Dr. Ir. Ika Puji Hastuty, S.T., M.T., IPM.

Lecturer of Undergraduate Program in Civil Engineering Study Program
Faculty of Engineering
Universitas Sumatera Utara

ika.hastuty@usu.ac.id

USU Faculty of Engineering

ft.usu.ac.id/en/lecturer/ika-puji-hastuty

Ika Puji Hastuty S.T., M.T., born in Kw.Bingai / Langkat on August 07, 1977, is a Civil lecturer at the Universitas Sumatera Utara. She completed her master's degree in Civil Engineering at the Universitas Sumatera Utara in 2003.

Publications

2026
Prosiding seminar internasional

GIS-based landslide risk assessment in Karo Regency, North Sumatera, Indonesia

FAUZIAH AHMAD , IKA PUJI HASTUTY

2026
Jurnal internasional bereputasi

Geospatial modeling-based assessment of landslide hazards along the Medan–Berastagi Route, North Sumatra

IKA PUJI HASTUTY , AHMAD PERWIRA MULIA TARIGAN , FAUZIAH AHMAD

2025
Jurnal internasional bereputasi

Integrating GIS within the regulatory framework for mapping human-induced landslide hazards in Central Aceh, Indonesia

IKA PUJI HASTUTY , AHMAD PERWIRA MULIA TARIGAN , FAUZIAH AHMAD

2025
Jurnal internasional bereputasi

Integrating GIS within the regulatory framework for mapping human-induced landslide hazards in Central Aceh, Indonesia

IKA PUJI HASTUTY , AHMAD PERWIRA MULIA TARIGAN , FAUZIAH AHMAD

2024
Artikel ilmiah

Reading indigenous signs: The wisdom of nagari communities toward natural disaster in Pasaman Barat

IKA PUJI HASTUTY

2024
Artikel ilmiah

Landslide Analysis Using Geographic Information System (GIS) in South Tapanuli Regency

FAUZIAH AHMAD , IKA PUJI HASTUTY

2024
Book chapter internasional

Landslide Analysis Using Geographic Information System (GIS) in South Tapanuli Regency

IKA PUJI HASTUTY

2024
Book chapter internasional

Geo-Sustainnovation for Resilient Society

IKA PUJI HASTUTY , Fauziah Ahmad

2023
Book chapter internasional

Smart Geotechnics for Smart Societies

IKA PUJI HASTUTY , FAUZIAH AHMAD

2023
Prosiding seminar internasional

Landslide susceptibility analysis using geographic information systems (GIS) in Sibolangit district based on natural factors

IKA PUJI HASTUTY , M RIDWAN ANAS

2023
Prosiding seminar internasional

Identification of slope angle along Medan-Berastagi road using geographic information system (GIS)

IKA PUJI HASTUTY , M RIDWAN ANAS , FAUZIAH AHMAD

2022
Prosiding seminar internasional

An overview of inland freight transportation in Indonesia based on vehicle operating cost

MEDIS SEJAHTERA SURBAKTI , M RIDWAN ANAS , IKA PUJI HASTUTY

2020
Prosiding seminar internasional

Analysis of landslide vulnerability in Sibolangit area using Geographic Information System (GIS)

IKA PUJI HASTUTY

2019
Jurnal internasional bereputasi

The comparison of adding fly ash and Sinabung ash to limestone towards the soil improvement via CBR value

IKA PUJI HASTUTY

2019
Jurnal nasional terakreditasi

Comparison of the Use of Cement, Gypsum, and Limestone on the Improvement of Clay Through Unconfined Compression Test

IKA PUJI HASTUTY

2018
Prosiding seminar internasional

Clay stabilization by using gypsum and paddy husk ash with reference to UCT and CBR value

IKA PUJI HASTUTY

2018
Prosiding seminar internasional

The decline of soil due to the pile of highway project Medan-Kualanamu (STA 35 + 901) with the finite element method

IKA PUJI HASTUTY

2018
Prosiding seminar internasional

Analysis of the soil reinforcement by using geotextile on the pile of Medan - Kualanamu of highway project (STA 35 + 901) with the finite element method

IKA PUJI HASTUTY

2017
Prosiding seminar internasional

The influence of using quicklime and volcanic ash as stabilizing materials in clay viewed from CBR value

IKA PUJI HASTUTY

Researches

2025
Ipteks Bagi Inovasi Kreativitas Kampus

MODEL SISTEM DINAMIK TERHADAP KEBIJAKAN TARIF TOL

IKA PUJI HASTUTY

2023
Penelitian Kerjasama Antar Perguruan Tinggi

Model Pengurangan Risiko Bencana Gempabumi Berbasis Teknologi Geofisika Dan Kearifan Lokal Di Pasaman Barat

NOPRIYASMAN , AHMAD FAUZI , IKA PUJI HASTUTY

2023

Model Pengurangan Risiko Bencana Gempabumi Berbasis Teknologi Geofisika Dan Kearifan Lokal Di Di Pasaman Barat

NOPRIYASMAN , AHMAD FAUZI , IKA PUJI HASTUTY

2019
Penelitian Dana Lokal Perguruan Tinggi

Pemetaan Daerah Rawan Longsor (Landslide) dengan program SIG (Sistem Informasi Geografis) daerah kabupaten Sibolangit

IKA PUJI HASTUTY

2017
Penelitian Dana Lokal Perguruan Tinggi

Studi Perlintasan Sebidang Jalan Rel dengan Jalan Raya di Sumatera Utara

ADINA SARI LUBIS , IRWAN SURANTA SEMBIRING , IKA PUJI HASTUTY

2016
Penelitian Unggulan Perguruan Tinggi

Pemanfaatan abu Gunung Sinabung dan sekam padi sebagai bahan stabilisator pada lempung dengan UCT dan CBR

IRWAN SURANTA SEMBIRING , IKA PUJI HASTUTY

2016
Penelitian Hibah Bersaing

Pemanfaatan abu Gunung Sinabung sebagai bahan campuran pembuatan paving block

IRWAN SURANTA SEMBIRING , IKA PUJI HASTUTY

Community Services

2016
Ipteks Bagi Masyarakat

IbM Sekolah Yayasan Perguruan Harapan di Kecamatan Stabatdalam Memanfatkan pasir Sei Wampu untuk Pembuatan Paving Block

IVAN INDRAWAN , IRWAN SURANTA SEMBIRING , IKA PUJI HASTUTY

2016
Ipteks Bagi Masyarakat

Penerapan Lubang Resapan Biopori (LRB) sebagai Alternatif Untuk Mengurangi Genangan Banjir di Desa Rambung Barat Kecamatan Binjai Selatan Kota Binjai

IVAN INDRAWAN , RUDI ISKANDAR , IKA PUJI HASTUTY

2015
Ipteks Bagi Masyarakat

Pemanfaatan Abu gunung Sinabung sebagi Campuran Pembuatan paving Block - IbM Kelompok Masyarakat Desa Buluhawar Kecamatan Sibolangit kab. Deli Serdang Prov. Sumut

IVAN INDRAWAN , IRWAN SURANTA SEMBIRING , IKA PUJI HASTUTY