

أيام الدكتوراه 2023

اشرف السيد عميد كلية العلوم التطبيقية بجامعة قاصدي مرباح ورقلة بمعية رؤساء الأقسام اليوم الثلاثاء 30 ماي 2023 على الساعة التاسعة صباحا على انطلاقة أيام الدكتوراه لطلبة الدكتوراه للكلية

وكانت الانطلاقة بقسم الهندسة المدنية والري. على أن يستأنف العرض للأقسام الأخرى تواليا ابتداء من يوم الخميس 01 جوان 2023 لباقي أقسام الكلية قسم هندسة الطرائق. قسم الهندسة الميكانيكية. وقسم الهندسة الكهربائية بالتوفيق لطلبة الدكتوراه المشاركين

والشكر الجزيل لفرق التكوين والأساتذة المشرفين على عمليات التقييم ولكل الطاقم الإداري المرافق.





Diapositive 1 - Adobe Acrobat Reader (64-bit)

File Edit View Sign Window Help

Home Tools Diapositive 1

1 / 1

Sign In

Kadi Merbah Ouargla University
Faculty of Applied Sciences
Department of Civil Engineering and Hydraulic
2022/2023

Ph.D. student
GONDIL Ishak

ishakgondil@gmail.com
gondil.ishak@univ-ouargla.dz

Supervisor:
KEBAILI Mustapha

Evaluation of the shear strength of dune sand reinforced with a geotextile

ABSTRACT

The study is concerned with estimating the possibility of using dune sand (DS) in the field of construction. Among the main intrinsic characteristics that prevent the use of these soils, are the lack of compaction, as well as the lack of cohesion. The study is based on the use of a triaxial shear device to measure, mainly, the shear properties of the soil (C and ϕ) and other parameters of the soil (E and ν). In the second stage, the sandy soil was filled with geotextile material (GTX), including reconstructing the same shear experiments. The study showed a significant improvement in the stickiness of the reinforced sandy soil. On the other hand, the engineering design of the geotextile material supporting the sand was changed, in order to determine the optimal shape of the holes created in them, as well as the distance between these holes.

Keywords: Dune sand, Geotextile, Shear strength, Reinforcement, Inclination

INTRODUCTION

Dune sand is one of the most abundant natural materials in Algeria, especially in the south of the country. The abundance and low price of these materials made geotechnicians and civil engineering partners consider their use. Dune sand is considered an important component in

RESULTS AND DISCUSSION

500
400
300
kPa

$C = 00 \text{ kPa}$
 $\phi = 33.35^\circ$

29°C











