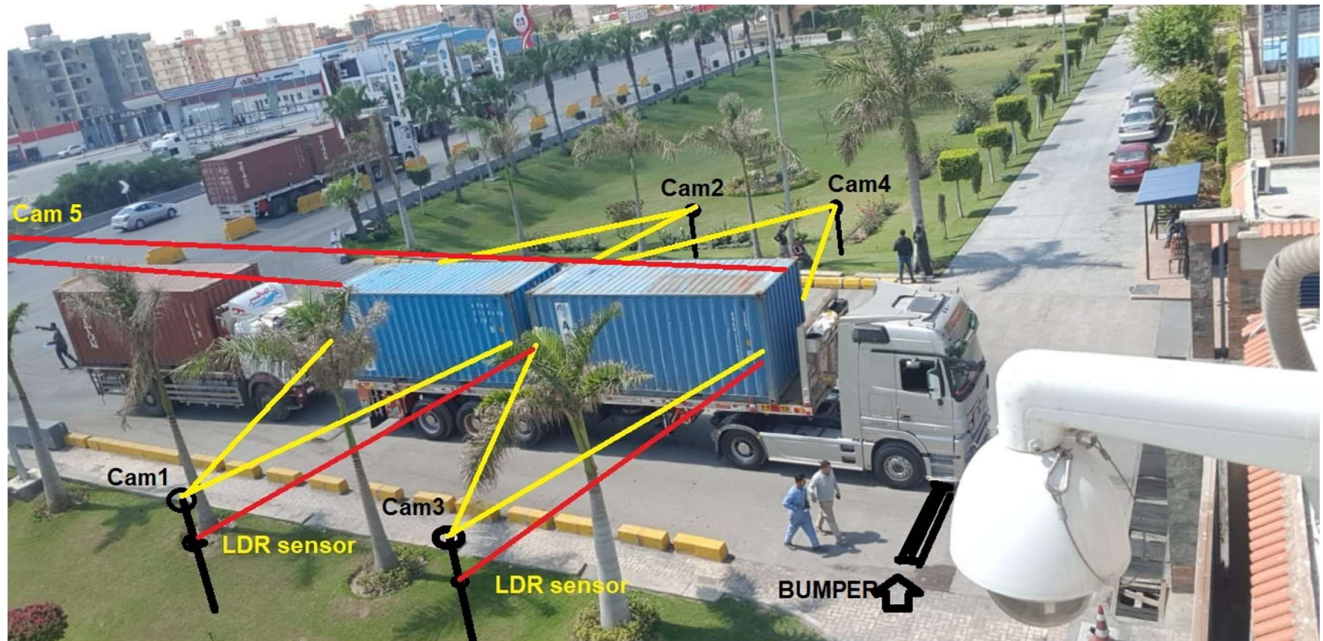


# Research and Consulting Center for the Maritime Transport Sector

## Lecture: Applied Research "Development Portal"

04 November 2021

With attendance of the Egyptian ports authorities' representatives, the lecture present department's project "Container BIC Code OCR using AI".



The screenshot shows a software interface for container BIC code recognition. On the left is a vertical image of a camera pole. The main interface includes a 'Daily Container List' table, a search bar for container codes, and a multi-camera video feed.

Time In	Container Code	CODE OK
16:41:26	MAGU5201701	<input checked="" type="checkbox"/>
16:40:57	CBHU4267790	<input checked="" type="checkbox"/>

Gate in time: 16:41:26 HH:MM:SS  
Container Code: MAGU5201701 SEARCH  
Short Container:  Calculated Check Digit: 1  
Location Number: 0123456789  
GATE OUT:   
Gate out date: 2019 ديسمبر 16  
Gate out time: 12:01:01 HH:MM:SS  
ADD NEW CONTAINER UPDATE CHANGES

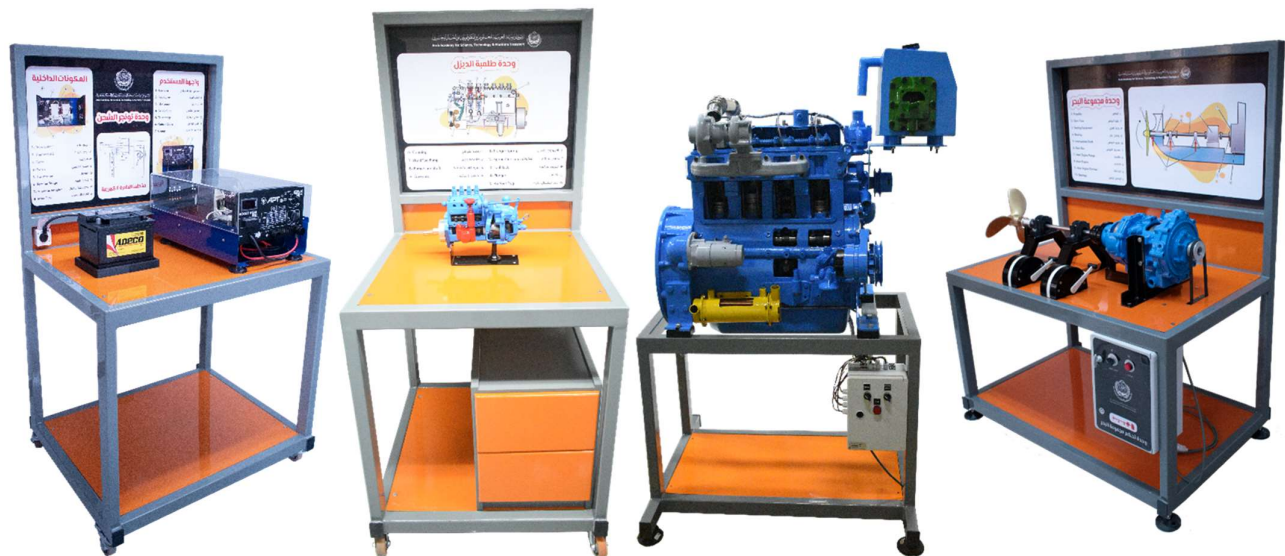
Video feed windows: Right Back Camera 1, Right Front Camera 3 - MAGU5201701, Left Front Camera 4 - CBHU4267790, Left Back Camera 2 - MAGU5201701.

## Advised to National governmental entities

### Egyptian Ministry of Transport River Transport Authority

Building training kits for the Egyptian Transport Authority (RTA) for training laboratories.  
The project divided into 3 phases for most mechanical equipment used in river vessels.

The training kits were made using real equipment after making necessary modification like cross sections for training purposes.



# Disinfection Gates

In 2020, as COVID-19 pandemic swept the world, in an attempt to limit its spread among people who frequented their jobs or various bodies and institutions.

The R&D department at Industry Service complex with the direct support of His Excellency the President of the Arab Academy designed and manufactured disinfection gates to carry out a partial disinfection process for people when they passed through it.

73 were manufactured for the Arab Academy, which distributed it to many Egyptian state institutions and branches of the Arab Academy in Egypt.



**نظراً للحاجة الشديدة لـعمل تعقيم كامل للأشخاص أو المكينات والمؤسسات المختلفة، وتلبية الحاجة الي عدم توقف العديد من المؤسسات الحيوية وتبديدها في إدارة الأزمات قررت العمل على تطوير فكرة التعقيم بـمكونات محلية لتسهيل الصيانة والتعقيم.**

**المواصفات الفنية**

- أبعادها الداخلي من 2.2متر عرضاً و 2.0متر عمقاً
- بوابة التعقيم الخارجية تعمل بنظام 10 حتى 2000 بيوت
- مساحته الإجمالي 2000 متر مربع من 1500 متر وعمقها 1500 متر
- توجد خزانة التبريد 3 درجات مع قفول وقوة تحمل عالية
- صمامات إلكترونية على صمامات المياه لتعمل على 7.5 متر عمق
- وحدة تحكم رقمية تتيح برمجة وقت التعقيم
- تعمل على التحكم الكامل في وقت التعقيم
- التي تتيح التحكم الكامل في وقت التعقيم
- منظومة نظيف لتجويد على (B - 0) رشاشات
- التشغيل عن الأوتومات و ضبطه بأزواج البانير
- محركات كهربائية من نوع 3 فاز عالي الضغط
- حلاق التعقيم ذو خنجر وغطائه من مادة الصلابة
- الحماية والتي تعمل على التبريد و غير ذلك التفاصيل

**الجهاز المستعملة**

- مضخات المياه
- مركز القيادة
- الأوتومات
- محرك البريد
- شركات التبريد
- مضخات الدفع الإلكتروني
- المضخات الإلكترونية
- مضخات التبريد والمضخات
- الشركات والمصانع والمدارس
- شركات الصيانة (كهرباء - غاز - مياه)

01150502226 #STAY\_SAFE



## AASTMT 2020 Grants

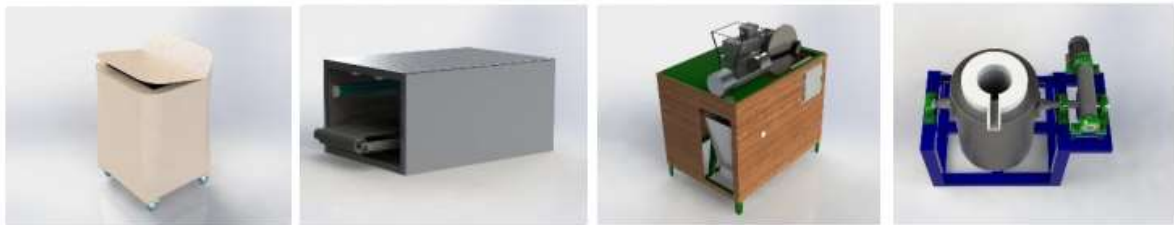
2020 Call for Collaboration Research and Innovation Project. The goal of this call is to create a long-term research collaboration between AASTMT researchers and regional research institutions through open competition to promote multi-disciplinary collaborative research and development (R&D) projects within AASTMT.

R&D Department at Industry Service Complex has granted fund for two Collaborative Research Project (CRP) projects:

- **Project 2068**

### Campus Smart Recycling System (CSRS)

The project is about build and implement sustainable self-sufficient recycling system to turn AASTMT campus food organic wastes and recyclables into valuable products that have economical values, which can be used to reduce the campus running expanses. The proposed system is targeting only 3 types of campus wastes (Organic food remains-Plastic tableware-aluminum cans).



- **Project 2069**

### Design and Implementation of a Mobile Ventilator (DIMV)

Project objective is to design and implement a mobile ventilator prototype that will allow the manufacturing of a reduced-price ventilator to be used in AASTMT clinics and in public hospitals.

