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Dr. Ir. Nursyamsi S.T., M.T., born in Medan on June 23, 1977, is a lecturer in the discipline of Concrete Materials at the Universitas Sumatera Utara. In 2021, he received his doctorate from the Faculty of Engineering, Civil Engineering Study Program at the Universitas Sumatera Utara. He was honored with the Satyalancana Karya Satya X Year award.

Publications

2026

Jurnal nasional terakreditasi

Evaluasi SEM terhadap Komposit Mortar ECC-Kerikil Aspal Porus Berbasis Styrofoam dan Abu Cangkang Sawit Berdasarkan Uji Tekan

MUHAMMAD ASWIN , NURSYAMSI

2026

Jurnal nasional terakreditasi

Analisis Kapasitas Pelat Baja Girder pada Jembatan Berdasarkan SNI 1729:2020 Serta Kajian Numerik Tegangan Akibat Konfigurasi Stiffener

NURSYAMSI , ING JOHANNES TARIGAN

2026

Prosiding seminar internasional

Fatigue life estimation of Bina Marga standard steel bridge structures through finite element analysis

MUTHIAH PUTRILAN SYAMNAH HARAHAP , DERRY WILYANDA NASUTION , CUT ATIKA PUTRI , NURSYAMSI , DANIEL PATRICK SITOHANG

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Kajian Kapasitas Momen dengan Variasi Letak Tulangan Tarik pada Beton Kondisi Under Reinforcement, Balance, Over Reinforcement Menggunakan Software Abaqus

ING JOHANNES TARIGAN , NURSYAMSI

2025

Jurnal nasional terakreditasi

Comparative Analysis of Wind Load Standards on Space Truss Structures

NURSYAMSI , ING JOHANNES TARIGAN , MAHESHA GANI TARIGAN

2025

Jurnal nasional terakreditasi

Optimization of Barrel Vault Space Frame Model for Earthquake Resistant Structure

NURSYAMSI , ING JOHANNES TARIGAN , OLOAN YOHANES SIREGAR

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Jurnal nasional terakreditasi

Utilization of Metal-Layered Plastic Packaging Waste and Eggshell Powder as Partial Substitution Materials in Paving Blocks

2025

Jurnal nasional terakreditasi

Behavior of Column Reinforced UHPFRC Materials using Excentric Loading

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2024

Jurnal internasional

Analysis of Roof Displacement in Steel Structures with and without Panel Zone

ING JOHANNES TARIGAN , NURSYAMSI

2024

Jurnal internasional

Study on the Effect of Variation in Number of Panels on Natural Frequency

ING JOHANNES TARIGAN , NURSYAMSI

2024

Jurnal internasional

Seismic Performance Analysis of Regular and Irregular Buildings Based on SNI 1726: 2019 Standards

ING JOHANNES TARIGAN , NURSYAMSI

2024

Jurnal internasional

Analysis of SCWB Ratio on Collapse Probability of SRPMK Concrete Structures

ING JOHANNES TARIGAN , NURSYAMSI

2024

Jurnal internasional

Effect of Addition of Dramix 3D Steel Fiber on Compressive Strength and Tensile Strength in Hpc (High-Performance Concrete) Concrete.

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Jurnal nasional terakreditasi

Effect of Compressive Strength and Tensile Strength Value on Fiber Concrete Using Bendrat Wire Fibers

ING JOHANNES TARIGAN , NURSYAMSI

2024

Jurnal nasional

The Evaluation of the Use PET and HDPE Plastic Waste as Coarse Aggregate of Lightweight Concrete

NURSYAMSI , MUTHIAH PUTRILAN SYAMNAH HARAHAP

2024

Jurnal internasional bereputasi

Evaluating the behaviour of axially loaded hollow concrete block masonry walls with small-size openings: Various opening positions and their influence on experimental results

NURSYAMSI

2023

Jurnal internasional bereputasi

A Laboratory-Scale Study of Selected Chinese Typical Flammable Wildland Timbers Ignition Formation Mechanism

NURSYAMSI

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Jurnal internasional bereputasi

Structural behaviour of the strengthened reinforced concrete beams using ultra high-performance fibre reinforced concrete layer

MUHAMMAD ASWIN , NURSYAMSI , ING JOHANNES TARIGAN

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Jurnal nasional terakreditasi

Kajian Struktur Istana Maimun dalam Merespon Gaya Gempa

MUTHIAH PUTRILAN SYAMNAH HARAHAP , NURSYAMSI , ING JOHANNES TARIGAN , Sheila Hani

2022

Jurnal internasional

The Traditional House in North Sumatera Against the Earthquake: A Case Study of Karo and Toba

MUTHIAH PUTRILAN SYAMNAH HARAHAP , ING JOHANNES TARIGAN , NURSYAMSI

2022

Jurnal internasional

Structural Analysis of Maimun Palace Against Earthquake

ING JOHANNES TARIGAN , MUTHIAH PUTRILAN SYAMNAH HARAHAP , NURSYAMSI

2021

Jurnal internasional bereputasi

The utilization of plastic waste in a mixed pair of concrete brick walls

NURSYAMSI

2021

Jurnal internasional bereputasi

Structural analysis of traditional Batak Karo house against earthquake

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2021

Jurnal internasional bereputasi

Precast box culvert analysis with direct load

NURSYAMSI

2021

Jurnal internasional bereputasi

Application of rice husk ash in high strength concrete

NURSYAMSI

2021

Jurnal internasional bereputasi

The effect of shredded plastic waste PET and HDPE substitution on concrete characteristics

NURSYAMSI

2020

Jurnal internasional

Precast box culvert analysis with direct load

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2020

Jurnal internasional

Ultra-High-Performance Fiber-Reinforced Concrete an Alternative Material for Rehabilitation and Strengthening of Concrete Structures: A Review

NURSYAMSI

2020

Jurnal internasional bereputasi

Integrated systems of major drainage and minor drainage towards low impact development

NURSYAMSI , RIZA INANDA SIREGAR

2020

Jurnal internasional bereputasi

Effect the silica sand percentage as substitution of fine aggregate on the concrete compressive strength

NURSYAMSI

2020

Jurnal internasional bereputasi

Study of bolon house structure as a traditional Batak Toba house on

earthquake force

NURSYAMSI , ING JOHANNES TARIGAN

2019

Jurnal internasional bereputasi

Analysis and experimental usage of CFRP wrap type on flexural strength of concrete beam

NURSYAMSI , ING JOHANNES TARIGAN

2019

Jurnal internasional bereputasi

The influence of the usage of Idpe plastic waste as fine aggregate in light concrete bricks

NURSYAMSI

2018

Jurnal internasional bereputasi

Comparison of compressive strength of paving block with a mixture of Sinabung ash and paving block with a mixture of lime

NURSYAMSI , IKA PUJI HASTUTY

2018

Jurnal internasional bereputasi

The usage of carbon fiber reinforcement polymer and glass fiber reinforcement polymer for retrofit technology building

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2018

Jurnal internasional

The analysis of lightweight brick strength pressure with mixture of glass powder and silica fume

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2018

Jurnal internasional bereputasi

The use of glass powder in making batako

NURSYAMSI

2018

Jurnal internasional bereputasi

Effect of HDPE plastic waste towards batako properties

NURSYAMSI

2017

Jurnal internasional bereputasi

The influence of pet plastic waste gradations as coarse aggregate towards compressive strength of light concrete

NURSYAMSI

2017

Jurnal internasional bereputasi

Automatic gate design model from wood & tire for farmers

NURSYAMSI , IVAN INDRAWAN

2016

Jurnal internasional

Automatic Gate Design Model From Wood & Tire For Farmers

SAYED ISKANDAR MUDA , IVAN INDRAWAN , NURSYAMSI

2016

Jurnal nasional

Pemanfaatan Serbuk Kaca Sebagai Bahan Tambah Dalam Pembuatan Batako

NURSYAMSI

2016

Jurnal nasional

Pengaruh Penggunaan Limbah Plastik LDPE Sebagai Agregat Halus Pada Batako Beton Ringan

NURSYAMSI

2014

Jurnal internasional bereputasi

The Utilization of can Waste as Fibre and the Addition of Fly Ash to Mechanical Characteristic of Concrete

NURSYAMSI

Researches

2024

Penelitian Dosen Pemula

ANALISIS PERBAIKAN TANAH PADA PERENCANAAN JALAN REL DI JALUR KERETA API LABUAN-BELAWAN GUNA MENGATASI MASALAH KONSOLIDASI

TITI HAYATI , FATIMAH INSANI HARAHAHAP , NURSYAMSI , IKA PUJI HASTUTY

2024

Penelitian Dana Lokal Perguruan Tinggi

Studi Umur Layan Struktur Jembatan Standar Bina Marga Terhadap Kriteria Fatik

MUTHIAH PUTRILAN SYAMNAH HARAHAHAP , NURSYAMSI , DERRY WILIYANDA NASUTION , DANIEL PATRICK SITOHANG , TIUR AGNES M SIANIPAR

2023

Penelitian Dana Lokal Perguruan Tinggi

LIGHT TRANSMISSION CONCRETE PADA GREEN BUILDING DENGAN PLASTIC OPTIC FIBER SEBAGAI MEDIA TRANSMISI CAHAYA

GEA GEBY AURORA SYAFRIDON , NURSYAMSI

2023

Penelitian Dana Lokal Perguruan Tinggi

LIGHT TRANSMISSION CONCRETE PADA GREEN BUILDING DENGAN PLASTIC OPTIC FIBER SEBAGAI MEDIA TRANSMISI CAHAYA

GEA GEBY AURORA SYAFRIDON , MUTHIAH PUTRILAN SYAMNAH HARAHAHAP , NURSYAMSI , IKA PUJI HASTUTY

2022

Analisa Produktivitas Pekerjaan Bekisting Sistem Pada Proyek Gedung Bertingkat

NURUL IKA PUTRI DALIMUNTHE , REZKY ARIESSA DEWI , NURSYAMSI

2021

Penelitian Dana Lokal Perguruan Tinggi

Kajian Struktur Gaya Gempa Istana Maimun

ING JOHANNES TARIGAN , NURSYAMSI

2021

Penelitian Unggulan Perguruan Tinggi

KAJIAN BOX CULVERT BETON PRECAST TERHADAP ANALISIS DAN BEBAN LANGSUNG

ING JOHANNES TARIGAN , NURSYAMSI

2020

Penelitian Unggulan Perguruan Tinggi

KAJIAN BOX CULVERT BETON PRECAST TERHADAP ANALISIS DAN BEBAN LANGSUNG

ING JOHANNES TARIGAN , NURSYAMSI

2018

Ipteks

Pemanfaatan Limbah Plastik Sebagai Agregat Beton Ringan

2017

Penelitian Hibah Bersaing

Pemanfaatan abu Gunung Sinabung dan kapur sebagai bahan campuran pembuatan paving block

IRWAN SURANTA SEMBIRING , NURSYAMSI , IKA PUJI HASTUTY

2016

Ipteks

Penelitian Bidang keunggulan Akademik USU - RANCANGAN PINTU AIR OTOMATIS DENGAN BAHAN KAYU DAN BAN

IVAN INDRAWAN , NURSYAMSI

2015

Penelitian Hibah Bersaing

Pemanfaatan Serbuk Kaca sebagai Bahan Tambah dalam Pembuatan Batako

IVAN INDRAWAN , NURSYAMSI , IKA PUJI HASTUTY

2011

Ipteks

Penelitian Dana Masyarakat LP USU - Analisis Manfaat dan Dampak Perubahan Tipe Konstruksi Bangunan Bendung Irigasi Dari Tipe Bendung Beton Bertulang Menjadi Tipe Bendung Karet Pada Daerah Irigasi Bandar Sidoras

IVAN INDRAWAN , NURSYAMSI

Community Services

2026

Ipteks Bagi Masyarakat

FGD (FORUM GROUP DISCUSSION) PENGUATAN EDUKASI MITIGASI BENCANA BERBASIS AUGMENTED REALITY DAN SIMULASI VIRTUAL BAGI ANAK PESISIR DALAM MENDUKUNG SDG 13 BERSAMA USU-UMPSA

MUHAMMAD AGUNG PUTRA HANDANA , RAHMI KAROLINA , NURSYAMSI , IKA PUJI HASTUTY

2025

Ipteks Bagi Masyarakat

SUPERVISI PEMBANGUNAN BIARA SUSTERAN OBLATE ST. FRANSISKUS XAVERIUS (SOSFX) TAHAP 2

ING JOHANNES TARIGAN , VRESLISAWATI SAGALA , REZKY ARIESSA DEWI , NURSYAMSI

2024

Ipteks Bagi Masyarakat

Pengurus Wilayah PII Provinsi Sumatera Utara

AHMAD PERWIRA MULIA TARIGAN , NURSYAMSI

2024

Ipteks Bagi Masyarakat

SUPERVISI PEMBANGUNAN BIARA SUSTERAN OBLATE ST. FRANSISKUS XAVERIUS (SOSFX)

ING JOHANNES TARIGAN , NURUL IKA PUTRI DALIMUNTHE , GEA GEBY AURORA SYAFRIDON , REZKY ARIESSA DEWI , NURSYAMSI

2024

Ipteks Bagi Masyarakat

optimasi pemanfataan pondasi sumuran pada hotel deli river kecamatan namo rambe kabupaten deli serdang

ING JOHANNES TARIGAN , NURSYAMSI , SECILIA BERNADETTA LUMBAN RAJA , GRACE HERDIYANTI , BETTARIA SONATA SIDABUTAR

2023

Ipteks Bagi Masyarakat

PEMBUATAN SUMUR BOR UNTUK KEBUTUHAN AIR BERSIH PONDOK

TAHFIZ KITA BINA DESA SAYUM KEC SIBOLANGIT KAB. DELI SERDANG

ADINA SARI LUBIS , IVAN INDRAWAN , REZKY ARIESSA DEWI , NURSYAMSI , IKA PUJI HASTUTY

2021

Ipteks Bagi Masyarakat

PEMBUATAN SUMUR BOR UNTUK MEMENUHI KEBUTUHAN AIR BERSIH DI DESA JARING HALUS KECAMATAN SECANGGANG KABUPATEN LANGKAT

ADINA SARI LUBIS , IVAN INDRAWAN , NURSYAMSI , IKA PUJI HASTUTY

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Paten nasional

GORONG-GORONG BETON PRACETAK PADA JALAN KELAS III

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