

Research plan for Energy and Renewable Energies Technology Center for the academic year 2019-2020

No.	Researcher Name	Research Title
1	Sanaa Abdul Hadi hafad	Chemical and Mechanical properties of glass concrete containing recycled fibers
2	Wahab K. Ahmed	Mathematical models of combustion in furnace by Mat lab
3	Dr. Moafaq K.S. Al-Ghezi	Design of the new solar collector including thermal properties compared with traditional solar collectors
4	Dr. Moafaq K.S. Al-Ghezi	The effect of dust on the performance and thermal efficiency of the photovoltaic panels
5	Sanaa Abdul Hadi Hafad	Improvement physical properties of natural rubber blend with carbon black
6	Dr. Salam Waley Shneen Lect. Roshen T A Hamdi	Effect of Designing Parameters and Weather Conditions on the Operation of SCPP in Baghdad.
7	Dr. Salam Waley Shneen Hashmia Sh. Dakheel Zainab B. Abdulla	Design and implementation of variable and constant load for induction motor
8	Lect. Roshen T A Hamdi Dr. Salam Waley Shneen	Using Position Control to Improve the Efficiency of Wind Turbine
9	Salah H. Abbdal Refish Dr. Salam Waley Shneen	E-PAC: Efficient Password Authentication Code based RMPN Method and Diffie-Hellman Algorithm
10	Dr. Salam Waley Shneen Mohammed Qasim Sulttan Manal Hadi Jaber	Variable Speed Control for 2Ph-HSM in RGS
11	Dr. Mohammed A. Fayad	Diminution of emissions and smoke opacity from combustion of alcohols/diesel blends in modern diesel engine and Influence of the EGR
12	Dr. Mohammed A. Fayad Asst. Prof. Dr. Qusay A. Jawad	Effect of post-injection and alternative fuel on emission characteristics and smoke/soot emissions in a common-rail DI diesel engine
13	Dr. Mohammed A. Fayad	Investigation the impact of injection timing and pressure on emissions characteristics and smoke/soot emissions in diesel engine fuelling with soybean fuel
14	Dr. Mohammed A. Fayad Asst. Lect. Hind A. Al salihi Asst. Lect. Bashar R. AL-Ogaidi Asst. Lect. Khalid S. Reda	Effect of various fuels and exhaust gas recirculation (EGR) on emission characteristics of modern diesel engines
15	Asst. Lect. Hind A. Al Salihi Dr. Mohammed A. Fayad	Nanoscale Oscillator on the Base of Single-walled Carbon Nanotube with Internal Fullerenes C36 and C80
16	Taghried A. Salman Asst. Lect. Hind A. Al salihi Asst. Prof. Dr. Sanaa A. Hafad Prof. Dr. Ahmed A. Al-Amiery Lina M. Shaker	Adsorption and corrosion inhibition studies of coumarin derived as corrosion inhibition for mild steel in acidic medium: gravimetric and quantum chemical studies

17	Asst. Prof. Dr. Jehad A. Yamin Lect. Eiman Ali Eh. Sheet Dr. Ayad M. AL Jubori	Modeling and optimization of crude oil distillation in Iraq
18	Lect. Eiman Ali Eh. Sheet	Modeling of properties and SI engine pollution of associated Petroleum Gas in Iraq
19	Asst. Prof. Dr. Jehad A. Yamin Lect. Eiman Ali Eh. Sheet Zeyad Safaaldeen Albayati Prof. Dr. Ahmed A. AL-Amery	Statistical analysis and optimization of the corrosion inhibition efficiency of locally mode corrosion inhibitor under different operating variables using RSM
20	Asst. Lect. Alnasser T M A Dr. Mahdy A M J Asst. Prof. Abass K I Prof. Chaichan M T Prof. dr. Kazem H A	Effect of volatile building materials accumulation on the solar cell performance in Baghdad-Iraq weather conditions
21	Asst. Prof. Dr. Dhahad H. A. Prof. Chaichan M. T.	The impact of adding nano-Al ₂ O ₃ and nano-ZnO to Iraqi diesel fuel in terms of compression ignition engines' performance and emitted pollutants
22	Miqdam T Chaichan Ali J Ali Qusay A Jawad	The use of solar air heater in the drying of agricultural products in the climatic conditions of the city of Baghdad, Iraq
23	Dr. A H A Al-Waeli Prof. Dr. H A Kazem Prof. M T Chaichan Prof. Dr. K Sopian	The Nanofluid Vending Machine: A novel approach to provide nanofluids, Materials
24	Asst. Prof. Slafa I. Ibrahim Asst. Lect. Khalid S. Reda Asst. Lect. Bashar R. AL-Ogaidi	Effect of Thin Films of Rhodamine C Dye with Different Weights of ZnO Nanoparticles on the Performance of Si-Solar Cell.
25	Asst. prof. Sanaa A. Hafad Asst. Prof. Slafa I. Ibrahim Asst. Lect. Amerah A. Radhi	Design of a heat exchanger for thermal photovoltaic cell system
26	Asst. prof. Slafa I. Ibrahim Asst. Lect. Amerah A. Radhi Asst. prof. Sanaa A. Hafad	Design and study the performance of solar water distillers
27	Asst. Lect. Amerah A. Radhi Asst. prof. Sanaa A. Hafad Asst. prof. Slafa I. Ibrahim	Effect of dust on the performance of (PV) system
28	Dr. Moafaq K.S. Al-Ghezi	Effect of the condenser pressure and normalized steam mass flow rate on the normalized network output of the solar power plants
29	Dr. Moafaq K.S. Al-Ghezi	Analysis of the cooling tower methods and their integration with the condenser and it's influence on the net power output of power stations
30	Asst. Lect. Bashar R. AL-Ogaidi	Enhancement of flat plate solar storage collectors by optimization diameters and geometry
31	Lect. Marwa Kasim Abood Prof. Dr. Evan Tarq Salim Asst. Prof. Dr. Jehan Admonson Saimon	Electrical conductivity inversion for Nb ₂ O ₅ nanostructure thin films annealed at different temperatures
32	Lect. Marwa Kasim Abood Prof. Dr. Evan Tarq Salim	Investigation the effect of NH ₄ OH concentration on electrical conductivity, mobility and carrier

	Asst. Prof. Dr. Jehan Admonson Saimon	concentration in Nb₂O₅ films prepared using a chemical method
33	Lect. Marwa Kasim Abood Prof. Dr. Evan Tarq Salim Asst. Prof. Dr. Jehan Admonson Saimon	Enhanced morphology, structural and optical properties of NbO₅ thin film after heat treatment
34	Prof. Dr. Ahmed A. Al- Amiery Asst. Prof. Dr. Qusay A. Jawad Asst. Lect. Khalid S. Redha	Synthesis, characterization and corrosion inhibition potential of thiosemicarbazone on mild steel in sulfuric acid environment
35	Prof. Dr. Ahmed A. Al- Amiery Asst. Prof. Shaimaa B. Al- Baghdadi	Inhibition effect of thiosemicarbazide derived shift base on mild steel surface in HCl