, T., Lemantara, J. (2020). Blended web mobile learning (BWML) model to improve students' higher order thinking skills. <i>International Journal of Emerging Technologies in Learning</i> , 2020, 15(11), pp. 42–55. (Scopus Q2)
14. RW Akhdinirwanto, R Agustini, B Jatmiko .(2020). Problem-Based Learning with Argumentation as a Hypothetical Model to Increase the Critical Thinking Skills for Junior High School Students. <i>Jurnal Pendidikan IPA Indonesia</i> .
15. B. K. Prahani, A. H. Ramadani, D. H. Kusumawati, N. Suprpto, Madlazim, B. Jatmiko , Z. A. I. Supardi, H. Mubarak, S. Safitri, U.A. Deta. (2020). ORNE Learning Model to Improve Problem-Solving Skills of Physics Bachelor Candidates: An Alternative Learning in the Covid-19 Pandemic. <i>Jurnal Penelitian Fisika dan Aplikasinya (JPFA)</i> .
16. M.A. Ahaddin, B. Jatmiko , Z. A. I. Supardi. (2020). The Improvement of Critical Thinking Skills of Primary School Students Through Guided Inquiry Learning Models with Integrated Peer Instructions. <i>Studies in Learning and Teaching</i> .
17. I. F. Alfiyanti, B. Jatmiko . The Effectiveness of Predict Observe Explain (POE) Model with PhET to Improve Critical Thinking Skills of Senior High School Students. <i>Studies in Learning and Teaching</i> .
18. M. Nirwana, M. Nur, B. Jatmiko . (2021). The Problem-Solving Skills Profile of Tsanawiyah Islamic School Students in the Vibration, Wave, and Sound Learning Materials. <i>IJORER: International Journal of Recent Educational Research</i> ..
19. B. Jatmiko . (2021). Keefektifan Pembelajaran Daring Fisika SMA berbasis Probing Prompting untuk Meningkatkan Keterampilan Berpikir Kritis Peserta Didik. <i>PENDIPA Journal of Science Education</i> .
20. B. Hariadi, MJ Sunarto, T. Sagirani, T. Amelia, J. Lemantara, B. K. Prahani, B. Jatmiko . (2021). Higher Order Thinking Skills for Improved Learning Outcomes Among Indonesian Students: A Blended Web Mobile Learning (BWML) Model. <i>International Journal of Interactive Mobile Technologies</i> .
21. B Jatmiko , E Hariyono, NA Lestari, BK Prahani. (2021). MobLen Model for Enhancing Scientific Creativity of Physics Students: An Alternative in the Covid-19 Pandemic. <i>Journal of Physics: Conference Series</i> .
22. A. Y. Adhim, B. Jatmiko , T. Prastowo. (2021). Physics Teacher's Misconceptions About Direct Current Material. <i>IJORER: International Journal of Recent Educational Research</i> .
23. M. N. Fita, B. Jatmiko , E. Sudibyo. (2021). The Effectiveness of Problem Based Learning (PBL) Based Socioscientific Issue (SSI) to Improve Critical Thinking Skills. <i>Studies in Learning and Teaching</i> .
24. V. Y. N. Laili, B. Jatmiko , N. Suprpto. (2021). Analisis Validitas Perangkat Pembelajaran Ipa Model Creative Problem Solving Dengan Metode Eksperimen Untuk Melatih Higher Order Thinking Skills (HOTS) Siswa Sekolah Dasar. <i>Jurnal Education And Development</i> .
25. F Azura, B Jatmiko , M Ibrahim, E Hariyono, BK Prahani. (2021). A Profile of Scientific Literacy of Senior High School Students on Physics Learning. <i>Journal of Physics: Conference Series</i> .

	26. B Jatmiko , BK Prahani, N Suprpto, S Admoko, UA Deta, NA Lestari, MNR Jauharyah, M Yantidewi, D Mulyati. (2021). <i>Bibliometric Analysis on Online Physics Learning during COVID-19 Pandemic: Contribution to Physics Education Undergraduate Program</i> . <i>Journal of Physics: Conference Series</i> .		
	27. B Jatmiko , T Sunarti, BK Prahani, E Hariyono, FC Wibowo, S Mahtari, M Asy'ari. (2021). <i>Critical Thinking Skills on Physics Learning during COVID-19 Pandemic: A Bibliometric Analysis using VOSViewer</i> . <i>Journal of Physics: Conference Series</i> .		
	28. B. Jatmiko , B. Yonata. (2021). <i>The Diagnosis of Misconception on The Concept of Acid-Base Theory in Prospective Teacher Students Used a Three-Tier Test</i> . <i>Journal of Physics: Conference Series</i> .		
	29. Hariadi, B., Sunarto, M.J.D., Sagirani, T., Prahani, B.K., Jatmiko, B. (2021). <i>Higher Order Thinking Skills for Improved Learning Outcomes Among Indonesian Students: A Blended Web Mobile Learning (BWML) Model</i>		
	30. <i>International Journal of Interactive Mobile Technologies</i> , 2021, 15(7), pp. 4–16 (Scopus Q3)		
	31. B. K. Prahani, B. Jatmiko , B. Hariadi, M. J. D. Sunarto, T. Sagirani, T. Amelia (2021). <i>Development Blended Web Mobile Learning Model on COVID-19 Pandemic</i> . <i>TEM Journal</i> , 10(4), 1879-1883 (Scopus Q3)		
	32. B. Jatmiko . (2022). <i>Web Learning Research in Physics Education During the COVID-19 Pandemic</i> . <i>Journal of Physics: Conference Series</i> , Volume 2392, Seminar Nasional Fisika Unesa 2022 (SNF Unesa 2022) https://doi.org/10.1088/1742-6596/2392/1/012002		
	33. Anggraeni, D.M., Prahani, B.K., Suprpto, N., Shofiyah, N., & Jatmiko, B. (2023). Systematic review of problem learning research in forestering critical thinking skills. <i>Thinking Skills and Creativity</i> 49 (2023) 101334, https://doi.org/10.1016/j.tsc.2023.101334		
	34. Prahani, B.K., Dawana, I.R., Jatmiko, B. , & Amelia, T. (2023). <i>Research Trend of Big Data in Education During the Last 10 Years</i> . <i>International Journal of Emerging Technologies in Learning</i> , Vol 8, 10, pp. 39-64.		
Activities in Specialist Bodies Over the Last 5 Years	Organization	Role	Period
	<i>Physical Society of Indonesia (PSI)</i>	<i>Member</i>	<i>2019 – Now</i>
	<i>Dewan Guru Besar</i>	<i>Member</i>	<i>Now</i>