



الجامعة المصرية اليابانية للعلوم والتكنولوجيا  
エジプト日本科学技術大学  
EGYPT-JAPAN UNIVERSITY OF SCIENCE AND TECHNOLOGY



# SUSTAINABILITY Report

## 2023

This report is the product of fruitful collaboration among the **Sustainable Development Committee** members of both academic and administrative staff. We would like to sincerely thank all of them for the hard work and commend them on their relentless effort in putting together all the data presented within these pages.

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# List of Acronyms

<b>ACM</b>	Applied and Computational Mathematics.
<b>BAS</b>	Basic and Applied Sciences Institute
<b>Bio</b>	Biotechnology Program
<b>CPE</b>	Chemical & Petrochemical Engineering
<b>CSE</b>	Computer Science and engineering
<b>E-JUST</b>	Egypt-Japan University of Science and Technology.
<b>ECCE</b>	School of Electronics, Communication, and Computer Engineering
<b>ECE</b>	Electrical and Computer Engineering
<b>EECE</b>	School of Energy Resources, Environmental, Chemical, and Petrochemical Engineering
<b>EMA</b>	Energy Materials Program
<b>ENV</b>	Environmental engineering
<b>ERE</b>	Energy Resources Engineering
<b>FIBH</b>	Faculty of International Business and Humanities
<b>FOE</b>	Faculty of Engineering
<b>IDE</b>	school of Innovative Design Engineering
<b>IME</b>	Industrial and Manufacturing Engineering
<b>MTR</b>	Mechatronics and Robotics Engineering
<b>MSE</b>	Materials Science and Engineering
<b>NAN</b>	Nanoscience Program
<b>RIA</b>	Regional and International Affairs Office
<b>SDGs</b>	Sustainable Development Goals
<b>SEN</b>	Space Environment
<b>SIB</b>	School of International Business
<b>SoH</b>	School of Humanities

Sustainable development involves using resources to meet human needs while recognizing the importance of preserving the environment for future generations. It aims to increase awareness that natural resources must not be depleted so that they can be sufficient for future generations. Therefore, it is necessary to maintain a balance and equitable distribution of resources to fulfill the basic needs of all living beings. However, the region has been facing increasing challenges in achieving the 17 Sustainable Development Goals due to a rise in human-caused crises, and natural disasters. Therefore, it is important to understand the role of educational institutions in creating positive change and leaving a



lasting impact on the community, particularly among vulnerable populations, who have been disproportionately affected by the world's economic, social, educational, and environmental crises. At E-JUST and throughout the country, it is essential to understand that sustainable living requires a focus on environmental conservation and equitable distribution of resources. As a university dedicated to supporting the nation's GDP through science and technology, E-JUST is committed to achieving sustainable development goals related to climate change, education, and gender equality. Sustainable development is at the forefront of E-JUST's strategy for addressing global challenges in this era of rapid change and daunting difficulties since it is critical to expedite our efforts to fully implement the 2030 Agenda for Sustainable Development.

Our unwavering commitment to transforming E-JUST into a sustainable community and an education model has been the foundation of our persistent efforts. The University's aim is to establish E-JUST as a leader in sustainability in Egypt and a force for positive change. As an educational institution dedicated to enhancing the community through our relentless endeavors, we continuously strive to make a substantial impact on various sustainable development goals related to environmental degradation, climate change, education quality, and gender equality. Consequently, sustainable development has become increasingly important at E-JUST and has become a central focus in our strategy for addressing global challenges.

The report showcases our tireless efforts to address global challenges and reaffirm our role in achieving the fundamental principles of the SDGs. It demonstrates how E-JUST persevered in the face of challenges and took decisive actions to advance society towards a future where the fundamental principles of sustainable development are accessible to everyone, not just a privileged few. This future is one that benefits all generations, and E-JUST is working towards making it a reality.

**Prof. Amr Adly**

**President of Egypt-Japan University of Science and Technology (E-JUST)**



As E-JUST enters a new phase of working towards achieving the SDGs, we are persistently pursuing our efforts despite the unsettling challenges. Our aspiration to excel in accomplishing the SDGs goes beyond borders because we recognize our social responsibility as an educational institution not only to serve the Egyptian community, which has been increasingly suffering due to worldwide difficulties, but the African continent as a whole. Our University has been devoting serious efforts to creating a better society through our educational practices and research toward sustainability. Among E-JUST's most prized contributions is its social responsibility toward gender equality, which ensures a

better future for upcoming generations. Gender-based discrimination and inequality have been a continual concern for the University, and it believes that gender equality is essential to accelerate sustainable development. E-JUST is also focused on providing quality education to its students by partnering with the industrial sector and world-class research institutions. Furthermore, the university is committed to protecting and preserving the environment and raising awareness in the community. It is developing alternative methods for generating affordable and clean energy while reducing energy and electricity consumption. Furthermore, the University is prioritizing innovative methods for energy production and clean technologies. As a socially responsible educational institution, E-JUST also strives to ensure the availability and sustainable management of purified water, sanitation, and hygiene practices. The university's efforts to increase the use of renewable energy are also parallel with its extended efforts to provide pure drinkable water for the community.

This report reflects our attempt to assess the influence of our University in resolving worldwide problems, and hence, strengthening the fundamental principles of sustainable development goals. Our actions, as well as our prospective initiatives, will certainly enable us to affirm our pivotal role in improving our community, particularly for those who are disadvantaged.

**Prof. Mona Gamal El-Din Ibrahim**

**Dean of Energy Resources, Environmental, Chemical, and Petrochemical Engineering School (EECE)**

**Professor of Environmental Engineering**

**Head of Sustainable Development Committee**

**Egypt-Japan University of Science and Technology**



I would like to express my sincere congratulations on publishing the “Sustainability Report 2023”, which describes the activities and the outcome of E-JUST’s contribution to the Sustainable Development Goals. Such a report encompasses the rewarding outcome of the fruitful collaboration between Egypt and Japan. Egypt hosted COP27 at Sharm El Sheikh last year, which was the occasion to show Egypt’s leadership in the realization of a sustainable society to the world, and I witnessed that E-JUST had a significant role in this initiative. E-JUST was established in 2009 under the bilateral agreement between the Egyptian and Japanese governments. Since the beginning, the

Japanese government has been fully supporting E-JUST through JICA (Japan International Cooperation Agency) through various means of cooperation, such as dispatching Japanese professors, providing state-of-the-art equipment offering training programs in Japan, and working towards industry collaboration. Currently, 7 Japanese experts are working at E-JUST, including two vice presidents. We also have professors from 13 Japanese universities who cooperate with the aim of enhancing education as well as research activity at E-JUST.

JICA is a Japanese governmental agency, which extends extends cooperation internationally across partner countries. The agency highlights the importance of ensuring sustainability in every aspect of development as reflected in the Development Cooperation Charter of Japan, as well as the SDGs. Not only should huge consideration be given to the Sustainable Development of the environment, but also the economy and society should be placed at the forefront of E-JUST’s top priorities. Although there was a time when social problems were expected to be solved as a result of economic growth alone, it is now widely recognized that inequalities within countries, vulnerabilities, and various other social issues are not automatically solved by economic growth. JICA will contribute to the achievement of the SDGs by collaborating with local and international partners with the hope of overcoming existing challenges.

We have to bear in mind that STI, E-JUST’s strength, should bring benefit to the community and society as a whole. I believe that E-JUST can contribute to promoting an inclusive and sustainable society through its STI with the collaboration of a Japanese partner.

**Dr. Okano Takasei,**  
**Chief Advisor, JICA E-JUST Project**

# Executive Summary

## Visit of The Honorable Ms. Yuriko Koike Governor of Tokyo to E-JUST

Prof. Amr Adly: Looking for ways to strengthen cooperation between E-JUST and Tokyo Metropolitan Government.

H.E. Ms. Yuriko Koike: The accomplishments E-JUST has achieved are the fruits of cooperation between Egypt and Japan.

Prof. Amr Adly, President of Egypt-Japan University of Science and Technology (E-JUST), received H.E. Ms. Yuriko Koike, the Governor of Tokyo, on the 10th of November, 2022 with a high-level delegation from the Tokyo Metropolitan Government along with a number of officials from the Embassy of Japan and in the presence of the University's top management.



## E-JUST granted scholarships to 51 African students

E-JUST granted scholarships to 51 African students from 12 African countries, for the 2022 academic year. Also, E-JUST has offered 150 postgraduate scholarships over three years reserved for African students as per the seventh Tokyo International Conference of Africa's Development, TICAD7.



## Participation in the COP27, Sharm El-Sheikh from 6 to 18 November 2022

Prof. Mona Gamal El-Din has been invited by Japan International Cooperation Agency (JICA) to participate in the Japan State Pavilion and held a seminar entitled "E-JUST's Role in Raising Awareness, Building Knowledge Of Hydrogen Energy, and Actions to Tackle Climate Change" on Friday, 2022/11/11 (Decarbonization Day), through which she explained E-JUST journey of excellence and talked about the EECE's capabilities to produce hydrogen as clean energy, in addition to the activities carried out by the university to raise awareness and tackle climate change. The seminar is moderated by Mr. KATO Ken, Chief Representative of the Japan International Cooperation Agency (JICA) Egypt Office.



## E-JUST New Performance Appraisal System (PAS):

E-JUST is rolling out a new performance appraisal system. It is part of its ongoing effort to grow its impact, support staff development, and promote fairness and transparency. In July 2022, two physical meetings were held with Mr. Oshima - Retsumeikan University, the Secretary-General, the JICA team, and the HR team to discuss the set plan for the Performance Appraisal System (PAS).





# Introduction

This report is a product of collaboration between eminent professors, researchers, as well as administrative staff. Each chapter encompasses a series of Sustainable Development Goals that best represent E-JUST's commitment to achieving global sustainability. It emphasizes the critical role that education has in delivering the Sustainable Development Goals and the value it brings to governments, businesses, and wider society, thus, reaffirming the University's commitment to making a significant, sustainable, and socially responsible contribution to Egypt and the world. The data included in this report is based on E-JUST activities from January to December 2022.

The Sustainable Development Goals (SDGs), also known as the Global Goals, were adopted by all United Nations Member States in 2015 as a universal call to work towards ending poverty, protecting the environment and ensuring that all people enjoy peace and prosperity by 2030. Through its research, learning and teaching, operations and community of staff, and students, the University is committed to delivering these Goals. However, the following report only sheds light on the SDGs lying within the scope of E-JUST and in which the University has made fundamental advances in their regard. As part of its commitment to the Sustainable Development Goals Accord, the University will highlight projects and initiatives that directly contribute to each of the Goals within its scope.

Among the Goals which E-JUST is dedicated to is providing quality education. Obtaining a quality education is the foundation for creating sustainable development. In addition to improving quality of life, access to inclusive education can help equip students with the tools required to develop innovative solutions to the world's greatest problems. Our University has sought to reach this Goal by providing lifelong learning opportunities and granting students access to all facilities required to excel in their fields.

Gender equality is not only a fundamental human right but a necessary foundation for a peaceful, prosperous, and sustainable world. Therefore, E-JUST works towards ensuring gender equality by offering equal opportunities for both males and females in education (undergraduate and postgraduate studies) as well as at the employment level.

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Furthermore, clean water and healthy sanitation are among the Goals that E-JUST is committed to accomplishing, not to mention its unceasing effort to secure affordable and clean energy sources through projects and national/international collaborations.

Employment practice also comes at the university's top priorities. Workshops, training, and language enhancement courses have been conducted to help enhance staff skills and qualifications, in addition to internships.

Industry, innovation and infrastructure projects pertaining to Goal 9 represent a substantial segment of the University's effort to commit to sustainability. This section in the report demonstrates the revolutionary industrial project which E-JUST has funded, and it also illustrates the statistics of filed patents and industrial collaborations.

Among the other Goals, which Egypt-Japan University of Science and Technology is working towards, is having sustainable cities and communities through showcasing our heritage, history, and culture, while integrating the Japanese factor. Giving public access to Ancient Egyptian landscapes along with modern art exhibitions is a solid proof of E-JUST's relentless effort. Also, integrating Japanese culture in all its aspects with the Egyptian culture enables students and staff alike to experience the cosmopolitan atmosphere on campus.

Moreover, climate action was adopted by E-JUST for the sake of combating global environmental issues with a due focus on climate change. The action plan is concerned with four milestones; operation, research, education, and consultancy.

Furthermore, we cannot hope for sustainable development without peace, stability, human rights, and effective governance, based on the rule of law, yet our world is increasingly divided. Some regions enjoy peace, security, and prosperity, while others fall into seemingly endless cycles of conflict and violence. This is not inevitable and must be addressed. E-JUST has decided to address Goal 16: "Peace, justice and strong institutions" by selecting representatives from all University sectors to represent it on different axes ensuring the integration of all groups in the decision-making process.

Strengthening means of implementation and revitalizing the global partnership for sustainable development is widely seen in E-JUST's efforts to form collaborations on national and international levels to help provide better education, innovation, and scientific research, tackle inequality, and combat climate change through holding and participating in national/international conferences, forums, and symposiums.



## Goal. 4 Quality Education



### • Aim

E-JUST adopts a state-of-the-art educational system that is based on Japanese academic concepts and mainly relies on project-based education and problem-solving learning techniques.

The University offers unique academic programs with close interaction with the industry, as well as multidisciplinary research. We aim to become a role model for educational and research institutions in Egypt by fostering Japanese educational standards, policies, and systems. In this regard, the University seeks to strengthen the ties of collaboration between Egyptian and Japanese academic institutions.

Therefore, in line with Goal 4; "Quality Education", E-JUST strives to contribute to the improvement of human resources in the region, by providing a high-level educational system and offering pragmatic and innovative solutions to human needs. Moreover, by building partnerships with key Japanese academic and research institutions as well as industrial companies, we aim at conducting applied research that would expose students and faculty members to real-life research activities, and acquaint them with the Japanese systems, know-how, and advanced technologies.

### • Actions

#### Academic Issues- Post-Graduate Studies

##### Admission

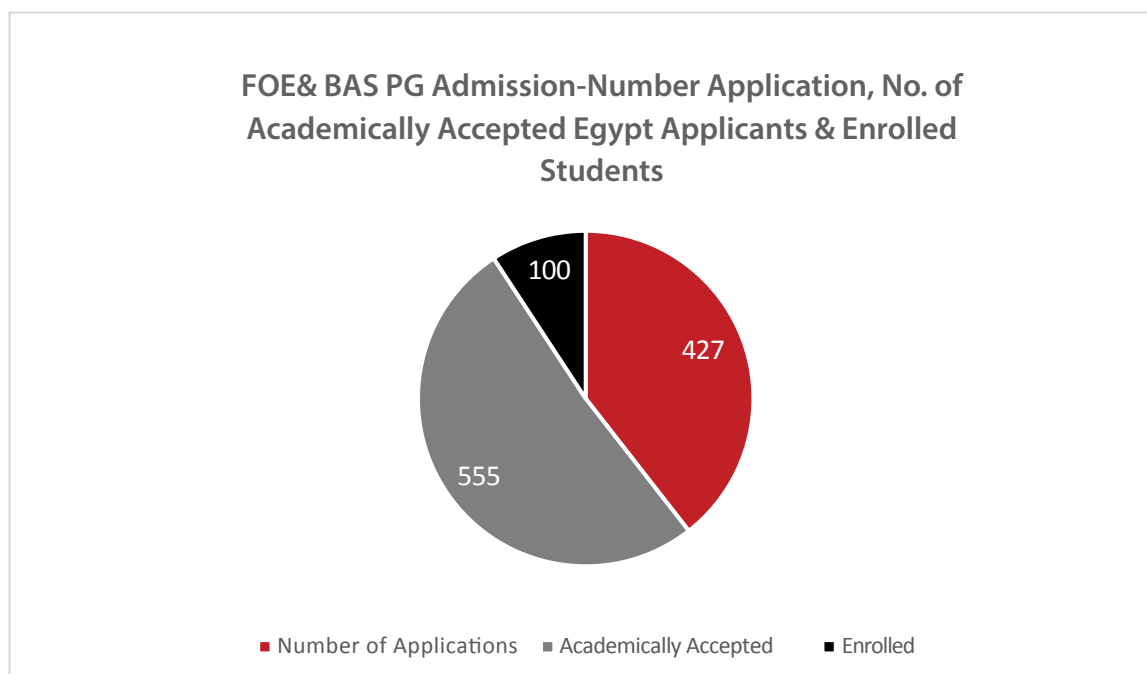
##### A. Faculty of Engineering (FOE) and Basic and Applied Science Institute (BAS)

(FOE and BAS) PG Admission Statistics per Semester

Semester	No. of Applications	Passed First Screening	Attended Exams and Interviews	Passed Exams and Interviews	Waiting List from Previous Batches	Total Academically Accepted	Academically Accepted + Fulfilled English Requirement	Enrolled Students	
Fall 2021 *	156	130	96	78	130	208	89	20	22.4%
Spring 2022	116	102	74	47	129	176	118	45	38.1%
Fall 2022	155	127	76	66	105	171	123	35	30%

\* Fall-2021-2022

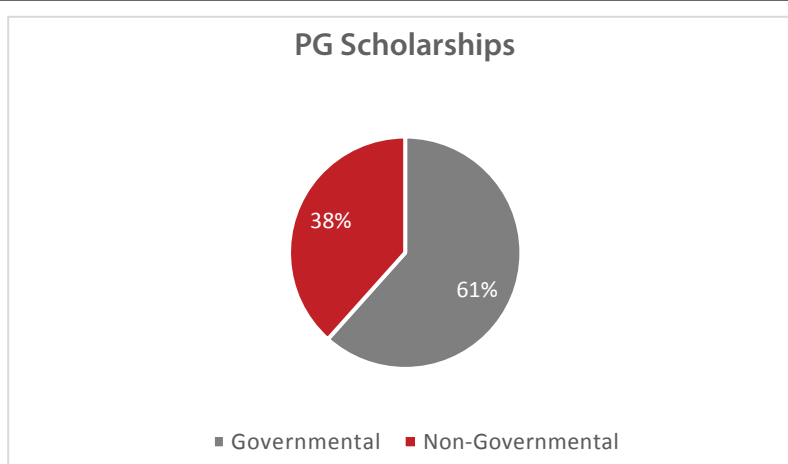
- **85** applicants applied for non-Governmental scholarships, and only **13** applicants were awarded Teaching Assistants scholarships.
- **2** applicants were accepted as self-funded students.
- **36** Applicants applied for governmental scholarships including **20** awarded MOHE scholarships, **6** applicants did not complete the admission requirements, and **10** applicants postponed to Fall-2022.



\* The number of academically accepted students is higher than the number of applications because of the waiting list

#### FOE & BAS PG Admission Statistics of Governmental & Non-Governmental Scholarships

FOE & BAS – PG Academically Accepted and Fulfilled Language Requirement Applicants	Governmental Scholarship		Governmental Scholarship Total	Non-Governmental Scholarship		Non-Governmental Total	Self-funded
	Enrolled	Did not Enroll		Enrolled	Did not Enroll		
Fall 2021	17	7	24	4	65	69	0
Spring 2022	24	15	39	21	60	79	0
Fall 2022	20	49	69	3	33	52	2



#### FOE & BAS - PG Enrollment Percentage for Governmental & Non-Governmental Scholarships

- Enrollment percentage: number of enrolled students / academically accepted students who fulfilled the language requirement.
- Two factors affect the enrollment of postgraduate students, namely:  
English Language Requirement Fulfillment  
Fund Availability
- For Non-Governmental Scholarships, the limited number of available private scholarships and the burden of tuition fees are the reason for the enrollment gap.

## B. Accounting and Information Systems (AIS) Program

### AIS Program Admission Statistics

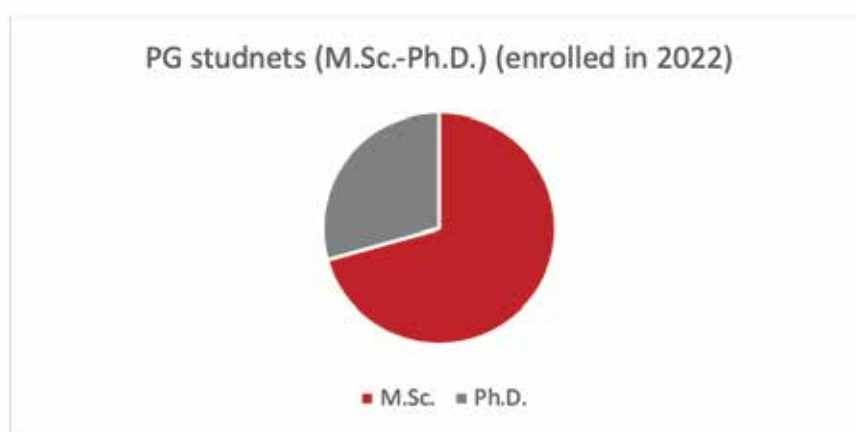
AIS -PG Admission 2020 Year	Fall 2021	Spring 2022	Fall 2022
No. of Applications	8	14	8
Passed First Screening & Invited for Exams and Interview	5	14	7
Attended Exams and Interviews	3	13	4
Passed Exams and Interviews	2	9	4
Waiting List from Previous Batches	1	3	6
Total Academically Accepted	3	12	10
Academically Accepted and Fulfilled English Requirement	0	5	5
Enrolled Students	0	6	2

## Registration

Number of current postgraduate students (FoE and BAS) - National and International till October ,23 2022,

Registration Statistics of (FOE & BAS) PG Students - National & International

Semester	MSc.	Ph.D.	Ph.D. Double Degree	Total
Fall 2021	28	10	1	39
Spring 2022	50	25	0	75
Fall 2022	42	15	0	57
<b>Total</b>	<b>117</b>	<b>50</b>	<b>1</b>	<b>171</b>



Current PG Students (National & International)

## Current Student Enrollment (FoE and BAS)

Current No. of Students per Program

Program	MSc.	Ph.D.	Current Grand Total	Total last BoT
ECE	21	15	36	28
CSE	9	1	10	11
WRC	1	0	1	0
MTR	18	4	22	23
IME	7	15	22	22
MSE	15	8	23	19
ERE	14	25	39	38
ENV	19	16	35	30
CPE	11	8	19	20
EPE	9	8	17	14
NAN	15	6	21	17
BIO	22	29	51	47
ACM	7	9	16	15
EMA	10	4	14	11
SEN	13	1	14	9
<b>Grand Total</b>	<b>191</b>	<b>149</b>	<b>340</b>	<b>304</b>

## M.Sc. and Ph.D. Statistics of national Students per Scholarship for FoE and BAS:

M.Sc. and Ph.D. Statistics of national Students per Scholarship for FoE and BAS

Program	MSc.									MSc Total	Ph.D.					Ph.D. Total	Grand Total
	MoHE	Toyota Tsusho Scholarship	TICAD7 Scholarship	JICA	Mitsubishi	Governmental - International	Self-funded	SNG	TA Scholarship		MoHE	TICAD7 Scholarship	Individual	Self-funded	TA Scholarship		
ECE	2	0	15	0	0	0	0	0	4	21	11	0	0	0	4	15	36
CSE	0	1	4	0	0	0	0	0	4	9	0	0	0	1	0	1	10
WRC	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
MTR	4	0	7	0	0	1	0	0	6	18	4	0	0	0	0	4	22
IME	2	0	3	0	0	0	0	0	2	7	13	0	1	1	0	15	22
MSE	1	1	13	0	0	0	0	0	0	15	7	0	0	0	1	8	23

ERE	4	0	6	0	0	0	0	1	3	14	23	2	0	0	0	25	39
ENV	5	0	13	0	0	0	0	1	0	19	13	0	0	0	3	16	35
CPE	0	0	8	0	0	0	0	1	2	11	7	0	0	0	1	8	19
EPE	1	0	6	0	0	0	0	0	2	9	7	0	0	0	1	8	17
NANO	1	0	3	0	0	0	1	0	10	15	5	0	0	0	1	6	21
BIO	10	0	10	0	0	0	0	0	2	22	28	0	0	0	1	29	51
ACM	2	0	2	1	0	0	0	0	2	7	9	0	0	0	0	9	16
EMA	0	0	5	0	1	0	1	0	3	10	3	0	0	0	1	4	14
SEN	0	0	8	0	0	0	0	0	5	13	1	0	0	0	0	1	14
Grand Total	33	2	103	1	1	1	2	3	45	191	131	2	1	2	13	149	340

### Current students / Gender/ program (FoE and BAS):

Total of current students for FoE & BAS / (Home University / Institute)

Number of PG Students in FOE & BAS per Home University/Institute

Home University / Institute	No. of Students
Agricultural Genetic Engineering Institute	1
Ain Shams University	9
Alazhar University	1
Alexandria University	26
Assuit University	12
Aswan University	10
Benha University	17
Biomedical Engineer(Intern)	1
Biomedical Engineering Intern	1
Central Metallurgical Research and Development Institute (CMRDI)	1
City of Scientific Research and Technological Applications (SRTA-City)	1
Crystaland British school Lodu Umuahia	1

E-JUST TA	58
Electrical Maintenance Technician	1
Electronics Research Institute	2
Fayoum University	2
Helwan University	8
Institute of Central Metallurgical Research and Development Institute	1
International Student	90
Kafrelsheikh University	4
Laboratory Assistant	1
Mansoura University	12
Medical Laboratory Technologist	1
Menia University	5
Menoufia University	12
N/A	1
National Institute for Standards	1
National Research Institute of Astronomy and Geophysics (NRIAG)	1
Petroleum Research Institute	1
Private Scholarship	4
Process Engineer Trainee	1
Research and Teaching Assistant	1
Self-funded	5
Sohag University	6
South Valley University	2
Special assistant to the Vice President on policy analysis, Office Of the Vice President	1
Suez Canal University	9
Tanta University	8
Teaching and Research Assistant	2
Teaching Assistant	5
Teaching/Research Assistant	1
Technical & Vocational Trainer	1
Test Engineer	1
Zagazig University	11
<b>Grand Total</b>	<b>340</b>

## Number of Current Postgraduate Students (Faculty of International Business and Humanities)

Number of Current Postgraduate Students (FIBH)

<b>FIBH – Registered students</b>	<b>Grand Total</b>
M.Sc.	9
Ph.D.	5
<b>Grand Total</b>	<b>14</b>

## Total of Registered PG Students for FIBH / (Home University / Institute):

Number of Registered PG Students for FIBH / (Home University / Institute)

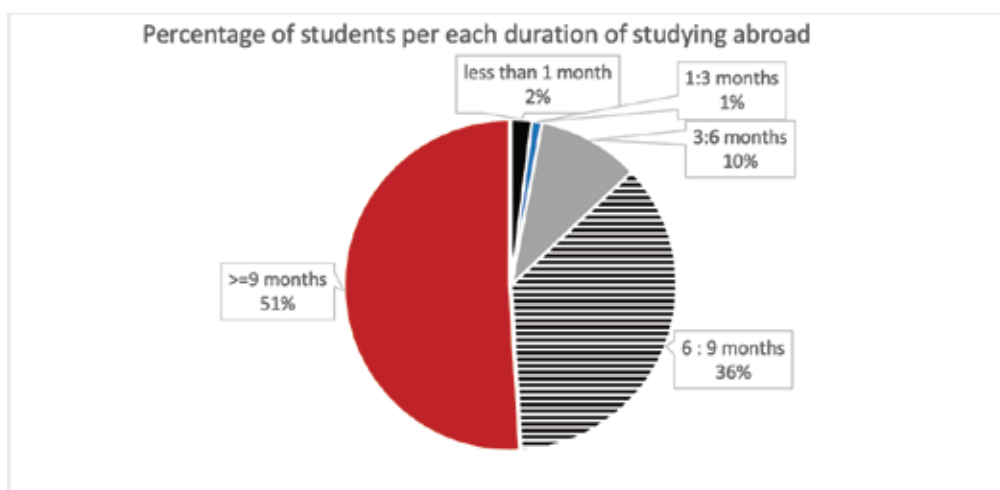
Home University / Institute	No. of Students
Assuit University	2
Cairo University	1
E-JUST TA	9
Mansoura University	1
Self-funded	1
<b>Grand Total</b>	<b>14</b>

## Graduation

### Students Travel to JSUC / USA / Europe Universities

Number of Students who travelled to JSUC/USA/Europe

Program	less than 1 month	1:3 months	3:6 months	6: 9 months	>=9 months	Grand Total
ECE			2	5	43	50
CSE	1		6	9	7	23
MTR		1	3	12	11	27
IME			3	4	11	18
MSE			1	8	10	18
ERE		1	3	15	12	31
ENV			2	14	12	28
CPE	3		1	8	1	13
NANO (BAS)		1	1			2
<b>Grand Total</b>	<b>4</b>	<b>3</b>	<b>22</b>	<b>75</b>	<b>107</b>	<b>211</b>
<b>Percentage %</b>	<b>2%</b>	<b>1%</b>	<b>10%</b>	<b>36%</b>	<b>51%</b>	



Most of the students who travelled to Japan stayed there for (6 months < 9 months) or (more than 9 months).

## Students Travel to JSUC / USA / Europe Universities per destination

Number of Students who traveled per destination

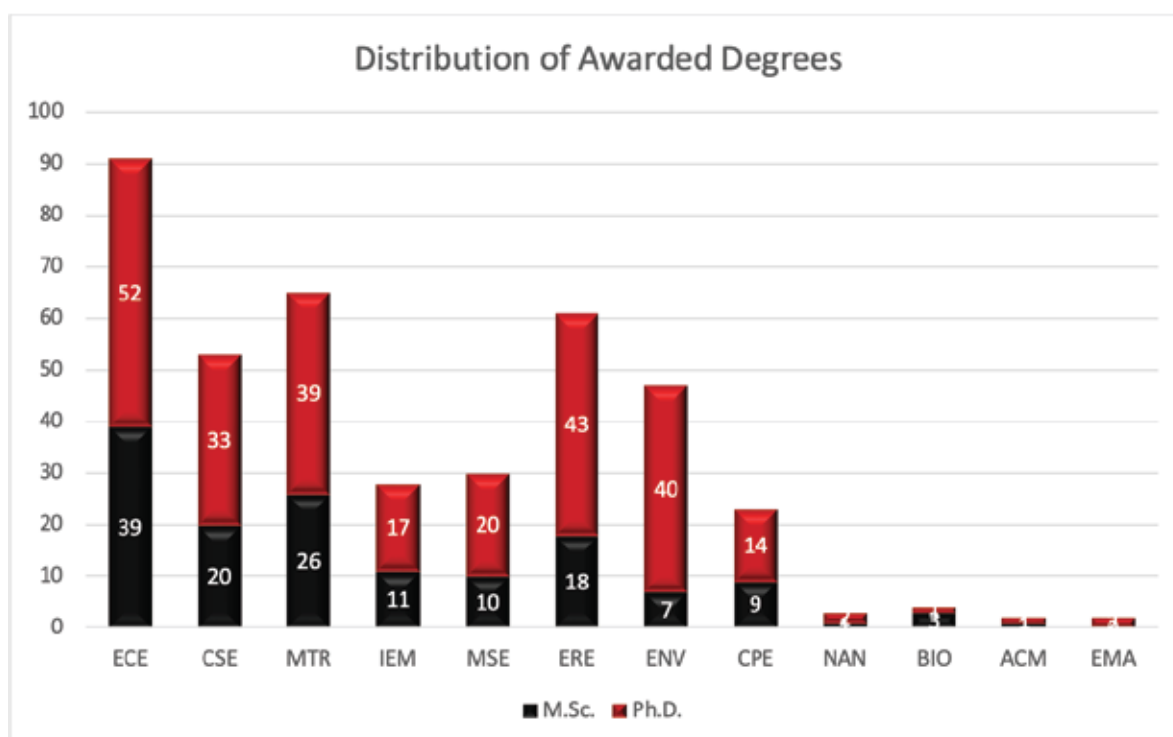
Destination	Grand Total
Tokyo Institute of Technology	68
Kyushu University	42
Waseda University	23
Osaka University	15
Kyoto University	16
Japanese National Institute of Informatics (NII)	4
Keio University	4
National Institute of Informatics	3
Tohoku University	3
Kobe University	2
Ehime	2
Nara Institute of Science and Technology	3
Tokyo City University	2
The University of Tokyo	1
Tokyo University of Science	2
Kagawa University	1
Kumamoto University	1
Aalto University	1
Nagoya Institute of Technology (NITech)	1
Tokyo University of Agriculture and Technology	1
Toyama Prefectural University	1
University of Toyama	1
RIKEN-TRI Collaboration	1
Institute Fur (Geodasie und Photogrammetrie)	1
USA	7
Europe	6
<b>Grand Total</b>	<b>211</b>

## Distribution of Awarded Degree for FoE & BAS:

Number of M.Sc. & Ph.D. Awarded Degrees per Program for MoHE & Non-MoHE scholarships

Program	MSc			PhD			Grand Total
	MoHE	Non MoHE	Total	MoHE	Non MoHE	Total	
1- Electronics and Communications Engineering	31	8	39	50	2	52	91
2- Computer Science and Engineering	12	8	20	30	3	33	53
3- Mechatronics and Robotics Engineering	16	10	26	37	2	39	65
4- Industrial Engineering and Systems Management	4	7	11	17	0	28	39
5- Materials Science and Engineering	6	4	10	18	2	20	30
6- Energy Resources Engineering	13	5	18	39	4	43	61
7- Environmental Engineering	4	3	7	40	0	40	47
8- Chemicals and Petrochemicals Engineering	3	6	9	14	0	14	23
<b>Total FoE</b>	<b>89</b>	<b>51</b>	<b>140</b>	<b>245</b>	<b>13</b>	<b>258</b>	<b>398</b>

1- Nanoscience	0	1	1	2	0	2	3
2- Biotechnology	2	1	3	1	0	1	4
3- Applied and Computational Mathematics	1	0	1	1	0	1	2
4- Energy Material	0	0	0	2	0	2	2
<b>Total BAS</b>	<b>3</b>	<b>2</b>	<b>5</b>	<b>6</b>	<b>0</b>	<b>6</b>	<b>11</b>
<b>Grand Total</b>	<b>92</b>	<b>53</b>	<b>145</b>	<b>251</b>	<b>13</b>	<b>264</b>	<b>409</b>

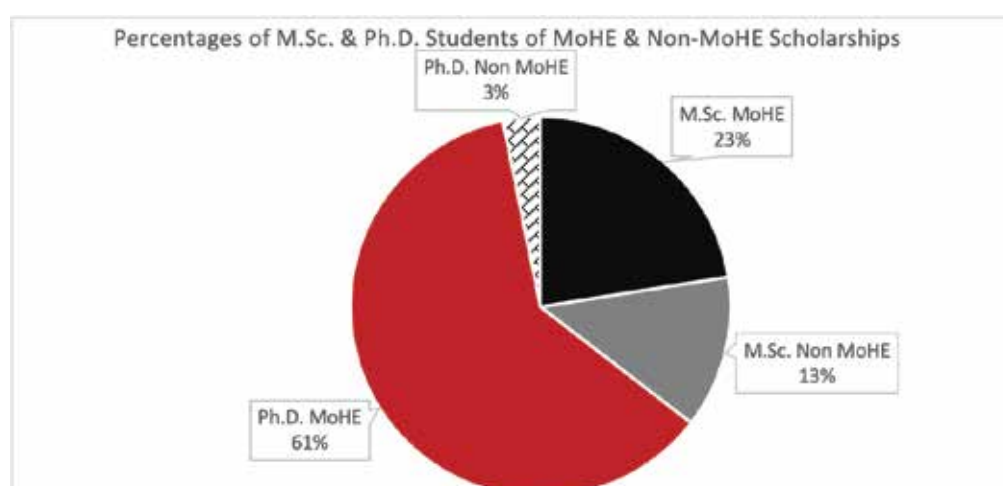


Number of M.Sc. & Ph.D. Awarded Degrees per Program

### Percent Distribution of graduates according to the scholarship

Percentages of M.Sc. & Ph.D. Students of MoHE & Non-MoHE Scholarships

M.Sc. MoHE	M.Sc. Non-MoHE	Ph.D. MoHE	Ph.D. Non-MoHE	Total
92	53	251	13	409
22.49%	12.96%	61.37%	3.18%	100%



Percentages of M.Sc. & Ph.D. Students of MoHE & Non-MOHE Scholarships

## Achievement of Target Study duration (M.Sc. 2 years and Ph.D. 3 years)

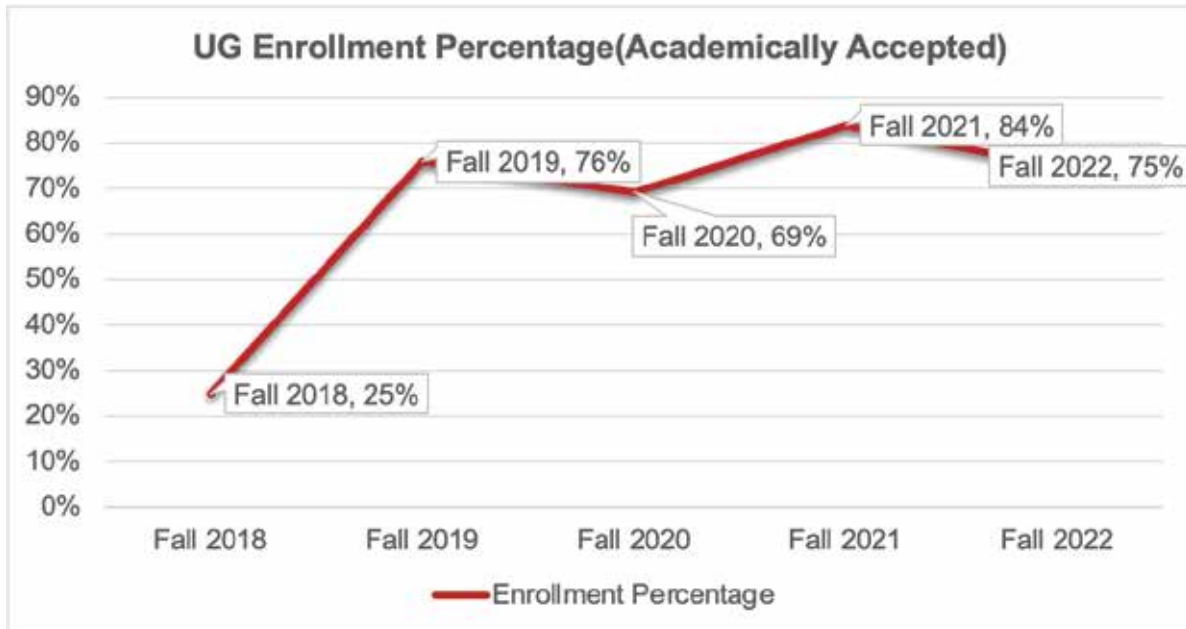
Statistics of Student's Delay in Achieving the Target Study Duration

Program	0 delay	1-month Delay	2 Month Delay	3 Months Delay	1 Semester Delay	2 semesters Delay	3 Semesters Delay	4 Semesters Delay	5 Semester Delay	6 Semesters Delay	7 Semesters Delay	Grand Total	More than two months	% delayed over two months
ECE	53	3	1	2	5	25	2	0	0	0	0	91	34	8%
CSE	13	2	1	4	7	11	5	4	1	3	2	53	37	9%
MTR	38	3	0	0	7	13	2	1	1	0	0	65	24	6%
IEM	10	4	1	1	6	2	4	0	0	0	0	28	13	3%
MSE	14	3	0	0	3	5	4	0	1	0	0	30	13	3%
ERE	30	7	2	2	5	14	1	0	0	0	0	61	22	5%
ENV	21	5	0	2	6	9	1	2	0	1	0	47	21	5%
CPE	11	0	1	0	3	5	1	2	0	0	0	23	11	3%
NAN	0	0	0	0	0	3	0	0	0	0	0	3	3	1%
BIO	0	1	0	0	0	3	0	0	0	0	0	4	3	1%
ACM	1	0	0	0	0	1	0	0	0	0	0	2	1	0.2%
EMA	0	1	0	0	0	1	0	0	0	0	0	2	1	0.2%
<b>Grand Total</b>	<b>191</b>	<b>29</b>	<b>6</b>	<b>11</b>	<b>42</b>	<b>92</b>	<b>20</b>	<b>9</b>	<b>3</b>	<b>4</b>	<b>2</b>	<b>409</b>	<b>183</b>	<b>44%</b>

## Academic Issues- Undergraduate Studies

UG Admission	2021/2022						2022/2023						
	FOE	FIBH	CSIT	Pharma D	Architecture	Total	FOE	FIBH	CSIT	Pharma D	Architecture	Art & Design	Total
Total No. of Applications	748	460	567	549	27	2351	1389	744	1416	1267	156	273	5245
Invited for Written Exams	748	460	567	549	27	2351	995	339	921	812	69	90	3226
Attended Written Exams	605	385	444	349	21	1804	729	286	565	512	35	78	2205
Attendance Ratio	81%	84%	78%	64%	78%	77%	73%	84%	61%	63%	51%	87%	68%
Academically Accepted	471	304	381	232	14	1402	505	208	323	336	16	64	1452
Acceptance ratio= accepted/attended	78%	79%	86%	66%	67%	78%	69%	73%	57%	66%	46%	82%	66%
Enrolled	378	252	338	192	12	1172	358	150	250	216	16	57	1047
Self-funded	148	162	179	88	8	585	121	86	149	92	4	33	485
Awarded Scholarship	230	90	159	104	4	587	237	64	101	124	12	24	562
100% Scholarship/Tuition Waiver	45	13	10	9	0	77	26	10	3	10	1	2	52
%Enrolled/Academically Accepted	80%	83%	89%	83%	86%	84%	71%	72%	77%	64%	100%	89%	72%
% Self-funded/Enrolled	39%	64%	53%	46%	67%	50%	34%	57%	60%	43%	25%	58%	46%

%Scholarship /Enrolled	61%	36%	47%	54%	33%	50%	66%	43%	40%	57%	75%	42%	54%
100% Scholarship/Tuition Waiver/Enrolled	12%	5%	3%	5%	0%	7%	7%	7%	1%	5%	6%	4%	5%



## Registration

### Total Number of Current Undergraduate Students

- E-JUST started 4 new programs in 2022 namely:

1. CSIT
2. Pharm-D
3. Sustainable Architecture
4. Arts and Design

Faculty	1st Grade (Enrolled In Fall 2022 - 2023)	2nd Grade (Enrolled In Fall 2021 -2022)	3rd Grade (Enrolled In Fall 2020 -2021)	4th Grade (Enrolled In Fall 2019 -2020)	5th Grade (Enrolled In Fall 2018 - 2019) + (2017-2018) (44+3)	Grand Total
Faculty of Engineering (FoE)	358	339	207	116	47	1067
Faculty of International Business and Humanities (FIBH)	150	234	130	44	0	558
CSIT*	250	315	0	0	0	565
Pharm-D*	216	170	0	0	0	386
Sustainable Architecture*	16	0	0	0	0	16
Art & Design**	57	0	0	0	0	57
Grand Total	1047	1058	337	160	47	2649

\*\*started in fall 2022-2023

\* started in fall 2021-2022

## E-JUST Career Support Section:

Activities (July- September 2022)

### 1 - Internships Host Companies and The Number of Students:

E-JUST students' undergraduate summer internships in companies (120 Slots in total) as follows:

Company	Duration	No. of Students
EZDK	1 Month	30
ENPPI Academy	1 Month	16
Alex Shipyard	2 weeks	14
EPROM	2 weeks	8
Nissan Motors	1 Month	8
Telecom Egypt	1 Month	4
Nippon Paints	1 Month	4
Titan Cement	1 Month	2
El Sewedv Electric	2 Weeks	12
Other Companies by Ads	N/D	22
<b>Total</b>		<b>120</b>

---

## 2- Signing a Protocol with “57357” Hospital for Cancer:

### The main aim of this protocol is:

- Offering internships for all students and especially for (Biomedical Engineering students and Pharma D students)
- Arranging regular visits to the hospital in order to rekindle students’ passion and enthusiasm for charity work.
- Offering grants for the “57357” students who will apply for E-JUST.

### Collaboration with the Alumni Section:

The alumni section offered the student an internship at El Sweedy Electric company.

### Other activities:

- A Site Visit in Cairo by El- Sweedy Electric Company for Power Plants (2022-9-21).
- A visit to “57357” Hospital on the global day 2022-10-28).
- Preparing another Protocol with Rotary Egypt District 2451 including cooperation in the internship field, career fair, and mutual collaboration sessions between the EJUST & Rotary International Experts. Visit (2022-11-11)

## JICA Activities (Oct. 2021 – Mar. 2022)

### 1 Overview of JICA Project inputs

**Project Experts (Long Term): 8 experts including 2 Vice Presidents**

**Secondment of faculty/advisors from Japanese Cooperation Universities (JCUs):**

During the outbreak of COVID-19, the activities including, but not limited to, the following points, in the contract between the JCUs and JICA have been continuously carried out online from Japan. However, since Oct. 2021, JCU faculty secondment has gradually resumed. The details are shown in Table 1.

Activities including the following have been carried out face-to-face or online from Japan:

- Support to introduce
  1. graduation project system for the UG final year
  2. Laboratory-based education for FoE and zemi-system for FIBH
- Co-supervision of graduate student research for FoE
- Arrangement of short-term study of Ph.D. students of FoE in Japan
- Co-teaching of FIBH and Liberal Arts Education courses
- Advising on the management of Faculty, Schools, and Department

In addition, some seminars, lectures, co-teaching, and advising on student research through zemi, etc. were carried out based on an individual contract between a faculty member of JCUs and JICA.

Table 1: JCU Faculty Visiting Days to E-JUST Since resuming JCU Faculty dispatch in April 2022 until the end of September 2022

	Department	# of Faculty	Visiting Days	End of Contract between JCU and JICA
FoE	Electrical Power Eng. (EPE)	1	14	Until Apr2024 with Kyushu Univ.
	Electronics and Communication Eng. (ECE)			
	Chemical and Petrochemical Eng. (CPE)	1	36	Until Apr2024 with Kyushu Univ.
	Computer Science and Eng. (CSE)	0	0	No Contract (*)
	Mechatronics and Robotics Eng. (MTR)	1	55	Until Apr2024 with Waseda Univ.
	Materials Science and Eng. (MSE)	0	0	No Contract (*)
	Industrial and Manufacturing Eng. (IME)	0	0	Until Apr2024 with Tokyo Tech
	Environmental Eng. (ENV)	1	14	Until Apr2024 with Tokyo Tech
	Energy Resources Eng. (ERE)			
FIBH		2	19	No Contract (*)
LACC		0	0	No Contract (*)
University Management		2	10	Until Feb2024 with Ritsumeikan Univ.
Total		8	148	

#### Mission/Study visit/Training in Japan or third countries

- Follow-up study visit, FIBH, July 7 to July 2022 ,17

4 teachers from FIBH visited Ritsumeikan APU, Nagoya University of Commerce & Business (NUCB), and Waseda University, where they obtained international accreditation for business school and learned:

- Preparations for applying for international accreditation for business school
- "zemi" which is an interactive learning system applied in Japanese universities

#### JICA's Support with Equipment:

- BAS

Responding to the increasing demand for BAS, the JICA project allocated a budget of approximately 450,000 USD to procure the equipment necessary to enhance the research environment of BAS. The bidding process was completed. Some arrived and were prepared for installation. Some equipment is about to be delivered, and some are under manufacturing due to build-to-order manufacturing.

- Lab safety and Environmental protection

The budget of approximately 130,000 USD from JICA to procure equipment for lab safety and environmental protection was newly allocated at the time when many laboratories on the new campus started operating. The bidding process was completed. Some arrived and were prepared for installation. Some equipment is about to be delivered, and some are under manufacturing due to build-to-order manufacturing.

#### JICA Provides Consultancy Services:

- PG graduates' alumni tracer study

The study targeting all Postgraduates (PG) that E-JUST has ever produced since its establishment with the aim of:

- 
- Updating their contact information, status, and achievements in their professional life.
  - Enhancing communication channels between E-JUST and its alumni.
  - Obtaining their feedback about the education and research experience at E-JUST that has impacted their professional life after their graduation.

## **Support enhancement of FoE, FIBH, Liberal Arts Education and LACC**

JICA's consultation and advice of faculty from JCU and Academic Advisors for the project continued to improve the quality of education and research.

2<sup>nd</sup> opinion exchange session held between JCU, the JICA project, and JICA HQ was held on 13<sup>th</sup> May, 2022 as a follow-up on the previous Japanese Cooperating Universities Consortium meeting on Aug. 18<sup>th</sup>, 2021, and Feb. 2022, to discuss how to further strengthen the partnership between JCU and E-JUST for the future.

### **JICA's support towards the Faculty of Engineering (FoE):**

JICA's support includes:

- Support for implementing laboratory-based education in graduate school.
- Support for implementing the graduation project in undergraduate school.
- Support for building a system to jointly guide graduate student research with faculty members from both Japan and Egypt sides.
- Advising on developing the management policy of the graduate and undergraduate school.
- Support for 4 projects to establish start-ups: "EJSTART" (ended in February 2022).

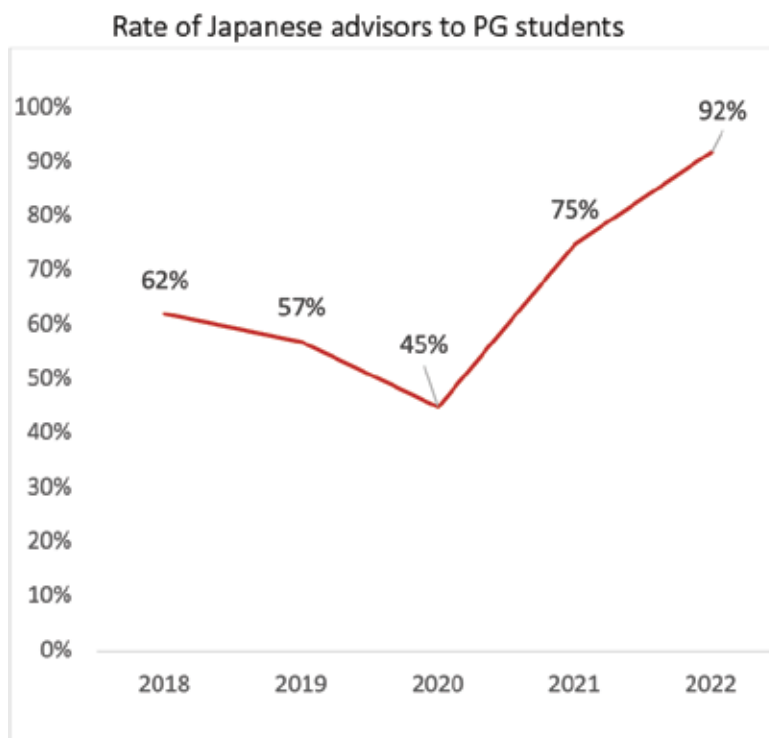
### **JICA's support towards the Faculty of International Business & Humanities (FIBH) and Liberal Arts & Culture Center (LACC):**

JICA's support includes:

- Support for the co-teaching activities in the FIBH and LACC.
- Support for the co-teaching surveys implemented in the FIBH and LACC.
- Support for Zemi system, instruction method enhancement, and guidance information session. The Zemi guidance information session was organized to enhance students' understanding of Zemi-style education through the Senior Project. The session was implemented reflecting the lessons learned from the first batch FIBH UG case.
- JICA coordinated a training program in Japan in July 2022 to follow up the FIBH Faculty Development Program for International Accreditation by Ritsumeikan APU. The program was provided at Ritsumeikan APU, Waseda University and Nagoya University of Commerce & Business.
- JICA's coordination to organize events of "Zemi"
  - 5th and 6th "Prof. Hamza's voluntary seminar (Zemi) on Japanese Study" in May 2022.
  - "Transnational Japanese-style Zemi (Seminar) Education," cooperated with LYON University.
- Support the establishment of FIBH/LACC Academic Meeting (FIBH AM and LACC AM). These Academic Meetings are formed to develop further collaboration between E-JUST and Japanese partner universities.

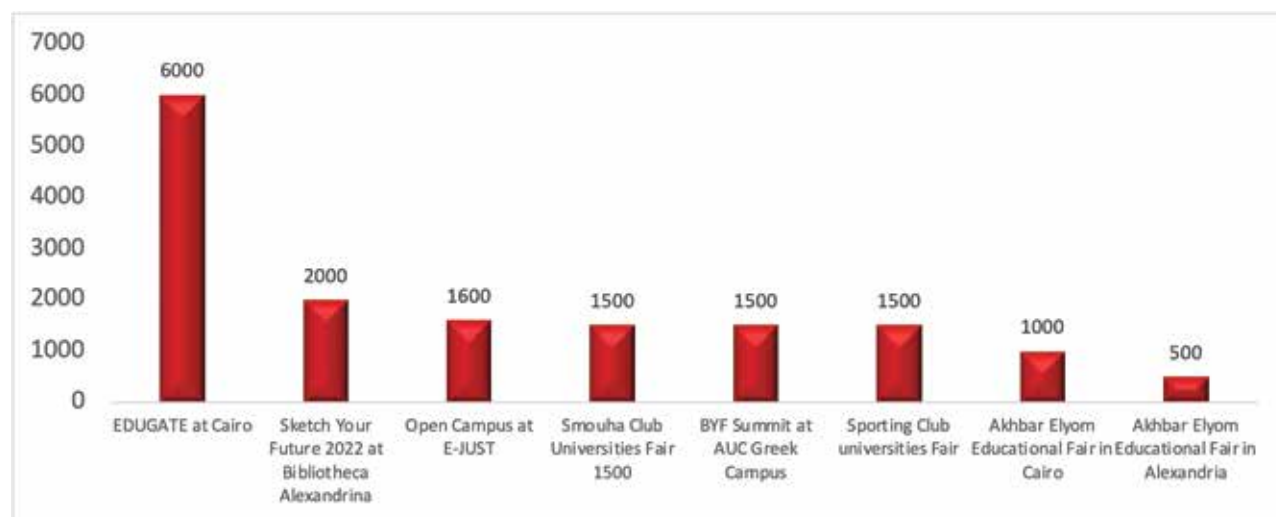
### PG Student advisor by JCU members

PG students are supervised by E-JUST faculty members and other university faculty members. JCU members will serve as Advisors for PG students to conduct research and give advice.



### E-JUST Promotional Events

E-JUST participated in and organized several events inside and outside E-JUST to promote the undergraduate programs, the total number of events was 10 events and the actual attendance was 15,600 made of high school students and their parents.



### TICAD7

This scholarship is going to finish when the last batch of students who enrolled in Oct. 2020 graduate from E-JUST, which is supposed to be in Apr. 2023. Moreover, instead of this scholarship, TICAD7 scholarships started in 2020, with a cumulative total of 13 students (Ph.D.: Kenya 4, Nigeria 2, Ghana 1, And M.Sc.: Kenya 2, Nigeria 1, Ghana 3).

Currently, the total number of international students in E-JUST Post Graduate School is 124,


which is mainly 119 TICAD7 scholarship students in addition to 3 students of Toyota Tsusho Scholarship, 1 student of JICA scholarship, and 1 student of E-JUST scholarship, enrolled in Fall 2020.

TICAD7 Scholarship	Admission	Number of students	Graduation (Scholarship end date)
First Batch	Fall-2020	27	April 30 <sup>th</sup> , 2023
	Spring-2021	2 (1) 1 (Ph.D.)	September 30 <sup>th</sup> , 2023 (2024 for Ph.D.)
Second Batch	Fall-2021	23 (1)	April 30 <sup>th</sup> , 2024
	Spring-2022	29 1(Ph.D.)	September 30 <sup>th</sup> , 2024 (2025 for Ph.D.)
Third Batch	Fall-2022	36	April 30 <sup>th</sup> , 2025


E-JUST has concluded the following MoUs:


**MoUs: Student Exchange**

Akita International University,  
Japan  
signed on May 29<sup>th</sup>, 2022





Graduate School of Humanity/ School of  
Foreign Language, Osaka University, Japan,






**MoUs: General**


Nagoya University of Commerce and  
Business (NUCB), Japan signed on  
September 30<sup>th</sup>, 2022.

Ecole Polytechnique de Thies, Senegal,  
signed on June 13<sup>th</sup>, 2022.



Universidade Joaquim Chissano,  
Mozambique,  
signed on October 12<sup>th</sup>, 2022.





## Goal. 5 Gender Equality



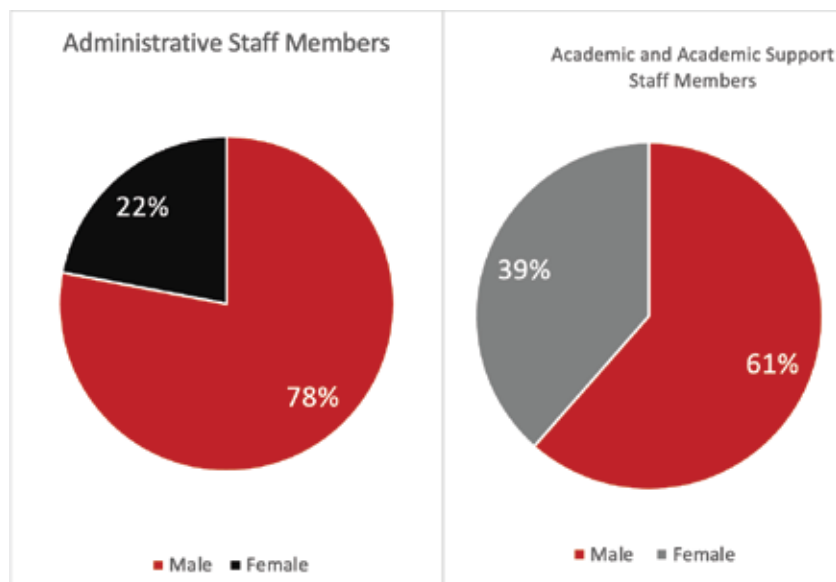
- **Aim**

E-JUST strives to achieve gender equality and empower all women and girls. Empowering women and promoting gender equality is crucial to accelerating sustainable development. Ending all forms of discrimination against women and girls is not only a basic human right, but it also has a multiplier effect across all other development areas.

- **Actions**

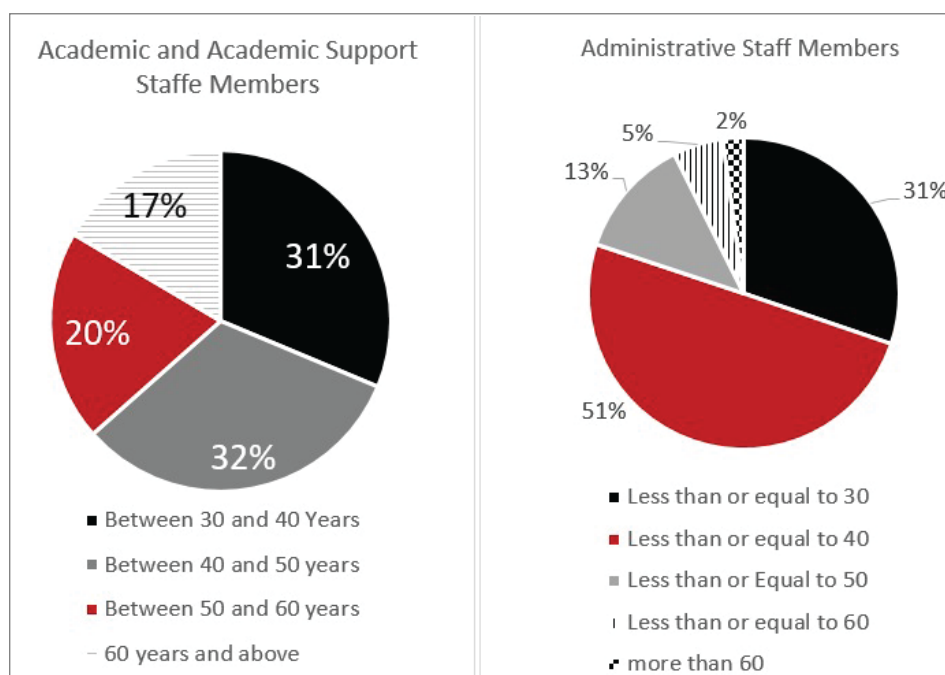
### Gender Equality:

The ratio of males to females in the Academic Staff is %61 to %39. While in the administrative staff, the ratio is %78 males to %22 females.



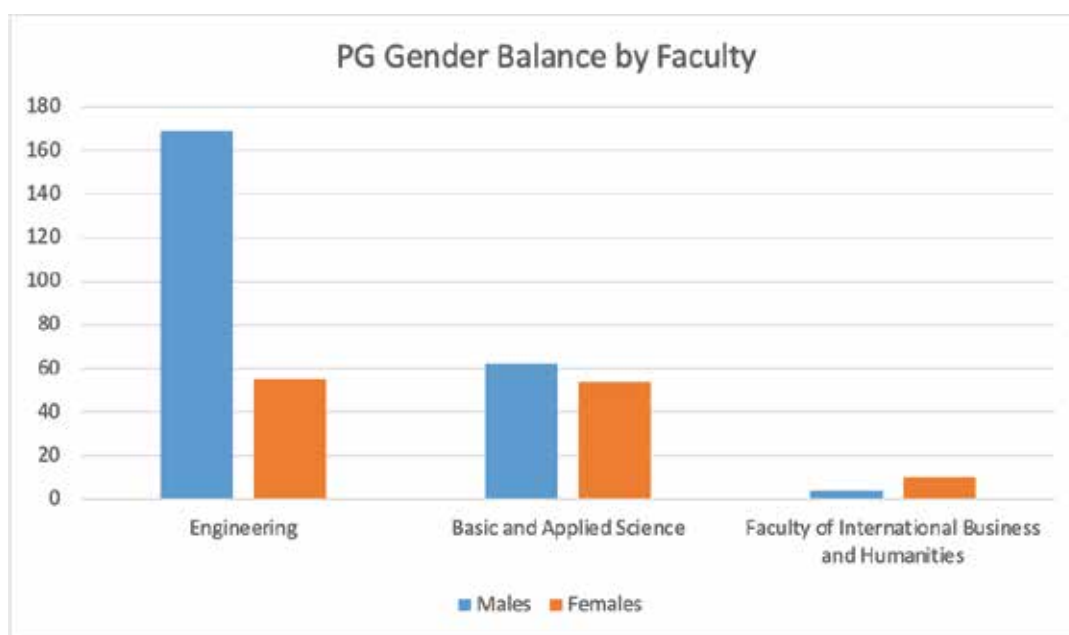
## Age Diversity:

E-JUST pays attention to the age diversity within both the Academic and Administrative staff as follows:

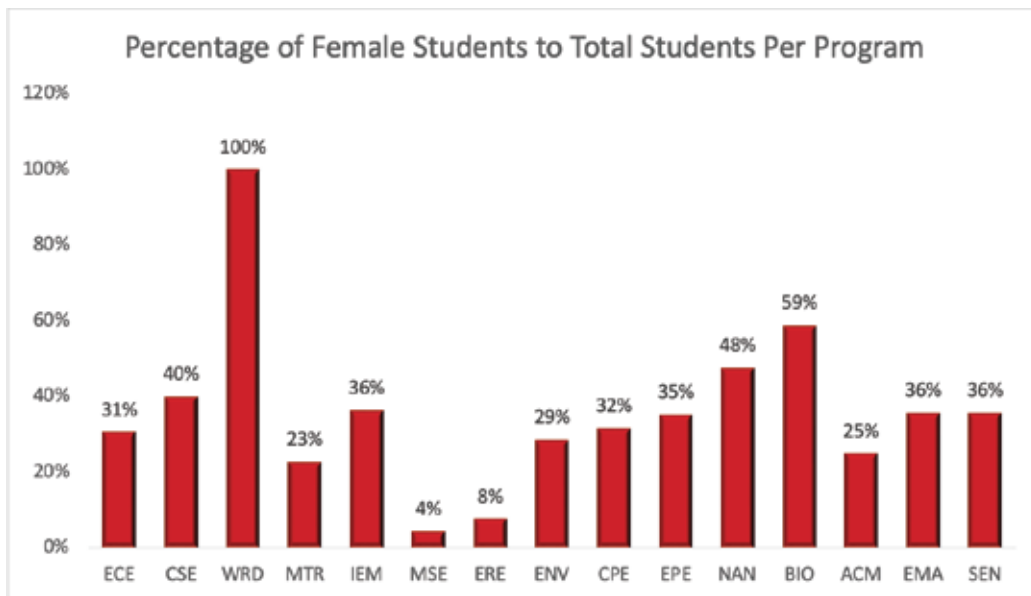


## Gender Balance in Current Postgraduate Students in all Faculties:

The table below indicates the Gender Balance among all E-JUST Postgraduate (PG) Students:



Gender	1- Engineering	2- Basic and Applied Science	3- Faculty of International Business and Humanities	Grand Total
Female	55	54	10	119
Male	169	62	4	235
Grand Total	224	116	14	354



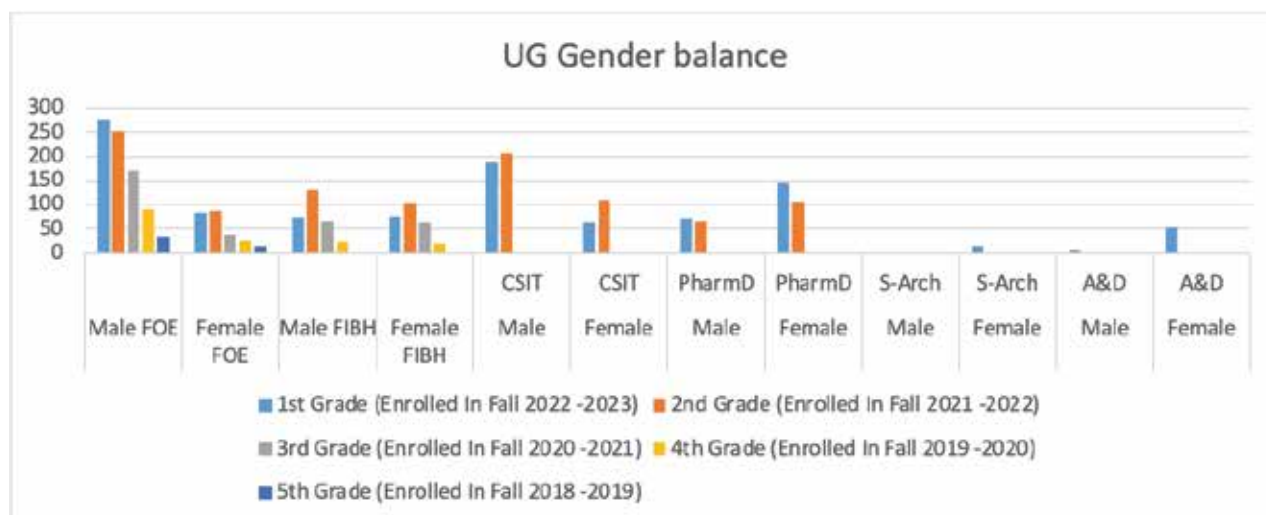
Program	Female	Male	Grand Total	% Female	Percentage Reported Last BOT
ECE	11	25	36	30.56%	32.14%
CSE	4	6	10	40.00%	36.36%
WRC	1	0	1	-	-
MTR	5	17	22	22.73%	13.04%
IEM	8	14	22	36.36%	36.36%
MSE	1	22	23	4.35%	5.26%
ERE	3	36	39	7.69%	7.89%
ENV	10	25	35	28.57%	30.00%
CPE	6	13	19	31.58%	35.00%
EPE	6	11	17	35.29%	35.71%
Nano	10	11	21	47.62%	47.06%
Bio	30	21	51	58.82%	59.57%
ACM	4	12	16	25.00%	26.67%
EMA	5	9	14	35.71%	54.55%
SEN	5	9	14	35.71%	33.33%
<b>Grand Total</b>	<b>109</b>	<b>231</b>	<b>340</b>	<b>32.06%</b>	<b>32.24%</b>

Number of Male & Female Students per semester who applied in (FoE & BAS)

	Spring 2022	Fall 2022
No. of New Female Students	25	18
No. of New Male Students	50	39
Total No. of Students	75	57
The Ratio of Females to Total Students	33%	32%

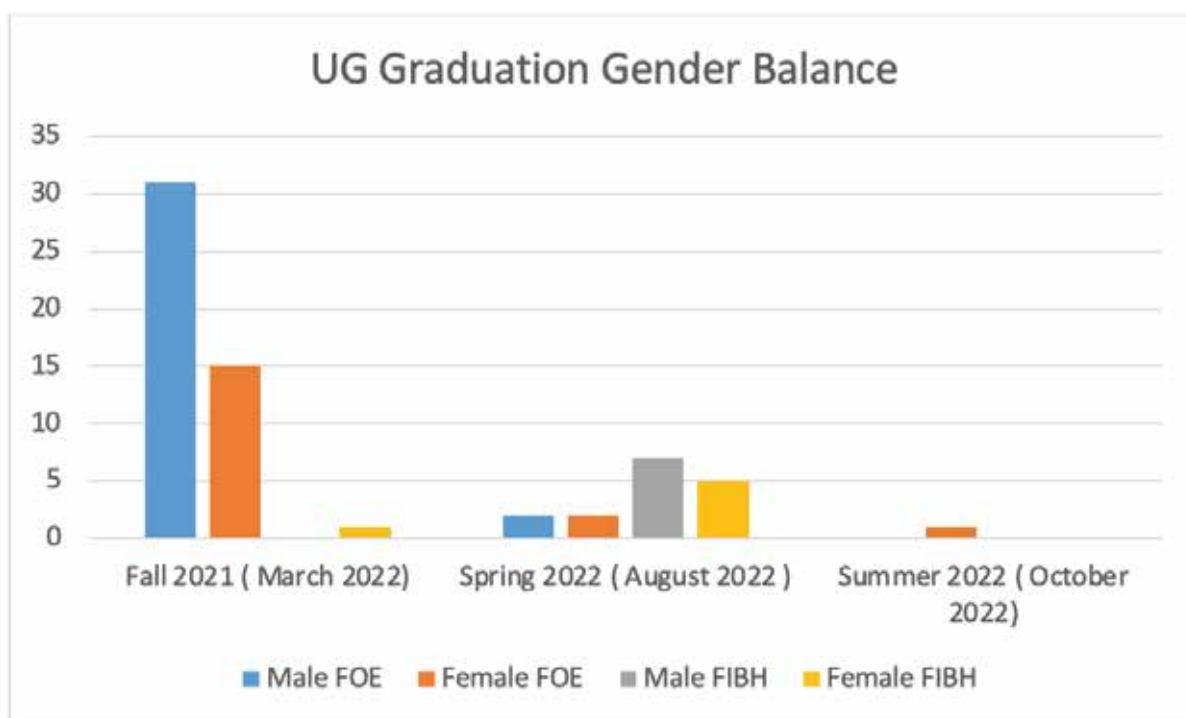
## Current UG Gender Balance

The table below indicates the Gender Balance among all E-JUST Undergraduate (UG) Students:



UG Batches	FOE		FIBH		CSIT		Phram-D		Sarch		Art & Design		Grand Total
	Male FOE	Female FOE	Male FIBH	Female FIBH	Male CSIT	Female CSIT	Male PharmD	Female PharmD	Male S-Arch	Female S-Arch	Male A&D	Female A&D	
1st Grade (Enrolled In Fall 2022 - 2023)	275	83	74	76	187	63	71	145	1	15	4	53	1047
2nd Grade (Enrolled In Fall 2021 - 2022)	253	86	131	103	206	109	65	105	0	0	0	0	1058
3rd Grade (Enrolled In Fall 2020 - 2021)	170	37	66	64	0	0	0	0	0	0	0	0	337
4th Grade (Enrolled In Fall 2019 - 2020)	91	25	23	21	0	0	0	0	0	0	0	0	160
5th Grade (Enrolled In Fall 2018 - 2019)	33	14	0	0	0	0	0	0	0	0	0	0	47
Grand Total	822	245	294	264	393	172	136	250	1	15	4	53	2649

## UG Graduation Gender Balance



The table below indicates the Gender Balance among all E-JUST UG graduation Students:

UG Graduation					
Graduation Semester	FOE		FIBH		Total
	Male FOE	Female FOE	Male FIBH	Female FIBH	
Fall 2021 ( <a href="#">March 2022</a> )	31	15	0	1	47
Spring 2022 ( <a href="#">August 2022</a> )	2	2	7	5	16
Summer 2022 ( <a href="#">October 2022</a> )	0	1	0	0	1
Grand Total	33	18	16	14	64



## Goal. 6 Clean Water and Sanitation

### • Aim

Ensure the availability and sustainable management of water, sanitation, and hygiene practices

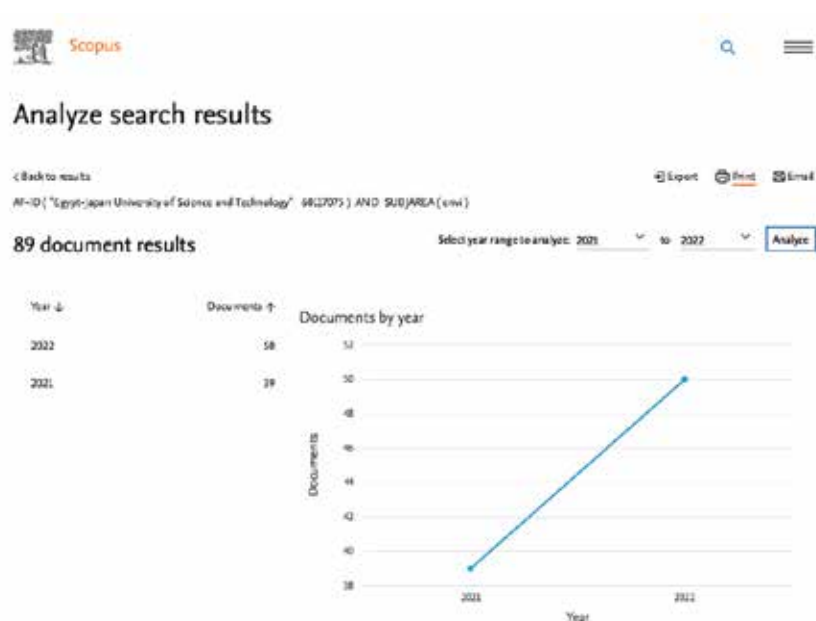
### Actions

1- E-JUST provides courses related to Water and Wastewater Treatment technologies to both undergraduate and graduate students

2- A Children's University Program was conducted to transfer the knowledge of "Water, Sanitation, and Hygiene Practices" to children at the age of 15. The workshop objective is to support and strengthen the participation of children and local communities in improving water and sanitation management



3- According to the SCOPUS database, the number of published articles related to water and wastewater treatment technologies increased by %28 compared with the previous year:



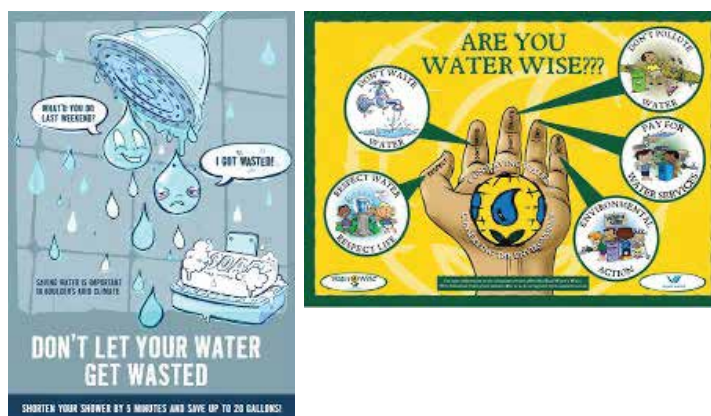
4- E-JUST publishes regulations on the laboratories to minimize the release of hazardous chemicals and materials as follows:

HCS Pictograms and Hazards		
Health Hazard	Flame	Exclamation Mark
<ul style="list-style-type: none"> <li>Carcinogen</li> <li>Mutagenicity</li> <li>Reproductive Toxicity</li> <li>Respiratory Sensitizer</li> <li>Target Organ Toxicity</li> <li>Aspiration Toxicity</li> </ul>	<ul style="list-style-type: none"> <li>Flammables</li> <li>Pyrophorics</li> <li>Self-Heating</li> <li>Emits Flammable Gas</li> <li>Self-Reactives</li> <li>Organic Peroxides</li> </ul>	<ul style="list-style-type: none"> <li>Irritant (skin and eye)</li> <li>Skin Sensitizer</li> <li>Acute Toxicity</li> <li>Narcotic Effects</li> <li>Respiratory Tract Irritant</li> <li>Hazardous to Ozone Layer (Non-Mandatory)</li> </ul>
Gas Cylinder	Corrosion	Exploding Bomb
<ul style="list-style-type: none"> <li>Gases Under Pressure</li> </ul>	<ul style="list-style-type: none"> <li>Skin Corrosion/Burns</li> <li>Eye Damage</li> <li>Corrosive to Metals</li> </ul>	<ul style="list-style-type: none"> <li>Explosives</li> <li>Self-Reactives</li> <li>Organic Peroxides</li> </ul>
Flame Over Circle	Environment (Non-Mandatory)	Skull and Crossbones
<ul style="list-style-type: none"> <li>Oxidizers</li> </ul>	<ul style="list-style-type: none"> <li>Aquatic Toxicity</li> </ul>	<ul style="list-style-type: none"> <li>Acute Toxicity (fatal or toxic)</li> </ul>

Symbol	Class Description	Symbol/ reasons that the material:
	Compressed Gas (Class A)	<ul style="list-style-type: none"> <li>causes an explosion danger because the gas is being held in a cylinder under pressure</li> <li>may cause its container to explode if heated</li> <li>may cause its container to explode if dropped</li> </ul>
	Combustible and Flammable Material (Class B)	<ul style="list-style-type: none"> <li>is one that will burn and is consequently a fire hazard (i.e., is combustible)</li> <li>may catch fire at relatively low temperatures (i.e., is flammable)</li> <li>may ignite spontaneously in air or release a flammable gas on contact with water</li> </ul>
	Oxidizing Material (Class C)	<ul style="list-style-type: none"> <li>may react violently or cause an explosion when it comes into contact with combustible materials</li> <li>may burn skin and eyes upon contact</li> </ul>
	Poisonous Material: Immediate Toxic Effects (Class D1)	<ul style="list-style-type: none"> <li>is a potentially fatal poisoning substance</li> <li>may be immediately fatal or cause permanent damage if it is inhaled or swallowed or enters the body through skin contact</li> </ul>
	Poisonous Material: Other Toxic Effects (Class D2)	<ul style="list-style-type: none"> <li>is a poisonous substance that is not immediately hazardous to health</li> <li>may cause death or permanent damage as a result of repeated exposure over time (e.g., cancer, birth defects or sterility)</li> <li>may be an irritant</li> </ul>
	Biohazardous Infectious Material (Class D3)	<ul style="list-style-type: none"> <li>may cause a serious disease resulting in illness or death</li> <li>may produce a toxin that is harmful to humans</li> </ul>
	Corrosive Material (Class E)	<ul style="list-style-type: none"> <li>causes severe eye and skin irritation upon contact</li> <li>causes severe tissue damage with prolonged contact</li> <li>may be harmful if inhaled</li> </ul>
	Dangerously Reactive Material (Class F)	<ul style="list-style-type: none"> <li>is very unstable</li> <li>may react with water to release a toxic or flammable gas</li> <li>may explode as a result of shock, friction, or increase in temperature</li> <li>may explode if heated in a closed container</li> </ul>

5- E-JUST creates colorful posters on “water use” and “water saving” to raise students’ awareness of the importance of water consumption. This includes some statements such as “It’s important to use water wisely”; “If not using the tap, turn it off”; “Report leaks to xxx”



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#### 6- A workshop titled: “Treated Waste Water Reuse” Workshop:

As a part of the workshops series coinciding with Egypt’s preparations to host COP27, and within the event titled “Egypt’s Water Security Challenges” organized by Industry Training Unit (ITU), E-JUST on 2022-8-8. Prof. Mona Gamal Eldin Ibrahim - Dean of the School of Energy Resources, Environmental, and Chemical and Petrochemical Engineering (EECE), participated and gave a session titled “Treated Waste Water Reuse”.

#### • Funded Projects

EJUST gains different projects from different national and international financial agencies as Europe, Newton Musharafa, STDF, JICA, ASRT, etc. in renewable energy use and clean energy production and energy saving as hydrogen production, photovoltaic energy generation, energy saving in Borg Alarab buildings, etc.



E-JUST president visits the project #30729 unit, funded by STDF



## Goal. 7

# Affordable and Clean Energy

- **Aim**

Increasing the use of clean and renewable energy and reducing energy consumption.

- **Actions**

- **Eco-friendly campus**

E-JUST Permanent Headquarters (main campus) is established on an area of 200 acres, and the buildings occupy only %17 of the total area. Not only are the designs environmentally friendly, but they also have the latest modern technologies. In the main campus, a natural ventilation technique has been implemented to reduce the electrical power consumption in the air-conditioning systems. Absorption chillers, driven by thermal energy, have been used in central air conditioning systems instead of electrical chillers which significantly improve the building energy efficiency. Besides, electric cars are used for internal transmission within the main campus. Also, a solar water heating system is used for water heating in housing buildings. Moreover, a PV system is used in the headquarters university building to generate electric power.



EJUST's Main Campus

- **Education**

E-JUST offers undergraduate and postgraduate programs called Energy Resources Engineering in the department of Energy Resources Engineering, which deals with all types of energy including solar and wind as clean energy resources. These programs present different courses on energy saving and management, renewable energy, energy storage, etc. Moreover, they present different research and projects on energy audit and management, renewable energy, production of clean energy, etc. Moreover, the department includes different laboratories which specialize in clean energy use and energy saving and aim to orient students on clean energy use and saving as they are renewable and sustainable energy laboratories and energy management laboratories.



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- Research

E-JUST staff and students conduct extensive research in many areas related to clean energy such as green cooling using, hydrogen production, solar-powered sorption systems, solar-driven multi-generation systems, photovoltaics, wind energy, solar energy applications,...etc.



(Electric Car) ERE UG Graduation Project

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- **Research Outcomes**

E-JUST research outcomes concerning energy saving and clean energy use are published in highly impacted journals such as Energy Conversion and Management, Renewable Energy, Energy, Renewable & Sustainable Energy Reviews, and others. Some E-JUST scholars, at the Energy Resources Engineering department, working in the field of renewable energy have been listed among the top %2 of the world's most cited scientists, in 2022, according to Stanford University, USA.

- **Services**

The University presents different services to the industry. Some of these are free and others are paid, such as consultations, energy-saving plans, energy audits, management plans, installing renewable energy projects, etc.



- **Series of workshops regarding raising awareness of Energy Saving:**

A Workshop entitled: "The Status and Potential of Hydrogen Energy in Egypt":

On March 1st, 2022, Japan International Cooperation Agency (JICA) in collaboration with Lynx, organized a workshop entitled "The Status and Potential of Hydrogen Energy in Egypt".

Prof. Mona Gamal Eldin Ibrahim, Dean of the school of Energy Resources, Environmental, and Chemical and Petrochemical Engineering (EECE), Egypt-Japan University of Science and Technology, participated in the workshop representing E-JUST.

- A Workshop entitled: "Exploitation of Renewable Energy in the Production of Green Hydrogen and Green Ammonia":

On Thursday, 24 February 2022, Abu Qir Fertilizer and Chemical Industries Company organized a workshop entitled " Exploitation of renewable energy in the production of green hydrogen and green ammonia", in collaboration with the major leading global and local companies in this field and with the presence of industry experts, organizations' and companies' chairs, universities' presidents, and researchers.

Prof. Mona Gamal Eldin Ibrahim, Dean of EECE school, moderated the scientific sessions during the workshop, which was organized online and physically, on the issues of how to produce and exploit hydrogen and green ammonia.



## • EJUST PV station

### 1- System description

The Solar Energy Project is located on the campus of the Egyptian Japanese University and has a total capacity of 560 kilowatts. The solar cells are distributed in three places: Plaza, Atrium, and Parking. The station has a control room and an inverter room. The total power generation of the station is divided as follows:

- 1- The Plaza unit consists of 620 cells with a capacity of 325 watts per cell. The total power generation from the Plaza unit is 200 kilowatts.
- 2- The Atrium unit consists of 720 cells with a capacity of 85 watts per cell. The total power generation from the Atrium unit is 60 kilowatts.
- 3- The Parking unit consists of 920 cells with a capacity of 325 watts per cell. The total power generation from the Parking unit is 300 kilowatts.



EJUST PV system layout

The power generation of a PV farm is DC power. An inverter is used to convert DC power into AC power. The output AC voltage and frequency of the inverter are 380V and 50Hz even if the solar radiation or load is changed. Inside the inverter, the DC link control circuit keeps the DC voltage constant at 600 volts. The photovoltaic system has 14 inverters connected as follows:

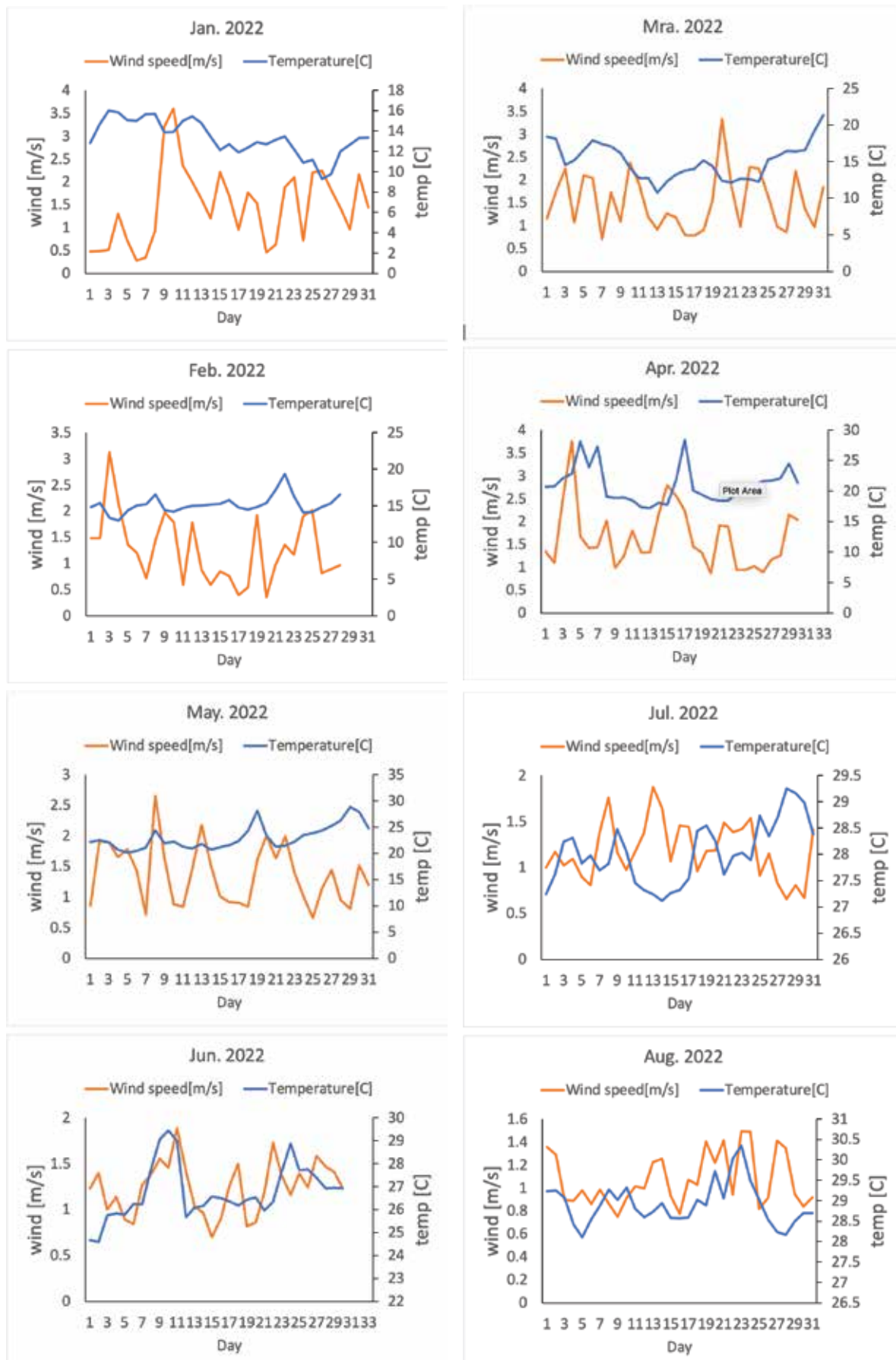
- 1- Six inverters with a capacity of 50 kilowatts per unit are used to connect the power generated from Parking arrays to the loads.
- 2- Four inverters with a capacity of 50 kilowatts per unit are used to connect the power generated from Plaza arrays to the loads.
- 3- Four inverters are distributed as follows: two power inverters with a total capacity of 20 kilowatts per unit and two inverters with a total capacity of 10 kilowatts per unit. The four inverters are used to connect the Atrium array with loads.

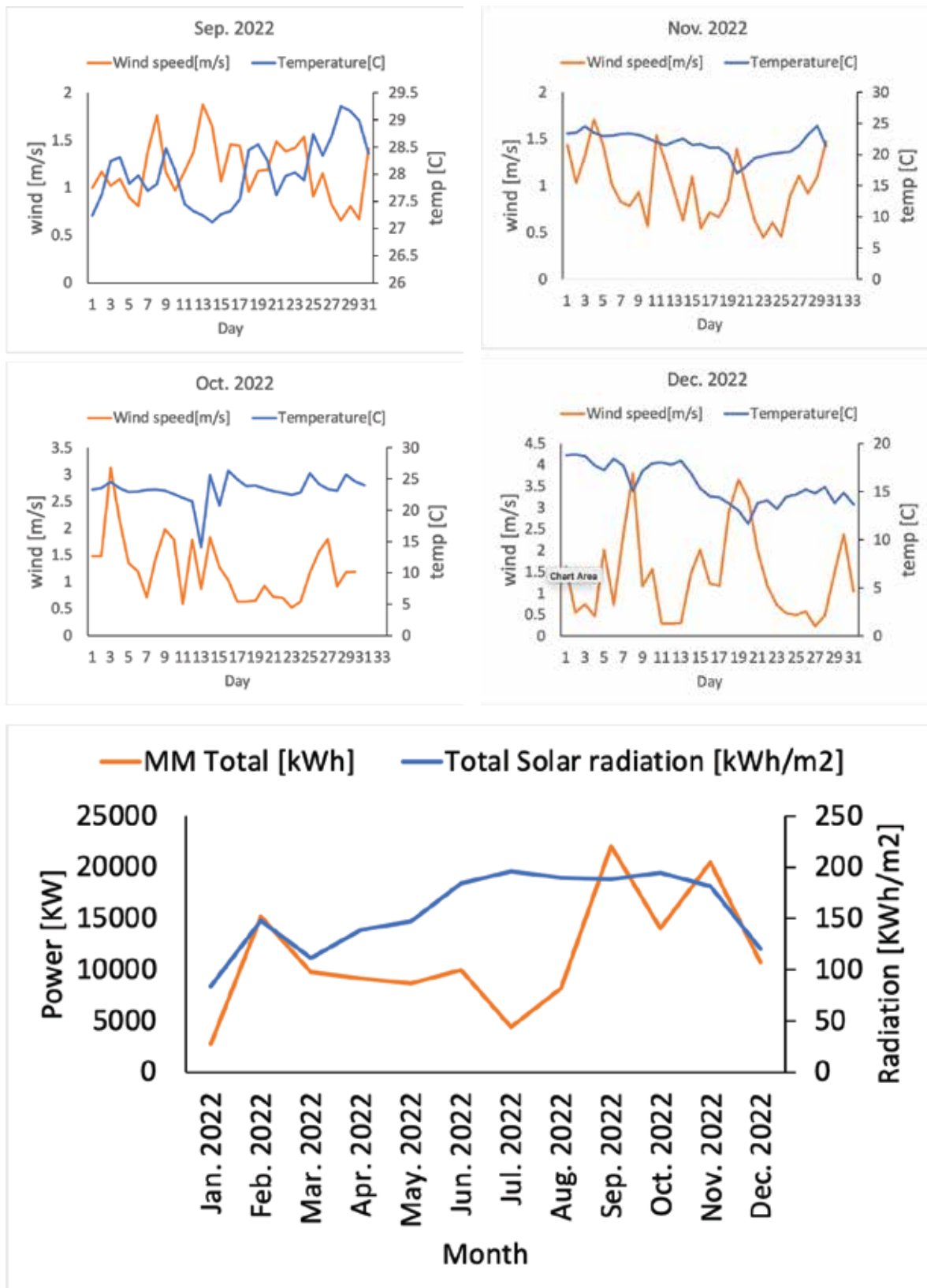


Power Conditioners

## 2- Generation data

The output power of the station was connected to the loads in the south and north buildings and the administration building as well as the light loads of the parking, atrium, and plaza. The PV station statistics from January 2022 ,1, to December 2022 ,31, are as follows:





The total energy generated from the photovoltaic system during 2022 reached 136 MWh. It saves about 110,000 EGP (the KWh price is LE 0.80) and reduces emissions by 96 metric tons of carbon dioxide.



## Goal. 8 Decent work and economic growth

### • Aim

To achieve a productive and rich work environment for both genders through:

- Higher levels of productivity and technological innovation.
- Encouraging entrepreneurship and job creation.
- Developing a new performance appraisal system that guarantees fair evaluation metrics.
- Encouraging the staff members to improve themselves through continuous education.

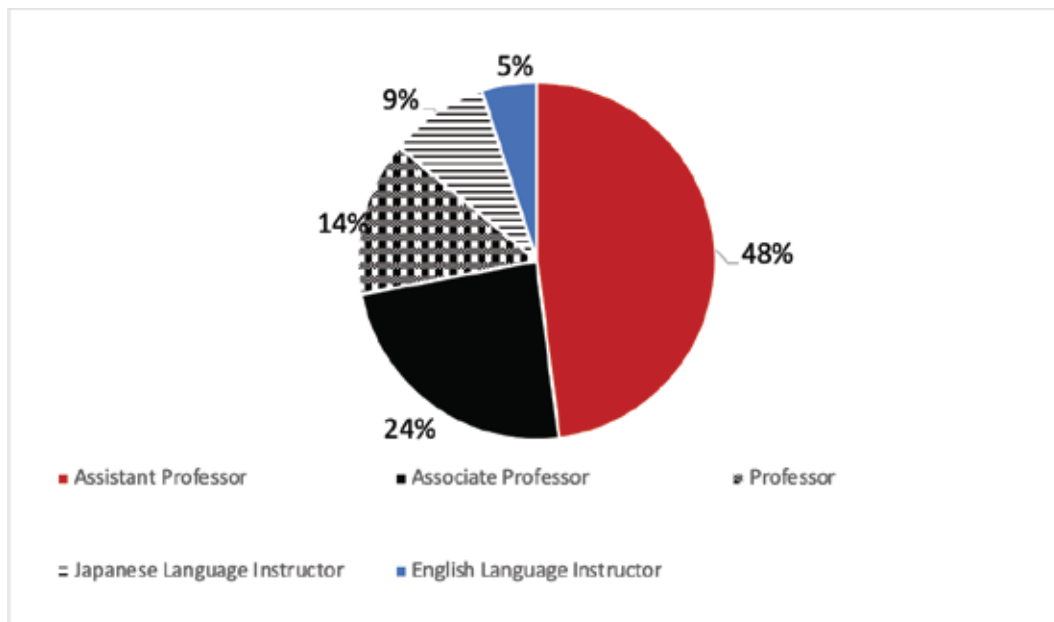
### • Actions

#### Academic Staff Statistics

The total number of E-JUST Academic Staff is 126 (as of 18th October 2022)

Rank	Full-time	Part-time	Total
Professor	49	5	54
Associate professor	22	4	26
Assistant professor	31	15	46
<b>Total</b>	<b>102</b>	<b>24</b>	<b>126</b>

- The table above includes the university's president, 3 vice presidents, and the strategic planning coordinator.



Number of Supporting Academic Staff (As of 18th October 2022)

Rank	Full-time	Part-time	Total
Native Japanese language teachers	6	1	7
English language teachers	9	0	9
<b>Total</b>	<b>15</b>	<b>1</b>	<b>16</b>

## Statistics of Academic Staff & Supporting Academic Staff

School	Dep.	Full-Time							Part-Time		Overall Total
		Professor	Associate Professor	Assistant Professor	Japanese Language Teacher	English Language Teacher	Teaching Assistant	Total	Academic	Teaching Assistant	
School of Electronics, Communication, and Computer Engineering	ECE	5	2	1			6	14	1	7	22
	CSE	3		2			4	9		2	11
	EPE	2	1	1			3	7			7
School of Innovative Design Engineering	MTR	3	2				7	12			12
	IME	2	3	4			2	11			11
	MSE	2	1				2	5	1		6
School of Energy, Environment, Chemical & Petrochemical Engineering	ERE	2	1	1			4	8			8
	CPE	2	1	1			4	8			8
	ENV	1	2	2			0	5			5
School of Basic and Applied Sciences - BAS		12		3			21	36	3		39
Faculty of International Business and Humanities		3	2	9			11	25	2		27
Liberal Arts and Culture Center		4	1	4	6	9		24	9		33
Pharm D Program		2	2				9	13	6		19
Sustainable architecture		1	2				2	5			5
computer Science and information technology		1	2	1			3	7	2	2	11
Art and Design Programs				2			3	5		1	6
CINTECH									1		1
Total		45	22	31	6	9	81	194	25	12	231

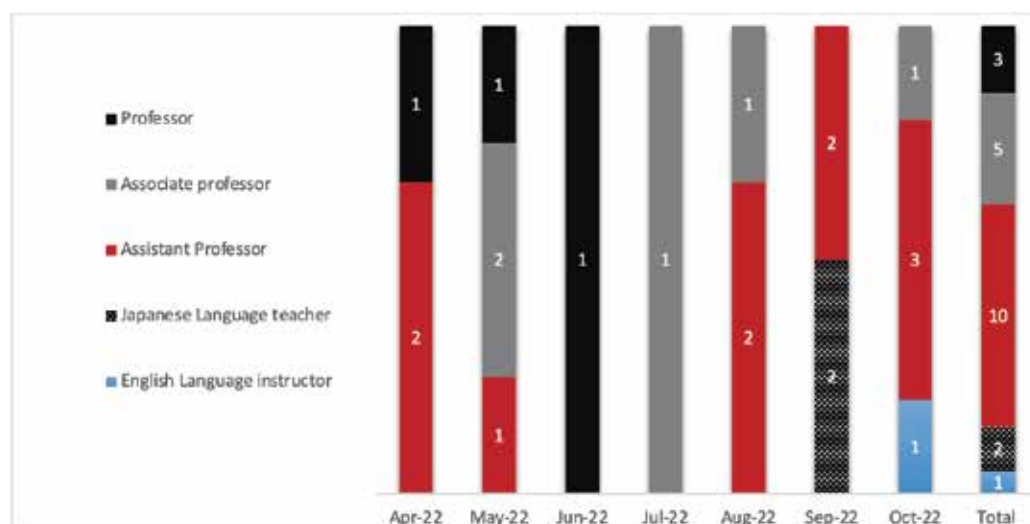
Statistics of E-JUST Current Academic Staff per Department (as of 18th Oct 2022)

Numbers do not include the university's president and 3 vice presidents

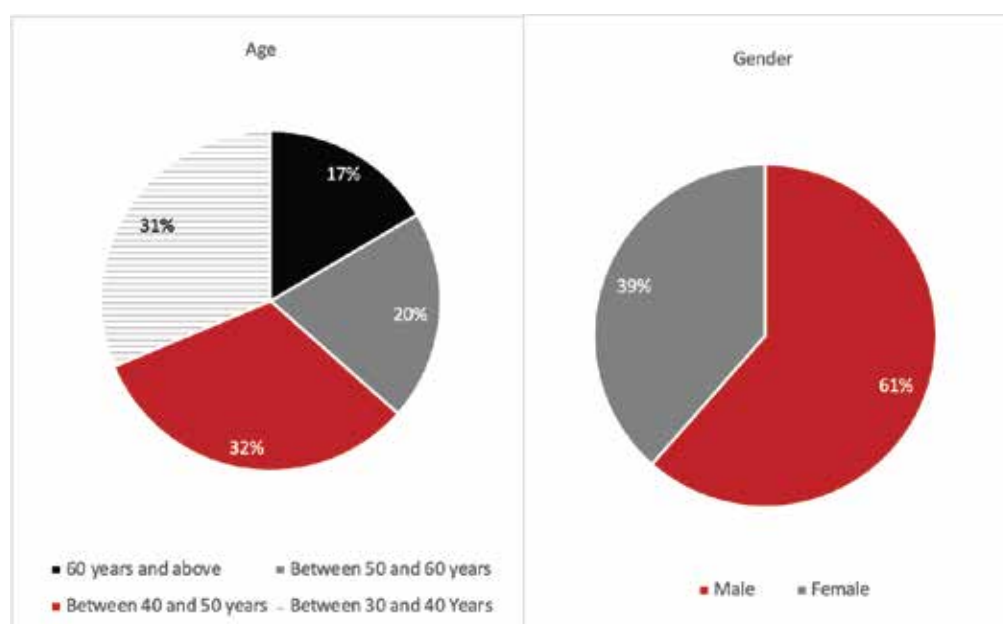
Numbers include 9 language teachers 'Admin. Staff' at LACC 'Supportive academic list'

## Academics & Supporting Academic Staff Hires Statistics

(From April 2022 to October 2022)



## Age and Gender Diversity:

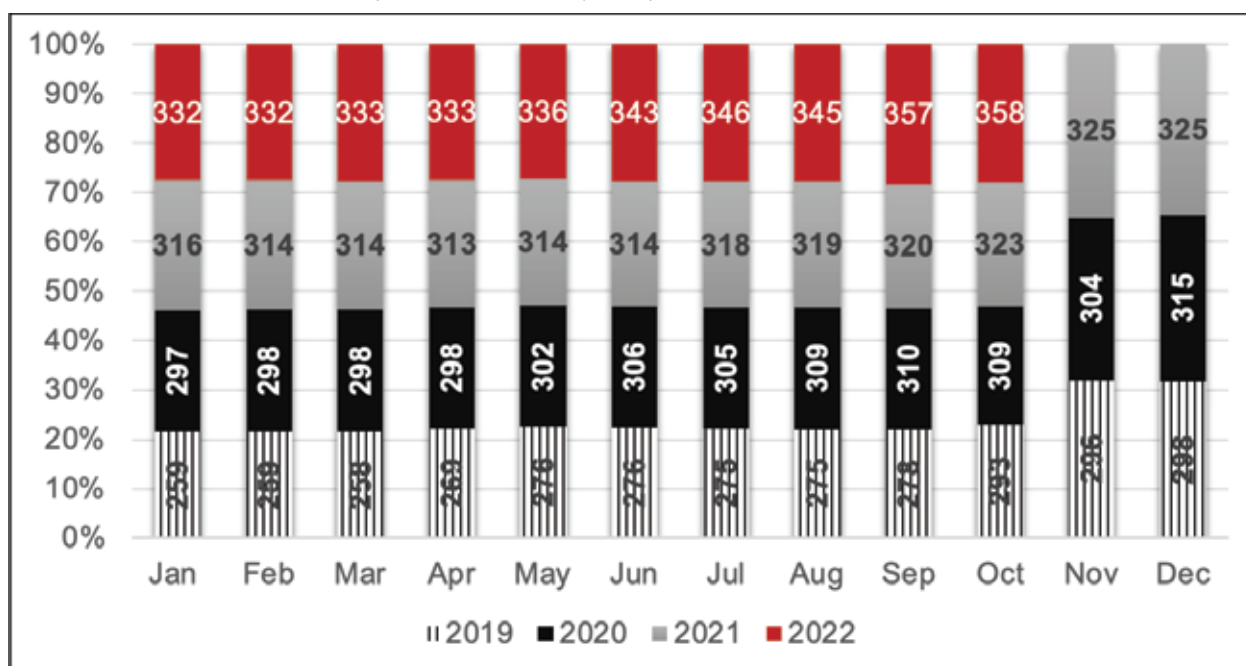


## Academic Staff Home Universities/Ministries

University	Number of Academic Staff
Alexandria University	18
Assiut University	6
Tanta University	3
National Research Centre	1
City of Scientific Research and Technology Applications	2
Zagazig University	2
South valley University	2
Mansoura University	4
Kafr Elsheikh University	2
Aswan University	5
El Fayoum University	1
Cairo university	6
Helwan University	5
Benha University	7
Suez Canal	1
Damanhour University	2
Ain Shams University	3
Egyptian Environmental Affairs Agency	1
Menofia University	1
Beni-Suef University	1
Sohag University	1
Ministry of Interior	1
Academy of Arts	1
E-JUST academics (Direct Contracts)	24
<b>Total</b>	<b>100</b>

## Administrative Staff Statistics

Number of Administrative Staff (2019 – October 18, 2022)



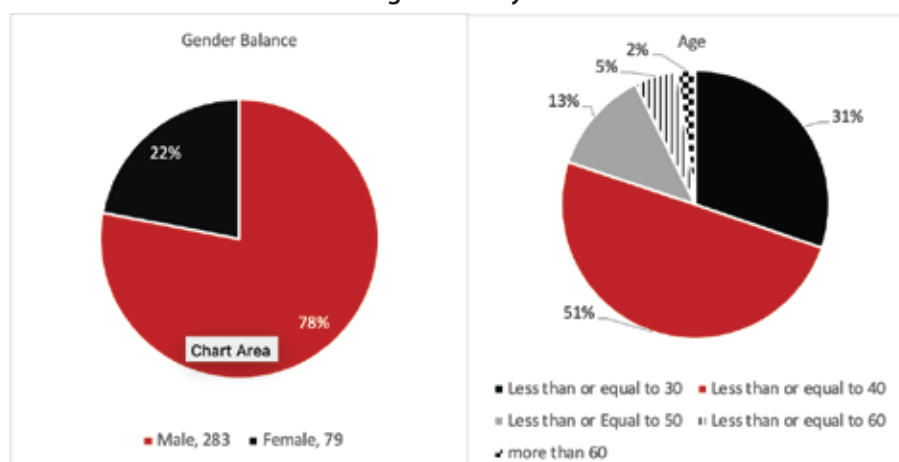
Statistics of E-JUST Current Administrative Staff per Offices and schools (As of 18th Oct 2022)

The total number of E-JUST's Administrative Staff till October 18, 2022, is 358 without E-JUST's Guest House staff.

No.	Office	No of staff
1	Secretary General Office	3
2	Campus Management (including drivers)	63
3	PMU	13
4	Accounting	11
5	Student Affairs	9
6	Contracting & Warehouse	10
7	Finance	11
8	Human Resources	6
9	General Affairs	2
10	President Office	4
11	Public Relations	10
12	Legal Affairs	3
13	Cairo Office	3
14	EJUST Guest House	32
15	Security	102
16	Services	17
17	International Affairs Office	3
18	Library	4
19	Quality Assurance Accreditation Center	1
20	Center of Innovative Technology	3
21	Information Technology Center	12
22	Technology Management Department	10
23	ITU	1
24	VP for Education Office	1
25	VP for Research Office	2
Total		336

School	No. Of Employees	Lab Engineer	Admin Assistant	Language Teacher	Technicians
School of Innovative Design Engineering	13	10	3	-	-
School of Electronics, Communication and Computer Engineering	9	6	3	-	-
School of Energy Resources, Environmental, Chemical & Petrochemical Engineering	8	6	2	-	-
School of Basic and Applied Sciences - BAS	5	4	1	-	-
Faculty of International Business and Humanities - FIBH	1	-	1	-	-
Liberal Arts and Culture Center (LACC)	10	-	1	9	-
Graphene Center	1	1	-	-	-
Pharm D Program	3	3	-	-	-
Computer Science and Information Technology Programs	1	1	-	-	-
Civil Engineering Testing and Consulting Unit	3	1	-	-	2

#### E-JUST Administrative staff Gender Balance and Age Diversity:



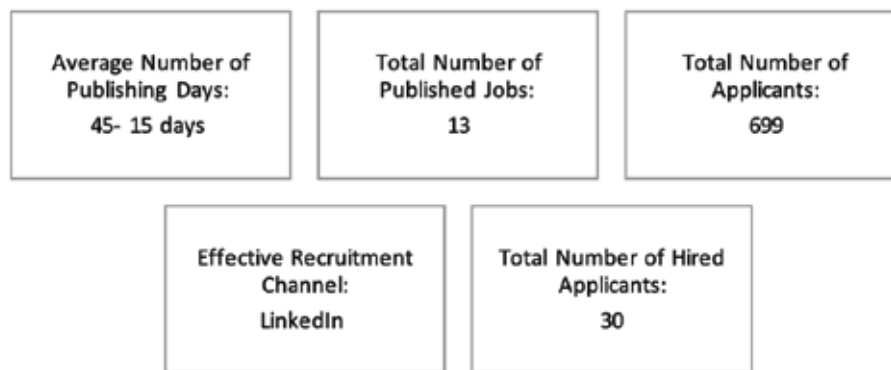
#### Administrative Staff/Level

#### Turnover Causes (from May, 2022 till October 18, 2022)

Reason	Numbers
Resignation	3
Termination	1
Traveling Abroad	1

#### Administrative Staff Recruitment from May, 2022 till October 18, 2022:

Hires of Security	11
Hires of Lab Specialists	5
Human Resources Specialist	2
Drivers	3
Agriculture workers	2
Technicians	4
English Language Instructor	1
Library Director	1
Building Supervisor	1
<b>Total Hired</b>	<b>30</b>
Promoted Employees – July 2022	28
Out of service	5
<b>Turn Over Ratio</b>	<b>1.44 %</b>



### New Performance Appraisal System (PAS):

E-JUST is rolling out a new performance appraisal system. It is part of its ongoing effort to grow its impact, support staff development, and promote fairness and transparency. The categories of Administrative Staff are divided into 6 categories according to their job nature:

- 1- Specialists
- 2-Administrative Assistants
- 3-Lab Engineers
- 4-Managers
- 5-Security
- 6-Services

Evaluation sheets consist of the following items:

4 Sections: Quality of Work, Interpersonal Skills, Discipline & Attendance, and Self-Development; these consist of sub-sections; however, they are all related to the extent of the employee perfecting his duties and the level of skills that the employee exhibits at his work.

#### Penalties and Bonus Marks

- This section is filled by the HR office and the 'bonus points' are added through an approved proposal introduced to the HR Committee.
- Penalties: The number of penalties the employee has during the evaluation period is mentioned based on the information provided by the Legal Affairs department.
- Bonus points are provided to the employee with proposals that have been approved by the Committee and the University President. The employee can also obtain bonus points by passing more than the 3 required training courses.
- Manager's Comments and Recommendations: The Direct Manager must comment on the employee's quality of work and his interpersonal skills while mentioning a situation as evidence of his work level as well as recommend suitable training for the employee that needs to be improved and the skills that need to be developed. He can also mention specific training or courses that the employee needs to attend.

## E-JUST's New Performance Appraisal System (PAS)

### Top Management PAS review Meeting

On September 9th, 2021, a meeting was held to discuss the new PAS with Prof. Ahmed El-Gohary, Prof. Amr Adly, ex-minister Prof. Ahmed Darwish, Eng. Osama Fathy, the JICA office (Ms. Ozawa Midori and Ms. Maha Mahmoud), and the HR office members.



MEETING AT CAIRO OFFICE 9 /2021

### Launching of Performance Appraisal

Orientation sessions were held in Sept 2021 for all the administrative staff by Eng. Osama Fathy – Secretary-General to announce the new PAS with all the details.

### Distributing the Evaluation Forms

In December 2021, the PAS task force gave access to all the evaluators for the evaluation forms then started to gather all the data received and finalized the staff evaluation forms.

### PAS Digitalized System

In March 2022, in cooperation with ITC, the new system was created and will be launched for the current appraisal in December 2022.

### E-JUST and Ritsumeikan University Cooperation

In April 2022, through this cooperation, Ritsumeikan University supported the E-JUST task force with consultations regarding the PAS.

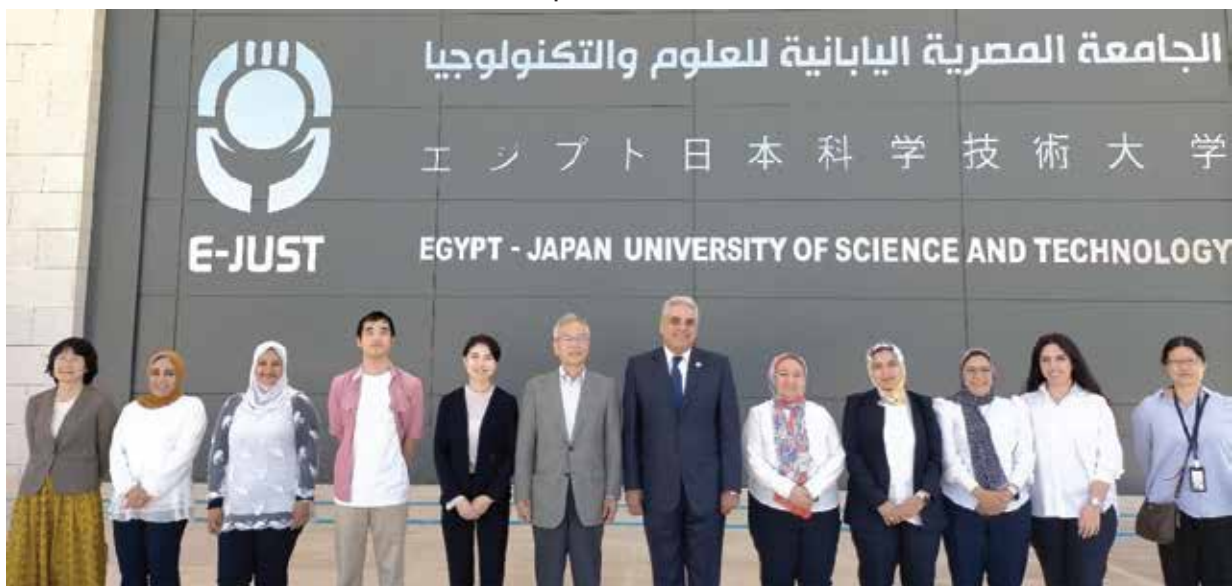
### Online Meetings with Ritsumeikan University

The meetings are held once monthly to discuss E-JUST PAS task force updates, sharing all the feedback and modifications which are needed.

Ritsumeikan APU (Mr. Oshima) also guides the PAS team by giving examples and discussing their implementation plan.

### Ritsumeikan University visit to E-JUST

On July 2022, two physical meetings were held with Mr. Oshima, the Secretary-General, the JICA team, and the HR team to discuss the set plan.



## Performance Appraisal Score Disclosure Meetings

In August 2022, meetings were held with the members of each office disclosing their scores at discretion with each employee and explaining the PAS dispute procedures.

## Formulating the PAS Strategic Action Plan

In August 2022, the PAS task force held workshops led by Eng. Osama Fathy and Ms. Ozawa Midori to set and approve the short-term and long-term plans.

## Performance Appraisal Disputes

In September 2022, the PAS task force received the employees' disputes; the meetings were held with the Secretary-General, the evaluator, and the employee to discuss the disputes and give feedback by sharing all the evaluation details.

## Modifying the PAS Evaluation Methodology

In October 2022, the modifications of trial phase 1 were reflected in trial phase 2 after receiving feedback from top management, the staff, and evaluators.

## Creating the PAS Guidelines and Rating Criteria

In October 2022, the guidelines and rating criteria system was set and modified for a better understanding of the PAS implementation to unify the same concepts for all the evaluators.

			Notes	August				September				October				November				December			
No	Main Tasks	Sub-Tasks		w3	w4	w5	w1	w2	w3	w4	w1	w2	w3	w4	w1	w2	w3	w4	w5	w1	w2	w3	w4
		Preparing adjusted Performance Appraisal for 2022																					
	1	Share PAS 2021 results with employees and receive feedback	In progress																				
	2	Confirm existing employee data	In progress																				
	3	Distribute Evaluator ratio 1:10*15																					
	4	Clarify initial outline for authority matrix (especially for evaluators)	Receive approval																				
	5	Rephrase evaluation criteria to be simpler and shorter	Done																				
	6	Identify the Rating system for evaluation	In progress																				
	7	Update the Evaluation Guidelines	In progress, will be completed after IT confirmation of the																				
	8	Prepare examples of Criteria for better understanding (Annex to Guidelines)	In progress																				
	9	Conduct an Orientation Session with Evaluators explaining how they should approach the evaluation	2nd week of Nov																				
	10	Confirm that the Appraisal is well structured on a system																					
	11	Conduct a second orientation session with Evaluators on how to use the PAS system in the upcoming evaluation																					
	12	Conduct PAS 2022																					
		Long-Term Plan Goals																					
1		Review Current Organizational Structure alignment with the Strategic Plan																					
1		Creating Office Duties & Job Description																					
	1	Go through the duties and processes collected through the strategic plan to develop an outline																					
	2	Ask manager to prepare office tasks, duties and Job Description (even in Arabic)																					
	3	Modify after data collection																					
	4	Conduct interviews with office managers and employees to verify the written descriptions while confirming competencies																					
	5	Compile all of the job descriptions in one manual.																					



## Goal. 9

# Industry, Innovation, and Infrastructure

- **Aim**

Promote inclusive and sustainable industrialization and foster innovation.

- **Actions**

**Filed patents:**

- 18 patents were filed in 2022
- E-JUST got its first granted patent in January 2019 with issuing number 28928.

- **Grants**

The total number of grants in 2022 is classified as:

Active: 14 (inside), 2 Outside Accepted: 4 Closed:0 Submitted:44.

Also, the total budget of accepted grants in 2022 is 15,779,400 EGP and the total budget of active grants in 2022 is 23,888,712 EGP

### Industry Relations 2022

#### 1- Consultations:

Starting Date	Company Name	Project Title	Project Team	Dept.	Amount
March	Arab Organization for Industrialization	Installation of and training on Lithography machine- At the institute of Nano Technology at Kafr El Sheikh University	Prof. Ahmed Rashad Fath El Bab (PI)	MTR	35000
July	Harvest Foods El-Bawady	Establishment and operation of Microbiology lab in El Bawady factory.	Prof. Ahmed Abdelmawgoud	BAS-BIO	50,000 EGP
October	Alexandria for Mineral Oils (AMOC)	Design of a Lightning Protection	Dr. Tamer Megahed	EPE	75,000 EGP
		Conventional System	-Prof. Diao-Eldin Mansour -Eng. Heba Mohamed	EPE	75,000 EGP
November	E-CAB	Cable Inspection	-Dr. Tamer Megahed -Prof. Diao-Eldin Mansour	EPE	15000 EGP
December	AMOC	Cable Inspection	-Dr. Tamer Megahed -Prof. Diao-Eldin Mansour	EPE	20,000 EGP
<b>Total</b>					<b>195,000 EGP</b>

## 2- “Special Consultation”

Year	Month	Company Name	Project Title	Project Team	Dept.	Amount
2022	September	Al-Galala Marble Complex	Reconstruction Study on the Al-Galala Marble Complex	Dr. Ahmed Khalil – General Coordinator	IME	900.000 EGP

## 3- Millionaire Club (MC) members 2022

Project Title	Researcher Name
Fabrication of low-cost water filter using novel waste plastic-based composite membrane for dual water purification process	Hussein Elnoby
Novel photosensitizers for photodynamic therapy in cancer treatment: Design, characterization, controlled singlet oxygen generation, and biological studies	Mohamed Elkhoully
Clean Energy Generation for Street Lighting and Remote Rural Electrification via a novel hybrid PV/Wind Turbine System Design	Mahmoud Amin
Developing 3D-printed implants for alleviating geriatric muscle injuries and muscular dystrophies	Ahmed Osman Egiza
Bio-receptive Concrete Panels as an Innovative Approach for Buildings' Climate Change Mitigation and Adaptation (Energy Efficient and Sustainable Buildings)	Hatem Mahmoud,
Studying the Vulnerability Assessment of Egyptian Ports to Climate Change and Appropriate Adaptation Options Based on Cost-Benefit Analysis	Mahmoud Sharaan



Millionaire Club Members' Celebration photos



## ITU Activities during January – December 2022

### Corporate Training:

1. Elaraby Leadership Development Program (ELDP)
2. Training of Trainers (ToT) course to Elsewedy Electric T & D.
3. Introduction to Accounting, Finance, and Budgeting

### Short Training Courses:

1. Innovation in Translation Camp:  
A 20-hour workshop related to translation technologies such as post-editing, transcreation, and subtitling.
2. La post-edition: méthodes et outils (online): a course about post-editing





## Goal. 10 Reduced Inequalities

### • Aim

One of the main goals of E-JUST is reducing inequalities and ensuring that no one is left behind, which is an integrated aspect of achieving Sustainable Development Goals.

Minimizing inequalities in income, access to services, and opportunities based on age, gender, religious or social background

### • Actions

#### TICAD7 African Scholarships for STI

E-JUST had a big mission of implementing “TICAD7 African Scholarships for STI”, which was confirmed at the summit meeting between the Egyptian President and the Japanese Prime Minister, under the collaboration between Egypt and Japan.

These scholarships are a cooperation between Egypt and Japan in which JICA covers tuition fees and E-JUST covers other costs (150 scholarships for African students over the course of 3 years).

#### Current Situation of International Students

Currently, the total number of international students in E-JUST Post-Graduate School is 124, which is mainly 119 TICAD7 scholarship students, in addition to 3 students with a Toyota Tsusho Scholarship, 1 student with a JICA scholarship, and 1 student with an E-JUST scholarship, enrolled in Fall 2020.

The following table shows the current situation of 119 TICAD7 scholarship students. They are studying very well and have published many academic journal papers, however, unfortunately, 2 students (number in brackets) left E-JUST because of their underachievement.

TICAD7 Scholarship	Admission	Number of students	Graduation (Scholarship end date)
First Batch	Fall- 2020	27	April 30 <sup>th</sup> ,2023
	Spring- 2021	2 (1) 1 (Ph.D.)	September 30 <sup>th</sup> , 2023 (2024 for Ph.D.)
Second Batch	Fall- 2021	23 (1)	April 30 <sup>th</sup> , 2024
	Spring - 2022	29 1(Ph.D.)	September 30 <sup>th</sup> , 2024 (2025 for Ph.D.)
Third Batch	Fall - 2022	36	April 30 <sup>th</sup> , 2025





# Goal. 11 Sustainable Cities and Communities

## • Aim

Make Cities and Human Settlements inclusive, Safe, Resilient, and Sustainable

## • Actions

- Public Access to the ancient Egyptian obelisk replica landscape on the secondary campus



E-JUST's Secondary Campus

- EJUST participates as a partner in the project (Building Information Modelling for Energy Efficiency in the Public sector BEEP) with a budget of 1900000 Euro. The project, which is partially funded by the European Union, aims to use information technology in the field of rehabilitation of heritage buildings. This is done by designing three-dimensional models for the targeted buildings, which also include information on building materials and style...etc) to facilitate maintenance strategies and reduce energy consumption costs. This includes raising its efficiency and providing a tool for the public owner to manage, monitor and rationalize energy consumption rates and preserve the environment and heritage buildings simultaneously.



### ABOUT PROJECT

Buildings are responsible for 36% of global final energy consumption and nearly 40% of total direct and indirect CO<sub>2</sub> emissions. In such a challenging situation, renovating and making healthier buildings smarter is of utmost importance to reduce the carbon footprint of our homes. BEEP project aims at strengthening the use of Building Information Modelling (BIM) - a process supported by various tools and technologies enabling the generation and management of digital representations of physical and functional characteristics of places - to enhance energy efficiency in buildings. The testing of this emerging technology on built heritage will be performed to demonstrate its suitability to the entire building stock. The project will provide quality architectural data with a powerful method for the energy rehabilitation of public buildings for its potential with private funds through the Energy Performance Contracting. The project also contains an innovative methodology based on the integration of emerging technologies tested on heritage public buildings. The results will streamline the sustainable rehabilitation process and chart a virtuous circle where the money saved by public administrations in managing public assets will be used to enable the interventions on the existing building stock.

BEEP Project

- Public access to the green landscape on the main campus



EJUST's Main Campus

- Public access to Japanese restaurants with traditional Japanese food and decoration



The Japanese Restaurant at E-JUST

- E-JUST supports cultural exchange

E-JUST's "Diversity at University", an event for strengthening the network between E-JUST students was held at the Egypt-Japan University of Science and Technology (E-JUST) on October 25th, 2022.

The event gathers the different cultures existing at our university to strengthen and enrich the bonds between the different cultures through exhibitions, shows, and different activities that encourage everyone to make new friends with people with different backgrounds, traditions, and cultures, which make eventually have a great impact on EJUST community and making it a unique experience as it ought to be. Multiple teams participated in the event from Nigeria, Uganda, Ghana, Japan, and Egypt



- Offering affordable housing for E-JUST EMPLOYEES as the university is going to establish a new housing compound on the main campus. The new housing will accommodate about 1700 employees and students. The new dorm was designed based on the sustainability vision (energy efficiency building, clean mobility, %75 green areas)



A perspective for the new housing in the main campus (Students)



A perspective for the new housing in the main campus (Employees)

- EJUST set targets for more sustainable commuting (walking, cycling, electric cars) by dedicating bike lanes all over the campus and between secondary and main campuses.



- Connecting both E-JUST's campuses with bike lanes



Bike lanes and parking hubs in the main campus



Electric cars for more sustainable commuting

- To improve the thermal comfort in outdoor spaces which reduces heat stress and supports public activities, shades were added to multiple spaces in the main campus



Shaded areas in the main campus

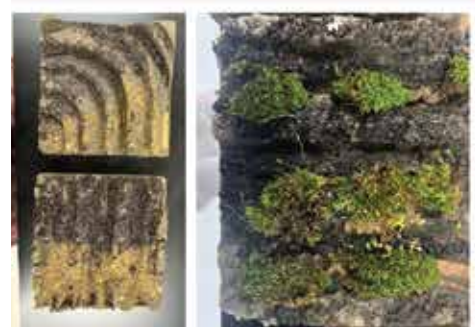
- In the new phase of EJUST constructions (14 Buildings), a smart lighting system was added which could reduce the required energy for lighting by about %60

Car, Bus	Installation type, technology	Range	Detection zone	Degree of automation	Examples of application
3.6W x 1W	RFID	0.5m	0.5m	IP-40	Garage, entrance, exit, parking, etc.
0.5W x 1W	RFID	0.5m	0.5m	IP-40	Garage, entrance, exit, parking, etc.
0.5W x 1W	RFID	0.5m	0.5m	IP-40	Garage, entrance, exit, parking, etc.
0.5W x 1W	RFID	0.5m	0.5m	IP-40	Garage, entrance, exit, parking, etc.
0.5W x 1W	RFID	0.5m	0.5m	IP-40	Garage, entrance, exit, parking, etc.
0.5W x 1W	RFID	0.5m	0.5m	IP-40	Garage, entrance, exit, parking, etc.
0.5W x 1W	RFID	0.5m	0.5m	IP-40	Garage, entrance, exit, parking, etc.
0.5W x 1W	RFID	0.5m	0.5m	IP-40	Garage, entrance, exit, parking, etc.
0.5W x 1W	RFID	0.5m	0.5m	IP-40	Garage, entrance, exit, parking, etc.
0.5W x 1W	RFID	0.5m	0.5m	IP-40	Garage, entrance, exit, parking, etc.



Types of lighting sensor

- Through the research activities, EJUST addresses sustainable cities and mitigating climate change through developing green materials. In 2022, E-JUST was awarded a fund from ASRT for a research project entitled Bio-receptive Concrete Facades as an innovative approach for buildings' climate change mitigation and adaptation.



Baroreceptive concrete in building facades (Sustainable Architecture lab)



## Goal. 13 Climate Action

### Aims

No country has managed to evade the adverse effects of climate change without experiencing its detrimental consequences. Greenhouse gas emissions are increasing dramatically for 30 years ago. Global warming is causing long-lasting changes to our climate system, which threatens irreversible consequences if we do not act decisively. So, the university aims to reduce greenhouse gas emissions by using clean energy resources or avoiding using harmful gas emissions technologies.

### Actions

Climate change is moving faster than we are. Therefore, E-JUST has recognized the urgent need for a sustainable development plan to combat the challenges inherent in global climatic changes. The plan is mainly concerned with four milestones: Operation, Research, Education, and Consultancy.

### Operation

EJUST, with the cooperation of the Ministry of Environment, has installed environmental pollutants measuring plant. Moreover, EJUST has applied many operations to decrease the impact of greenhouse gas emissions and global warming, and carbon emissions. For example, EJUST uses electric cars to avoid engine cars within the campus. Moreover, the university encourages using bicycles by installing special roads for the bicycles within the main campus and lending students for buying their bicycles. Also, the Introduction of clean energy by using solar electricity generation system. It is also noteworthy that a grant agreement was signed on February 11th, 2010. The solar electricity system generates 560 KW of solar energy. JICA extends a grant of 970 million Japanese Yen to the Egyptian Government to establish a solar electricity generation system at the university.



EJUST's Plant for Emissions Measurements



Electric Cars



Green Area in EJUST



Bicycles in E-JUST



Roads for Bicycles

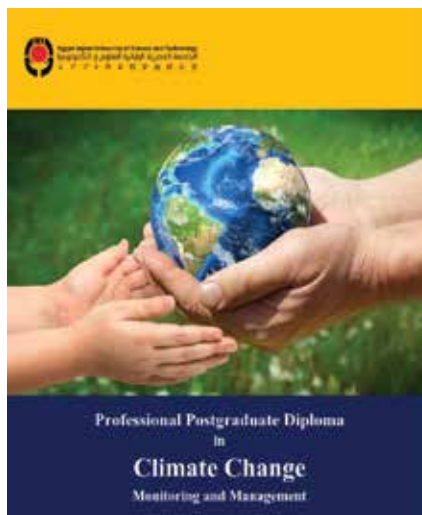
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## Education

At EJUST, there are different programs within the department of Environment for postgraduate and undergraduate studies. Also, EJUST offers a professional diploma in climate change.

## Research

E-JUST is committed to research as an integral part of its mission. Many research tracks have been investigated, such as solar systems, climate observation, meteorology, ground, and space-born instrumentation. It places great emphasis on teaching students problem-solving and critical thinking techniques by adopting a project-based approach through its collaboration with governmental entities and NGOs to equip students with essential skills for their later research careers. Recently, E-JUST established the Space Environment Research Lab (SERL). It is one of E-JUST's distinguished laboratories, being at the top level of research in this field among prestigious universities as it includes diurnal monitoring of satellites and ground stations data.



## Consultancy

The university cooperates locally and regionally to inform and detect the disasters of climate change as with the minister of the environment. The university has a joint agreement with the Egyptian Meteorological Authority including collaboration in educational and research topics related to Climate Change. The Egyptian Meteorological Authority (EMA) is a governmental authority responsible for meteorological and climate change monitoring. The university has a joint agreement with EMA including the collaboration in educational and research topics related to Climate Change. E-JUST university, as an educational entity, collaborates with NGOs on climate adaptation. The university has collaborated with International Development, Environment and Culture Association, IDECA, Alexandria Business Association ABA, and Inner wheel Alexandria East on climate adaptation.

## Public Sessions Raising Awareness of Climate Change:

### - “Climate Change Symposium”

Under the auspices and presence of Alexandria Governor, Prof. Mona Gamal Eldin Ibrahim, Dean of EECE, Egypt-Japan University of Science and Technology, organized a symposium on climate change. The symposium was held on Sunday, 2022-1-30, at Hilton Kings Ranch Alexandria Hotel, with the attendance of about 230 persons representing the Alexandrian society. Dr. Jasmin Fouad, The Minister of Environment, honored the online attendance.

The symposium came up with the following recommendations:

- 1- Considering climate change seriously as an urgent matter.
- 2- Integrating research parties to carry out studies on climate change in coordination with the executive parties.
- 3- Organizing a series of seminars on climate change.
- 4- Raising awareness among different sectors of society about climate change and the role of the individual in reducing consumption and saving natural resources.
- 5- Participating in achieving the five objectives of the National Climate Change Strategy 2050.
- 6- Launching of the "Awareness Initiative about Climate Change" through IDECA is based on President Abdel Fattah El-Sisi's declaration of 2022 as the Year of Civil Society with the recommendations of the World Youth Forum in its fourth edition.



**A workshop entitled: "Exploitation of renewable energy in the production of green hydrogen and green ammonia":**

On Thursday, 24 February 2022, Abu Qir Fertilizer and Chemical Industries Company organized a workshop entitled "Exploitation of renewable energy in the production of green hydrogen and green ammonia", in collaboration with the major leading global and local companies in this field and with the presence of industry experts, organizations' and companies' chairs, universities' presidents, and researchers.

Prof. Mona Gamal Eldin Ibrahim, Dean of EECE, Egypt-Japan University of Science and Technology, moderated the scientific sessions during the workshop, which was organized online and physically, on the issues of how to produce and exploit hydrogen and green ammonia.

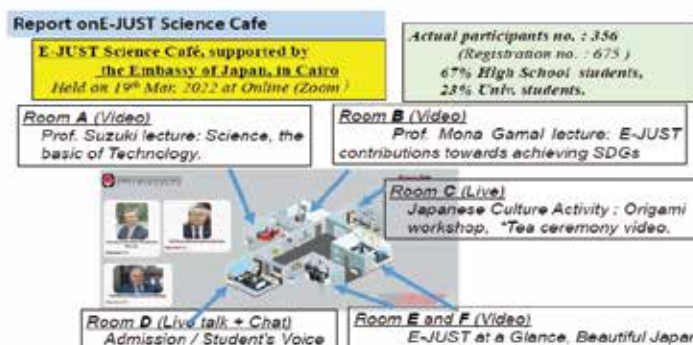


## E-JUST Science Café 2022: “E-JUST contributions towards achieving SDGs”:

E-JUST, in cooperation with the Embassy of Japan in Egypt, organized an online Science Café on Saturday 20-3-2022, which aims to spread awareness of Japanese science and culture for students. More than 350 high school students, as well as students and professors interested in attending, participated in the science café.

The Science Café included a speech by Mr. Oka Hirochi - Ambassador of Japan to Egypt, a speech by Prof. Ahmed El Gohary - E-JUST President, and a speech by Prof. Suzuki Masaki - First Vice President of the University for Regional and International Affairs.

Prof. Mona Gamal El-Din Ibrahim - Dean of the School of Energy Resources, Environmental, and Chemical and Petrochemical Engineering (EECE), gave a lecture on "E-JUST contributions towards achieving SDGs and tackling climate change”.



## A workshop entitled: “Tackling Climate Change: Towards Green Environment”:

Prof. Mona Gamal El-Din Ibrahim held a workshop entitled “Tackling Climate Change: Towards Green Environment” on Wednesday 2022-9-14 to aware youth with the global warming gases, and the negative effects of climate change.

The workshop included various activities about the role of each one to control the consumption of energy, water, and food with the attendance of about 75 youths from different 12 universities. They also gained information about how to calculate their “Carbon Footprint” aiming at reducing it.



## The Climate Leadership Program for Youth

On Tuesday 7<sup>th</sup> of June, 2022, Prof. Mona Gamal Eldin gave a session entitled “Combating climate change: Egypt's youth can.” as a part of the Climate Leadership Program for Youth, which is held under the supervision of the Ministry of Environment and the Ministry of Higher Education.

On Thursday 27<sup>th</sup> of October, 2022, Prof. Mona Gamal Eldin gave another session as a part of the second round of the Climate Leadership Program for Youth.

### “Weather and Climate: What is the difference?”

Coinciding the preparation for Egypt's hosting of COP 27 conference, Prof. Mona Gamal El-Din Ibrahim - held a workshop entitled “Weather and Climate: What is the difference?” on Monday 5<sup>th</sup> of September, 2022 to raise children's awareness, in a simple way, of the definition of weather, climate, the difference between them, the global warming gases, and negative effects of climate change. The workshop included various activities for children about the role of each one to control the consumption of energy, water, and food. About 180 children participated in the workshop.



### Tackling Climate Change: Towards Green Environment” Workshop

Coinciding with the preparation for Egypt's hosting of COP 27 conference, Prof. Mona Gamal El-Din Ibrahim, held a workshop entitled “Tackling Climate Change: Towards Green Environment” on Wednesday 14<sup>th</sup> of September, 2022 to raise the awareness of the youth of the global warming gases, and the negative effects of climate change.

The workshop included various activities about the role of each one to control the consumption of energy, water, and food with the attendance of about 75 youths from different 12 universities.

They also gained information about how to calculate their “Carbon Footprint” aiming at reducing it.



## Participation in the COP27, Sharm El-Sheikh from 6 to 18 November 2022

Prof. Mona Gamal El-Din has been invited by the Japan International Cooperation Agency (JICA) to participate in the Japan State Pavilion and held a seminar entitled "E-JUST Role in Raising Awareness, Building Knowledge Of Hydrogen Energy, and Actions to Tackle Climate Change" on Friday, 11th of November, 2022 (Decarbonization Day), through which she explained E-JUST's journey of excellence and talked about the EECE's capabilities to produce hydrogen as clean energy, in addition to the activities carried out by the university to raise awareness and tackle climate change. The seminar is moderated by Mr. KATO Ken, Chief Representative of, the Japan International Cooperation Agency (JICA) Egypt Office.

JICA organized this side event under the title "Green Hydrogen Energy Development: Towards a Hydrogen Based Society" shedding light on the following:

- JICA's cooperation for climate change and capacity development for promotion of hydrogen energy use.
- Egyptian government recent developments related to Green Hydrogen Energy.
- Recent development of Hydrogen energy in Japan.
- Perspectives of Japanese Private Sector for the development of hydrogen energy infrastructure.
- The role of Higher Education institutes like E-JUST in raising awareness and building knowledge.

The seminar was attended by Dr. Muto Megumi – vice president of JICA, Eng. Tarek El-Nabarawy - president of the Engineers Syndicate, Eng. Ahmed Darwish - Head of the environment committee, Engineers Syndicate, representatives from the Egyptian Ministry of Electricity, and attendees from different nationalities.



Japan International Cooperation Agency (JICA) organized a side event at the 27th UN Climate Change Conference of the Parties (COP 27) titled “Energy Efficiency and Conservation Cooperation between Egypt and Japan” which took place in Sharm El-Sheikh, Egypt on the 15th of November, 2022 in the Energy Day at the Egypt Pavilion in the Green Zone at Hall A.

Professor Amr Eltawil was invited as a speaker to provide an overview of the role of Higher Education institutes such as E-JUST in raising awareness and building knowledge on Energy Efficiency products and actions to tackle Climate Change in addition to shedding the light on the recent Pilot Project conducted at E-JUST to promote Energy Efficiency Products under JICA Technical Cooperation on Energy Efficiency and Conservation.

Professor Eltawil presented the results of the JICA-funded project covering two tracks, the first is the verification test of inverter-based air conditioners (Total Fund EGP1.5 Million). The project illustrated that inverter-based AC can reduce energy consumption by more than 60% compared to conventional ACs. The second track presented the outcome of the field test of E-JUST ECO SENSOR, a hand-sized smart electricity consumption meter, that can be easily attached to any home appliance to measure its electricity consumption. The smart meter then transfers the readings to a cloud-based dashboard to report on the energy consumption of each appliance in any domestic household. The pilot project also illustrated how the regulating authorities can use such information and data to understand the electricity consumption patterns of households in any area, city, or governorate from the different types of home appliances.



### **A workshop titled: “Weather and Climate: What is the difference?”**

Prof. Mona Gamal El-Din Ibrahim - held a workshop entitled “Weather and Climate: What is the difference?” on Monday 2022-9-5 to aware the children, in a simple way, with the definition of weather, climate, the difference between them, the global warming gases, and negative effects of climate change. The workshop included various activities for children about the role of each one to control the consumption of energy, water, and food. About 180 children participated in the workshop.





## Goal. 16 Peace, Justice, and Strong Institutions

### Aim:

Promote peaceful and inclusive societies for sustainable development, provide access to justice for all, and build elective, accountable, and inclusive institutions at all levels.

### Actions:

- Egypt-Japan University of Science and Technology Rank has been improved on the Times Higher Education (THE) Impact Ranking



Egypt - Japan University of Science and Technology participated in the THE 2022 impact ranking with 10 SDGs: SDG#4, SDG#5, SDG#6, SDG#7, SDG#8, SDG#9, SDG#10, SDG#11, SDG#13, SDG#17. E-JUST overall score in 2022 is 71.8 out of 100, while it was 66.2 - 56.6 in 2021, and 68.0 - 61.5 in 2020. This reflects E-JUST progress towards achieving SDGs.

E-JUST has been ranked 401-600 among 1406 universities around the world that participated in the rank 2022. Nationally, E-JUST has been ranked 4th among 36 Egyptian Universities that participated in the rank 2022.

E-JUST achieved higher scores worldwide in the following goals as follows:

Ranking	SDG# 6 Clean Water and Sanitation	SDG# 7 Affordable and Clean Energy	SDG# 8 Decent Work and Economic Growth	SDG#11 Sustainable Cities and Communities	SDG# 13 Climate Action	SDG# 17 Partnerships for the Goals
2022	<b>60.8</b>	<b>78.9</b>	<b>50.3</b>	<b>71.6</b>	<b>46.3</b>	<b>55.3</b>

E-JUST has been ranked 15th out of 705 institutions that participated in SDG#7 in 2022. This reflects E-JUST's contributions to using clean energy. E-JUST pays attention to the decent work atmosphere so, it achieved a great score in SDG#8 while in 2021 we were out of rank.



## Goal. 17 Partnerships for the Goals

### Aim:

Strengthening means of implementation of a successful sustainable development agenda requires Egypt-Japan University of Science and Technology to participate strongly in related scientific advancements, contribute to research and technology, and build strong interaction with regional, national, and International Institutions.

### Actions:

#### - E-JUST granted scholarships to 51 African students

E-JUST granted scholarships to 51 African students from 12 African countries, for the 2022 academic year. Where E-JUST have offered 150 postgraduate scholarships over three years reserved for African students as per the seventh Tokyo International Conference of Africa's Development, TICAD7.

The university aims, through these grants, to serve the African nations. They also include contemporary specializations in modern sciences that contribute to supporting the development projects and activating the role of soft diplomacy by offering these grants and similar ones to the African countries

To promote TICAD7 scholarships, E-JUST representatives made visits to African embassies in Cairo, invited several ambassadors to E-JUST, and organized The African Day and webinars on E-JUST TICAD7 Scholarship.



#### - Young Diplomats and Senghor University Visiting E-JUST

A total of 80 young diplomats from 35 countries, in addition to Senghor University's administration, visited E-JUST's campus and observed its facilities. A meeting was held to discuss ways of collaboration and networking.



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#### - E-JUST Signed Several MOUs in 2022

E-JUST has signed several MOUs with International Universities in 2022 to strengthen collaboration and achieve this Goal, namely:

- Nagoya University of Commerce And Business, Japan,
- Akita University, Japan
- Lumiere Lyon 2 University. France
- Universidade Joaquim Chissano, Mozambique

#### - The Visit of The Honorable Ms. Yuriko Koike Governor of Tokyo to E-JUST

Prof. Amr Adly, President of Egypt-Japan University for Science and Technology (E-JUST), received H.E. Ms. Yuriko Koike, Governor of Tokyo, on 10th November with a high-level delegation from Tokyo Metropolitan Government along with a number of officials from the Embassy of Japan and in the presence of the University's top management.

During the meeting, Prof. Amr Adly demonstrated the development of the University since its inception in addition to its achievements. He emphasized the University is established based on the Japanese experiences in higher education which successfully produce university graduates satisfying the needs of the national labor market as well as preparing them to maximize their global employment opportunities.

Prof. Amr Adly praised the support of JICA for its effort in coordinating academic collaboration with Japanese universities, capacity development of human resources, and establishing the University's laboratories with the world's latest technologies.

H.E. Ms. Yuriko Koike, who has been promoting sound bilateral relationships as a chairperson of Egypt Japan Friendship Federation, admired the accomplishments of the University and stated this success as the symbol of cooperation between both countries, Egypt and Japan. Further cooperation between E-JUST and Tokyo Metropolitan Government was tackled during the discussion. After the meeting, the President took H.E. Ms. Koike on a tour of the campus, during which she visited a number of advanced laboratories, a lecture hall, a Japanese Language class, and Ambassador Faiza Abou El-naga Central Library.

It is worth mentioning that H.E. Ms. Koike, throughout the ministerial positions she held in Japan, has always been one of the strongest supporters of Egypt-Japan cooperation.





- **SEMINAR on “Sustainable Development Goals (SDGs) and Tackling Climate Change”**

Prof. Mona Gamal El-Din Ibrahim - Dean of the School of Energy Resources, Environmental, and Chemical and Petrochemical Engineering (EECE), Egypt -Japan University of Science and Technology (E-JUST), in collaboration with Prof. Suzuki Masaaki, the First Vice President, Regional and International Affairs, organized a seminar on "Sustainable Development Goals (SDGs) and Tackling Climate Change".

Prof. Suzuki Masaaki, the First Vice President, opened the session and welcomed the attendees.

Prof. Amr Adly, E-JUST president, welcomed the attendees and talked about E-JUST's mission and the importance of achieving SDGs, and Egypt's vision for 2030.

Prof. Shinobu YAMAGUCHI, Director of the United Nations University Institute for the advanced Study of Sustainability (UNU-IAS) gave a session on “United Nations University - Promoting Sustainable Development through Climate Actions and Paris Agreement Specialization Programmes”. This session illustrated recent research and outreach activities of UNU-IAS and introduced their new postgraduate program with a specialization on the Paris Agreement.

Prof. Mona Gamal El-din, EECE Dean, gave a session on “EJUST's role towards achieving SDGs and tackling climate change” talking about E-JUST in brief with all offered programs in addition to representing E-JUST activities towards tackling climate change, the participation of Prof. Mona in COP27 held in Sharm Elsheikh, and the EECE potential regarding Hydrogen Energy production. The session included a definition of Sustainable Development Goals (SDGs).

About 50 postgraduate students, academics, and administrative staff attended the session. All the attendees participated in the open discussion at the end of the seminar.



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- **E-JUST's Dragons Summit and Camp**

E-JUST Dragons Summit discussed I4.0 technologies, ideas, and solutions that can help the industrial community overcome competition challenges. The summit also discussed the networking between E-JUST research capabilities, partners' technological service companies, and industrial entities to face industrial technological challenges.

The summit brought decision-makers and top leaders from the local community and from around the world for a unique series of discussions, debates, and networking opportunities. Each summit session included a different combination of speakers, formats, workshops, breakouts, networking opportunities

- **Collaboration with Elsewedy Electric T&D**

The visit by Elsewedy Electric T&D" to E-JUST was very successful and Elseweedy company representatives were very interested in cooperation with E-JUST members.

Elseweedy provided training for 27 international students from E-JUST and 10 undergraduate students. The training program is called "Tamkeen Learning Program by Elsewedy Electric T&D"



# Concluding Remarks

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By including and addressing the Sustainable Development Goals (SDGs) which lie within the scope of our university, this report consolidates E-JUST's commitment to global sustainability efforts.

It demonstrates that progress is being made in some critical areas and that some favorable trends are evident.

Consequently, it reinforces a more comprehensive understanding of which areas of sustainable development are being addressed by E-JUST efforts, as well as which areas need further consideration or action.

The figures and data highlighted in this report bring with them varying challenges to build on current success and transform our ideas into reality. It is abundantly clear that much faster and more ambitious progress is necessary to unleash the social and economic transformation needed to accomplish our goals in accordance with SDGs.

Evidently, the report has highlighted areas that can drive progress across different SDGs: climate change, clean energy, healthy sanitation, more effective education, gender equality, revitalizing global partnerships, and much more.

We look forward to working hard toward achieving more advances for the University, Egypt, Middle East, and Africa.