J.J. COLLEGE OF ENGINEERING AND TECHNOLOGY

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(Sowdambikaa Group of Institutions)

VOLUME 2, ISSUE 2

FEBRUARY 2024

Institution Making Students Ready for "Industry 4.0"

DEPARTMENT OF CIVIL ENGINEERING

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NEWS LETTER

DEPARTMENT OF CIVIL ENGINEERING

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- Vision and Mission
- Major Events
- Faculties Achievements

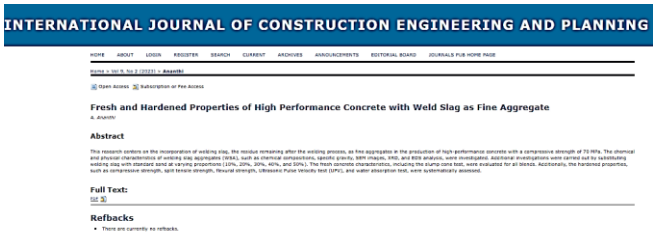
VISION

. To impart latest knowledge and skills so as to kindle innovation and creativity among students

MISSION

. To provide quality Education by preparing a strong willed, socially committed and Dynamic Engineers for the Future.
. To enrich their knowledge in the areas of academic, research and industry by moulding professionals in the field of Civil Engineering to build a sustainable world.
. To impart quality education and mould technically sound, ethically responsible professionals in the field of Civil Engineering.
. To prepare the students with a broad skill set of creativity, critical thinking and effective communication skills to meet the desired needs of the society.
. To develop state of the art infrastructure and research for effective teaching learning process.
. To strengthen soft skills especially for rural students through co- curricular and extracurricular activities.

FACULTIES ACHIEVEMENT



INTERNATIONAL JOURNAL OF CONSTRUCTION ENGINEERING AND PLANNING

HOME ABOUT LOGIN REGISTER SEARCH CURRENT ARCHIVES ANNOUNCEMENTS EDITORIAL BOARD JOURNALS PUB HOME PAGE

Fresh and Hardened Properties of High Performance Concrete with Weld Slag as Fine Aggregate

A. Ananthi

Abstract

This research centers on the incorporation of welding slag, the residue remaining after the welding process, as fine aggregates in the production of high-performance concrete with a compressive strength of 70 MPa. The chemical and physical characteristics of welding slag aggregates (WSA), such as chemical compositions, specific gravity, XRF images, XRD, and BSE analysis, were investigated. Additional investigations were carried out by substituting welding slag with standard sand at varying proportions (10%, 20%, 30%, 40%, and 50%). The fresh concrete characteristics, including the slump cone test, were evaluated for all blends. Additionally, the hardened properties, such as compressive strength, split tensile strength, flexural strength, Ultrasonic Pulse Velocity test (UPV), and water absorption test, were systematically assessed.

Full Text:

Refbacks

- There are currently no refbacks.

Dr. A. Ananthi/ Professor/ Head of the Civil Department has published a paper on fresh and hardened properties of high performance concrete with weld slag as fine aggregate Vol 9, No 2 in Research organized by International journal of construction engineeirng and planning on 21.02.2024

Mr.B.Jose Ravindra Raj / Assistant Professor has attended a webinar entitled Gurardians of innovation: Explloring Intellectual property Rights in Higher Education in University of Technology And Applied Science on Vol 9, No 2 20.02.2024

Certificate of Attendance

This is to certify that

Mr. B. Jose Ravindra Raj

has attended a webinar entitled

"Guardians of Innovation: Exploring Intellectual Property Rights in Higher Education"

that was held online on 20th February 2024.

DR. ALAMIR NASSER SALIM AL-AIAWI
Assistant Vice Chancellor –Ibri

STUDENTS ACHIEVEMENT

CERTIFICATE

This Certificate is awarded to

JAMBUMESVARAN . S

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TRICHY CHAPTER

SIMSG ISSMGE

International Symposium on

Geotechnical Aspects of Heritage Structures

(ISGHS 2024)

Certificate

This certificate is awarded to **Raghul. S** in recognition of his/her commendable participation at the ISGHS 2024, organized by the National Institute of Technology Tiruchirappalli in association with the Indian Geotechnical Society Trichy Chapter and International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) between 14-16 February 2024

Dr. K. Muthukkumaran
Chairman,
IGS Trichy Chapter

Dr. V. Senthilkumar
Honorary Secretary,
IGS Trichy Chapter

TRICHY CHAPTER

SIMSG ISSMGE

International Symposium on

Geotechnical Aspects of Heritage Structures

(ISGHS 2024)

Certificate

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