



Name	Dr. Eng. Ir. Ratna Widyawati, S.T., M.T. IPM., ASEAN Eng.		
Post	Civil Engineering Department Teaching Area: Material Technology		
Academic career	Doctorate Science and Environmental Engineering/Infrastructure Maintenance	Yamaguchi University Japan	2015
	Magister Civil Engineering	Gadjah Mada University Yogyakarta	2002
	Undergraduate degree Civil Engineering	Sebelas Maret University Surakarta	1995
Employment	Position	Employer	Period
	Lecturer	University of Lampung	1995-now
Research and development projects over the last 5 years	Nano Concrete as a Study of Environmentally Friendly Concrete Solutions (2021) Analysis of the Effect of Service Load on Bridge Deflection for Health Assessment of Railway Bridges (2020) Smart Structural Health Monitoring (SSHM) on the BH 77 Tegineneng Railway Bridge Lampung (2020) Mesuji Regency Transmigration Area Infrastructure Development Study (2018)		
Industry collaborations over the last 5 years	--		
Patents and proprietary rights	--		
Important publications	1. Wiryanto, LH., Widyawati, R. , Fauzi, R., Putra, G., Noviani, E. (2022). Simulation of Wave Propagation on Thin Film. <i>Journal Advance and Application in Fluid Mechanics</i> , 29, 45-58 2. Wiryanto, LH., Widyawati, R. (2022). Numerical Simulation of Flood Routing, Model of Dynamic Equation. <i>Journal of the Indonesian Mathematical Society</i> , 28 (2). 3. Widyawati, R. , Wiryanto, LH. (2021). Zero Gravity of Flow under A Sluice Gate. <i>Journal Advance and Application in Fluid Mechanics</i> , 26 (2), 115-121		

over the last 5 years

4. Mukhlis, M., Kustiani, I., **Widyawati, R.** (2021). Penentuan Garis Sempadan Sungai dan Irigasi di Wilayah Ibukota Kabupaten Lampung Tengah. ([Line Determination River Borders and Irrigation in the Capital Region of Lampung Regency Middle](#)). *Jurnal Profesi Insinyur*, 2(1), 34-39
5. Ribowo, AB., Niken, C., **Widyawati, R.** (2020). Pengaruh Kondisi Lingkungan pada Kualitas Beton Studi Kasus RS PTN Universitas Lampung. ([Effect of Environmental Conditions on Concrete Quality Case Study of Lampung University PTN Hospital](#)). *REKAYASA: Jurnal Ilmiah Fakultas Teknik Universitas Lampung*, 24 (3), 58-61
6. Helmi, M., **Widyawati, R.**, Irianti, L., Annisa, M. (2019). Sifat Mekanik Beton Reaktif yang Menggunakan Abu Sekam Padi sebagai Pengganti Sebagian Semen dan Perlakuan Perawatan Panas (Heat Curing). ([Mechanical Properties of Reactive Concrete Using Rice Husk Ash as a Partial Substitute for Cement and Heat Curing Treatment](#)). *LPPM Unila*
7. Rinaldi, O., Sarkowi, M., **Widyawati, R.** (2022). Strategi Penataan Kawasan Pariwisata Air Terjun Way Kunyir, Kecamatan Pagelaran Utara Kabupaten Pringsewu Propinsi Lampung. ([Strategy for Structuring the Way Kunyir Waterfall Tourism Area, Pagelaran Utara District, Pringsewu Regency, Lampung Province](#)). *Seminar Nasional Insinyur Profesional (SNIP)*, 2 (2)
8. Amilia, R., Irianti, L., Sebayang, S., **Widyawati, R.** (2022). Beton Ringan Struktural dengan Memanfaatkan Agregat Buatan dari Tanah Liat. ([Structural Lightweight Concrete Utilizing Artificial Aggregates from Clay](#)). *Jurnal Rekayasa Sipil dan Desain*, 10 (4), 605-620
9. Wijaya, A., Alami, F., **Widyawati, R.** (2022). Analisis Kelayakan Struktur Baja Bangunan Pabrik terhadap Getaran Mesin. ([Feasibility Analysis of Factory Building Steel Structure against Machine Vibration](#)). *REKAYASA: Jurnal Ilmiah Fakultas Teknik Universitas Lampung*, 26 (1), 9-13
10. Aminudin, A., **Widyawati, R.**, Septiana, T. (2022). Penggunaan Konstruksi Fero semen pada Daerah Rawa Sragi untuk Saluran Tersier. ([Use of Ferrocement Construction in Sragi Swamp Areas for Tertiary Channels](#)). *Jurnal Rekayasa Lampung (JRL)*, 1 (2)

Activities in specialist

bodies over the last 5 years

1. Competency Assessor (K3), National Professional Certification Agency (BNSP) Tekla Structure Planner, Trimble Solutions SEA Pte Ltd
2. Greenship Associate (GA) Penilai Bangunan Hijau, Green Buiding Council Indonesia
3. Assessor for the Independent Engineering Accreditation Institute (LAMTEK), the Independent Engineering Accreditation Institute
4. Building Failure Expert Assessor, Construction Services Development Institute (LPJK) and the Ministry of PUPR

