

# Sustainable Development Report **2021-2022**









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#### Who we are?

Prince Sultan University's Center for Sustainability and Climate (CSC) is committed to the United Nations Sustainable Development Goals (SDGs) through effective institutional resources management, innovative teaching and learning, research, national and international partnerships, continuous studies, and outreach. PSU shall undertake the following activities: form higher and steering committees, evaluate each SDG, formulate and develop related SDG policies, conduct awareness campaigns to the PSU community, establish a sustainability office, identify the SDGs related to each college, program, and course, and lab centers at PSU, and implement sustainability-related

## Vision

To support Saudi Arabia's Vision 2030 and the United Nations Sustainable Development Goals (SDGs) towards sustainability and climate justice by inspiring action, developing leadership, and building networks.

## Mission

Supporting the Saudi Arabia's Vision 2030 and the PSU's strategic directions, Prince Sultan University's Center for Sustainability and Climate (CSC) transform commitments into action and build a decarbonized, more sustainable world, driving technological and economic transformations to realize sustainable competitive advantage. To coordinate, promote, and accelerate interdisciplinary research and training on sustainability and climate, and the role of humans in the environment.

### **PSU's Commitment to SDG 2030**

PSU is committed to the United Nations Sustainable Development Goals (SDGs) through effective institutional resources management, innovative teaching and I earning, research, national and international partnerships, continuous studies, and outreach.







### **Foreword from President**

Greetings! It is a great pleasure for all of us here at PSU, and we are indeed delighted, pleased, privileged to be taking part in the Times Higher Education Impact Ranking. PSU is committed to applying the UN SDG 2030 as part of PSU with our strategic and support to the Kingdom of Saudi Arabia 2030 vision, which in terms of integrating the UN 2030, 17 global goals. Thus, PSU is participating in the upcoming Times Higher Education Impact Ranking, which is solely based upon the SDG 2030.

We at PSU are keen to show how PSU teaches the next generation of PSU students to a depth of sustainability in their lives. We will be demonstrating our commitment to meaningful education around SDGs in our programs and classrooms. So, PSU for higher committees and subcommittees to oversee and follow up on our performance and compliance with the SDGs.



Since the impact rankings are measured based on three broad areas such as research, outreach, and stewardship for the goals, PSU is always determined to perform very well. Therefore, PSU is significantly focusing on several SDGs, including SDG 4, which is quality education, and that's what PSU is all about. SDG 5, gender equality, is reflected in our student body, where 60 percent of our students are female.

SDG 8 Decent Work and that's also reflected in our graduates, about 90 percent of our graduates get jobs within three months. SDG16, peace and justice, reflects PSU outstanding law school and SDG 17, which is the partnership for goals comprehensive. So, we are looking forward to and excited about our continued success with SDG compliance.

Thank you.

## Dr. Ahmed Bin Saleh Al-Yamani

President

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#### Message from the Director



## Prof. Mohammad Nurunnabi

PhD (Edinburgh), FAIA(Acad), SFHEA, FRSA, CMBE, CMA, FFA, FIPA, CPA

Director, Center for Sustainability and Climate (CSC) Aide to the President and Chair in Accounting Prince Sultan University, Saudi Arabia Academic Visitor (Senior Member) St Antony's College, University of Oxford, United Kingdom Center for Sustainability and Climate



Prince Sultan University's Center for Sustainability and Climate (CSC) is committed to the United Nations Sustainable Development Goals (SDGs) through effective institutional resources management, innovative teaching and learning, research, national and international partnerships, continuous studies, and outreach.

Since the launch of Vision 2030 in 2016, the Kingdom has taken significant steps to scale up its climate action and environmental protection. Our mission is to support the Saudi Arabia's Vision 2030 and the PSU's strategic directions. Prince Sultan University's Center for Sustainability and Climate (CSC) transform commitments into action and build a decarbonized, more sustainable world, driving technological and economic transformations to realize sustainable competitive advantage. To coordinate, promote, and accelerate interdisciplinary research and training on sustainability and climate, and the role of humans in the environment.

#### "Prince Sultan University is the First Saudi University to Pledge Net Zero Carbon University by 2060" "Prince Sultan University is the Second Saudi University in SDG 17 - Partnerships for the goals"

With the launch of the Saudi Green Initiative in 2021 as part of Saudi Vision 2030, the Kingdom has reaffirmed its belief in a sustainable future for all. According to Saudi Green Initiative "The first wave of more than 60 initiatives announced under SGI—and unveiled at the October 2021 Saudi Green Initiative Forum—represent over SAR 700 billion investment to contribute to the growth of the green economy. Under the patronage of HRH Crown Prince Mohammed bin Salman, the Saudi Green Initiative now takes efforts to the next level by unifying all sustainability efforts in the Kingdom to increase reliance on clean energy, offset the impact of fossil fuels and combat climate change."

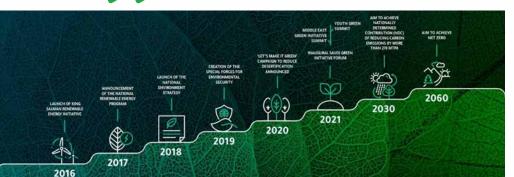
The Center for Sustainability and Climate (CSC) at PSU is strongly committed to contribute to the initiatives of Saudi Green Initiative, Saudi Vision 2030 and of course the United Nations Sustainable Development Goals (SDGs).

We will work together to make a better world.



Timeline of Saudi Green Initiative - A Sustainable Future for Saudi Arabia

Source: www.saudigreeninitiative.org







## **Strategic Collaborators**











## **Official Race to Zero Signatory**

We are part of the Race to Zero and are leading the education sector for a healthy and resilient zero carbon recovery in the lead up to COP26!



## \*CSC



#### **Director of CSC**



## **Professor Mohammad Nurunnabi**

PhD (Edinburgh), FAIA(Acad), SFHEA, FRSA, CMBE, CMA, FFA, FIPA, CPA

Director, Center for Sustainability and Climate (CSC), Aide to the President and Chair in Accounting Prince Sultan University, Saudi Arabia, Academic Visitor (Senior Member) in St Antony's College, University of Oxford, United Kingdom

Professor Mohammad Nurunnabi, PhD (Edinburgh), SFHEA, FRSA, FAIA (Acad), CMBE, FFA, FIPA, CMA, CPA is the Director of Center for Sustainability and Climate, Aide to the President on Ranking and Internationalization, and Chair of the Department of Accounting at Prince Sultan University, Saudi Arabia. He is an Academic Visitor (Senior Member) of St Antony's College, University of Oxford, Oxford, United Kingdom. Previously he has taught in University of East London, United Kingdom (UK), University of Bedfordshire (UK), and Edge Hill University (UK). Prior to his academic career, he worked as a financial team member in ADVFN Plc (covers in excess of 70 stock exchanges from across the globe), London, UK. He holds a PhD with an outright pass (no corrections) from the University of Edinburgh, UK. He is a Certified Public Accountant (CPA), a Chartered Management Accountant (CMA), a senior fellow of Higher Education Academy (SFHEA), UK, an academic fellow of the Association of International Accountants (FAIA-Acad), fellow of the Royal Society of Arts (FRSA), Certified Management & Business Educator (CMBE), Fellow, Institute of Financial Accountants (FFA), and Fellow of Institute of Public Accountants (FIPA). He is an academic member of the Institute of Management Accountants (IMA), European Accounting Association (EAA), British Accounting and Finance Association (BAFA), and American Accounting Association (AAA). He has been active within the accounting profession and is a Vice President (Education) of the IMA Riyadh Chapter, Saudi Arabia and a Global Advisory member of the Diversity Thought Leadership Pipeline (DTLP) Committee of the IMA, USA. Under his leadership, Prince Sultan University (PSU) became the second private university in the world (outside US) to earn AACSB accounting accreditation in 2022. Recently, he is co-chairing Teaching & Curriculum Committee of International Accounting Section of American Accounting Association (AAA).





## **Associate Director of CSC**



## Dr. Sanjida Haque

Associate Director, Center for Sustainability and Climate (CSC) Prince Sultan University, Saudi Arabia

Dr. Sanjida Haque is an Associate Director of Center for Sustainability and Climate (CSC) at Prince Sultan University, Saudi Arabia. She has a PhD and Master from Universiti Sains Malaysia, Malaysia



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### **Advisory Members**



Dr. Ahmed S. Yamani President, Prince Sultan University, Saudi Arabia



Professor Mohammad Nurunnabi PhD (Edinburgh), FAIA(Acad), SFHEA, FRSA, CMBE, CMA, FFA, FIPA, CPA

Director, Center for Sustainability and Climate (CSC), Aide to the President and Chair in Accounting Prince Sultan University, Saudi Arabia, Academic Visitor (Senior Member) in St Antony's College, University of Oxford, United Kingdom



**Professor Wendy Purcell** Emeritus University President & Research Scholar with Harvard T.H. Chan School of Public Health, Harvard University, United States



**Professor Nora Colton** Director of the Global Business School for Health (GBSH) at UCL (University College London), United Kingdom



Ms. May Barber Partner / Creative Director, Ayed & Barber (A&B) Brand Management Advisory, Dubai



**Mr. Duncan Ross** Chief Data Officer, THE (Times Higher Education), United Kingdom



Mr. Mourad Benayed Partner / Strategic Director, Ayed & Barber (A&B) Brand Management Advisory, Dubai



Dr. Ana Margarida L. Costa Head of KAUST Sustainability at the President Office, King Abdullah University of Science and Technology, Saudi Arabia





## **Advisory Members**



Professor John W. Gunn Adjunct Professor of Law at Georgetown Law Center, Georgetown University, United States, Former Tax partner at Ernst & Young, United States



**Dr. Sanjida Haque** Associate Director, Center for Sustainability and Climate (CSC) Prince Sultan University, Saudi Arabia



**Ms. Henrietta Trippett** Policy Advisor Climate Change -Foreign, Commonwealth and Development Office (FCDO), Riyadh, Saudi Arabia



Mr. lain Patton Higher Education Networks Advisor at Youth and Education Alliance -YEA!, UNEP (United Nations Environment Programme)



**Ms. Tana Alqurshi** Graduate Researcher, King Abdullah University of Science and Technology, Saudi Arabia



**Mr. Majid Alasfoor** Partnerships Manager, Royal Commission for AlUla (RCU), Saudi Arabia



**Dr. Eman Alhajji** Founder and President, Saudi Youth for Sustainability King Abdullah University of Science and Technology, Saudi Arabia



Dr. Mohammad Millat-e-Mustafa

Consultant at King Salman Humanitarian Aid and Relief Centre, Saudi Arabia

## \*csc



### **Advisory Members**



Mr. Abdulrahman Alghamdi Head of Experimentation at Accelerator Lab, United Nations Development Programme (UNDP), Saudi Arabia



Ms. Abeer Manneh Acting Director of Sustainability NEOM, Saudi Arabia



**Ms. Amani S. Al-Shalan** Senior Sustainability Expert Saudi Telecom Company (STC), Riyadh, Saudi Arabia



Ms. Shahnaz Sultana Chief Consultant & CEO of FINSalliance: Financial and Social Alliance, Founder of WE: Financial Alliance for Women in Banking and Finance, Bangladesh



Professor Zoe Robinson NTF PFHEA Professor of Sustainability in Higher Education Director, Institute for Sustainable Futures, Keele University, Staffordshire, United Kingdom



H.H. Princess Alanoud Al Saud Supervisor of Audit and Compliance section at a Confidential Government, Riyadh, Saudi Arabia



Ms. Maha AlSudairy Research & Advisory Associate at a Confidential Government, Riyadh, Saudi Arabia



Mr. Sean MacHale Partner and the Financial Services CCaSS Leader (Climate Change & Sustainability Services), EY, Ireland





### **Advisory Members**



Ms. Maryam Telmesani Chair- Global Compact Network Saudi Arabia, CSO- MBL, Sustainability Consultant at the Fashion Commission, Ministry of Culture, Saudi Arabia



Professor Dennis Truax Ph.D., P.E., BCEE, D.WRE, F.ASCE, F.NSPE President of the American Society of Civil Engineers (ASCE), White End. Chair, Department Head and Professor, Mississippi State University, United States



Ms. Yasmin Fansa MENA Sustainability Lead Middle East & North Africa, PepsiCo



**Ms. Noura Alkahtani** Director - Corporate Business Accounting, Ministry of National Guard - Health Affairs, Saudi Arabia



Mr. Frank Peters FCSD, CDir, FloD

Chief Executive Officer - Chartered Society of Designers, United Kingdom & Vice-President, Global Education Policy Network



**Ms. Noelle S. Al Jaweini** Chief of Cash Markets – Saudi Exchange, Saudi Arabia



Dr. Hana Omar Director of Community Support and Acting Director of International Relations and Partnerships at King Salman Humanitarian Aid and Relief Centre, Saudi Arabia



Mr. Bandar Al Blehed Clients Relations Development Head –Saudi Exchange, Saudi Arabia

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## **Faculty Sustainability Ambassadors**



Dr. Syed Umar Amin Computer Science, College of Computer and Information Sciences (CCIS)



Ms. Hana A. Alahmari Information Systems, College of Computer and Information Sciences (CCIS)



Dr. Mohammed Bakjaji Law, College of Law (CL)



Dr. Enis Omerović Law, College of Law (CL)



Prof. Jawahitha Sarabdeen Acting Associate Chair & Director, MCL Program, College of Law, PSU, Riyadh



Dr. Rehana Parveen Law, College of Law (CL)



Prof. Izani Ibrahim Finance, College of Business Administration (CBA)



Dr. Zainab Rawshdeh Prof. Francisco Bastida Management, College of **Business Administration** (CBA)



Accounting ,College of **Business Administration** (CBA)



**Prof. Zahirul Hoque** Law, College of Law (CL)



Dr. Samar El Sayad Accounting, College of **Business Administration** (CBA)





### **Faculty Sustainability Ambassadors**



Dr. Amira Khattak Marketing, College of Business Administration (CBA)



Dr. Alia Mitchell Linguistics and Translation, College of Humanities and Sciences



Prof. Hadeer Abouelnagah Linguistics and Translation, College of Humanities and Sciences



Prof. Mohamad Boudaina Mathematics and Sciences, College of Humanities and Sciences (CHS)



Dr. Raghed Tawrneh General Studies, College of Humanities and Sciences (CHS)



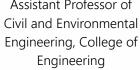
Ms. Fawzia Goni PYP, College of Humanities and Sciences (CHS)



Dr. Israa Fardous Assistant Professor of Interior Design Department, College of Architecture and Design (CAD)



Dr. Mohammed Ezzat Al-Atroush Assistant Professor of





Dr. Mahajan Sagar Bhaskar Assistant Professor of Electrical Engineering Department, College of Engineering



Dr. Wafa Abdelmajeed Labib Assistant Professor of Architecture Department, College of Architecture & Design

## \*CSC



## **Student Sustainability Ambassadors**



Yumna Alnadeem Law, College of Law (CL)



Meshari Samir Alalkami Information Systems, College of Computer and Information Sciences (CCIS)



**Reema Saleh I Alhudhaif** MBA, College of Business Administration (CBA)



Abdullah Dabaan Software Engineering, College of Computer and Information Sciences (CCIS)



Aljoaharah Dhafir Saad Alshahrani

Accounting, College of Business Administration (CBA)



Renad Mohammed Algarni Architecture, College of Architecture and Design (CAD)



Laith Alamro Management, College of Business Administration (CBA)



Dimah Waleed Alharkan Architecture, College of Architecture and Design (CAD)



Rahf Aloubal Software Engineering, College of Computer and Information Sciences (CCIS)



Shahah Alnafia Applied Linguistics, College of Humanities and Sciences (CHS)





## **Student Sustainability Ambassadors**



Rawan Alnafeesah Applied Linguistics, College of Humanities and Sciences (CHS)



Amal AlSaud Applied Linguistics, College of Humanities and Sciences (CHS)



Mashael Almualam Translation, College of Humanities and Sciences (CHS)



Abdullah Al Shawaf Civil and Environmental Engineering, College of Engineering (CE)



**Danah Dkiel** Finance, College of Business Administration (CBA)



Saud Abdulrahman Almogbel Finance, College of Business Administration (CBA)



Aljwhrah Albegami Marketing, College of Business Administration (CBA)



AlDanah Alhokair Accounting, College of Business Administration (CBA)



Muzen Al-Assaf Law, College of Law (CL)





### SDG Higher Committee 2022-2023



## Dr. Ahmed S. Yamani

**President** SDG Higher Committee Chair



## Dr. Saad Al-Rwaita

Vice President, Administrative and Financial Affairs SDG Higher Committee Member



## Dr. Mohammad Aljibreen

**Vice President, Academic Affairs** SDG Higher Committee Member



## Dr. Heba Khoshaim

**Vice President, Female Campus** SDG Higher Committee Member, SDG-5 Committee Chair



## Prof. Mohammad Nurunnabi

**Aide To The President on Ranking & Internationalization, Director of CSC, Chair of Accounting Department** SDG Higher Committee Co-Chair, SDG-17 Committee Chair



## Dr. Jolly Sahni

**Director of Jubilation Office** SDG Higher Committee Member, SDG-8 Committee Chair

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### SDG Higher Committee 2022-2023



## Dr. Emna Chikhaoui

Senior Compliance & Legal Manager, Acting Director of Policies and Development Unit SDG Higher Committee Member, SDG-16 Committee Chair



## Dr. Tahira Hoke

Aide to the President, Director of the Evaluation and Academic Accreditation Center (CW) SDG Higher Committee Member



## Dr. Sanjida Haque

Associate Director, Center for Sustainability and Climate (CSC) SDG Higher Committee Member



## Mr. Victor Mendoza

Director of the Evaluation and Academic Accreditation Center (MC) SDG Higher Committee Member



## Mr. Lester Bello

**Programmer, Public Relations and Media Center** SDG Higher Committee Member





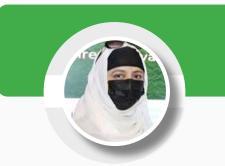
### SDG 5 Committee



Dr. Heba Khoshaim Vice President, Female Campus SDG Higher Committee Member, SDG 5 Committee Chair



Dr. Amira AlKhawaja Assistant to the Vice President, WC SDG 5 Committee Co-chair



Dr. Tanzila Saba Associate Chair of Information Systems Deptartment, Lab Leader of Artificial Intelligence & Data Analytics (AIDA) SDG 5 Committee Member



Dr. Dina El-Dakhs Chair of Department of Linguistics and Translation, Lab Leader of Applied Linguistics Research Lab (ALLAB) SDG 5 Committee Member



## \*CSC



## **SDG 8 Committee**



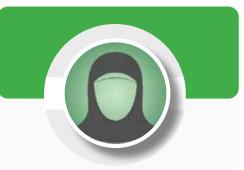
Dr. Jolly Sahni Associate Director of MBA Program, **Director of Jubilation Office** SDG Higher Committee Member, SDG-8 Committee Chair



Dr. Yazeed Alfakhri **Dean of Student Affairs** SDG-8 Committee Co-chair



Dr. Roaa Atiyeh Assistant Professor, Department of Interior Design Engineering SDG-8 Committee Member



Ms. Hafsah Alekrish SDG-8 Committee Member



SDG-8 Committee Member





## SDG 16 Committee



Dr. Emna Chikhaoui Senior Compliance & Legal Manager, Acting Director of Policies and Development Unit SDG Higher Committee Member, SDG-16 Committee Chair



Dr. Shafiqul Hassan Assistant Professor in College of Law SDG-16 Committee Co-chair



Dr. Rakan Alyamani Assistant Professor in College of Engineering SDG-16 Committee Member



Dr. Farida Saleem Faculty Member in College of Business Administration SDG-16 Committee Member



Dr. Samaher Fallatah Vice-Dean of College of Architecture and Design (CAD) and Chair of Interior Design Department SDG-16 Committee Member



Mr. Bryan Morales Associate Director of the Evaluation and Academic Accreditation Center(EAAC) SDG-16 Committee Member



Mr. Feras Mahfoos Admin, Deanship of Student Affairs SDG-16 Committee Member

## \*csc



### **SDG 17 Committee**



Prof. Mohammad Nurunnabi

Aide To The President Of Research, Ranking & Internationalization, Chair Accounting Department SDG Higher Committee Co-Chair, SDG-17 Committee Chair



Dr. Nof Al-Sufyani General Supervisor for Public Relations and Media Center SDG-17 Committee Co-chair



Dr. Elham Dannoun Associate Chair of Department of Mathematics & Sciences in College of Humanities & Sciences SDG-17 Committee Member



Dr. Umashankar Subramaniam Associate Professor of Communications and Networks Engineering Department in College of Engineering SDG-17 Committee Member

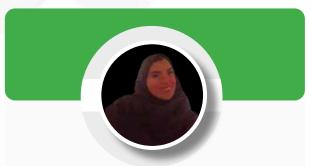




## SDG 17 Committee



Dr. Tahira Hoke Aide to the President, Director of the Evaluation and Academic Accreditation Center (CW) SDG-17 Committee Member



Ms. Muneera Aldhubaiban Community Service Director, Community Services & Continuing Education Center SDG-17 Committee Member



Dr. Sanjida Haque Associate Director, Center for Sustainability and Climate (CSC) SDG-17 Committee Member



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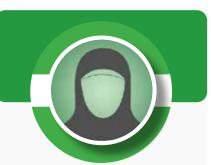
### **Sustainability Fellows**



Prof. Mohammad Nurunnabi PhD (Edinburgh), FAIA(Acad), SFHEA, FRSA, CMBE, CMA, FFA, FIPA, CPA Director, Center for Sustainability and Climate (CSC), Aide to the President and Chair in Accounting(CHS)



Dr. Sanjida Haque Associate Director, Center for Sustainability and Climate (CSC)



**Dr. Tahira Hoke** Aide to the President, Director of the Evaluation and Academic Accreditation Center (CW)



Dr. Syed Umar Amin Assistant Professor, Computer Science College of Computer and Information Sciences (CCIS)



Ms. Hana A. Alahmari Lecturer, Information Systems College of Computer and Information Sciences (CCIS)



Dr. Mohammed Bakjaji Faculty member, College of Law (CL)



**Dr. Enis Omerović** Assistant Professor in International Law College of Law (CL)



#### Prof. Jawahitha Sarabdeen

PhD (MMU), MCL(IIUM), MSHRM(UOW), LL.B. (Hons)(IIUM), CLPP(TMU) Fellow (FCG) Chartered Governance Institute Canada (CGIC) Barrister & Solicitor, Ontario, Canada. Acting Associate Chair & Director, MCL Program, College of Law, PSU, Riyadh





### **Sustainability Fellows**



Dr. Rehana Parveen Assistant Professor, College of Law (CL)



Prof. Izani Ibrahim Professor of Finance, College of Business Administration (CBA)



**Dr. Zainab Rawshdeh** Assistant Professor, College of Business Administration (CBA)



**Prof. Francisco Bastida** Leader of the Environment, Social, Governance and Accountability Lab (ESGAL) at the Prince Sultan University. Accounting ,College of Business Administration (CBA)



**Prof. Zahirul Hoque** Professor, College of Business Administration (CBA)



Dr. Samar El Sayad Assistant Professor of Accounting College of Business Administration (CBA)



**Dr. Amira Khattak** Associate Chair - Marketing Program College of Business Administration (CBA)



Dr. Alia Mitchell

PFHEA EdD (University of Cincinnati), Vice Dean, College of Humanities and Sciences (CHS) Director, Teaching and Learning Center (TLC) Linguistics and Translation Department in CHS

## \*csc



### **Sustainability Fellows**



Prof. Hadeer Abouelnagah Professor of English Literature and TranslationCollege of Humanities and Sciences (CHS)



Prof. Mohamad Boudaina Energy, Water, and Environment Lab - Leader, College of Humanities and Sciences (CHS)



**Dr. Raghed Tawrneh** General Studies - Assistant professor, College of Humanities and Sciences (CHS)



Ms. Fawzia Goni PYP, College of Humanities and Sciences (CHS) of Business Administration (CBA)



Dr. Israa Fardous PhD (Aberdeen), RGU Assistant Professor of Architecture and Design Department of Interior Design College of Architecture and Design (CAD)



Dr. Mohammed Ezzat Al-Atroush Assistant Professor of Civil and Environmental Engineering, Member of the soil improv. Tech. Committee, ASCE-GI, Member of Structures and Material (S&M) Research Lab, Faculty Advisor of the PSU-ASCE Student Chapter Engineering Management Department College of Engineering (CE)



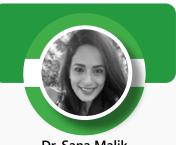
Dr. Mahajan Sagar Bhaskar PhD (UJ), SMIEEE, Assistant Professor, Renewable Energy Lab, Department of Electrical Engineering, College of Engineering, Prince Sultan University (PSU)



Dr. Wafa Abdelmajeed Labib Ph.D., F.HEA, M.ASCE , Architecture College of Architecture and Design (CAD)



Dr. Hana Omar Director of Community Support and Acting Director of International Relations and Partnerships at King Salman Humanitarian Aid and Relief Centre, Saudi Arabia



Dr. Sana Malik Associate Professor, University of Management and Technology (UMT), Pakistan





## Impact Rankings

	ACT		Overall Ranking			
	PACT NKINGS 2	2022		4 <sup>th</sup>		gdom of Arabia
				201-300	World	dwide
5 Gender Equality	B Decent Works Economic Growth		Peace and Justice Strong Institutions	17	Partnerships to achieve the Goal	
<b>3</b> rd in Kingdom of Saudi Arabia	4 <sup>th</sup>	in Kingdom of Saudi Arabia	3 <sup>rd</sup>	in Kingdom of Saudi Arabia	2 <sup>nd</sup>	in Kingdom of Saudi Arabia
101-200 Worldwide	93	Worldwide	101-200	Worldwide	100	Worldwide



# Sustainable Development Report 2021-2022 **No Poverty**







### **No Poverty**

Proportion of students receiving financial aid to attend university because of poverty

Students receiving financial aid

## \*\*\*\*\*

**1485** Number of students got scholarship

## \*\*\*\*\*

**1434** Number of students got partial Scholarship (Low-Income)

## **Community anti-poverty programmes**

### Local start-up assistance

Provide assistance in the local community supporting the start-up of financially and socially-sustainable businesses through relevant education or resources (e.g. mentorship programmes, training workshops, access to university facilities).

#### Academic Service Learning Programs

1. Elite Program in Collaboration with Monsha'at







#### 2. Chinese Language Course & English Language Course

CSCEC welcomed ministry of education members during summer 2019 to be trained by PSU staff member, PSU faculty members from College of Humanities, and external qualified instructors as well to meet the need of the registered trainers in the summer courses with a lack of faculty members existence during summer. The total number of trainers at PSU was 80. The main goal for this training course is to teach the ministry of higher education employees on the basics of Chinese Language according to the governmental decree decision to teach Chinese in government schools in future.



#### 3. inistry of Interior



The Community Service and Continuing Education Centre had a Cooperation with the Ministry of Interior to provide several training programs of English to their employees in different levels and classes based on a placement test. The program was held twice by PSU faculty members from College of Humanities, English Department.





#### 4. Masar

Masar is the first Pre-College Program in the Kingdom of Saudi Arabia designed for high school students to experience college life, prepare for academic success, and explore options. It is based on workshops for various majors to help students decide which majors they should specialize in. It was initially proposed by Ms. Nafla AlKahtani's students as a class project. It was then implemented successfully in collaboration with the Community Service and Continuing Education Center. It was implemented in the spring semester of 2018. Masar usually runs for 2 weeks, and by the end of the program, students will be enlightened and knowledgeable about their next step. The program was held twice by PSU faculty members from College of Humanities, English Department.







## \*CSC



In a collaboration with SABIC, CSCEC customized a program included the most knowledge that a high school graduate needs before studying abroad. The program required a high school graduate with a full time staying at a hotel, being away from his/ her family, being dedicated to a full-time schedule since morning to evening at PSU campus. The program allowed them to gain educational, cultural, and life coaching knowledge to be able to accommodate studying abroad alone.



#### 6. Riyadh Bank International Program

The Community Service Office & the Business Administration college in collaboration with Riyadh Bank have established the Riyadh Bank Training Program to ensure the best quality is delivered. The program offers training from PSU Business Administration faculty along with Euromoney Solutions Company to Riyad Bank newly employees as stated in CSCEC mission and vision to provide the knowledge to our community reaching several categories of the audience to meet the need of our society.





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#### Local start-up financial assistance

Provide financial assistance to the local community supporting the start-up of financially and socially sustainable businesses.







## \*CSC



#### Programmes for services access

Organise training or programmes to improve access to basic services for all.







# Sustainable Development Report 2021-2022 **Zero Hunger**





### Zero Hunger

#### Student hunger

Sustainable food choices on campus for all on campus, including vegetarian and vegan food





\*C2C

#### Healthy and affordable food choices for all on campus



Dear all,

A Vending machine of low-calorie and gluten free food is now available in the lobby of building (3). In case of breakdowns, do not hesitate to contact the General Services and the Maintenance Section on the following numbers:

0114948920 0114948739 0515229101



#### عزيزاتي منسوبات الجامعة ..

نود تذكير كم بتوفر آلة بيع ذاتي للأعذية الصحية قليلة السعر ات الحرارية و الخالية من الجلوتين، وذلك في مبتى(3) الدور الأرضي عند وجود ملاحظات ترجو الإتصال بقسم الخدمات العامة و الصيانة تحويلة: 8395

#### Dear all ...

We would like to inform you that vending machine of low calorie and gluten free food is available in building (3) ground floor. In case of breakdowns, do not hesitate to contact the General Services & Maintenance Department Ext: 8395





جامعة الامير سلطان

#### **National hunger**

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	J
NI7	

Provide access on food security and sustainable agriculture and aquaculture knowledge, skills or technology to local farmers and food producers.



Events for local farmers and food producers to connect and transfer knowledge

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University access to local farmers and food producers (e.g. labs, technology, plant stocks) to local farmers and food producers to improve sustainable farming practices.



Sustainable food purchases - Prioritise the purchase of products from local, sustainable sources.



The Interior Design Department is pleased to invite

How to become a Designer in Sustainable Innovation?

> Speakers: Patrick Le Quément ter of the Sustainable Design School of Nice, France and designer.

Grant Linscott educator and consultant in the fields of Design Thinking. Design filtrategy, and Business Innovation





Sustainable Development Report 2021-2022 **Good Health & Well Being** 





### **Good Health and Well-being**

#### Number graduating in health professions

PSU has 77 scholarly publications on Good health and well-being that has 1,748 views, cited 647 times and has 8.40 citations per paper.



### Collaborations and health services

Current collaborations with local, national, or global health institutions to improve health and well-being outcomes.





الايت الكرماني الرجي الترياني محالية المراجبة (2013) أيام مسئلة الشرح بالدم أقيمة، يقامين السلة التعقيرية التماني در مسئلة الساما ويقطر أولان وعام القودة ومسير الشامية ومغانية المودية - الماني المستقدمين الالتسامين - ومنافرة -





# \*COC





#### اتفاقية تعاون

إنه بتاريخ ١٤٣٩/ ١٢٩هـ للواعق ٢٠١٥/ ٢٠١٨م تم بعون الله وتوهيقه توهيع هذه الاتفاقية بعدينة الرياض. بين كل من:"

- ١٩ مؤسسة سلطان بن عبد العزيز ال سعود الخيرية ومترما الرياض وعنوانها من ب ١٦٢٠ الرياض ١١٥٣٦ ويملكها علا التوقيع على هذه الانفاقية مماحب السمو الملحكي الأمير فيصل بن سلطان بن عبدالعزيز بمسقته الأمين العام ويشار (ابها فيما بعد (طرف أول) .
- ٢- جامعة الأمير سلطان ومشرها الرياض وعنوانها حن ب ٦٦٨٣٣ الرياض ١١٥٨٦ ويمثلها في التوقيع على هذه الاندائية صاحب السمو الأمير الدكتور عبدالعزيز بن محمد بن عياف بصفته رئيمن مجلس الأمتاء ويشار إليها فيما بعد (طرف ثاني).

أقر الطرفان أعلاه بأهليتهما العتبرة شرعاً ونظاماً على التعاقد والتسرف واتفقا على ما يلي:

#### 1.10407

حيث أن الطرف الثلثي يقدم خدماته بلة مجال التعليم ، وحيث أن الطرف الأول جهة تهدف الى دعم المنطعات غير الريحية بفية تطوير الخدمات المستدامة والفاعلة ، التي تهدف الى دعم أخراد المجتمع لتمحقينهم من تتمية مجتمعاتهم المحلية ، وحيث سبق للطرف الأول توقيع الفاقيات تعاون مختلفة مع الطرف الثاني ويرغب حالياً بلة إبرام الفاقية تعاون وخدمات تسهم بلة دهم الأهداف المجتمعية ، فقد انتق الطرطان على ما يلى :

#### اليند الأول

يعتبر التمهيد أعلام جزّيًّا لا يتجزأ من هذه الانفاقية .



صلحة ١ من ٢

2\_







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#### Health outreach programmes

Deliver outreach programmes and projects in the local community (which can include student volunteering programmes) to improve or promote health and well-being including hygiene, nutrition, family planning, sports, exercise, aging well, and other health and well-being related topics. This can also include outreach programmes to displaced or refugee communities local to the institution.







#### with Campion NCAAA Reviewans Visit to PSD Central Library on the Bish

between these of we had been assessed assessed to be \$15. anagers as industrial section? The devide antiants and gala registrant to The distance officially persons have applying the barry that has advant to the as had been blittly finding in the Warner and

#### Awareness of Children's Cancer

In observation of International Childhood Cancer Day, PSU Library (Warner's Campus) plans to pay a visit to children who are now receiving cancer treatment from King Saud University Medical City on February 23 2020. To help raise awareness of children's cancer research and rolated issues in this country, library staff and volunteers have prepared brochure about this special event. Moreover, gifts like reading material have been provided to children with cancer at the medical city as well.





#### SUMMARY OF OUTREACH **ACTIVITY IN 2020** Dr. Suripo Hernid

#### **Exandinator Cutreach Examinities**

the second event this year "A day for our healthy . Physical Therapy Booth hearts". The event was held on 27th February. . Fitness Booth 2020 at Building 102 main lobby from 10:00 AM . Nursing Heart Center Booth to 1.00PM. A group of medical professionals from Sincere thanks are due to Dr Hiba Khoslam King Faisal Specialist Hospital & Research Centre Dr Elham Dannoun ,Dr Fahda -AlThonyan and Ryadh were invited by our university for this members of outreach committee. Dr Seema Gui event. Five (5) booths were placed in the campus ., Dr. Noor Hameededdin, Ms Arooj Yasavi and Ms and for each booth, five professionals from Neelofar Nadeem who rendered full cooperation (KFSH&RC) were deputed. They counseled the and support to make this event a great success. students, staff and admin officials and provided I look forward, to work in association with all them with all necessary information about how to faculty, students and administration to make all keep their hearts healthy and how to stay fit. They future events a great success too.

also explained to them the benefits of proper nutrition. The names of the booths were as:



# \*CSC



### **Shared sports facilities**

Share sports facilities with the local community, for instance with local schools or with the general public.







#### Mental health support

Provide students and staff with access to mental health support

SPONSORED BY: Psychology Club



WORKSHOP For Students "Self-help techniques to control nervousness and panics in exams"



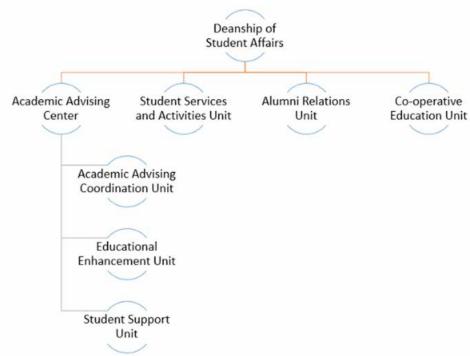
SUNDAY 1<sup>St</sup> MARCH, 2020 VENUE: Prince Sultan Hall / from 12:00 to 1:00 PM



# \*coc







#### Smoke-free policy

#### **Public:**

The university is an institution that has been established to serve its community. The work and conduct of its employees will be directed toward this end. The society has a system of values, regulations, and policies which the university should comply with and provide support for. Thus:

- · Faculty members should treat the general public with courtesy, respect and dignity.
- Faculty members should provide the community with programs that are relevant, accessible and of high quality.
- Faculty members should avoid intentional misrepresentation of personal views as a statement of the position of the university.
- Faculty members should promote good citizenship by participating in activities that lead to the progress of the community including volunteer work.
- Faculty members should avoid public discussions of political or religious issues. Preaching and group worshipping other than Islam are prohibited.
- The use and/or importation of drugs or alcohol are criminal offenses, with very serious penalties in the courts Smoking is also prohibited in all buildings on campus.
- Female faculty members are expected to dress conservatively (i.e., Abayas and scarves) in public places. They are not allowed to drive cars or operate any motor vehicles in the Kingdom.

#### Scholarship:

The fact that faculty members are expected to be active and preferably at the forefront of their professional areas in science, technology, research, and

PSU

PSU Policy Manual 2016

Page 109 of 177





Sustainable Development Report 2021-2022 **Quality** Education



# ००७%

### **Quality Education**

Proportion of graduates with teaching qualification



**826** Number of graduates

#### Proportion of first-generation students



**518** Number of students starting a degree

**76** Number of first-generation students starting a degree

### Public resources (lifelong learning)

Provide free access to educational resources for those not studying at the university – e.g. computers, library, online courses, and access to lectures.





No. of Academies



No. of Academies

1093

Prince Sultan University is a result of effort, the Custodian of the Two Holy Mosques, King Salman bin Abdulaziz, may Allah preserve him. The education for employment project at the university provides the most important international training programs targeted at graduates of Saudi colleges and universities who hold a bachelor degree.

It is essential that attention be paid to this category of both sexes' national youth population and find integrated scientifically based programs to develop their capacities to preserve our society's future features. To ensure that the pace of development continues, and although the practice of work is a contribution to national development, it is undoubtedly a means of earning and providing decent livelihoods. Having young men and women getting jobs is a goal for each family. An obsession haunts parents since end of the son and daughter's association at the university stage to searching for work where that ratio of youth unemployment in Saudi Arabia is 60% in both sexes, about 37% in males and 63% in females.

Hence, the Center's idea, which the university's officials give, notably His Highness Prince Dr. Abdulaziz bin Mohammed bin Ayyaf, Chairman of the University's Board of Trustees. In response to King Salman bin Abdelaziz's desire, since he was Prince of Riyadh, to actively espouse Saudi society's issues. The aim is to qualify university and college graduates who experience difficulties finding suitable job opportunities commensurate with their specialties and fill the shortage of skills and knowledge needed to meet their labor market needs.

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# \*CSC



### **The Centre and Vision 2030**

The Education for Employment program is designed to keep pace with the ongoing development and rehabilitation of hundreds of young people from various universities and colleges in order to build the capacities and possibilities necessary to achieve the ambitious objectives of Vision 2030 and to achieve the aspirations of the University of Prince Sultan to serve the community by supporting and developing the youth of the country and thus achiev-ing the objectives of the National Transformation Program.



Through, the Education for Employment program, a strategic partnership project has been established between Prince Sultan's University and eight leading global technology companies worldwide. Namely, Cisco, Juniper, Oracle, Microsoft, SAP, Huawei, Red hat and VMware. The aim is to transfer global technical knowledge, expertise, and technical skills to the Kingdom and rehabilitate and build Saudi youth who suffer from job security, particularly university graduates.

### **Global partnerships**







#### **E4E Graduation Ceremony**

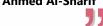


# "

The centre provided for us the best courses and the most recent laboratory, in addition to instructors at a high level of experience, and opened the university doors for us 24 hours to apply and prepare for exams. I am the first Saudi to get it, and my number in the world is 193.



The important of this center lies in developing the skills of graduates and preparing them for the job market in a number of important programs such as (Cisco, Oracle, Juniper, Microsoft and SAP), indicating that he would like to study the Cisco program. Because there is nearly 90% of the labor market companies need Cisco certificates - Ahmed Al-Sharif





# "

"

Since my graduation, i have been looking for programs that develop my skills and abilities until God, through a colleague, helped me to join the King Salman Center for Education and Employment, which includes a large number of programs required by the labor market. He joined the SAP program after completing the English language course prepared by the center.

- Moath Abdullah Al-Daraan

# "

The CCIE certificate represents a great challenge for anyone who wants to go through this experience, especially after the controversy over whether we can pass the test, and it also represent for us to chart the right way to continue this fast field development

- Eng. Rami Bin Matouq Hassan Al-Obaidi



"

# \*C2C



- Eng. Muhammed Hosni Bukhari

PSU CCI @PSU CCI

#HappeningNow

\*\*\*

"

كلمة مدير جامعة الامير سلطان الدكتور/احمد بن صالح اليماني. @PSU\_RUH #E4E #PSU

#### Translate Tweet



# "

There are special courses in the center to qualify graduates, and this is what encouraged me to join it and develop my capabilities. Regarding the means by which he learned about the launch of the program, Al-Enezi said: I have friends with whom I communicate about such matters, and through them I learned about the start of registration in the program, and we have now started to study the English language, and then after four months we will start studying the specialization for a period of seven months according to choice the person for the program he wants, indicating that he has determined his desire to start joining the program, which is to study the Cisco program and obtain the (CCNA) and (CCNP) certificates, until reaching the highest certificate, which is (CCIE).

- Faisal Turkey Al-Enezi

Such a program is rarely found in universities and training centers, in addition to direct cooperation between PSU and Cisco the leader in this field.



12

This certificate means a lot to me, so it is enough that I am one of only 27 thousand people around the world who hold this certificate, and I have realized through several interviews that this certificate makes a quantum leap in employment and salary.

- Eng. Aqeel Abu Bakr

"

"

18-40 PM - Feb 2, 2020 - Twitter for Phone

"





#### Public events (lifelong learning)

Host events at university that are open to the general public: public lectures, community educational events.

CSCEC is part of Saudi vision 2030 in empowerment as well as entrepreneurship by providing PSU beautiful landscapes for companies, home businesses, food trucks owners as well as any individual from society who can visit PSU events and get inspired to start his/ her own as well. PSU creates the most enjoyable environment where all the family members can spend great time together as well.













## **PSU Street Fair**



# **Open Day**







## **Productive Family Exhibition**









### Law Exhibition



# " قانون سلطان : تميز و إبداع "







### **Education outreach activities beyond campus**

Undertake educational outreach activities (e.g. tailored lectures or demonstrations) beyond campus – in local schools, in the community. This can include voluntary student-run schemes.

### **Community Bounding**

CSCEC established this unit to build the community by the community individuals themselves in providing free courses taught by PSU faculty or students. This will improve the knowledge of society individuals and make them feel more productive toward their community as well.

#### Mishkat (Annually 2012-2017)

#### Joud (Every Semester from 2015 to 2016)

Elderly Program (Annually 2016-2019)



单 48



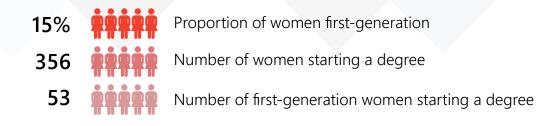


Sustainable Development Report 2020 **Gender** equality





### Proportion of graduates with teaching qualification



#### **Student access measures**

#### Tracking access measures

Systematically measure and track women's application rate, acceptance or entry



# \*CSC



### **University Statistic for Academic Year 2021-2022**

Faculty (including PYP, University level and TAs) 522
Admin 391
Student (Master)
140       Image: Amage of the temperature       Male         138       Image: Amage of temperature       Female         278       Image: Amage of temperature       Total
Student (Bachelors)
<b>2179 🛉 🛉 🛉 🛉</b> Male
<b>2875 * * * *</b> Female
5054 <b>* * *</b> * * * * Total
Student (PYP)
<b>664 👬 👬 👬 🛉</b> Male
586 👬 🏟 🌲 Female
<b>1250 🛉 🛉 🛉 🛊 🛊</b> Total
PSU Population
<b>3463 👬 👬 👬 🛉</b> Male
4032 👬 🌲 🛊 Female
7495  🛉 🛉 🛉 🛊 🛊 Total (PSU Population)

#### PSU Alumni

Bache	elors	
2468	****	Male
4277	****	Female
6745	*****	Total
Maste	ers	
422	****	Male
486	****	Female
908	****	Total

PSU Graduates (Total) 7653

#### Program AT PSU (Graduate and Undergraduate)

College of Architecture and Design 2 College of Business Adminstration 5 College of Humanities 2 College of Law 2 College of Engineering 6 College of Computer science & Information Systems 5 Program AT PSU (total) 22





### Policy for women applications and entry

	Prince Sultan University PSU Policy Management System Accessibility, Non-discrimination, and Harassment Policy
Policy Code:	GV0007
Policy Name:	Accessibility, Non-discrimination, and Harassment Policy
Handler:	The President Office
Date Created:	15 August 2020
Date of Current Review:	15 August 2020
Approved by:	University Council
Date of Approval:	02/09/2020

#### Women's access schemes

#### Academic Advising Center Brochure



Scholarships 40-50% for Applied Linguistics & Translation Majors



# \*CSC



#### Women's application in underrepresented subjects

#### PSU WiDS 2022



# Sixth IEEE International Conference for Women in Data Science





THE WOMEN IN DATA SCIENCE (WIDS) INITIATIVE AIMS TO INSPIRE AND EDUCATE DATA SCIENTISTS, REGARDLESS OF GENDER, AND SUPPORT ARAB WOMEN IN THE FIELD.

#### March 14-15, 2023

**9** 52

#### **OBJECTIVES OF WIDS**

Present high profile international researchers and industry pioneers and female data scientists.

Promote higher representation of Women in Data Science.

Connect regional researchers and practitioners to pioneering global data science networks.

Demonstrates the Kingdom's direction to enhance academic research, which contributes to the national development in accordance with the kingdom's vision 2030.



The field of "Data Science for Social Good" is growing fast, Exciting opportunities provided by data science when applied to che fields of social innovation, philanthropy, international development and humanitarian asi - Dr. Tanzila Saba. WiDS Ambassador PSU







STEM Exhibition Day,11th May 2022\_ Women & Girls in Science





Data Science Club under the supervision of Artificial Intelligence and Data Analytics (AIDA ) Lab at Prince Sultan University, Riyadh, KSA is pleased to invite you to the STEM Exhibition Day (Wednesday, 11th May, 2022 / 09:00 AM - 02:00 PM) aligned to Women & Girls in Science Day. International Day of Women & Girls in Science, Feb 11, 2022



Data Science Club at Prince Sultan University under the supervision of AIDA lab is pleased to organize the INTERNATIONAL DAY OF WOMEN & GIRLS IN SCIENCE on FEB 11, 2022 at 2-6PM Riyadh Time. This Day allows us to honor women's significant achievements in science and place a much-needed focus on girls entering Science, Technology, Engineering, and Mathematics (STEM) careers. Due to the fastest-growing technical advancement in jobs, STEM needs women.

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CAD =

2 ARCH LECTURE 2021-2022

HILLEH

FROM 1975 UNTIL TODAY

SAUDI VISION AND UN GOAL WOL



Certificate Course in Data Science

#### Women in Architecture from 1975 until today

CUSIN LON GOOLS

075

Dair work is too and currently on

incorporate gender approach into planving in Comunitat Uservoiane.

Eve foots the 2019 MAIA Mike

Bistyleov Research Prize, has

participated in 2Hd Canary Islands. Dennet in 2005 and she has lectured

and within extensively on gender

WOMEN IN ARCHITECTI

per Saturday 7 November rd Square, Londen IVC1

# WIDS FOR HIGH SCHOOL

AIDA

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SCHOOLS COMPETITION

WiDS Education Outreach strives to inspire secondary female school students to take relevant courses and consider future careers involving data science, Artificial Intelligence (AI), and other related areas.

We particularly encourage younger women and girls to consider these STEM fields by showing examples of successful women in technology roles. In addition, we strive to impress all students that diversity and inclusion are extremely important.

WiDS for high schools emphasizes the real-world applications, as well as the societal and environmental impact of data science.

This initiative is aligned with Vision 2030 of KSA and WiDS Education at the University of Stanford, USA.

a series and the J 12

#### مؤتمر المرأة من علم البرانات. ورش سل الرياميات وطم البرانات:



**5**4

# & Artificial Intelligence



DRA, EVA

**ALVAREZ** ONLINE LECTURE MONDAY





For further information Dr. Beatriz Villanueva bcaide@psuedusa ARCH department PSkJ

architectural film that designed, among others, Massonacca Auditorium and Massonacca Town Hall, 1. Their work has itom availed by the Constalled Vetenciene in 2017, two pertokasted on the International Exhibition 'On Stage! On Women and Mee in Landscippe. Architecture and Planning' in Hannover, National and Ventua and Rey Nave been

Associate Redence in Arridowneel

velay Vice Dear for International Attains from 2014 to 3016, shualing the AULAhms agreement between HAA and

UPV between 2014 and 2019. Apen from the UPX, she has bught at Lisbrat

University in Harmover, the Architectural

Association in London, Virginia Toch in US, TU Berlin, SIORU Viernia, Sopieruta

University at Floris and LWV in Venice.

manufestring and fermion into architecture and ubarriem In 1001 she co-founded carbs gornez-eve aliance angutectes, In this lecture she will present an extract from her PhD dissertation Women in Architecture. 1975, 2015, that obtained

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Design department at the Universited incorporating the gender perspective into Politicities de iditincie (UPV), where are urban planning, by writing a Guide to

the maximum calcification -Sobresaliente Cum Invited to participate in 2018 Vence Riemate Spain Panlion with the avent "heat, EARNANG(space). Laude - in 2016.







# **Proportion of senior female academics**

Proportion of senior female academics	<b>#####</b> 44%
Number of senior academic staff	<b>**</b> **********************************
Number of female senior academic staff	<b>*** *</b> 44

### **Proportion of senior female academics**

Proportion of female degrees awarded	<b>****</b> * <sup>5</sup>	58.44%
Number of graduates: Total	****	729
Number of graduates by subject area (STEM, Medicine, Arts & Humanities / Social Sciences): Total	*****	729
Number of graduates: STEM	****	151
Number of graduates: Medicine	<b>***</b> **	0
Number of graduates: Arts & Humanities / Social Sciences	****	578
Number of female graduates by subject area (STEM, Medicine, Arts & Humanities / Social Sciences): Total	****	426
Number of female graduates: STEM	*****	54
Number of female graduates: Medicine	****	0
Number of female graduates: Arts & Humanities / Social Sciences	*****	372
Reference: Academic Year 2021		

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# \*COC



### Women's progress measures

#### Policy of non-discrimination against women

Accessibility, Non-discrimination, and Harassment Policy; Gender Equality Policy

	Prince Sultan University PSU Policy Management System Accessibility, Noe-discrimination, and Harasament Policy
silicy Code:	070007
slicy Name:	Accessibility, Non-discrimination, and Harassment Policy
tendler:	The President Office
late Created:	Ts August 2020
late of Current Review:	15-August 2020
Approved by:	University Council
Date of Approval	62/09/2020

### Maternity and paternity policies

### Articles, 64-65, pp 27, 2019-Faculty Governing Policies and Regulation

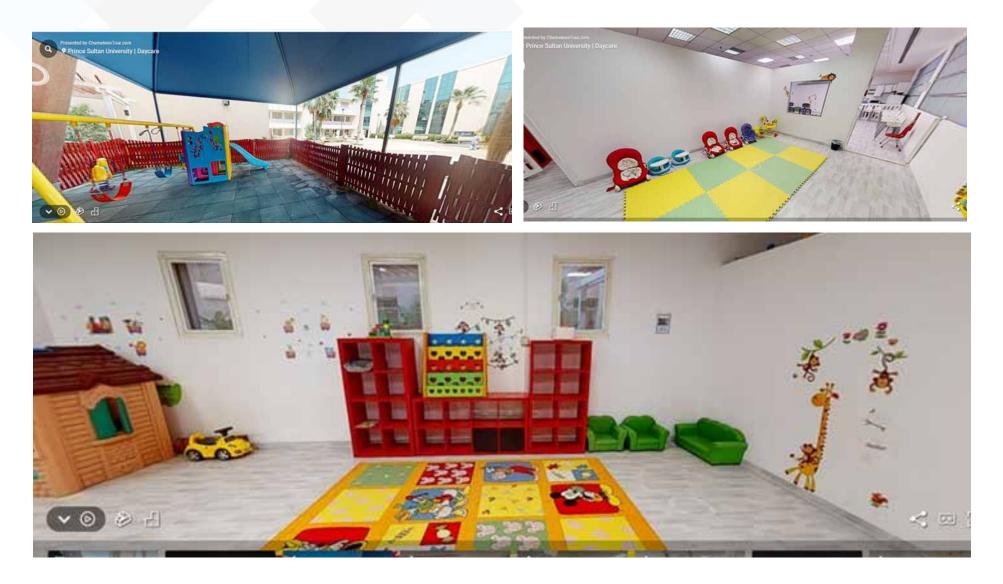






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## Childcare facilities for students, staff and faculty





# \*CSC

Supporting PSU Female Staff and Students in their Career and Educational Journey by Providing Child Care Facilities



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#### Women's mentoring schemes

FACULTY HANDBOOK

Prince Sultan University

Women's mentoring schemes in which at least 10% of female students participate - Academic Advising Handbook

#### Miras (Female Campus Only)

The Miras Program is designed to be the official link between current PSU students and affiliations to provide students with opportunities to gain meaningful experience in their fields of interest. Miras is an Arabic word which means "flexibility and experience". The name was chosen to reflect its objectives.

The purpose of the Program is to provide students with work experience in a professional setting aimed to enhance their academic, professional and personal learnings.

These experiences enable students to apply classroom theory to real-world situations, gain awareness of the professional to real-world situations, gain awareness of the professional expectations in the work environment, identify personal developmental needs and gain insight in their potential career directions.

If you face any problem, please feel free to contact us through E-mail (Miras@psu.edu.sa). Your Email should include an explanation of the nature of your problem along with your name and your student ID. Miras Portal: https://info.psu.edu.sa/pscw/miras/Default.aspx.



Academic Advising Faculty handbook-Ver1



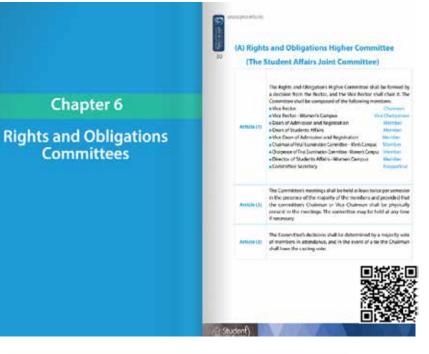
# \*CSC



## Track women's graduation rate

Have measurement or tracking of women's likelihood of graduating compared to men's, and schemes in place to close any gap.





#### Track women's graduation rate

Have measurement or tracking of women's likelihood of graduating compared to men's, and schemes in place to close any gap.

#### Prince Sultan University PSU Compliance and Legal Office Compliance Policies

Policy Code:	COPOSOR	
Policy Name:	Campliance Confidentiality Policy	
Handler	Compliance and Legal Office, Office of the President	
Date Created	21 January 2022	E 1004 E
Data of Current Beview	NA	日が後来日
Approved by:	University Council	
Date of Approval:	35 May 2022	





Sustainable Development Report 2021-2022 **Clean Water** & Sanitation





#### **Clean Water and Sanitation**

#### Water usage and care:

To ensure clean water supply in the campus and to prevent water loss, PSU performs regular maintenance work to water supply

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مذكرة تفاهم

بين شركة المياه الوطنية والجهات الحكومية والخاصة

#### مقدمة

າພ໐

تهدف شركة المياه الوطنية وهي شركة مساهمة سعودية مملوكة بالكامل للدولة متمثلة في صندوق الاستثمارات العامة تقوم بتقديم خدمات المياه والصرف الصحى وفقاً لأحدث المعاير العالمية. وتسعى من خلال تقديم مبادرة خفض الاستهلاك المياه بالتعاون مع عدد من الجهات الحكومية والخاصة في تنفيذ تجربة تركيب أدوات الترشيد ومراقبة الاستهلاك المياه وتقديم خلاصة النتائج التي تحقق الوفر المالى والماني لجهات المشاركة عبر عدة مجالات للتعاون:

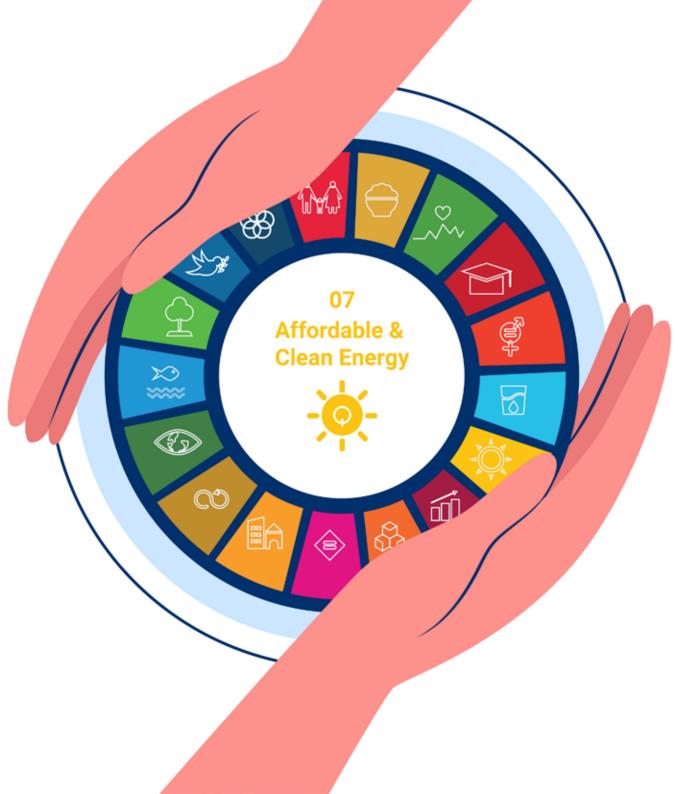
- دراسة الاستهلاك المياه وتقديم التقييم المبدئي للتجربة.
- تحديد المبانى المستهدفة واختيارها ضمن شروط التجربة.
- تركيب أدوات الترشيد المناسبة للمبانى المستهدفة وفق معايير الهيئة العامة للمواصفات والمقاييس.
  - متابعة الاستهلاك وأعداد التقارير اللازمة للتجرية
  - تزويد الجهات المشاركة بالنتائج النهائية لخفض الاستهلاك.
  - مشاركة الإعلامية بين شركة المياه الوطنية والجهات المشاركة.

عى شركة المياه الوطنية عبر خبراتها ومصادرها التقنية والبشرية إلى تقديم أفضل الحلول لوقف الهدر حقيق الاستدامة وفق رؤية المملكة العربية السعودية ٢٠٣٠م وأهداف البرنامج الوطني ٢٠٢٠م.

#### Water in the community

In cooperation with the National Water Company (NWC), PSU signed an MoU to reduce water usage on campus.





Sustainable Development Report 2021-2022 Affordable & Clean Energy





### Affordable & Clean Energy

Prince Sultan University taken efforts on bringing the environment pollution free and contribute towards climate change. As an important stakeholder, PSU contributes towards the achievement of sustainable cities and communities through various events, practices, and research. It regularly organizes events and exhibitions for students and employees to promote the affordable, clean and sustainable energy for all.

The strong commitment can be witnessed from the type of support provided in events related to clean energy, EV and the sustainable practices followed for sustainable PSU campus to promote renewable energy and energy efficiency, research contribution on microgrid and EV, etc. Moreover, the integration of clean and affordable energy as an important topic is endorsed in our curriculum and outreach.

#### Affordable & Clean Energy

Renewable Energy lab, PSU is showing a serious commitment to encourage its researchers to increase their productivity in this field.



#### Power electronics for green energy conversion Mahajan Sagar Bhaskar, Nikita Gupta, Sanjeevikumar Padmanaban, Jens Bo Holm-Authors Nielsen, Umashankar Subramaniam Publication date 2022/7/7 Publisher John Wiley & Sons Description POWER ELECTRONICS for GREEN ENERGY CONVERSION Written and edited by a team of renowned experts, this exciting new volume explores the concepts and practical applications of power electronics for green energy conversion, going into great detail with ample examples, for the engineer, scientist, or student. Power electronics has emerged as one of the most important technologies in the world and will play a big role in the conversion of the present power grid systems into smart grids. Applications like HVDC systems, FACTs devices, uninterruptible power systems, and renewable energy systems totally rely on advances in power electronic devices and control systems. Further, the need for renewable energy continues to grow, and the complete departure of fossil fuels and nuclear energy is not unrealistic thanks to power electronics. Therefore, the increasingly more important role of power electronics in the power sector industry remains paramount. This groundbreaking new volume aims to cover these topics and trends of power electronic converters, bridging the research gap on green energy conversion system architectures, controls, and protection challenges to enable their wide-scale implementation. Covering not only the concepts of all of these topics, the editors and contributors describe real-world implementation of these ideas and how they can be used for practical applications. Whether for the engineer, scientist, researcher, or

student, this outstanding contribution to the science is a must-have for any library.

# ぷくらく



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#### PAPER • OPEN ACCESS

#### Design and realization of smart e for Standalone PV system

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IOP Conference Series: Earth and Environmental Science, Volu Developments and Innovations (ICSDI-2022) 19/02/2022 - 22/ Citation D. Manu et al 2022 IOP Conf. Ser.: Earth Environ. Sci. 1



References •

#### Hide article information

#### Author affiliations

<sup>1</sup> School of Electrical Engineering, VIT Chennai, India

<sup>2</sup> Department of Communications and Networks, Rene Engineering, Prince Sultan University, Riyadh 11586, Sa

DOI https://doi.org/10.1088/1755-1315



#### **Research** Article

#### D. Manu<sup>1</sup>, S.G. Shorabh<sup>1</sup>, O.V. Gnana Swathika<sup>1</sup>, S. Um A Practical Approach for Predicting Power in a Small-Scale Off-Grid Photovoltaic System using Machine Learning Algorithms

#### Aadyasha Patel 3,1 O. V. Gnana Swathika 3,1 Umashankar Subramaniam,2,3 T. Sudhakar Babu 2,4 Alok Tripathi 2,1 Samriddha Nag 3,1 Alagar Karthick 3,5 and M. Muhibbullah 06

<sup>1</sup>School of Electrical Engineering, VIT Chennai, Chennai 600127, India

<sup>2</sup>Department of Communications and Networks, Renewable Energy Laboratory, College of Engineering, Prince Sultan University, Rivadi 11586 Saudi Arabia

Department of Energy and Environmental Engineering, Sawetha School of Engineering, Sawetha Institute of Medical and Technical Sciences, Saveetha University, Saveetha Nagar, Thandalam, Chennai, 602105 Tandhadu, India <sup>4</sup>Department of Electrical and Electronics Engineering, Chaitanya Bharathi Institute of Technology (CBIT),

Hyderabal 500075, India <sup>5</sup>Renewable Energy lab, Department of Electrical and Electronics Engineering, KPR Institute of Engineering and Technology, 641407,

Coimbatore Tamilnadu, India <sup>6</sup>Department of Electrical and Electronic Engineering, Bangladesh University, Dhaka 1207, Bangladesh

Correspondence should be addressed to M. Muhibbullah; m.muhibbullah@bu.adu.bd

Received 28 October 2021; Accepted 18 January 2022; Published 12 February 2022

Academic Editor: Laurentiu Fara

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Climate change and the energy crisis substantially motivated the use and development of renewable energy resources. Solar power generation is being identified as the most promising and abundant source for bulk power generation. However, solar photovoltas: pand is havily dependent on meteorological data of the installation site and weather fluctuations. To overcome these issues, collecting performance data at the remotely installed photovoltaic punel and predicting future power generation is important. The key objective of this paper is to develop a scaled-down prototype of an IoT-enabled datalogger for photovoltaic system that is installed in a remote location where human intervention is not possible due to lursh weather conditions or other circumstances. An Internet of Things platform is used to store and visualize the captured data from a standalone photovoltaic system. The collected data from the datalogger is used as a training set for machine learning algorithms. The estimation of power generation is done by a linear regression algorithm. The results are been compared with results obtained by another machine learning algorithm such as polynomial regression and case-based reasoning. Further, a website is developed wherein the user can key in the date and time. The output of that transaction is predicted temperature, humidity, and forecasted power generation of the specific standalone photovoltaic system. The presented results and obtained characteristics confirm the superiority of the proposed techniques in predicting power generation.

1. Introduction

Renewable or nonconventional sources of energy are something that replenishes itself at the speed of its consumption. Some examples of renewable energy are solar, wind, tidal, waves, and geothermal. Renewable energy ventures are being

undertaken in developed as well as The majority of the nonconventional to get electricity, which is more efficient, lute the environment, and is costeffective Among all the nonconventional forms of solar energy is most abundantly found



Hindawi

utnal by MDPI



#### ergy Transition, Utilization and Management to

#### **Message from the Guest Editors**

This Special Issue seeks to contribute to the Sustainable Development Agenda through enhanced scientific and multi-disciplinary knowledge for identifying an efficient, economical and effective approach that also promotes environmental goals as well as social equity. We, therefore, invite papers on novel technical developments, reviews, case studies, and analytical as well as assessment papers from different disciplines, which could potentially hasten the progress in sustainability, especially in the energy sector, transportation sector and industrial sector in the context of sustainable energy. Further considerations of the SDG 7 assessment, strategical analysis and policy implications to support energy sustainability will be substantial.









## List of university's achievements to the SDG



Recent developments in high voltage transmission and Capabilities of GCC Electrical Testing Laboratory



GCC Electrical Testing Laboratory will be a world class Electrical Product Testing and Services Hub in the GCC and MENA region, Independent authority for testing and certificating High-Voltage, Mudium-Voltage and Low-Voltage electrical equipment, Act as a third party for fallwe Investigations and arbitration, provide Low Voltage califaction services for electrical equipment and testing tools and certification courses for engineers and technicians.

Date: 29th March, 2022

Time: 4:30 PM (KSA)

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Registration

المملكة العربية السعودية KINGDOM OF SAUDI ARABIA

DR. VASUDEV NAGARAJU



Contact: Nr. AbdulRahman Almajahed, 219211224@psu.edu.sa Nr. Mohammed Akjhamdi, 219110748@psu.edu.sa Dr. Unashaniar Subramaniam, usubramaniam@psu.edu.sa Dr. Mahajan Sagar Bhaskar, smahajan@psu.edu.sa Dr. Ohafer Almainkies, dalmakkies@psu.edu.sa Emg. Skrakumar Selvam, selvam@psu.edu.sa





February 19 - 22, 2022 - Riyadh, KSA



INTERNATIONAL CONFERENCE ON SUSTAINABILITY DEVELOPMENTS AND INNOVATIONS

9-22 FEBRUARY PRINCE SULTAN UNIVERSITY RIYADH, SAUDI ARABIA



### International Webinar on Role of Battery Energy Storage Systems in Energy Transition From Fossil Fuels to Renewables



PROJECTS, Chennal,

Tamilnadu, India

Power System Is in transition from foxil fuel to renewables for anvironmental and economic reasons. This Transition results in many challenges to power system design and operation. Frequency regulation, Voltage regulation, Generater ramp op / down requirements, fourt, without chapships, Bigdrines of the grid. Protection are few key impacts. There are many former along projects are almed across the world and in such class the intensity challenges is extremely high. Energy storage is the best possible option to resolve the bases and selecting the right type of energy storage is the key. Though they are many sensy storage points available battery energy intense system looks technically feasible and commercially visible at this riage. The unities address the key challenges along with esobion by from Battery Intengy Storage. Session also thrings out few real time casestudy outcome and highlight the simulation requirements at the early mage of the prefers to choose the optimal sizing and configuration of



Promote pledge on 100 per cent renewable energy (4.6%)









Sustainable Development Report 2021-2022 **Decent Work** & Economic Growth



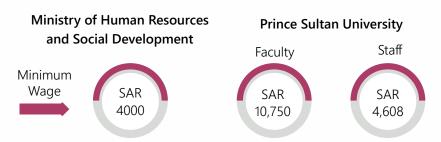
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## **Employment practice qualification**

### **Employment practice living wage**

PSU follows the standard national regulations for staff and faculty living wages and pays them more than the expected minimum living wage defined by The Ministry of Human Resources in Saudi Arabia. Minimum wage (defined by Ministry) in Saudi Arabia is SAR 3000-4000. For employees of lowest rank, the monthly salary is at least SAR 6405, for faculty of lowest rank, the starting monthly salary is at least SAR 10750. This is in 100% compliance with the Saudi local living wage laws.





## Salary Structure of The Faculty Members

Academic Degree	Basic Salary	Transport Allowance	Living Allowance	Specialization Allowance 15% (For Saudis Only)	Social Allowance 15% (For Saudis Only
Professor	17000	600	2550	0	2550
Associate Professor	15000	600	2550	0	2250
Assistant Professor	13000	600	1950	0	1950
Lecturer/ Research Assistant	9000	600	1350	1350	1350
Language Teacher	8000	600	1200	0	0
Instructor/ Research Assistant	7000	600	1050	1050	1050

Salary Structure of Administrative Staff



# Salary slip







### **Employment practice unions**

PSU recognize and participate with the National Committee of Labor Committees in the Kingdom of Saudi Arabia. Which is formed by election among the heads of the existing committees and consider the main and only reference for the labor committees in the establishments, which represent all workers in the Kingdom.

## PSU Signed an Agreement with L20 as part of G20 and SNC

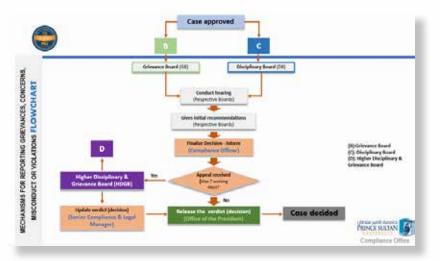






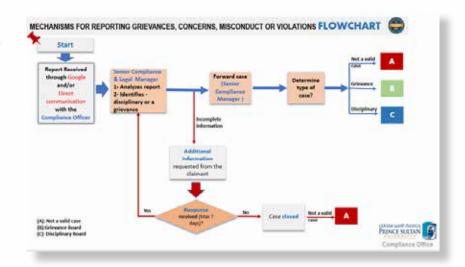
## **Employment policy on discrimination**

PSU is an equal-opportunity institute that strongly prohibits all forms of discrimination based on gender, race, ethnicity, religion, nationality, or disability. I has zero tolerance policy for any kind of discrimination at work. Compliance Office @PSU is established to ensure the institution functions in a legal, professional and ethical manner at every administrative and operational level while meeting its institutional goals and thereby creating and maintaining a healthy and ethical environment for students, faculty, and staff. The PSU stakeholders are committed to uphold and maintain the institutions' reputation to sustain the PSU community and stakeholder's trust.



These issues are followed-up through an e-system either by the Minister or the relevant authorities. PSU has designated one of its employees as a representative who has an access to the Tawasul System and can forward the compliants to the concerned authorities at PSU for immediate action.

"Accessibility, non-discrimination, and Harassment policy".



The faculty, student, and administrative staff are advised to report his/her concerns through an online form about non-compliance with the policies, rules, and regulations at any administrative or operational level; however, the communication is considered confidential irrespective of the outcome of a compliant taking into consideration interest of both parties. In addition to that the Ministry of Education (MoE) has launched an e-service TAWASUL Yesser, which is designed to build communication channels with citizens (including parents, students, faculty, staff) on all issues relating to the education process, including proposals, inquiries, and beneficiaries' compliants.

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## **Employment policy modern slavery**

PSU upholds a zero tolerance policy towards modern slavery in all its guises: human trafficking, forced labor, bonded labor and child labor in line with the guiding principle set out by the United Nations, and the workplace regulations established by The Ministry of Human Resources and Social Development. Our policy and practice protects against any violation of human rights and protects the dignity of the individual.

### **Employment practice equivalent rights**

	Prince Sultan Unive Policy Managemen	
	Policy against modern slavery, forced labor,	CONTRACTOR CONTRACTOR CONTRACTOR
Policy Code:	GV0009	
Policy Name:	Policy against modern slavery, forced labor, I	numan trafficking, and child lateor
Handler:	Muman resources	
Date Created	15 July 2020	
Date of Current Review:	15 August 3020	
Approved by:	University Council	
Date of Approval:	02/09/2020	

Prince Sultan University committed when contracting with third parties that they adhered to Saudi labor rules and regulations and that they provided all rights to their employees. In addition, Articles, 113-114, pp- 32 PSU's Personnel Governing and Regulations booklet (2013). The university makes sure that all employees (faculty and staff) understand the outsourcing work rights, rules and regulations.

# Employment policy pay scale equity outsourcing

The Gender Equality Policy of Prince Sultan University ensures that equal compensation is paid fro eqaul workl to both gendres (male & female). The university human resources department actively ensures equal pay for both genders in faculty and staff.

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Policy Code: Policy Name: Handler: Date Created: Date of Current Review:

Approved by: Date of Approval:



# **Employment policy pay scale equity**

The Gender Equality Policy of Prince Sultan University ensures that equal compensation is paid fro eqaul workl to both gendres (male & female). The university human resources department actively ensures equal pay for both genders in faculty and staff.

	Prince Sultan University PS Policy Management Syste Gender Equality Policy	
	GV0008	
	Gender Equality Policy	
	The President Office	Faculty Governing
	15 July 2020	
iew:	15 August 2020	Policies and Regulations 2019-2020
	University Council	
	02/09/2020	
Chapt	er Five: Salaries, Allowances, and Bonuses	and the second s
Acticle ()	B): Selary structure attached hereits shall apply to the Saudi and non-Saudi faculty members who work on full time basis.	
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## Tracking pay scale for gender equity

PSU ensures and tracks pay scale for gender equity. Compliance office at PSU regularly conducts audits of salaries to ensure equity of pay between two genders.

Policy Management System Overder Equality Policy			
Policy Code:	GV0005		
Policy Name:	Gender Equality Policy		
Handler:	The President Office		
Date Created:	16 July 2020		
Date of Current Review:	15 August 2020		
Approved by:	University Council		
Date of Approval:	020260200		

## Our Vision

In alignment with Prince Sultan University Vision, the Compliance and Legal Office focuses on ensuring adherence to applicable rules and regulations, and policies while maximizing available resources to support the university goal of providing excellent education, research and community service in a healthy and ethical environment.

Our Mission Our Mission is to ensure that policies and procedures are established and implemented, to assist with the application and enhancement of internal checks, and to establish an ethical work environment to contribute to the pursuit of the University's mission.

# Our Values

In alignment with the core values of the University, the compliance officer and the compliance committee are led by the following values:

- Integrity: Honesty and integrity are shown in our work in our interaction with the University staff
- Accountability: In our action, we will show that accountability is essential for the institution to get people to assume ownership of their actions and to bear consequences for their wrongdoing.
- **Fairness:** Faculty, students, and staff can raise their issues concerns with a strong belief that their cases will be dealt with professionally and diligently
- Objectivity: We will use our action objective methods to verify the complaints without being influenced in recommending our decision.
- **Consistency:** We will be acting in our hearings according to the policies.
- **Knowledge:** we try to stay always informed and aware of the major issues raised to improve the performance of the University Management, faculty students, and staff.

## Our Goals

- Planning
- Management and Administration
- Professional Performance and Development
- Quality Assurance and Development

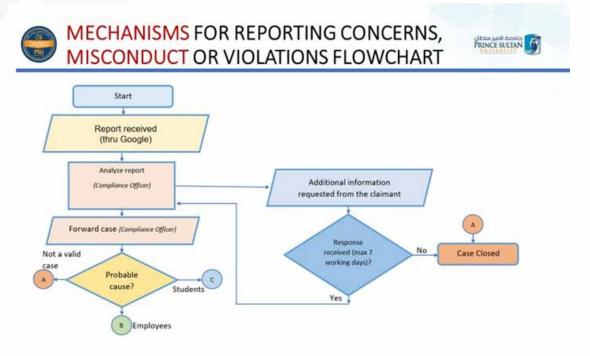




### **Employment practice appeal process**

Prince Sultan University has established a clear mechanism and process for employees to appeal on their pay or any other right (Compliance office).

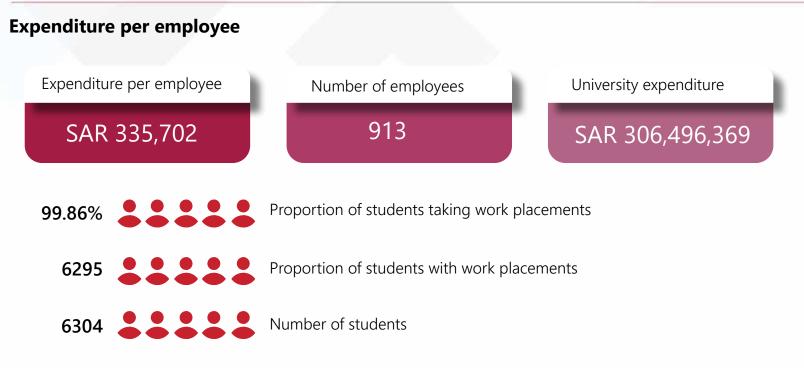
All employees at Prince Sultan University access the right to a workplace free of harassment and discrimination. PSU first and foremost attempts to ensure such a workplace, while simultaneously acknowledging that certain cases are unavoidable. As such, PSU offers its employees a comprehensive set of policies and procedures that offer mechanisms for employees to raise grievances, including for pay through the channels leading all the way up to the president of the university.



Prince Sultan University – Compliance Office encourages its internal (faculty members, staff, and students) and external (parents, alumni, and employers) stakeholders to report concerns, misbehavior or abuses of the PSU's Code of Ethics and/or other related policies.

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Students work placement includes Coop, Internship, Apprentisship and this is an integral part of their degree program. In addition, we have Deloitte Apprenticeship Program which is over and above the 4-7 months of work placement.

### Proportion of employees on secure contracts







Sustainable Development Report 2021-2022 Industry, Innovation & Infrastructure





### Industry, Innovation and Infrastructure

### **Conferences and Symposia**

PSU organizes a number of conferences and symposia on a yearly basis which enhances collaboration and innovation.



# \*C2C





CONNECTING TALENT WITH OPPORTUNITY



The 2022 conference focusing on the State of the Art and Practice in different sustainable development goals, join researchers, practitioners, students, and contractors from around the globe. As one of the promising and trending Engineering disciplines, this field is still changing rapidly. Come hear the latest and network with the leaders of our profession, and meet the decision-makers.

Along with the diversity of presentations on challenging projects and research, ICSDI 2022 will feature multiple invited speakers on selected topics. The conference will include a wide-range of knowledgeenhancing technical and panel sessions, short courses, and workshops. Join us in Riyadh to share in this celebration of Prince Sultan University (PSU) accomplishments towards SDG's 2030.











7th International Conference on Data Science and Machine Learning Applications Artificial Intelligence Meets Saudi Vision 2030

March 1-3, 2022. Riyadh, Saudi Arabia











200m





### SMARTTECH2022

### THE SECOND INTERNATIONAL CONFERENCE OF SMART SYSTEMS & EMERGING TECHNOLOGIES



22-24 MAY 2022 PRINCE SULTAN UNIVERSITY RIYADH, SAUDI ARABIA

**KEYNOTE SPEAKERS** 

### TRACKS

- 1 Artificial Intelligence
- 2 Internet-of-Things
- 3 Emerging Technologies
- 4 Unmanned Systems
- 5 Communication & Networking

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### **GENERAL CHAIRS**

6 Cyber-Security

- 1 Anis Koubaa, Prince Sultan University, Saudi Arabia
- 2 Ahmad Taher Azar, Prince Sultan University, Saudi Arabia
- 3 Eric Feron, King Abdullah University of Science & Technology, Saudi Arabia

### **PROGRAM CHAIRS**

- I Mohamed Abdelkader, Prince Sultan University, Saudi Arabia
- 2 Wadi Boulila, Prince Sultan University, Saudi Arabia
- 3 Adel Ammar, Prince Sultan University, Saudi Arabia
- 4 Muhamad Felemban, King Fahd University of Petroleum & Minerals, Saudi Arabia

### IMPORTANT DATES

Paper Submission: October 31, 2027

Notification of Acceptance: December 31, 2021

Camera-mady Papers: January 31, 2022

Registration: February 28, 2022

Conference Dates: May 22-24, 2022

### LINKS

Conference Website http://immanch.notu-lat.org/ Submission via EasyChair https://kosychoi.org/http://onference?conf-amortsech22



SUBMIT YOUR PAPER HERE



# \*CSC









### Patents

PSU welcomes and supports new innovations and patents. Currently, 8 patents have been submitted by PSU. Four of these patents have been granted and registered under PSU.

			US011101742B2
(19) United States	US 20210265919A1	(12) United States Patent Vavilpalli et al.	(10) Patent No.: US 11,101,742 B2 (45) Date of Patent: Aug. 24, 2021
(12) Patent Application Pu BHASKAR et al.	blication (10) Pub. No.: US 2021/0265919 (43) Pub. Date: Aug. 26, 20	(54) BUCK-CHOPPER AND BI-DIRECTIONAL CHOPPER FOR MULTILEVEL CASCADED H-BRIDGE INVERTERS	(56) References Cited U.S. PATENT DOCUMENTS
		(71) Applicant: Prince Sultan University, Riyadh (SA)	2010/0236612 A1 9/2010 Khajehoddin et al. 2010/0327659 A1 12/2010 Lisi et al.
(54) MICROGRID POWER SUPPLY SYST DC-DC CONVERTER AND CONTROL METHOD		(72) Inventors: Sridhar Vavilpalli, Riyadh (SA); Umashankar Subramaniam, Riyadh (SA); Dhafer Jaber Almakhles, Riyadh	(Continued) OTHER PUBLICATIONS
(71) Applicant: Prince Sultan University, Riy	CPC H02M 7/483 (2013.01); H02J	(SA) (73) Assignce: Prince Sultan University, Riyadh (SA)	Vavilapalli et al., A Buck-Chopper Based Energy Storage System for the Cascaded II-Bridge Inverters in PV Applications, 2017, pp 534-541 (Year: 2017).*
(72) Inventors: Mahajan Sagar BHASKAR, (SA): Dhafer J. ALMAKHLJ Riyadh (SA): Umashankar SUBRAMANIAM, Riyadh (S	kiyadh 1/36 (2013.01); G66F 1/263 (201 S, (57) ABSTRACT	<ul> <li>(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 57 days.</li> <li>(21) Appl. No.: 16733,422</li> </ul>	(Continued) Primary Examiner — Rexford N Barnie Assistant Examiner — Elim Ortiz (74) Attorney, Agent, or Firm — Oblon, McClelland, Maire R. Neustad, L. L. P.
SUBRAMANIAMA, Riyadh (S) Sanjeevikamar PADMANAB Riyadh (SA); Sakthivel RATHINASAMY, Riyadh (S/	N. A DC-DC voltage converter includes an input circl parallel linked leg (PLL), an output circuit and a contr The PLL includes an active leg switch, a leg inductor.	(22) Filed: Jan. 3, 2020 (65) Prior Publication Data US 2021/0211066 A1 Jul. 8, 2021	(57) ABSTRACT A cascaded H-bridge (CHB) inverter for higher rated power conditioning systems which operates at mediam voltages
(73) Assignce: Prince Sultan University, Riy	capacitor and a leg diode. The controller is configured	(51) Int. CL. <i>H02M</i> 7/5387 (2007.01) <i>H02J</i> 700 (2006.01)	while providing high power quality and low dvidt. By incorporating buttery energy storage, the power conditioning system operates at night to provide power to a load or grid and stabilizes the system during sudden changes in climatic
<ul> <li>(21) Appl. No.: 16/798,532</li> <li>(22) Filed: Feb. 24, 2020</li> </ul>	switch and the active leg switches, and turn on the a output switch for a second duty cycle period followin	(Continued) (52) U.S. Cl. CPC	conditions. Various energy storage system (ESS) configura- tions such as AC side coupled ESS, dual active bridge based ESS, and chopper based ESS configurations for cascaded
	first duty cycle period, and iii) turn off the active of	(2013.01); H02J 7.0048 (2020.01);	<ul> <li>H-bridge inverters are described. A comparison of these configurations on the basis of cost, control complexity;</li> </ul>
Publication Classification           (51)         Int. CL           H02M 7/483         (2006.01)           H02J 1/10         (2006.01)	switch while maintaining also turn off states of the a input witch and the active large witches for a remai period following the second daty cycle period. A meth controlling the DC-DC converter includes steps of i) it	(Continued) (58) Field of Classification Search CPC — 16648 1/3423, 16648 1/0025; 16668 1/002; 16668 1/06; 10205; 16668 1/002; 16668 1/06; 10205 1/0628, 16668 1/002; 16668 1/06; 10205 1/0628, 16668 1/002; 160205 1/0628 1/0628 1/0628 1/002 1/0628 1	controller hardware requirements was performed and the advantages of chopper based configurations over other ESS configurations was demonstrated. A control algorithm for the chopper based configurations was developed to operate the system in standalone and grid-connected modes of operation. 14 Claims, 35 Drawing Sheets

	US	01114	017421	82		

(54)		RID POWER SUPPLY SYSTEM ONVERTER AND CONTROLLING )
(71)	Applicant:	Prince Sultan University, Riyadh (SA)
(72)	laventors:	Mahajan Sugar Bhaskar, Riyadh (SA), Dhafer J. Ahmakhles, Riyadh (SA), Umashankar Subteamanisan, Riyadh (SA); Sanjeevikannar Padmanahan, Riyadh (SA); Sakthivel Rathinasamy, Coimboore (IN)
(73)	Assignce:	Prince Sultan University, Riyadh (SA)
(*)	Notice:	Subject to any disclaimer, the term of this potent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
(21)	Appl. No.	16/798,532
(22)	Filed:	Feb. 24, 2020
(65)		Prior Publication Data
	US 2021/0	265919 A1 Aug. 26, 2021
(51)	Int. Cl. 1102M 3/1 1102M 3/4 1102J 1/00 1102J 5/00 1102M 1/0	7 (2006.01) (2006.01) (2016.01)

(12) United States Patent

Bhaskar et al.

(52) U.S. CL CPC H02M 3/158 (2013.01); H02M 3/07 (2013.01); H02J 1/00 (2013.01); H02J 5/00 (2013.01); H02M J/0095 (2021.05) (58) Field of Classification Search CPC ....... H023 1/00; H02M 1/00; H02M 1/0095; H02M 3/01; H022M 3/015; H022M

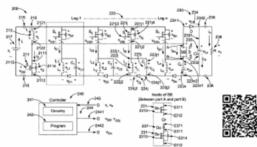
3/07-078; H02M 3/155-1588 See application file for complete search history.

	(45) Date of Patent: Jan. 25, 2022
0	56) References Cited
	U.S. PATENT DOCUMENTS
	5,146,305 A * 9/1992 McKie
	363/13 5,313,382 A * 5/1994 Parriagton B02M 3/198
	9,917,517 B1* 3/2018 Jang
	OTHER PUBLICATIONS
600 F () N	none Cheriyan, et al., "A Classed loop high pain DC-DC convention et obertie drive applications", 2018 International Centennous on anton, Prover, Communication and Cempering Technologies (CCPCT), 2018, pp. 40-44. (Continued) Vistary Examiner — Fried E Flach, III 49, damoner, agenet, or Fran — Oblon, McChelland, faire & Neustahl, L.L.P.
- 0	57) ABSTRACT
PICHNEROE	DC-DC voltage converter includes an input circuit, a molifiel likely leg IL1, an output circuit and a controller, he PLL includes on active leg switch, a leg inductor, a leg specifice and a leg diode. The cortexiller is configured to i) are not the active input twish and the active legs witches hild maintaining the active output switch at turn off state of the first days cycle period i) turn off the active legs witch and the active legs whiches, and turn of active legs which and the active legs whiches, and arou the active which and the active legs whiches, and arou the active which and specified active legs whiches, and arou the active which such assisting also turn off states of the active compu- tion.

(10) Patent No.: US 11,233,452 B2

controlling the DC-DC converter includes steps of i) to iii). 19 Claims, 26 Drawing Sheets

input switch and the active key switches for a remaining period following the second duty cycle period. A method of



# \*C2C



(43) Pub. Date:

(57)

### 

### (19) United States

(22) Filed: Feb. 13, 2020

20, 2019

(51) Int. CL. G&IC 21/28

13921 29.99

10441. 29/12

G88G 5:08 G88G 5:03

8640 19/82

GASD 144 GASD 1/14

Related U.S. Application Data

(60) Provisional application No. 62/903.277, filed on Sep.

Publication Classification

(2005.01

(2006-01)

2006.01

(2005.01

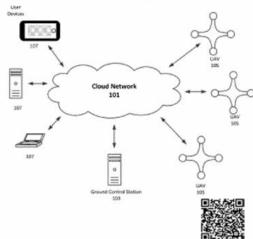
(2005.01

(2005.01

(2006.01) (2006.01)

### (12) Patent Application Publication (10) Pub. No.: US 2021/0088337 A1 KOUBAA (4) Pub. Date: Mar. 25, 2021 (54) SYSTEM AND METHOD FOR SERVICE 327 U.S. CL GRIC 21/28 (2013.01); IB4L 6778 ORIENTED CLOUD BASED MANAGEMENT CIX Colic 2728 (2013.01); 1844, 4779 (2013.01); 1844, 4772 (2013.01); 1844, 642007 (2013.01); 1844, 67306 (2013.01); G06G 50069 (2013.01); 1844, 47709 (2013.01); 1844, 283024 (2013.01); G05D OF INTERNET OF DRONES (71) Applicant: Prince Sultan University, Risalh (SA) (72) Inventor: Ania KOUBAA, Riverh (SA) 1/00/22 (2013/01): GRID 1/1064 (2010/05): 864C 2201-027 (2015.01); 864C 2201/126 (2013.01); 864C 2201/146 (2013.01); 604G 56445 (2013.01) (75) Assignce: Prince Sultan University, Rivalli (SA) (21) Appl. No.: 16/790,233 (37) ABSTRACT

A human protocol-based anguated perial vehicle (UAV) A lineared protocol-based suggasted ordered vehicle (UNN) management system and methods in disalised that includes UAN's fieldwift a communicative site, a new comprise, a visual-based swireling a plantify of pro-planted missions, sourceding communication between the UAN and the user comprise, suppling the UAN in the visital UAN, suppling a visitor to a inductive motion. minimis to actuate multiple warycome, and allocating the task at the multiple warycome, and allocating the task at the multiple warycomes. Dynamic mission planning of the assigned minimis is performed to generate planned paths for performing the task. Operation of the UAV is controlled by way of the corresponding virtual UAV including receiv-ing messages and commands for the mission from the user computer, sending control commands to the UAV, receiving data signois from the UAV, and transmitting knotion and status of performance of the task for the UAN. The cloud-based service performs image processing using the received date signals.



- (12) United States Patent Koubaa et al. (54) SYSTEM, APPARATUS, AND METHOD FOR CONTROLLING UNMANNED AERIAL CN VEHICLES FOR SEARCH AND RESCUE (71) Applicant: Prince Sultan University, Riyadh (SA)
- (72) Inventors: Anis Koubaa, Riyudh (SA); Ebtehal
- Turki Alotaibi, Riyadh (SA); Shahad Saleh Algefari, Riyadh (SA) 2004).5 (73) Assignce: Prince Sultan University, Riyadh (SA)
- (\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 289 days. (21) Appl. No.: 16/740,042
- (22) Filed: Jan. 10, 2020
- **Prior Publication Data** (65)
- US 2021/0216069 A1 Jul. 15, 2021
- (51) Int. CL G85D 1/88 (2006.01) H04L 67/10 (2022.01)
- (Continued) (52) U.S. CL

G85D 1/8027 (2013.01); B64C 39/924 CPC .... (2013.01); G05D 1/104 (2013.01); H04L 67/10 (2013.01); H04W 4/90 (2018.02); B64C 2201/027 (2013.01); B64C 2201/126 (2013.01); B64C 2201/143 (2013.01)

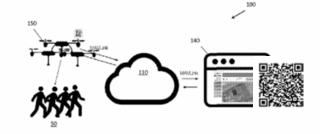
(58) Field of Classification Search . 701/20, 3, 50, 101; 340/902 See application file for complete search history.

### References Cited

(56)

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(Continued)



	334065B2	
		(19)
(10) Patent No.:	US 11.334.065 B2	(12)

(45)	Date of Patent	: May 17, 2022		A
	FOREIGN PATEN	T DOCUMENTS	(54)	B
N	107943067 A	4/2018		P
			(71)	Δ

- OTHER PUBLICATIONS Sujit, P. B., & Ghose, D. (2004). Search using multiple UAVs with
- fight time constraints. IEEE Transactions on Aerospace and Electronic System, 40(2), 491-509. doi: 10.1109/taex.2004.1310000 (Year

(Continued) Primary Examiner --- Elgine Gort

Assistant Examiner - Ellis B. Ramirez (74) Attorney, Agent, or Firm --- Oblon, McClelland, Maior & Noustach, L.L.P.

### ABSTRACT

(57)

A system, method, and non-transitory computer-readable storage medium to perform a search and rescue mission according to a Layered Search and Rescue (LSAR) methedebogy using a plurality of Unmanned Aerial Vehicles (UAVs) communicatively connected to a remote server. The LSAR methodology can involve receiving data corresponding to a center of an area corresponding to an adverse disaster event potentially having survivors at unknown locations; dividing the area into a set of numbered box-shaped layers within the area; calculating a thickness of the boxshaped layers based on a total number of the Unmanned Aerial Vehicles; exclusively assigning one or more of the Unmanned Aerial Vehicles to each box-shaped layer; and controlling the Unmanned Aerial Vehicles to perform the search and rescue mission by selectively switching one or more of the Unmanned Aerial Vehicles between a searcher mode and a rescuer mode.

### 20 Claims, 10 Drawing Sheets

United States Patent Application Publication (10) Pub. No.: US 2021/0209956 A1 Allouche et al. May 17, 2022

- BLOCKCHAIN-BASED SOLUTION FOR INTERNET OF DRONES SECURITY AND PRIVACY
- Applicant: Prince Sultan University, Riyadh (SA) (72) Inventors: Azza Allouche, Rivada (SA): Anis Koubaa, Riyadh (SA); Mohamed
- Khelgui, Riyadh (SA); Omer Cheikhrouhou, Riyadh (SA)
- (73) Assignce: Prince Sultan University, Riyadh (SA) (21) Appl. No.: 16/733,451
- (22) Filed: Jan. 3, 2020

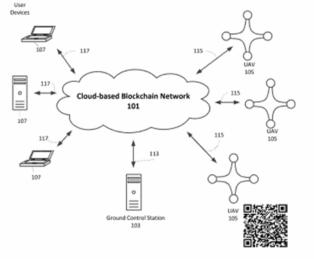
	Publica	tion Classification
(51)	Int. Cl.	
	G88G 5/80	(2006.01)
	H04L 29.06	(2006.01)
	H04L 29/08	(2006.01)
	G85D 1/80	(2006.01)
	B64C 39/92	(2006.01)
	Ch6F 16/23	(2006.01)

### (52) U.S. CL LANDII (2013.01); H04L 67/02 (2013.01); G08G 5/0069 (2013.01); G08G 5/0013 (2013.01); GMSF 16/2379 (2019.01); B640 39/024 (2013.01)

Jul. 8, 2021

### ABSTRACT

A secure system for control of at least one unmanned aerial vehicle (UAV), includes a cloud service and a ground control station. The cloud service includes a cloud-based management service having processing circuitry configured to control communications between the cloud service, the ground control station and the at least one UAV, and control and monitor the at least one UAV by way of a corresponding at least one UAV client device. The UAV client device receives messages from the at least one UAV, sends com-mands to the at least one UAV, verifies the sender of each of the received messages, creates a new block for each received message and sent commands as new transactions, including performs a consensus algorithm for the new block, deter mines a consensus to validate the new block, and updates a blockchain with the validated new block.







(10) International Publication Number

WO 2017/145119 A1

AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY,

BZ. CA. CH. CL. CN. CO. CR. CU. CZ. DE. DJ. DK. DM.

DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KH, KN,

KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG,

NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY,

TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN

kind of regional protection anallatile): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ,

TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE,

DK. EE. ES. FL FR. GB. GR. HR. HU. IE. IS. IT. LT. LU.

LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK,

SM, TRI, OAPI (BF, BJ, CF, CG, CL, CM, GA, GN, GO,

GW, KM, ML, MR, NE, SN, TD, TG).

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(10) Patent No.: US 11,102,698 B2

### (12) United States Patent Tounsi

- (54) TABU NODE SELECTION WITH MINIMUM SPANNING TREE FOR WSNS
- (71) Applicant: Prince Sultan University, Riyadh (SA)
- (72) Inventor: Mohamed Toursi, Riyadh (SA)
- (73) Assignce: Prince Sultan University, Riyadh (SA) (\*) Notice: Subject to any disclaimer, the term of this
- ent is extended or adjusted under 35 U.S.C. 154(b) by 46 days.
- (21) Appl. No.: 16/729,893
- (22) Filed: Dec. 30, 2019
- **Prior Publication Data** (65) US 2021/0204190 A1 Jul 1 2021
- (51) Int. CL 1104W 40/10 1104W 84/18 (2009.01) (2009.01) H0JW 10/24 (2009.01)
- H04L 12/721 (2013.01 H04W 4/38 (2018.01) (Continued)
- (52) U.S. CL HRAW 40/18 (2013-01): HRAL 45/127 (2013.01); H84L 45/48 (2013.01); H94W 4/38 (2018.02): HOAW 40/246 (2013.01): HOAW 48/28 (2013.01); H04W 84/18 (2013.01)
- (58) Field of Classification Search CPC ..... H04W 40/00-10; H04W 40/24-32; H04W
- 4/30-48; H04W 84/18-22; H04W 52/04; H04W 52/06; H04W 52/18; H04W 52/38; H04L 12/462; H04L 45/00;

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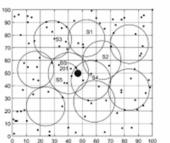


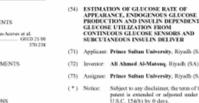
Sensor Networks", Telecommunications Networks--- Current Status and Fature Trends, www.intechopen.com, Chapter 7, 2012, pp. 153-180 (Continued)

Primary Examiner - Warner Wong (74) Attorney: Agent, or Firm - Obion, McClelland, Maier & Neustadt, L.L.P. (57) ABSTRACT

A wireless sensor network node selection that efficiently manages active nodes using a Tabu heuristic coupled with minimum spanning tree routing protocol (TNS-MST) is presented. Nodal energy consumption is balanced to ensure all nodes are operating at the same energy level. To balance the energy consumption, nodes with high energy depletion are removed from routing by placing on them a Tabu list, which prevents the most used nodes, such as nodes close to a bose station, from draining before their neighbors. The nodes in the Tabu lists are dynamically active according to the energy level of neighboring nodes. The Tabu list com-bined with Minimum Spanning Trae routing protocol, TNS-MST, greatly increases network lifetime by optimally balancing the energy of the sensor nodes.

### 18 Claims, 21 Drawing Sheets









**United States Patent** 

Al-Matouq

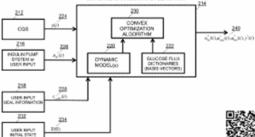
(51)	Int. CL	
	G16H 58/59	(2018.01)
	A61B 5/00	(2006.01)
	A61B 5/145	(2006.01)
	A61M 5/172	(2006.01)
(52)	U.S. CL	

- G16H 50/50 (2018.01): A61R 5/14532 CPC (2013.01); A61B 5/4839 (2013.01); A61B 5/0002 (2013.01); A61B 5/7271 (2013.01); A61M 5/1723 (2013.01); A61M 2205/52 (2013.01)
- (58) Field of Classification Search CPC .. G16H 50/50: A61B 5/14532: A61B 5/4839; A61B 5/0002; A61B 5/7271; A61M 5/1723; A61M 2205/52
- UNPC . 340/573.1: 604/506: 600/365 See application file for complete search history.



(56)

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## (10) Patent No.: US 10,297,353 B1

(45) Date of Patent: May 21, 2019 References Cited U.S. PATENT DOCUMENTS 2009/0006133 A1\* 1/2009 Weinert ...... A61B 5/14532

2009/0054753 AL*	2/2009	Robinson A61B 5/14503
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2015/0359966 AL*	12/2015	604/504 Dey
2016/0354543 AL*	12/2016	604506 Cinor
* cited by examiner		

Primary Examiner - Jack K Wang

(74) Awarney; Agent, or Firm — Steven M. Shape; Demeneyer & Associates, LLC

### ABSTRACT

Method and system for determining glucose flux profiles in phasma during meals using continuous glucose sensors and insulin delivery. A database of plausible glucose flux profiles is encoded in dictionaries using sparse dictionary learning. A constrained Lasso minimization problem is formed that integrates a transport model for a patient with the dictionaries for estimating the glucose fluxes. Meal carbohydrates consumed by a potient is incorporated in the minimization problem through convex constraints. The estimated glucose fluxes resulting from solving the constrained Lasso minimi-ration problem are glucose rate of appearance from the intestine, endogenous glacose production from the liver and insulin dependent glacose utilization. A method for determining patient carbohydrate to insulia ratio at the time of the meel by calculating the area under the curve of the estimated insulin dependent glucose utilization

16 Claims, 7 Drawing Sheets



(19) World Intellectual Property

Organization

International Bureau

(43) International Publication Date

31 August 2017 (31.08.2017) WIPO | PCT

### English (\$4) Designated States (unless otherwise indicated, for every (30) Priority Data: 62/300,426 26 February 2016 (26.02.2016)

- 62/300,438 26 February 2016 (26.02.2016) U8 (71) Applicants: KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY [SA/SA]: 4700 King Abdullah University of Science and Technology, Thuwal 23955-6900 (SA). PRINCE SULTAN UNIVERSITY [SA/SA]; Mansur Ibn Muhammad, Salah Ad Din, Riyadh
- Declarations under Rule 4.17: 12435 (SA). as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(0)) (72) Inventors: LALEG, Taous Meriem; 4700 King Abdullah University of Science and Technology, Thraval 23955-6500 (SA). AL-MATOUQ, All Ahmed; Mansur Bu Published:
  - Muhammad, Salah Ad Din, Riyadh 12435 (SA). with international nearch report (Art. 21(3)) (81) Designated States (unless otherwise indicated, for every
  - kind of national prosection available): AE, AG, AL, AM,

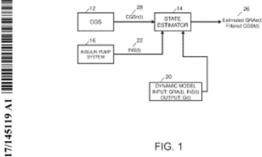
(54) TIME ESTIMATION OF GLUCOSE RATE OF APPEARANCE FROM CGS AND SUBCUTANEOUS INSULIN DELIV-ERY IN TYPE 1 DIABETES

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

English

US

ZA, ZM, ZW,



(57) Abstract: Method and System for providing estimates of Glucose Rate of Appearance from the intestine (GRA) using continu ors glucose sensor measurements (CGS) taken from the subcutaneous of a diabetes patient and the amount of insulin administered to the periett.

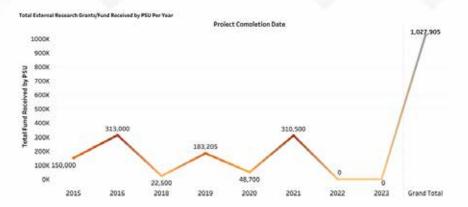
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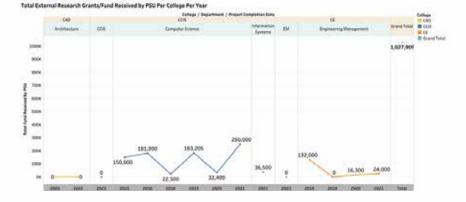




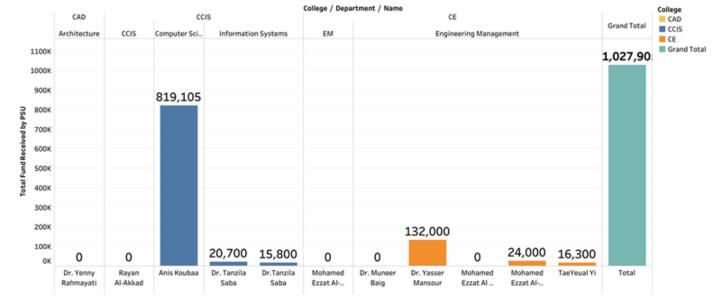
## **External grants**

PSU faculty were able to secure external grants from academia and industry.





Total External Research Grants/Fund Received by PSU Per Faculty Member



\delta 80





### Innovation

/		Ibe PRIN	KE SULTAN			
J	برنامج تسريع وإطلاق الشركات الناشنة س جامعة الأمر ساحان بالنقون مع حاضة اللسل H-B					
www.ptethologit	السديل ك	PSUPIDenvo.com	taga ng tising ginata n 🔁 osorozono 🖸 n			

RIC launched the business incubator program. A memorandum of understanding was signed with i-be Business Hub in September to encourage entrepreneurship among students. Two startups are enrolled in the program.

Source: 2021 RIC report

## **Collaboration with industry**

Trimble Signs MOU with Prince Sultan University (Oct. 2021)

### Trimble Signs MOU with Prince Sultan University



Prince Suttan University (PSU) in Hylath, Saudi Arabia, and Timble Inc. (MASDAG: TRMB) have recently signed a memorandum of understanding (MOU). The purpose of this MOU is to set forth increased collaboration and cooperation between the College of Engineering at PSU and Trimble to educate the students with advanced 3D BM Tekla Solutions used in the construction world.

### VMware MoU Ceremony



### Signing of a cooperation agreement between Prince Sultan Schneider Electric University

September 28,2021







Sustainable Development Report 2021-2022 **Reduced** Inequalities





### **Research Policy**

PRINCE SULTAN UNIVERSITY PSU POLICY MANAGEMENT SYSTEM RESEARCH POLICY

Policy Code:	R50001	
Policy Name:	Research Policy	
Handler:	The Research and Initiatives Center	
Date Created:	15 August 2020	
Date of Current Review:	15 August 2020	
Approved by:	University Council	
Date of Approval:		

### **Research and Initiatives**



Establish an effective research infrastructure

• To expand research facilities and resources

## GOAL 2

Provide professional development opportunities for academic and administrative leaders

- To enhance the quality, quantity and impact of research
- To strengthen research collaboration nationally and internationally
- To promote the involvement of undergraduate and postgraduate students in research
- To publish and maintain PSU Research Review

GOAL 3

Contribute to the socioeconomic development of the Kingdom of Saudi Arabia through research and Innovation

- To contribute to the Saudi Arabia Vision 2030 through PSU research activities
- To attract funding opportunities that support innovative ideas and research

\*C2C



### **Events**



-Handcraft (Modelling- sculpture -Painting - Drawing sketches) -Reading some newspapers and international magazines, listening to some spiritual talks. -Recreational activities, as using of colors and paintings to develop their understanding of spaces and relationships. The United Nations Global Compact Network - Saudi Arabia, and Saudi Arabia's Prince Sultan University (PSU), signed a memorandum of understanding to form a strategic partnership to advance the UN's 2030 Agenda





**(e)** 83



جامعة الامير سلطان PRINCE SULTAN %C2C

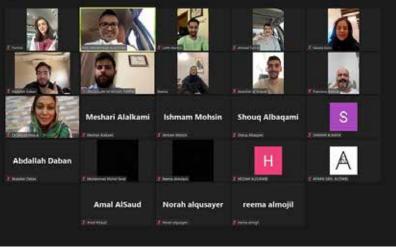






## More than 100 Students Joined Prince Sultan University SDG Club to Take Part of Impactful Initiatives











Sustainable Development Report 2021-2022 Sustainable Cities & Communities





### Sustainable cities

### Support of arts and heritage

To promote and support Arabic language PSU organizes an award for translating books on a yearly basis. Faculty from all Saudi universities can participate. A similar award is also announced for students.



# جائزة جامعة الأمير سلطان للترجمة

لأعضاء هيئة التدريس للعام الأكاديمي 2021-2022

PRINCE SULTAN UNIVERSITY TRANSLATION AWARD

for Faculty Members for the Academic Year 2021 - 2022

- . The applicant should be faculty member at one of 301 King day, and a solar of a الجامعات السعودية من حملة درجة الدكتوراء غبر، بعنه المراجعة المعادية من حملة درجة الدكتوراء غبر Ref.d. اية محال
- . The applicant should not have received a previous grant or award for the work applied for, and provide proof of that
- has not been published and does not have prior copyrights. The university may publish the book scrording to the recommandations of the opinions of the referens and committee members.
- الا يكون المقلدم قد دهل على منحة او جازة سابقة عن الممل المتقدم به وتقديم ما يثبت ذلك • It is permissible to submit a translated book that بجوز التقدم بكتاب مترجم لم يتم نشرف وليس عليه • It is حقوف نشر مسيقة ورمكن للجامعة نشر الكتاب حسب توميات اراء المحكمين واعماء اللجنة

كاللاع نذب كاشة البلازة المهمومة عند عوكم الزائعة كالقرودي For plane efformation photol the second, please utait the link

### https://www.psu.edu.sa/ar/TAC-award

For more information about the application requirements and to fill out the application form please visit the following link



للاطلاع علم شروط للقدرم وتعبنة استعارة دلب التقديم يرجده زيسارة الرابسط الثالى

### Saudi National Day celebrations:

PSU celebrates the Saudi National Day



ملحق خاص عن اليوم الوطنيي (10 -16)



Source: Taif issue 251

# \*CSC



### **Poetry competition**

PSU organized a poetry competition on the occasion of the Saudi national day



### **Culture preservation**

To promote the preservation of Saudi culture, the public relations center organized a lecture by the director of culture preservation.







### Sustainable practices

Promote sustainable commuting:

PSU provides bus shuttles from and to faculty housing.



### Planning development - new build standards

Green building forum



# \*csc



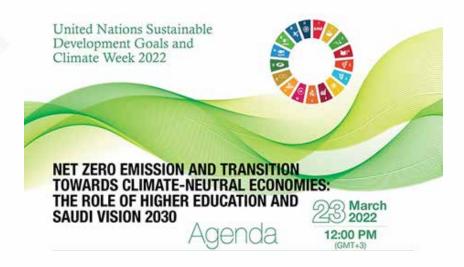
### Planning development - new build standards

News article: The College of Architecture and Design at Prince Sultan University has a sharp focus on national and global sustainability goals, with students and researchers embedding this in their work from inception to creation.



**Climate week:** Net Zero Emission and Transition Towards Climate-Neutral Economies: The Role of Higher Education and Saudi Vision 2030





Visiting the Exhibition of Projects of Distinguished Cities During the Reign of the Custodian of the two Holy Mosques King Salman bin Abdul Aziz 2022







Sustainable Development Report 2021-2022 **Responsible Consumption & Production** 





# Policy Management System - Sustainable Ethical Food Sourcing Policy

Prince Sultan University PSU

Policy Management System Sustainable Ethical Food Sourcing Policy				
Policy Code:	GV0015			
Policy Name:	Sustainable Ethical Food Sourcing Policy			
Handler:	PSU Catering Services Unit			
Date Created:	15 July 2020			
Date of Current Review:	15 August 2020			
Approved by:	University Council			
Date of Approval:	02/09/2020			

Prince Sultan University is the First Saudi University to Pledge Net Zero Carbon University by 2060Food Sourcing Policy



**Race To Zero** is a global campaign to rally leadership and support from businesses, cities, regions, investors for a healthy, resilient, zero carbon recovery that prevents future threats, creates decent jobs, and unlocks inclusive, sustainable growth.



# \*CSC



PepsiCo's Food for Thought in Partnership with Prince Sultan UniversityPrince Sultan UniversityFood Sourcing Policy

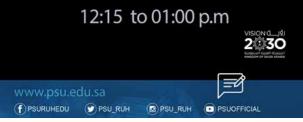


**Contemporary Issues in Architecture** 

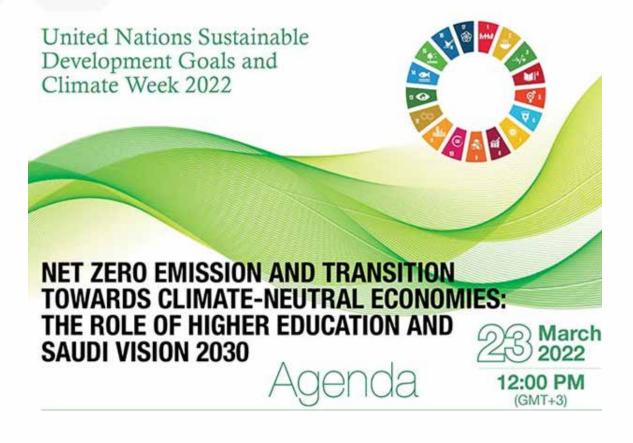
# Professor James Steele

The College of Architecture and Design is pleased to welcome distinguished speaker, Professor James Steele, to deliver a public presentation on Architecture

Tuesday, 27<sup>th</sup> September, 2022 Building 105 auditorium Ground floor.



Net Zero Emission and Transition Towards Climate-Neutral Economies: The Role of Higher Education and Saudi Vision 2030 Event







PepsiCo partners with Prince Sultan University to educate youth on sustainability

# Prince Sultan University and PE CO Memorandum of Understanding



International Conference on Sustainability: Developments and Innovations







# \*CSC



International Webinar on Role of Battery Energy Storage Systems in Energy Transition From Fossil Fuels to Renewables



International Webinar on Role of Battery Energy Storage Systems in Energy Transition From Fossil Fuels to Renewables



Eng. Selvakumar Business Head at POWER PROJECTS, Chennai, Tamilnadu, India Power System is in transition from fossil fuel to renewables for environmental and economic reasons. This Transition results in many challenges to power system design and operation. Frequency regulation, Voltage regulation, Generator ramp up / down requirements, Fault withstand capability, Rigidness of the grid, Protection are few key impacts. There are many Renew alone projects are aimed across the world and in such cases the intensity challenges is extremely high. Energy Storage is the best possible option to resolve the issues and selecting the right type of energy storage is the key. Though they are many energy storage options available Battery energy storage system looks technically feasible and commercially viable at this stage. The session address the key challenges along with solution by from Battery Energy Storage. Session also brings out few real time case study outcome and highlight the simulation requirements at the early stage of the projects to choose the optimal sizing and configuration of

Date: 3rd March, 2022



Contact:

Mr. AbdulRahman Almujahed, 219211224@psu.edu.sa Mr. Mohammed Alghamdi, 219110748@psu.edu.sa Dr. Umashankar Subramaniam, usubramaniam@psu.edu.sa Dr. Mahajan Sagar Bhaskar, smahajan@psu.edu.sa Dr. Dhafer Almakhles, dalmakhles@psu.edu.sa Eng. Siyakumar Selvam. seelvam@psu.edu.sa

BESS.

### Principles of green construction design







### **Recycling Presentation**





In collaboration with College of Law. Teaching and Learning Center invites you to attend

The Climate Crisis and our Future

# The Climate Crisis and our Future.

Mr. Ahmad Rafay Alam

Mr. Ahmad is a Pakistani environmental lawyer and partner at Saleem, Alam & Co. a law firm. A Yale World Fellow, Mr. Alam has vast experience in environmental law, litigation and regulation and regularly advises governments, international financial institutions and NGOs on environment, water, sustainability, climate change, energy and air quality issues.

# Sunday 6/3/2022 12:00 - 1:00 pm

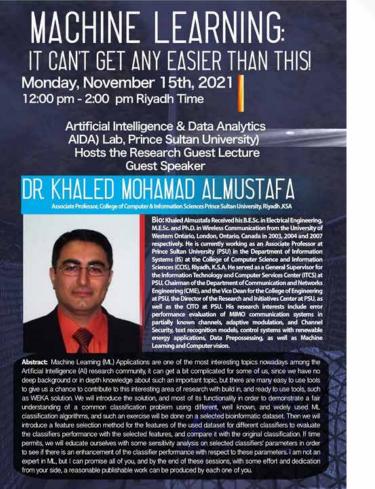
Kindly click on the poster or scan the QR code



\*C2C



Machine Learning: it can't get any easier than this



Google Meet joining Link: https:// meet.google.com/uma-tfxy-hya Public lectures at AIDA Lab are free and open to all. A certificate of attendance will be awarded to the attendees. Plastic Recycling Program – 09/03/2022



If you are interested in being part of a green university's environment and concerned about plastic pollution! Come to join us in kicking off the recycling program at PSU



AQUAFINA



Building 105
 Auditorium





### **Publications**

## **IJEEP**













**Springer** Link













International Journal of Interactive Mobile Technologies



### \*020



WILEY	MDPI
emerald insight 歐語源	























# Sustainable Development Report 2021-2022 **Climate Action**







### **Climate Action**

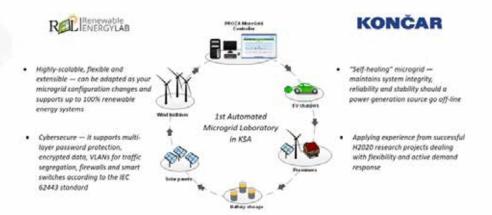
### Summary of accomplishments

Prince Sultan University giving much attention on bringing the environment pollution free and contribute towards climate change. As an important stakeholder, PSU contributes towards the achievement of sustainable environment and campus through various events, practices, and research. It regularly organizes events and exhibitions for students and employees to promote the climate change.

The strong commitment can be witnessed from the type of support provided in events related to clean energy, EV and the sustainable practices followed for sustainable PSU campus to promote measures for climate change and research contribution etc. Moreover, the solutions and impacts of climate change is an important topic is endorsed in our curriculum and outreach.

### Summary of accomplishments

The **Prince Sultan University** is involved in several industrial collaborations that are leading the way in the search for alternative energy sources. One such example comes from our **Renewable Energy Lab**, who are in cooperation with **Koncar Power Plant Electric Traction, Croatia** for a collaborative project on microgrids test bench for EV charging and renewable energy to combat climate change.



The Prince Sultan University is involved in several industrial collaborations that are leading the way in the search for alternative energy sources. One such example comes from our Renewable Energy Lab, who are in cooperation with Power and Telecom Technologies Co., KFB Holding Group, Riyadh for a collaborative consultancy project on investigations on minimizing electricity cost and feasibility study of self-sustainable campus towards climate change mitigation.

- Introducing custom made techniques for local environment conditions, like robotic panel cleaning etc. as per the SDG 9, 13.
- Setting up a remote monitoring and control station at Renewable Energy Lab for the performance analysis of installed lights.

98

\*C2C



### **Research on Climate Action**

122 EOP Publishing 5 Series: Earth and Environmental Science 1026 (2022) 012029 doi:10.1088/1755-1315/1026/1.012029

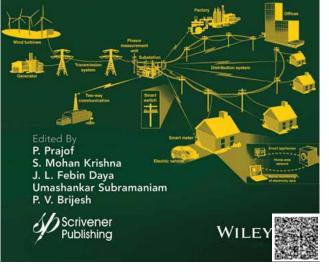
#### Energy Efficient Outdoor Lighting System Design: Case Study of IT Campus

O.V.Gnana Swathika<sup>12</sup>, K. Karthikeyan<sup>2</sup>, Umashankar Subramaniam<sup>4</sup> K.T.M. Udayang Hemapala<sup>1</sup> and Sagar Mahajan Bhaska<sup>2</sup> <sup>1</sup>School of Electrical Engineering, ITI Chennat, India <sup>2</sup>Larson & Toubro Prt. Lal. India <sup>4</sup>Department of Communications and Networks, Renewable Energy Laboratory, College of Engineering, Prince Sultan University, Brjudh 11586, Sandi Arabia <sup>4</sup>University of Moratorea, Sci Landia <sup>9</sup>University of Moratorea, Sci Landia

Abstract. Ondoor lighting isolations are a key to safe urbanization. It is important that measurement of lighting is done at the design stage keeping in unind the crucial parameters files are such by meticulawely using lighting standards at each and every stage of lighting design. This process further manrally inclusions in relating materiable lighting solutions for the fittare generations. In this paper, a case shalp of an Information Technology (IT) campus which requires multible outdoor lighting system is considered. Ondoor lighting is virces there are relatively and the properties and which movement during stage time. Hence it is necessary to design and inpriments an effective lighting solutions.









#### Solar PV network installation standards and cost estimation guidelines for smart cities

Sushmita Sarkar\*, M.S. Bhaskar <sup>ba</sup>, K. Uma Rao\*, Prema V\*, Dhafer Almakhles\*, Umashankar Subramaniam\*

<sup>8</sup> Department of Electrical and Electronics Engineering, RV College of Engineering,<sup>8</sup> Rongularu 50009, India <sup>8</sup> Remender Storege Lab, Department of Communications and Networks Engineering, College of Engineering, Printe Solution University, Equally USMS, Sand Arabia <sup>8</sup> Department of Electrical and Electronics Engineering, RMS, College of Engineering, Rongularu 500197, India

Received 5 March 2021, revised 30 April 2021, accepted 27 June 2028 Available online 7 July 2021

#### EEVWORDS PV standards, International Electrony, hol cut Commission (EC), Quality conflictation; Safety; Com

Absence Terr sourt totas, the second fe large scale implementation of order PF to bardways, Out (PG) is a global organization for standardways. The international Electronechoical Communities, IEES) is a global organization for standardwarms consisting of all HE rational communities. The HES whose all HE values and standardwarms consisting of all HE rational communities. The HES whose all deviation and allow on the PF to the PE scale standardwarms and the standardwarm (PE Scale standardwarms) and the standardwarm (PE Scale standardwarms) and the scale standardwarm (PE Scale standardwarm) and the scale s

sharp, gaps solution by them and the recommendations provided by the zon-The breakap costs of the various sub-systemy of a PV installation with an ilindia is also discussed, it is intended to provide a guiddine for consistence as



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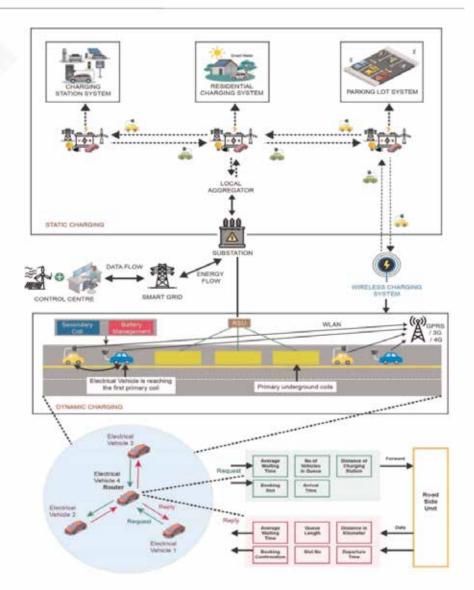


### Low-carbon energy use (27%)

The **Prince Sultan University** is involved in several industrial collaborations that are leading the way in the search for alternative energy sources. One such example comes from our **Renewable Energy Lab**, who are in cooperation with **Power and Telecom Technologies Co., KFB Holding Group, Riyadh** for a collaborative consultancy project on investigations on minimizing electricity cost and feasibility study of self-sustainable campus.

The main objective of the project is to study PSU Lighting electricity network to provide Strategic solutions as per the sustainable development goals (SDG 12, 13, 17)

- Introducing custom made techniques for local environment conditions, like robotic panel cleaning etc. as per the SDG 9, 13.
- Setting up a remote monitoring and control station at Renewable Energy Lab for the performance analysis of installed lights.



Intelligent optimization for charging scheduling of electric vehicle

### \*CSC



### **Environmental education measures (23%)**

### Virtual Conference on Energy, Smart Grid and EV:

Renewable Energy Lab (REL), College of Engineering, Prince Sultan University is organized International Virtual Conference on Recent trends on Renewable Energy, Smart Grid, and Electric Vehicle Charging (RESGEVT-20) on 9th July 2020 as a partner Institution in association with Top ranking universities in the world . VIT University Vellore India is hosting this conference. The Virtual Conference is a platform for researchers, academicians as well as professionals from all over the world to present, discuss and promote the knowledge, research and practice in the field of Smart Grid Control, Renewable Energy Sources, Energy Efficiency, Power Quality and Electric Vehicle Charging to combat climate change.

RESGEVT-20 is offering a fantastic opportunity to attend a global scientific forum from the convenience of your desktop. The conference is online, from paper submission, including reviewing, conference discussion, and post-conference processing. All papers referred to the double tier approval process, single-blind peer-review and regular check. The online conference is a smart and affordable manner of presenting research results. Selected papers based on the domain and quality published in Scopus Indexed conference proceedings (IOP Conference Series).

Community Event on Wind Energy to the Students, Researchers of Kingdom by REL







Sustainable Development Report 2021-2022 Life Below Water





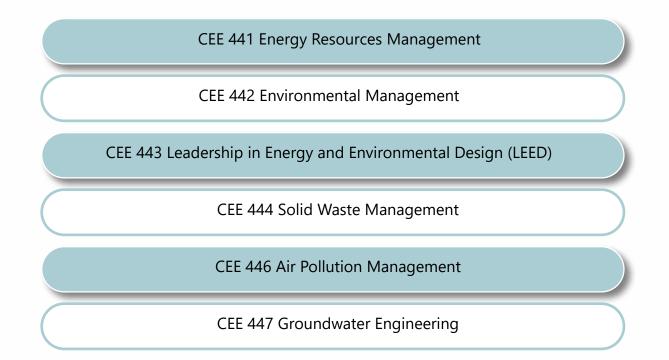
### Life Below Water

Supporting aquatic ecosystems through education

### Fresh-water ecosystems (community outreach)

Offer educational programs on fresh-water ecosystems (water irrigation practices, water management/conservation) for local or **national** communities

### Course: CEE 442 Environmental Management



### \*CSC



### Supporting aquatic ecosystems through action

### Maintain ecosystems and their biodiversity

Work directly (research and/or engagement with industries) to maintain and extend existing ecosystems and their biodiversity, of both plants and animals, especially ecosystems under threat

### D Springer Link

#### Research Article Published: 04 June 2022

Influence of graphene oxide on the toxicity of polystyrene nanoplastics to the marine microalgae *Picochlorum* sp.

Gamze Yesilay , Layla Hazeem, Mohamed Bououdina, Demet Cetin, Zekiye Suludere, Alexandre Barras & Rabah Boukherroub

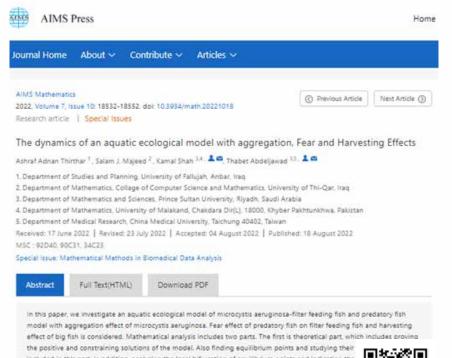
Environmental Science and Pollution Research 29, 75870–75882 (2022) Cite this article 340 Accesses Metrics

#### Abstract

Graphene oxide (GO) features distinctive physical and chemical characteristics; therefore, it has been intensively investigated in environmental remediation as a promising material for clean-up of soil contamination and water purification and used as immobilization material.

Plastic is a widespread pollutant, and its breakdown products such as nanoplastics should be evaluated for potential harmful effects. This study is aimed to evaluate t of GO on the toxicity of polystyrene (PS) NPs to the marine microalgae *Picochloru* period of 4 weeks. The capability of GO to reduce the toxic effects of PS NPs was as





the positive and constraining solutions of the model. Also finding equilibrium points and studying their included in this part. In addition, analyzing the local bifurcation of equilibrium points and indicating the is discussed here. On the other hand, the second part contains the numerical simulation of all the theore we compare the numerical values of the conditions obtained in the theoretical part.



### Technologies towards aquatic ecosystem damage prevention

Work directly (research and/or engagement with industries) on technologies or practices that enable marine industry to minimise or prevent damage to aquatic ecosystems.

> Hindawi Journal of Nanomaterials Volume 2022, Article ID 1458442, 14 pages https://doi.org/10.1155/2022/1458442



#### **Research** Article

### Efficient Removal of Cd (II) from Aquatic Media by Heteronanostructure MgO@TiO2@g-C3N4

#### A. Modwi 0,1 M. Ismail,1 H. Idriss,2 M. A. Ben Aissa 0,1 L. Khezami 0,3 and M. Bououdina 3

<sup>1</sup>Department of Chemistry, College of Science and Arts, Qassim University, Ar Rass, Saudi Arabia <sup>2</sup>Physics Department, College of Science, Imam Mohammad Ibn Saud Islamic University (IMSIU), Riyadh 11623, Saudi Arabia <sup>3</sup>Chemistry Department, College of Science, Imam Mohammad Ibn Saud Islamic University (IMSIU), Riyadh 11623, Saudi Arabia <sup>4</sup>Department of Mathematics and Science, Faculty of Humanities and Sciences, Prince Sultan University, Riyadh, Saudi Arabia

Correspondence should be addressed to A. Modwi; abuelizkh81@gmial.com and L. Khezami; lkhezami@gmail.com

Received 12 May 2022; Accepted 15 July 2022; Published 5 August 2022

Academic Editor: Haisheng Qian

Copyright © 2022 A. Modwi et al. This is an open access article distributed under the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

MgO@TiO\_@g-C\_N4 heteronanostructure was synthesized using a simple ultrasonication technique and assessed potentially to remove Cd (II) from aqueous environments. X-ray diffraction analysis confirms composite formation with mean crystallite size in the range of 4-17 nm while transmission electron microscopy analysis reveals nanosheet-like nanoparticles with the homogeneous elemental distribution. N<sub>2</sub> adsorption-desorption measurements indicate the formation of a mesoporous structure with a BET surface area of about 107 m<sup>2</sup>/g. Fourier-transformed infrared elucidates the presence of O-H, amino groups, triazine, Ti-O vibrations modes. At the same time, X-ray photoelectron spectroscopy analysis manifests the presence of Mg, C C elements. For aqueous Cd (II) ions, the MgO@TiO2@g-C2N4 nanostructure displays a superior adsorption efficien 99.94% Cd (II) elimination with an optimum adsorption capacity of 515.86 mg/g in a short duration of 16 min. demonstrates the capability of using the MgO@TiO\_@g-C\_3N4 nanostructure as an efficient and reusable adsorbent fo of Cd (II) ions in wastewater treatment and potentially for the removal of other heavy metal ions.







# Sustainable Development Report 2021-2022 Life On Land







### Supporting land ecosystems through education

Events about sustainable use of land

Support or organise events aimed to promote conservation and sustainable utilisation of the land, including forests and wild land

# THE 2ND YOUNG REPORTERS COMPETITION

We are pleased to invite your students to participate by submitting an original written report under one of the following topics:

### 1-Green Initiative in Saudi Arabia 2-Tourism in Saudi Arabia



### \*CSC



### Supporting land ecosystems through action

### Local biodiversity included in planning and development

Include local biodiversity into any planning and development process (e.g. construction of new buildings)

### Architecture Club

### Towards Healing Environment for Hospital Buildings

Presenter: Dr. Eman Sabry

Coordinator: Dr. Salma Dwidar

Date: Thursday 11 th of November 2021

Time: 12:00 to 1:00pm

Location : Online Link: https://meet.google.com/npx-ndzk-rzq?authuser=0 Workshop Registration Link::

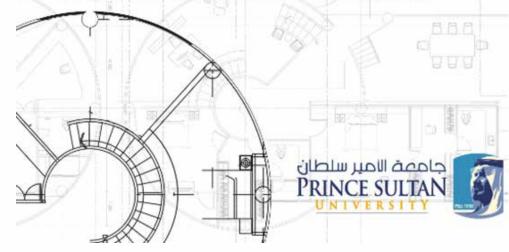
Use link or Scan barcode for registration



### Discerption



The internal environment of the hospitals design is considered one of the most complex types of design processes. Recently the interest in improving hospital environments has increased and has become a major focus of the architectural design in order to convert the Hospital building from buildings that provide treatment only to an environment that supports and promotes healing for patients. This lecture aims to highlight the modern trends .in designing the inpatient unit in the hospital to achieve the healing environment









### Land sensitive waste disposal

### Policy on plastic waste reduction

Prince Sultan University PSU Policy Management Systems Sustainable Waste Management, Prevention and Disposal Policy

Policy Code: GV0016

Policy Name: Sustainable Waste Management, Prevention and Disposal Policies Handling Unit: PSU Maintenance Department Date of Current Revision: August 2020 Approved by: University Council Date of Approval: 02/09/2020

#### **Purpose and Aims:**

Prince Sultan University is a sustainable green university that preaches and applies sustainable development approaches and practices at all levels. As part of its endeavors to build a safe, green campus, PSU adopts sustainable waste management and disposal practices that are implemented in coordination with municipal and government agencies.

#### Aims:

PSU waste management and disposal policy aims to:

- · Build and maintain a safe, healthy green campus
- Apply the appropriate approach and use the proper channels for disposing waste based on its category
- Minimize the use of plastics and reduce plastic waste
- Minimize the use of disposable items
- Adopt energy efficiency standards
- Avoid carbon-intensive industries and similar chemical processes that cause the emission of unhealthy gases
- Measure and monitor the amount of landfill and recycled waste

#### Categories of waste:

- 1- Landfill solid waste
- 2- Electronic waste
- 3- Paper waste
- 4- Hazardous materials
- 5- Reusable old furniture and equipment
- 6- Plastic waste
- 7- Carbon and unhealthy gas emissions

### Policy



PSU maintenance unit is the entity responsible for waste management, prevention and disposing



The maintenance unit establishes the appropriate infrastructure, instructions and guidance for waste management, prevention and disposing.



The maintenance unit applies the appropriate approach and channel for waste disposal based on the waste handling table below



Landfill waste is disposed using services provided by the Municipality waste disposal network



A prevention approach is used to reduce carbon and gas emissions



Other types of waste are disposed in coordination with specialized agencies and charity organizations



The unit regularly measures the amounts of landfill and recycled waste respectively and raises regular reports on these to upper admin departments



The department raises regular reports to the higher administration and the quality assurance office

The quality assurance office is responsible for monitoring performance and KPI's







Sustainable Development Report 2021-2022 **Peace, Justice & Strong Institutions** 



### ॐ୯୬୯

### Peace, Justice and Strong Institutions

### University governance measures

Elected representation on the university's highest governing body from: students (both undergraduate and graduate), faculty, and staff (non-faculty employees)

### Students (both undergraduate and graduate)



### Student Council Advisory Board Members

J	
Members	Title
Dr. Yazeed Alfakhri, Dean of Student Affairs,	Chair
Dr. Maha al-maiman, Vice Dean of Student Affairs	Co-Chair
Mr. Yazeed AbuShaea, Student Council Advisor (Male Campus)	Member
Ms. Lama Al-Luhaidan, Student Council Advisor (Female Campus)	Member
Mr. Mohammad AlSultan, Student Council President (Male Campus)	Member
Ms. Raghad Alrakaf, Student Council President (Female Campus)	Member

### **Digital Media**

UX Design Workshop, club Fair, workshop – Basics of Editing in Premiere Pro, Digital Media & HCI Showcase

### **EdTech Club:**

Orientation session, OpenMic session, Emerging Technologies session, KACST internship experience

### **PSU Toastmasters Club:**

Communication and Leadership Skills

### \*CSC



### Students' union

Union provides support for students











### Identify and engage with local stakeholders

PSU has written policies and procedures to identify local stakeholders external to the university and engage with them.

Prince Sultan University PSU Policy Management System Stakeholders involvement policy

Policy Code:	GV0012
Policy Name:	Stakeholders involvement policy
Handler:	Academic Affairs
Date Created:	15 July 2020
Date of Current Review:	15 August 2020
Approved by:	University Council
Date of Approval:	02/09/2020







### \*COC



### Participatory bodies for stakeholder engagement

An offshoot of Prince Sultan University's Industry 4.0 Center, the Prosthetics and Orthotics Center, run in collaboration with Nia Technologies, aims to use the latest technology to serve people with disabilities, says Abdulhakim Almajid, dean of the College of Engineering at PSU.





Prince Sultan University (PSU) in Riyadh, Saudi Arabia, and Trimble Inc. (NASDAQ: TRMB) have recently signed a memorandum of understanding (MOU). The purpose of this MOU is to set forth increased collaboration and cooperation between the College of Engineering at PSU and Trimble to educate the students with advanced 3D BIM Tekla Solutions used in the construction world.





### University principles on corruption and bribery

Publish the university's principles and commitments on organized crime, corruption & bribery

Policy Code:	GV0013	
Policy Name:	Principles on Organized Crime, Corruption, and Bribery Policy	
Handler:	Academic Affairs	
Date Created:	15 July 2020	
Date of Current Review:	15 August 2020	
Approved by:	University Council	1.12
Date of Approval:	02/09/2020	

Prince Sultan University PSU Policy Management System Principles on Organized Crime, Corruption, and Bribery Policy

PSU Compliance Office ensures the institution functions in a legal and ethical manner while meeting its institutional goals. The office is also responsible for developing compliance programs, reviewing the institutional policies, and advising the management on the possible risks.

Our commitment to acting with integrity in all situations is crucial for us as PSU Compliance Officer and PSU Compliance office to guarantee the trust of the PSU community, the stakeholders, and the society in general.

### Academic freedom policy

Have a policy on supporting academic freedom (freedom to choose areas of research and to speak and teach publicly about the area of their research)

	Prince Sultan University PSU	
	Policy Management System Academic Freedom Policy	
Policy Code:	GV0014	
Policy Name:	Academic Freedom Policy	
Handler:	Academic Affairs	
Date Created:	15 July 2020	FE1825(393)
Date of Current Review:	15 August 2020	
Approved by:	University Council	
Date of Approval:	02/09/2020	

The academic freedom is the central right of any academician and an academic institution. Academic freedom is a termed as an open and multi-dimensional deliberation on a topic in an academic context. Prince Sultan University has ethical and legal duty to the develop student's understanding and learning through academic freedom.

### \*COC



### **Research freedom for senior academics**





Prof. Jehad Alzabut Prof. Thabet Abdeljawad Dr. Aziz Khan



### Prince Sultan University's research excellence strategy pays off



More funding and reduced teaching loads have helped researchers increase their output by 500 per cent



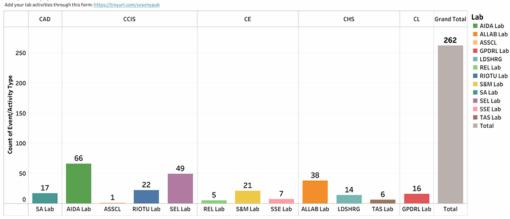


### **Research freedom for junior academics**

Welcoming Ceremony of GPDRL New Members



Number of Organized Events by PSU Labs Per College in 2020, 2021, 2022 Last updated: 10/25/2022 53502 AM Add your lab activities through hits form: https://tinurf.com/vzwmypub





### \*COC



### **Teaching freedom for senior academics**







### **Teaching freedom for junior academics**

A workshop on "Cisco Packet Tracer and Wireshark" for PSU students by CME & Smart Systems Engineering Lab - March 30th and 31st, 2022



### Al&GameDev Showcase



{CS} Department of Computer Science invites you to the Al & GameDev Showcase 18th May, 2022 12-1 PM



### \*C2C



### Working with government

Provide expert advice to local, regional or national government through policy guidance, participation in committees, provision of evidence.

The President of Prince Sultan University participates in a session in The International Conference & Exhibition for Education 2022

DAY THREE:	Tuesday, 10 May 2022
14:45 - 16:15	SESSION THREE: Financing and Investment in Education





H.E. Dr. Ahmed S. Al-Yamani President, Prince Sultan University, Kingdom of Saudi Arabia

Presentation Title: Privatization and its Role in Raising the Quality of Higher Education



#### International Conference and Exhibition for Education 2022

#### DAY THREE: Tuesday, 10 May 2022

14:45 - 16:15 SESSION THREE: Financing and Investment in Education



#### Moderator Mr. Mohammed Ali Al-Bishi

Editor of economy and business news in "Economy of the East with Bloomberg" in KSA Kingdom of Saudi Arabia



#### H.E. Dr. Hindi Abdullah Al-Suhaimi

Assistant Minister of Finance Kingdom of Saudi Arabia

#### Presentation Title:

The role of Ministry of Finance in supporting Education Sectors



H.E. Dr. Ahmed S. Prof. Dr. Zeger Al-Yamani Degraeve

> MBS College Belgium

#### Presentation Title:

Schools: Sources and Uses of Financing



Education

#### H.E. Dr. Khalid Abdulrahman Alhamoudi

President - Dar AlUloom Kingdom of Saudi Arabia

Presentation Title: Methods for Sustaining Non-profit

Prof. Nora Ann Colton Director, UCL Global Business School for Health, UCL, United Kingdom

#### Presentation Title:

Revenue Diversification in Higher Education Institutions: Challenges and Opportunities

Presentation Title: Privatization and its Role in Raising the

**Ouality of Higher** 

Education

Saudi Arabia



President, Prince Sultan Dean University, Kingdom of

### World-class Business



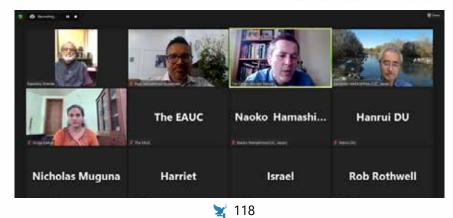


Professor Mohammad Nurunnabi participated as a speaker in United Nations Environment Programme - UNEP YEA! Global Summit 2022.



BOOK A FREE PLACE: WWW.YEAGLOBALSUMMIT.ORG

PARTNERS: Cauc CARACT UNA 50



### \*COC



### Neutral platform to discuss issues

Provide a neutral platform and 'safe' space for different political stakeholders to come together to frankly discuss challenges



A delegation from the Ministry of Human Resources and Social Development visits the university to discuss means of cooperation between the two parties. His Excellency Dr. Ahmed Al Yamani, University President, received a delegation from the Ministry of Human Resources and Social Development headed by Undersecretary for Labor Affairs and Chairman of the Employment Working Group, Dr. Ahmed Al-Zahrani, to discuss means of cooperation between the two parties. Prince Sultan University held the International Conference on Sustainability: Developments and Innovations







Sustainable Development Report 2020 **Partnerships for the Goals** 





### **Relationships to support the goals**

### Relationships with regional NGOs and government for SDG policy

PSU has direct involvement in, or input into, national government or regional non-government organisations, SDG policy development - including identifying problems and challenges, developing policies and strategies, modelling likely futures with and without interventions, monitoring and reporting on interventions, and enabling adaptive management. Each year PSU submits relevant data to Ministry of Education and ETEC; Policy Papers and Cooperation with Emerald.

### Relationships with regional NGOs and government for SDG policy







### **Cross sectoral dialogue about SDGs**

Initiate and participate in cross-sectoral dialogue about the SDGs, e.g. conferences involving government or NGOs

PSU organizes international conferences and include topical SDG issues. Policy forum and discussion involving government/NGOs/ international stakeholders.

Net Zero Emission and Transition Towards Climate-Neutral Economies: The Role of Higher Education and Saudi Vision 2030







### International collaboration data gathering for SDG

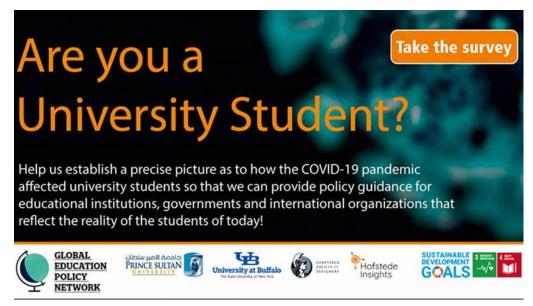
Participate in international collaboration on gathering or measuring data for the SDGs. PSU has international collaboration with several universities to gather or measure the data related to the SDGs

### Global Index for Health and Well-being Survey 2021

We are proud to announce that we have joined the Global Education Policy Network (GEPN), a global think tank led by Prince Sultan University and The State University of New York at Buffalo.

With the aim of providing policy guidance for educational institutions, governments and international organizations. GEPN seeks to collect information on the health and well-being of students in higher education in light of the Covid19 pandemic and is connected to the UN Sustainable Development Goals (SDG 3 - Health).

In order to establish a precise picture as to how the COVID-19 pandemic affected university students in particular, it is important to better understand the health and wellbeing of students. The Global Index for Health and Well-being will help policymakers to create a national and global framework on students' health and well-being concerns.



### Partners

A consortium of partners is involved in this project, scan the **QR code** to learn more about our partners.



### \*CSC



### **Collaboration for SDG best practice**

Through international collaboration and research, review comparative approaches and develop international best practice on tackling the SDGs. PSU has international collaboration and research. In research, we focus on review comparative approaches and develop international best practice on tackling the SDGs.

### Impact of COVID-19: How CEOs Respond to SMEs Recovery Planning in Saudi Arabia



Businesses have been forced to find creative and innovative ways of addressing some of the great challenges facing our world resulting from COVID-19 pandemic. This report presents an analysis of the findings from the interviews of chief executive officers (CEOs) of 111 small and medium enterprises (SMEs) in Saudi Arabia. Three key areas are highlighted: a) challenges that SMEs in Saudi Arabian businesses are facing due to the COVID-19 pandem-

ic; b) the impact of the COVID-19 health crisis on their businesses; and c) their recovery plans to sustain in their business. The outcome of the findings offers a broader understanding of how a wide-ranging of innovative ideas associated with an organisation's desire for improving its efficiency, effectiveness and value creation for customers and other stakeholders such as government and the community.







### **Collaboration with NGOs for SDGs**

Collaborate with NGOs to tackle the SDGs through: student volunteering programmes, research programmes, or development of educational resources.

PSU has collaboration with NGOs to tackle the SDGs through: student volunteering programmes, research programmes, or development of educational resources. Students participate in local and international forums. Our researchers also collaborate with international researchers focusing on SDGs.



Act on Environment and Climate



**Build** Youth Sustainable Community



Collaborate, Change and Impact the Community

Student volunteering programmes

**Research programmes** 

Development of educational resources



### \*COC



### **PSU SDG Club**

#### Who we are

Prince Sultan University SDG Club as part of the Center for Sustainability and Climate (CSC) aims to engage students in higher education to achieve Saudi Arabia's Vision 2030 and in the global effort to contribute to the UN Sustainable Development Goals 2030 (SDG) agenda towards sustainability and climate justice, as well as empower them with the knowledge, skills, and pathways to action to be effective agents of change today.

The PSU SDG Club coordinates educational events, social events, spread awareness, and advocate for sustainable initiatives at the university and among the student population in Saudi Arabia and the region.

We, the member, educate ourselves and others about important environmental and sustainability issues as well as develop a collective language and vision among the students' community.

The PSU SDG Club also facilitates collaboration and helps get project ideas off the ground.

Our Sustainability Initiatives and Campaigns

- GO GREEN Initiative
- Zero Waste Campaign
- Earth Day
- UN SDG and Climate Week
- Youth Sustainability Leaderships Certification
- Volunteering at Center for Sustainability and Climate (CSC)

Vision To Act, Build and Collaborate work towards the global Sustainable Development Goals and impact the community

Mission

To educate students about environmental and climate issues, and bring students together to discuss pressing Sustainable Development Goals (SDG) issues and host events, volunteer and assist in SDG initiatives, and connect with the local and global community. The individual work will make a collective impact on the challenges posed by integral sustainability.





### **Our SDG Club Governance**



Yumna Alnadeem President



Meshari Samir Alalkami President



Abdullah Dabaan Vice President



Aljoaharah Dhafir Saad Alshahrani Vice President



Reema Saleh I Alhudhaif Student Advisor Lead



Renad Mohammed Algarni Vice President



Laith Alamro Marketing Director



Dimah Waleed Alharkan Marketing Director



Rahf Aloubal Event & Community Impact Director



Shahah Alnafia Event & Community Impact Director

### \*COC





Rawan Alnafeesah Event & Community Impact Director



Amal AlSaud Event & Community Impact Director



Mashael Almualam Event & Community Impact Director



Abdullah Al Shawaf Event & Community Impact Director



Danah Dkiel Event & Community Impact Director



Saud Abdulrahman Almogbel Event & Community Impact Director



Aljwhrah Albegami Event & Community Impact Director

AlDanah Alhokair Event & Community Impact Director



Muzen Al-Assaf Event & Community Impact Director



Amena Abdul Naseer Event & Community Impact Director



Norah Alqusayer Event & Community Impact Director





### **Our SDG Club Members and Our SDG Club Faculty Advisors**





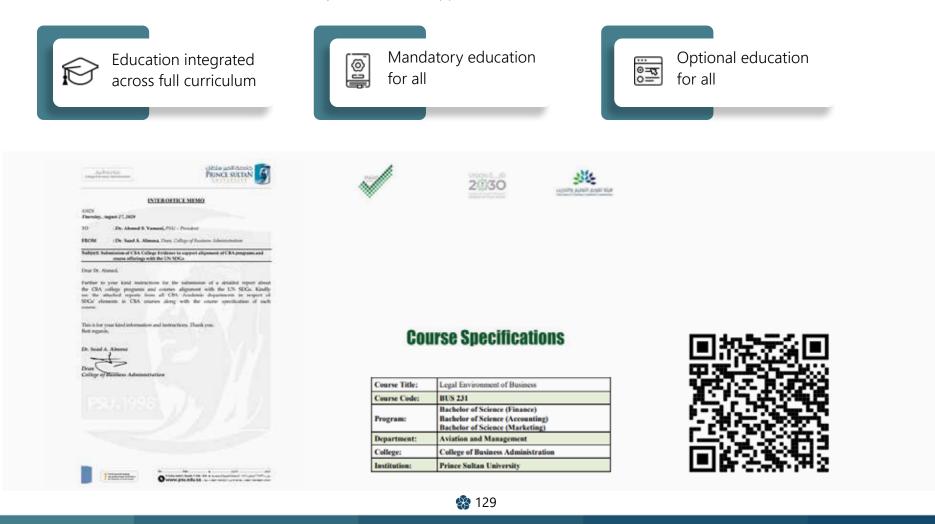
### \*CSC



### **Education for the SDGs**

### Education for SDGs commitment to meaningful education

All programs of PSU have a meaningful commitment to meaningful education around the SDGs. Have a commitment to meaningful education around the SDGs across the university, relevant and applicable to all students







### **Education for SDGs specific courses on sustainability**

Have dedicated courses (full degrees, or electives) that address sustainability and the SDGs.

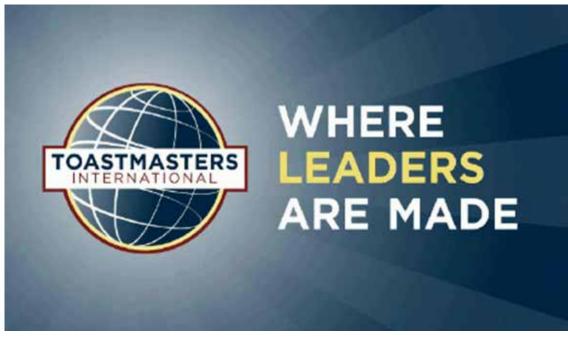
### Education for SDGs in the wider community

Have dedicated outreach educational activities for the wider community, which could include alumni, local residents, displaced people

- 🔠 Alumni
- 🍪 Local community
- Displaced people and refugees

### Alumni

Prince Sultan University Toastmasters Reflect and Speak about the Sustainable Development Goals 2030



### \*COC



### Local community

Professor Mohammad Nurunnabi participated as a speaker in Saudi Youth for Sustainability Conference 2022



Professor Mohammad Nurunnabi PhD (Edinburgh), FAIA(Acad), SFHEA, FRSA, CMBE, CMA, FFA, FIPA, CPA from Prince Sultan University was a distinguished speaker at the Inaugural Conference of Saudi Youth for Sustainability themed Thriving Together - King Abdullah University of Science and Technology (KAUST), Saudi Arabia.

Professor Mohammad Nurunnabi discussed "Re-imagining the Role of Education on Sustainability" and highlighted that collective efforts from all Saudi Universities will accomplish Vision 2030 and Saudi Green Initiative towards a sustainable future of Saudi Arabia.







### **Displaced people and refugees**

### Professor Mohammad Nurunnabi participated as a speaker in United Nations Environment Programme - UNEP YEA! Global Summit 2022

Professor Mohammad Nurunnabi PhD (Edinburgh), FAIA(Acad), SFHEA, FRSA, CMBE, CMA, FFA, FIPA, CPA from Prince Sultan University was a distinguished speaker in the session titled – "Continue the conversation with critical questions and ambition for Race to Zero Universities and Colleges".





Professor Mohammad Nurunnabi discussed "Re-imagining the Role of Education on Sustainability" and highlighted that Prince Sultan University in Saudi Arabia has been taking impactful steps towards achieving the UN's SDGs, and has the kingdom's own Vision 2030 in its sights. Universities' ability to demonstrate their social and environmental impact is more important than ever and, consequently, an increasing number of institutions now benchmark their impact against the United Nations Sustainable Development Goals (SDGs). Prince Sultan University (PSU) in Saudi Arabia is no exception and places Sustainable Development Goals at the heart of its mission. It has singled out a number of SDGs it feels to be most important to its student body, community and the future of the kingdom. Prince Sultan University is the First Saudi University to Pledge Net Zero Carbon University by 2060. Race to Zero for Universities and Colleges campaign is run in partnership with EAUC, Second Nature and UN Environment. EAUC are the secretariat. Being part to this campaign Prince Sultan University has been added to the UNFCCC Race to Zero campaign.



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