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| BUILDING MATERIALS LABORATORY |
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| General Information | Relay information about internal structure and properties of materials and relation between them to the undergraduate and graduate students.Ensure that academicians and graduate students to carry out various research projects.Industrial and Arge test inspection and analization work to be performed. |
| Applications4 | * Properties and production techniques of fresh concrete, hardened concrete, reinforcement steel, concrete kerb units, concrete paving blocks.
* Properties and production techniques of natural stone, aggregate, cement, brick, tile, aerated concrete etc.
* Properties of pozzolanic materials.
* Durability of materials.
* Properties of gypsum products and waste gypsum and recovery of waste gypsum.
* Properties of building material waste and its recovery.
* Investigation of material properties in historical buildings by destructive and non-destructive testing.
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| Equipment  | * Concrete and Beam Test Press (2000KN)
* Steel Tensile Test (600 KN)
* Cement/Mortar Mixer (4.5lt)
* Concrete Slump Set
* Analytical Balance (0,001g x 360gr)
* Digital Scales (300mm)
* Digital Balance (6000gr.0.1gr)
* Sieve Shaker-Sieve Set
* Drying Oven 240lt, 5°C/250°C)
* Oven Ash Furnace (4lt 1200°C)
* Water Purification
* Comparator (10 x 0.01mm)
* Shrinkage Experiment Kit
* Vicat Apparatus
* Scales Device (150kg.-10gr.)
* Concrete Mixer (100lt)
* Concrete Vibrator
* Air Compressor (8 bar/25 lt)
* Curing Tank (700x1700x850mm)
* Archimedes Scale (specific gravity stand, 30kg.-0.5gr.)
* Concrete Water Permeability Device
* Beam Crushing Press
* Concrete Test Hammer (Schmidt Hammer)
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| Projects | GTU 101 BAP (2018-2019), A Study on The Evaluation of Waste Plasterboards Generated During The Construction Process, (Assoc.Prof.Dr. Cahide Aydın İpekçi)GTU 105 BAP (2018-2020). The Assessment of the Potential of Waste Glass Powder as a Partial Cement Replacement Material in Concrete According to the Requirements of TS EN 206 Concrete Standard. (Assoc.Prof.Dr. Tayfun Altuğ Söylev) |