

Appendix B

Research Projects

The following Table shows the list of grants secured by EE department,

Table 7-6 Research Grants (2016-2020)

No.	Project Title	Researchers	Sponsor	Budget	Duration	Start & End Period (month and year)
1	Platform for pattern classification and performance monitoring based on machine learning of autonomous optical networks	Bernadt Tyndal Tariq Alshawi	Ministry of Education	SR 1,800,000	36 months	23/2/2020 to 23/2/2023
2	Research group	Saad Alghuwainam Hani Hasnin Adnan Nuh Muhammad Qis	Deanship of Scientific Research	SR 150,000	12 months	1440
3	Hybrid Renewable Energy Systems Accommodation Under Smart Grid Concepts	Dr. Ali Eltamaly Dr. Mohamed Abuella Eng. Hasan Farah	King Saud University-The Research Group Program (RG),	SR150000	1 year	3/09/1441 H-3/09/1442 H

			Deanship of Scientific Research			
4	Toward a Portable Patient-Operated Electric Muscle Stimulator	Mohamed Abuella Saleh Alshebaili	NPST	600000	2years	2020-2022
5	Improve the power factor in the electrical system in the Kingdom	Abdullah Alshaalan Farid Zidan	Electricity and Cogeneration Regulatory Authority	400000	2	1/10/2017-1/10/2019
6	Improving the safety and efficiency of mobile electric heaters	Abdullah Alshaalan Abdulhameed Alohli	Saudi Organization for Standardization and Metrology	180000	1	1/11/2018-1/11/2019
7	Preparing a guide to work Technical Guides for the Construction and Development of Mosques in the Kingdom of Saudi Arabia, the Eighth Guide Electrical requirements	Abdullah Alshaalan	The Authority and the Ministry of Islamic Affairs	SR50000	8 months	1/4/2019 to 1/12/2019
8	Electronic and Optoelectronic semiconductor materials and devices (RG-1440-055)	Mohammed Aldoraibi Mohammed Ramy Burawi Ilahi Mahmood Hizam	Deanship of graduate studies	SR 150,000	24 Months	2/4/1440H to 11/4/1442H
9	Unlocking the Spectrum for 5G Networks through Ultra-	Majid Altamimi Salih	SR 150,000	24 Months	SR 150,000	10/2018 to 9/2019

	Reliable Hybrid RF/FSO Links	Alshebaili Assam Attubaishi				
10	Electronic and Optoelectronic semiconductor materials and devices (RG-1440-055)	Mohammad Alduraibi, Dr. Mohamed Ramy, Dr. Bouraoui Ilahi, Dr. Mahmoud Hezam	Deanship of graduate studies	150,000	12 months	9/12/2018 to 8/12/2019
11	Control and Optimization of Grid-Connected Wind-Driven PMSG Generator	Saad Alghuwainam Hani Hasnin Adnan Nouh Mohammed Hassan Qis	Deanship of graduate studies	150,000	1 year	2/12/2018
12	Wideband Nearfield Imaging System for Active Energy Concentration in Hyperthermia Treatment of Cancer	Ibrahim Elshafiey, Abdelfattah Sheta, and Mubashir Alam	General Directorate of Research Grants-King Abdulaziz City for Science and Technology	SR 1,408,600	50 Months	1/2/1436 1/4/1440
13	Improving the safety and efficiency of mobile electric heaters	Abdullah Alshaalan Abdulhameed Alohli	Saudi Organization for Standardization and Metrology	SR 180000		
14	The effect of different efforts and frequencies on the safety, efficiency and performance of electrical equipment and devices in the Kingdom	Abdullah Alshaalan Abdulhameed Alohli	Saudi Standards, Metrology and Quality Organization	SR250000		1/10/2018 to 1/10/2019
15	Improve the power factor in the electrical	Abdullah Alshaalan Abdulhameed	Electricity and Cogeneration Regulatory	400 ألف ريال		-1439/7 1341/6

	system in the Kingdom	Alohli	Authority			
16	A development of PV system on-line monitoring for performance and fault detection algorithm	Wonsuk Ko	Korea Inst. of Civil Engineering and Building Technology	378,500 SR	4 yrs	04/16&20/03
17	Materials and devices for optical sensing and optical communication	Dr. Abu Syed Mahajumi Dr. Hamsa Dr. Ramy Dr. Fauzi	Deanship of Research, KSU	150000	01	2017/12
18	Research Group	Dr. S Alshebeili Dr M Ashraf Dr A. Ragheb Dr. K. Issa Dr M. Ismael	Deanship of Scientific Research	150 000	12 months	Sept 2018
19	The effect of different efforts and frequencies on the safety, efficiency and performance of electrical equipment and devices in the Kingdom	Abdullah Alshaalan	Saudi Organization for Standardization and Metrology	150000	7 months	-1439/2 1439/9
20	Improve the power factor in the electrical system in the Kingdom	Abdullah Alshaalan	Electricity and Cogeneration Regulatory Authority	400000	24 months	-1439/7 1341/6
21	Update electrical requirements in the Saudi Building Code	Abdullah Alshaalan	The National Committee for the Saudi Building Code	2000000	1 year	- 1439/11 1340/10
22	Luneberg Lens and substrate integrated waveguide based beam steering antenna array for	Hamsakutty Vettikalladi (PI)	KACST	665000	2 years	

	60 GHz high speed indoor					
23	23 GHz Antenna for Point-to-Point fixed Radio System for Next Generation High Speed Gbps Mobile Cellular Communications	Hamsakutty Vettikalladi	Research center, KSU	19500	10 months	Feb 2017 to Dec 2017
24	Enabling non-invasive glucose measurement for diabetes management: A communication engineering approach	Dr Saleh Alshebeili	KACST-Lockheed Martin University funding Program	55000 SR	1 year	September 2016 - September 2017
25	A development of PV system on-line monitoring for performance and fault detection algorithm	Wonsuk Ko	Korea Inst. of Civil Engineering and Building Technology	378,500 SR	4 yrs	04/16&20/03
26	To develop an effective exploration of the electromagnetic spectrum in unspecified conditions	Majid Altamimi	Deanship of Scientific Research	SR70000	12 months	6/2017-6/2018
27	Wideband Nearfield Imaging System for Active Energy Concentration in Hyperthermia Treatment of Cancer	Ibrahim Elshafiey, Abdelfattah Sheta, and Mubashir Alam	General Directorate of Research Grants-King Abdulaziz City for Science and Technology	SR 1,408,600	24 Months	1/2/1436

28	Development of Efficient Low-Cost Transceiver for Microsatellite Earth Observation	Ibrahim Elshafiey, Abdelfattah Sheta, Majeed Alkanhal, and Khalid Jamil	Engineering and Technology Services Company (ETSC) a subsidiary of TAQNIA (the Saudi Arabian Technology Development and Investment Company	SR 525,520	12 Months	1/3/1438
29	The effect of different efforts and frequencies on the safety, efficiency and performance of electrical equipment and devices in the Kingdom	Abdullah Alshaalan Abdulhameed Alohli	Saudi Standards, Metrology and Quality Organization	SR250000	12 months	1/10/2017 to 1/10/2018
30	A comprehensive assessment of the risks to humans and the environment due to the electromagnetic radiation emitted from devices, equipment and electrical transmission lines	Abdullah Alshaalan Abdulhameed Alohli Yasin Khan	Saudi Standards, Metrology and Quality Organization	SR250000	12 months	1/6/2017 to 1/6/2018