## RHEOLOGY OF CEMENTITIOUS MATERIALS ASSIGNMENT GROUPS

## 1<sup>ST</sup> GROUP

<u>Topic:</u> Effect of micro silica/silica fume (5%) replacement on the rheological properties of cement-based pastes.

Student Number	Name	Surname
21596028	ABDULAZIZ M. O.	ALHADDAD
22596007	AİCHA	KASSAS
22596008	AMJAD	DAHER
22596009	SALEH	HASHİSH
22596016	MOHAMMAD FAHMI	MOHAMMED
23596008	HUZEYFE ÖMER	ABDÜSSELAMOĞLU
23596010	AREF	BADALI

## 2<sup>nd</sup> GROUP

Topic: Effect of superplasticizer addition (1%) on the rheological properties of cement-based pastes.

Student Number	Name	Surname
225C3028	ECEN	DÜZTAŞI
235C3001	DAMLA BERRAK	ÇALIK
235C3005	DERYA	KANAT
235C3006	İREM	YEŞİLYURT
23513038	ÖMER CAN	ÖZEN
23513039	ÖZLEM	BALIK
23596007	VOLKAN	AÇIK

## 3rd GROUP

Topic: Effect of fly ash (%10) replacement on the rheological properties of cement-based pastes.

Student Number	Name	Surname
21513031	MOHAMMED M. MOHIELDIN	ABDELNABY
225C3025	MELİKŞAH	GÖKTÜRK
22596006	MUHAMMET	TAȘCI
235C3015	ALİ EREN	AKGÜN
235C3016	İBRAHİM	YILDIZ
235C3020	HİLAL	AKÇAY

After your laboratory study, you must determine the rheological parameters (plastic viscosity, yield stress) via selecting the proper rheological model of your mixtures and with stress-plataeu approach if it works. Plot flow and viscosity curves of cement paste and discuss the rheological behavior. Additionally, groups must compare their experimental study results with the literature. At least 5 different papers should be referred while discussing the results. You should prefer up-to-date papers and journals that have high impact factors. Groups will present their study with a **presentation on 16 May**. These presentations must include all the details about the experimental study and the literature review. All the group members must attend to presentation.