Ir. Muhammad Aswin, S.T., M.T., Ph.D.

Dosen Program Studi S1 Teknik Sipil
Fakultas Teknik
Universitas Sumatera Utara

muhammad.aswin@usu.ac.id

Fakultas Teknik, USU

ft.usu.ac.id/id/dosen/muhammad-aswin

Ir. Muhammad Aswin ST., MT., Ph.D dilahirkan di Medan pada tanggal 18 April 1969. Saat ini, beliau menjabat sebagai dosen Sipil di Universitas Sumatera Utara. Beliau menyelesaikan pendidikan terakhirnya yakni pada jenjang Doktoral(S3) di University Teknologi Petronas Malaysia tahun 2019.

Publications

2026
Jurnal nasional

Kajian Kuat Tekan dan Lentur pada Komposit yang Tersusun dari Mortar ECC dan Kerikil Aspal Porus Berbasis Styrofoam dan Crumb Rubber

MUHAMMAD ASWIN , TAMIMAH NISRINA HASIBUAN

2026
Jurnal nasional

Investigasi Terhadap Komposit Yang Terbentuk Dari Mortar ECC Dengan Kerikil Aspal Porus Berbasis Styrofoam Berdasarkan Uji Impact

MUHAMMAD ASWIN , DIXON PEKANTO

2025
Jurnal internasional bereputasi

Experimental investigation on mechanical performance of high-porous rubberized asphalt pavement grouted with ECC mortar

MUHAMMAD ASWIN , Musa Adamu , MS Liew

2025
Prosiding seminar internasional

Effect of Hydrochloric Acid Immersion on Compressive Strength of Corn Leaf Ash Concrete

MUHAMMAD ASWIN , MERY IQLIMA RAMADHAN

2025
Prosiding seminar internasional

Investigation of Compressive Strength of the Corn Leaf Ash Concrete Due to the Sodium Chloride Immersion

RAFLY AFIF ALFARIZY PANE , MUHAMMAD ASWIN

2025
Jurnal nasional terakreditasi

Investigasi pada Komposit yang Terbentuk dari CR-ECC dengan Kerikil-Aspal Porus Berbasis Styrofoam Berdasarkan Uji Tekan dan Lentur

MUHAMMAD ASWIN , ARRYA FAYIZ PRANOTO

2025
Jurnal nasional terakreditasi

Pemeriksaan terhadap Komposit Crumb Rubber-Engineered Cementitious Composite (ECC) Kerikil Aspal Porous Berbasis Styrofoam Berdasarkan Uji Tekan dan Uji Lentur

MUHAMMAD ASWIN

2025
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MUHAMMAD ASWIN

2024
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Workability Investigation on the Fresh Mix of ECC Mortar and Crumb Rubber (CR)-ECC based on Variations of Palm Shell Ash, River Sand, and Cement

MUHAMMAD ASWIN

2024
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The Role of Superplasticizers on the Workability Consistency of ECC Mortar Fresh Mortar Due to an Increase in the Percentage of Palm Shell Ash

MUHAMMAD ASWIN

2024
Prosiding seminar internasional

Study on Early Compressive Strength of Mortar-and Crumb Rubber-Engineered Cementitious Composites Contain Variation of Cement, Palm Shell Ash and River Sand

MUHAMMAD ASWIN

2024
Prosiding seminar internasional

Structural Behavior Analysis of the Beam-Column Connections of Existing Steel Structure Buildings based on Finite Element Modeling-Idea StatiCa

MUHAMMAD ASWIN

2024
Jurnal nasional terakreditasi

Evaluation on effective dimensions of base isolators applied at existing RC building due to earthquakes

MUHAMMAD ASWIN

2024
Jurnal nasional terakreditasi

Evaluasi Ketentuan Keamanan Model Struktur dan Level Kinerja dari Bangunan Beton Bertulang Eksisting Akibat Beban Gempa

MUHAMMAD ASWIN

2024
Jurnal nasional terakreditasi

Evaluasi Reliabilitas Model Struktur dan Level Kinerja dari Bangunan Baja Eksisting Akibat Beban Gempa

MUHAMMAD ASWIN

2024
Jurnal internasional bereputasi

Recent Progress in Geopolymer Concrete Technology: A Review

MUHAMMAD ASWIN

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An prediction of structural behavior of deep beams based on finite element modeling (FEM)

MUHAMMAD ASWIN

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Evaluating Bulky PVA-ECC Mortar Developed with River Sand, Silica Fume, and High-Volume Fly Ash: A Focus on Short-and Long-Term Compressive Strength

Ceyhun Aksoylu , Yasin Onuralp Özkılıç , MUHAMMAD ASWIN , Amin Al-Fakih

2023
Prosiding seminar internasional
Studies on tensile strength of steel bars connected by coupler
MUHAMMAD ASWIN

2023
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Influence of Different Dapped-End Reinforcement Configurations on Structural Behavior of RC Dapped-End Beam. Buildings 2023, 13, 116
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2023
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Studies on Strength and Flexural Behaviour of Reinforced Concrete Beams with the Corroded Steel Reinforcements as a result of Sodium Chloride (NaCl)
MUHAMMAD ASWIN

2022
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INVESTIGASI KUAT TEKAN PAVING BLOCK-ECC OKTAGONAL BERBASIS FLY ASH DAN ABU SEKAM PADI
MUHAMMAD ASWIN

2022
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Investigasi Workability dan Kuat Tekan Mortar Engineered Cementitious Composites (ECC)
MUHAMMAD ASWIN

2022
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Evaluasi Kuat Tekan pada Bata ECC dan Bata-CR ECC Berbasis Silica Fume dan Abu Sekam Padi
MUHAMMAD ASWIN

2022
Jurnal nasional terakreditasi
Potensial Penggunaan Bata-ECC Berbasis Silica Fume dan Abu Cangkang Sawit Berdasarkan Kuat Tekan
MUHAMMAD ASWIN

2021
Jurnal internasional bereputasi
Design and analysis of RC corbel based on SNI 2847:2019 and analysed using computer aided strut-and-tie model
MUHAMMAD ASWIN

2021
Jurnal internasional bereputasi
Study on concrete compressive strength due to the cement substitution partially by corncob ash
MUHAMMAD ASWIN

2021
Jurnal internasional bereputasi
Effect of use of corn leaf ash on concrete compressive strength
MUHAMMAD ASWIN

2021
Jurnal internasional bereputasi

Design of RC deep beam based on SNI 2847:2019 and analysed using STM and CAST

MUHAMMAD ASWIN

2021
Jurnal internasional

Experimental study on structural behaviour of corbels with hybrid fibre reinforced concrete (Hyfrc)

MUHAMMAD ASWIN

2020
Jurnal internasional bereputasi

Prediction of failure load of RC and R-ECC dapped-end beams

MUHAMMAD ASWIN

2020
Jurnal internasional bereputasi

Investigation of Fibers Reinforced Engineered Cementitious Composites Properties Using Quartz Powder

MUHAMMAD ASWIN

2019
Jurnal internasional bereputasi

Structural Performance of RC and R-ECC Dapped-End Beams Based on the Role of Hanger or Diagonal Reinforcements Combined by ECC

MUHAMMAD ASWIN

2016
Jurnal internasional bereputasi

Properties and Structural Behavior of Sawdust Interlocking Bricks

MUHAMMAD ASWIN

2016
Jurnal internasional bereputasi

Research Article Structural Behavior of Reinforced Self-Compacted Engineered Cementitious Composite Beams

MUHAMMAD ASWIN

2016
Jurnal internasional bereputasi

Longitudinal shear resistance of PVA-ECC composite slabs

MUHAMMAD ASWIN

2015
Jurnal internasional bereputasi

Shear Failure of RC Dapped-End Beams

MUHAMMAD ASWIN , Bashar Sami Mohammed , M. S. Liew , Zubair Imam Syed

2015
Jurnal internasional bereputasi

Shear failure of RC dapped‐end beams

MUHAMMAD ASWIN

2015
Jurnal internasional bereputasi

Prediction of RC Beams Failure Load using Non-linear Finite Element Analysis

MUHAMMAD ASWIN

2015
Jurnal internasional bereputasi

Root cause of reinforced concrete dapped-end beams failure

MUHAMMAD ASWIN

2014
Jurnal internasional bereputasi

Prediction of failure loads of RC-DEBs

MUHAMMAD ASWIN

2011
Jurnal nasional

Design and analysis of actual strength on the RC beam section with doubly reinforcements which has the rectangular cross section (under and over reinforcement condition)

MUHAMMAD ASWIN

2011
Jurnal nasional

The solution of the hyperbolic partial differential equation by finite difference method using the implicit scheme

MUHAMMAD ASWIN

2010
Jurnal nasional

Tsunami, perspektif dan persepsinya

MUHAMMAD ASWIN

2010
Jurnal nasional

Nilai over strength factor pada balok beton bertulang yang menggunakan serat bendrat dan tulangan baja yang sudah mengalami pembengkokan (kajian analitis dan eksperimental)

MUHAMMAD ASWIN

2008
Jurnal nasional terakreditasi

Kuat tarik dan daktilitas besi beton setelah pembengkokan

MUHAMMAD ASWIN

2008
Jurnal nasional terakreditasi

Penggunaan Metode Aswin pada Integrasi Numerik

MUHAMMAD ASWIN

Researches

2025

Uji Eksperimental Sifat Mekanik, Kinerja Akuistik Dan Termal Pasangan Dinding Bata Interlock Dengan Serat Ampas Tebu Sebagai Bahan Campuran Semen

MUHAMMAD ASWIN

2020
Penelitian Dosen Pemula

Durabilitas Beton Abu Daun Jagung Akibat Rendaman Larutan NaCl dan HCl Berdasarkan Tinjauan Kuat Tekan Beton

RAHMI KAROLINA , MUHAMMAD ASWIN

2016

Properties and Structural Behavior of Sawdust Interlocking Bricks

MUHAMMAD ASWIN

2015

Structural Behavior of Reinforced Self-Compacted Engineered Cementitious Composite Beams

MUHAMMAD ASWIN

2015

Longitudinal shear resistance of PVA-ECC composite slabs

MUHAMMAD ASWIN

2014

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Community Services

2026

Reviewer pada jurnal internasional bereputasi

MUHAMMAD ASWIN

2026

Ipteks Bagi Masyarakat

MENTORING KESELAMATAN DAN KESEHATAN KERJA (K3) BAGI PEKERJA PROYEK PEMBANGUNAN KAMPUS C UNIVERSITAS BUNDA THAMRIN

MUHAMMAD ASWIN

2025

Reviewer pada jurnal internasional bereputasi (Buildings - MDPI)

MUHAMMAD ASWIN

2024

Reviewer Jurnal JCEF

MUHAMMAD ASWIN

2024

Reviewer Jurnal Buildings MDPI

MUHAMMAD ASWIN

2023

Reviewer Jurnal Buildings MDPI

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Reviewer Jurnal Applied Sciences MDPI

MUHAMMAD ASWIN

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MUHAMMAD ASWIN

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Reviewer Jurnal SIKLUS

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Reviewer Jurnal Sustainability MDPI

MUHAMMAD ASWIN

2021

Reviewer Jurnal JCEF

MUHAMMAD ASWIN

2021

Reviewer Jurnal SIKLUS

MUHAMMAD ASWIN

2006

Penyuluhan hukum dan ketenagakerjaan anggota dan pengurus FKPPI Kota Pancur Batu

TORANG SITORUS , ANWAR HARAHAP , HEMAT TARIGAN , MUHAMMAD ASWIN , INDRA JAYA PANDIA