

# UNIVERSITAS INTERNASIONAL BATAM

---

*Faculty of Civil Engineering And Planning  
Civil Engineering Study Program  
Odd Semester 2019/2020*

## **ANALYSIS OF DEBIT CALCULATION ON DRAINAGE CHANNEL MEGA SUPERBLOCK MEISTERSTADT BATAM CENTER CONSTRUCTION PROJECT**

DELFINA ANNISA  
NPM: 1611047

### **ABSTRACT**

*Drainage is a water channel that is located below the surface of the ground, drainage is made to reduce the discharge excessive water in a low area. Drainage is usually made by humans which is commonly called "a ditch" but there are some cases of drainage that can be formed naturally because of soil erosion due to water flow. Drainage also plays an important role in tackling the problem of flooding and dirty water disposal. Therefore, drainage has three types of system, namely local drainage, main drainage, and flood control, For the calculation of rainwater discharge, I used the rational method from Imam Subarkah. And I took the place for the project in Pollux Meisterstadt which is under the auspices of PT. Aesler International Group.*

*Based on the calculation of hydrology and hydraulics that on the project: Pollux Meisterstadt applies zero run-off concept, where the discharge of the surface flow after construction is the same as before the construction started.*

*Key words : Drainage, Water Channel, and Water Discharge*