



# DEWANTO HARJUNOWIBOWO, S.SI., M.SC., PH.D.

PHYSICS EDUCATION LECTURER



## PROFILE

Functional Position  
Senior Lecturer

Structural Position  
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Teaching Area  
Fundamental Physics,  
Advanced Physics, Physics  
Instruction

Organization  
Physical Society of Indonesia (PSI)

## ACADEMIC CAREER

- 2004 S.Pd., Physics, University of Gadjah Mada
- 2018 M.Sc., Electronics and Instrumentation, University of Gadjah Mada
- 2020 Ph.D., Sustainable Energy Technology, University Of Nottingham

## EMPLOYMENT

- 2005 New Lecturer at Sebelas Maret University
- 2006 Junior Lecturer at Sebelas Maret University
- 2012 Senior Lecturer at Sebelas Maret University
- 2021 Career Development Center Coordinator

## RECENT RESEARCH PROJECT

Year	Research Title	Fund	
		Source	Amount (in million)
2021	Efektifitas Internet Of Things (iot) Berbasis Integrated Sensors Dan Weather Forecast Terhadap Tanaman Dalam Greenhouse	NON-PNBP	186,47
2021	Penapisan variabel Microclimate dan konsentrasi Rootone F terhadap pertumbuhan Sirih Hitam dalam greenhouse	PNBP	40,131
2021	Optimalisasi Konversi Energi Pada Paving Blok Terintegrasi Pemanen Energi Berbasis Fotovoltaik Dan Piezoelektrik	PNBP	15,1
2021	Pengembangan Robo-Guide untuk kebutuhan khusus	Kemdik bud	49

2020	Pengembangan So-La Sense Sebagai Teknologi Bantu Mobilitas Individu Dengan Hambatan Penglihatan	Kemdikbud	50
2017	Innovative Energy Saving and Climate Control System for Greenhouses	PNBP	50

## RECENT COMMUNITY SERVICE PROJECT

Year	Community Service Project Title	Partner	Source	Fund Amount (in million)
2021	Otomatisasi Sistem Greenhouse dalam Budidaya Sirih Hitam bagi UMKM Nyawiji Agriraya	UMKM Nyawiji Agriraya	PNBP	25,4
2021	Perbaikan Pemeliharaan Dan Kesehatan Kelinci Serta Pemanfaatan Limbah Pada Kelompok Peternak Kelinci (Pkm - Uns)	Rabbit Breeding Group-UNS	PNBP	24,4
2021	Pelatihan Manajerial Dan Pembuatan Paving Blok Komposit Dari Sampah Plastik Di Bank Sampah Guyub Rukun	Guyub Rukun Garbage Bank	PNBP	7,2
2020	Penerapan Parameter Habitat Hutan Raung pada Pembiakan Sirih Hitam (Black Piper Betle L.)	UMKM Nyawiji Agriraya	mandiri	-

## PUBLICATION (TOTAL: 19)

- Experimental investigation of a ground-source heat pump system for greenhouse heating&quot;cooling. International Journal of Low-Carbon Technologies, 16. 2021
- The Development of Mathematics Comic Containing Pancasila Values to Develop Character of Elementary School Students: A Case Study of Indonesia. Journal of Innovation in Educational and Cultural Research 2 (1). 2021
- Comparative Study of the Development of Android-Based Flipped Classroom Model between Jeddah and Indonesia. International Journal on Advanced Science, Engineering and Information Technology, 10. 2020
- The proliferation of effective microorganisms (EM) in vinasse and its application in the manufacture of livestock-waste-based fertilizers. Journal of Chemical Technology and Metallurgy, 54. 2019

- Synthesis Of 1-benzyl-3-methyl-6,7-dimethoxy-3,4 dihydro isoquinoline to be used as a potential hybrid drug. Journal of Chemical Technology and Metallurgy, 54. 2019

## PATENTS AND PROPRIETARY RIGHTS

Year	IPR's TITLE	Type	ID
2021	Buku Panduan Alat Pemanas Plastik Segel Modifikasi	Guidebook	EC00202169184
2021	Sistem Pencatatan/Logging Data Sensor DHT11 Ke Google Sheets	Guidebook	EC00202169185
2021	Oven Listrik Menggunakan Thermostat Digital	Guidebook	EC00202169187
2021	Buku Tutorial "Smart Irrigation System With ThingSpeak"	Guidebook	EC00202169188
2021	Buku Panduan Alat Bantu Sealing	Guidebook	EC00202169189
2021	Alat Filling Semi Manual Menggunakan Servo Berbasis Arduino	Guidebook	EC00202169190
2021	Automatic Measurement Filling Machine With Arduino Uno	Guidebook	EC00202169191
2021	Buku Panduan Alat Filling Imuno	Guidebook	EC00202169192
2021	Notifikasi Alarm Kebakaran Melalui Blynk Dengan Flame Module	Guidebook	EC00202169193
2021	Fire Detektor Disertai Dengan Alarm Dan Notifikasi Email	Guidebook	EC00202169194
2021	LED Growth Light Otomatis Untuk Pembibitan Sirih Hitam Berbasis Internet Of Things	Guidebook	EC00202169195
2021	Smart Greenhouse: Monitoring With ThingSpeak And Automatic Environmental Condition Control	Guidebook	EC00202169196

### Book

- Dasar Dasar Blogging. UNS Press. 2018.