

Table Research activities and lecturer PkM activities that involve students

No.	Research Title	Name of all research lecturers	Year	Funding		The names of all the students involved
				amount	Source	
1.	Optimization of Passive Cooling Techniques for Energy Efficiency and Increased Comfort of Buildings in Tropical Climates: Bioclimatic Sustainable Building Concepts	Dr. Ir. Remon Lapisa, ST, MT, M.Sc., Dr. Fahmi Rizal, Dr. Arwizet Karuddin	2018	85,500,000	UNP	Febri Romodon (15072062), Salman Alfarisi (16072078)
2.	Numerical Study of Building Thermal Performance Improvement in the Application of an Environmentally Friendly Green Building Concept	Dr. Ir. Remon Lapisa, ST, MT, M.Sc., Dr. Arwizet Karuddin, Martias, M.Pd	2019	42,500,000	UNP	Fine Afry Juliadi (15067004), Tiara Klaudia HH (15067022)
3.	Analysis of the Effect of Roof Design on the Thermal-Visual Comfort of Tertiary Buildings	Dr. Ir. Remon Lapisa, ST, MT, M.Sc., Prof. Dr. Suparno	2020	49,600,000	UNP	Fadhilla Azherda (15067029), Syafrianto (16073020)
4.	Development of a Coffee Roasting Machine in an Effort to Improve the Quality of Coffee Taste Using a Temperature Control System and the Concept of Dehumidifying Isothermal	Dr. Arwizet K., ST, MT	2018	52,000,000	UNP	Ahmad Suryadizen (15072006), Febri Azhari (15072061)

5.	Design of Smart Stop Prototype with Integrated Energy Sources of Solar Cell and Thermoelectric Microcontroller Systems as Energy Saving Solutions in the City of Padang	Dr. Arwizet K., ST, MT, Krismadinata, ST, MT, Ph.D	2020	50,000,000	UNP	Erwin Candra (17067011), Hadian Luxvan (17067016)
6.	Mathlab-based Computer Program Development as Learning Media for Kinematics and Dynamics in the Department of Machinery, FT UNP	Delima Yanti Sari, ST, MT, Ph.D., Prof. Dr. Ambiyar, M.Pd	2020	46,250,000	UNP	Muhammad Rizki (16067062), Addha Ilham (17067093), Yoga Novrialdy (17067132)
7.	Analysis, Redesign and Prototype of Broken Thigh Plate Implants	Andril Arafat, ST, M.Eng., Ph.D., S.Pd ., M.Pd.T	2019	18,750,000	UNP	M. Nasyarudin Latif (16072020)
8.	Characterization of zinc alloys (zinc, Zn) for absorbable implants	Andril Arafat, ST, M.Eng., Ph.D., Sri Rizki Putri Primandari, MT, PhD	2020	18,750,000	UNP	Rheda Pratama (15067044), Nurfitri Rahmi Sari (14067058)
9.	Study of Experiment Results of Used Aluminun Casting with Sand Molds on Cast Defects, Hardness and Microstructure Affected by the Amount of Riser	Zainal Abadi, S.Pd., MT, Andre Kurniawan, ST, MT	2020	18,750,000	UNP	Daffa Raihan Senthot (17067063)
10.	Optimization of energy consumption in the Padang State University Building using a Building Energy Simulation	Zainal Abadi, S.Pd., MT, Andre	2020	17,500,000	UNP	Riky Satria (18338018)

		Kurniawan, ST, MT				
11.	Increasing the Competence of Vocational School Teachers in the City of Padang Panjang through a Workshop on Optimizing the Use of Information Technology	Dr. Ir. Remon Lapisa, ST, MT, M.Sc.	2019	18,750,000	UNP	Joko Suprianto (18338011), Aprizal Saputra (18338012)
12.	PKM Community Group of Toast Bread Making Business in Cubadak Air and Tanjung Sabar Villages, Pariaman Utara, Pariaman City	Dr. Arwizet K., ST, MT	2018	17,500,000	UNP	Fauzan Pratama (14067029), Hanif Muzaki (14067037)
13.	Capacity Building Training for Business Community Groups to Make Various Variations of Sweet Baked Bread in Cubadak Air and Tanjung Sabar Villages, Pariaman Utara, Pariaman City	Dr. Arwizet K., ST, MT	2019	18,000,000	UNP	Ahmad Suryadizen (15072006), Febri Azhari (15072061)
14.	PKM Increases Entrepreneurial Ability to Make Coffee Powder for Youth Association of Cubadak Air and West Sikapak Villages, Pariaman Utara District, Pariaman City, West Sumatra	Dr. Arwizet K., ST, MT, Sri Rizki Putri Primandari, MT, Ph.D, Zainal Abadi, ST, MT	2020	48,000,000	Ristekdikti	Adani Arban (17067001) and Dimas Riadi (17067007)
15.	Training on Flat Plate Boat Making for the Muaro Tanjung Fishing Group, Danau Maninjau	Andril Arafat, ST, M.Eng., Ph.D.	2019	18,750,000	UNP	Joko Suprianto (18338011), Sigit Dwi Lesmana (16067026), Salmat (18338015)

16.	Efforts to Increase Productivity Through the Application of Corn Picker Tools for Communities in Nagari Lubuak Batingkok, Fifty Cities District	Delima Yanti Sari, ST, MT, Ph.D.	2019	18,000,000	UNP	Budi Arta (16072014), Moga Mulya (16072060)
17.	Implementation of Project Based Learning-Based Performance Assessment to Increase Welding Activities and Learning Outcomes for Class X Students of SMKN 1 West Sumatra	Dr. Arwizet K., ST, MT	2019	18,500,000	UNP	Salamuddin Ahmad (1302488)