Research plan for Energy and Renewable Energies Technology Center for the academic year 2017-2018

No.	Research Name	Researcher
1	Synthesis and characterization of a novel tetrazin as organic corrosion inhibitor for mild steel in 1M hydrochloric acid	Mohammed H. Othman Ahmed, Ahmed A. AL- Amiery, Abdul Amir H. Kadhum, Yasmin K.AL-Majedy, Abu Bakar Mohamad
2	Electrochemical and DFT studies of novel corrosion inhibitor as corrosion inhibitors for mild steel in 1M hydrochloric acid	Ahmed A. AL-Amiery, Abdul Amir H. Kadhum, Abu Bakar Mohamad
3	Antioxidant activities of structurally motivating scavengers	Ahmed A. AL-Amiery, Dunya L. AL- Duhaidahawi, Ahmed E. Abdel Moneim, Abdul Amir H. Kadhum
4	Antioxidant activities for some synthesized Schiff bases	Dunya L. AL- Duhaidahawi, Majid S. Jabir, Ahmed A. AL-Amiery, Ahmed E. Abdel Moneim, Abdul Amir H. Kadhum
5	Investigation of biodiesel- diesel blends startability and emissions during cold, warm, and hot conditions	Miqdam Tariq Chaichan, Nahedh Mahmood Ali
6	GEM Ternary Blends: Testing emitted NOX- smoke trading off when EGR is applied to the engine	Miqdam Tariq Chaichan
7	Investigation of the combustion and emission characteristics of E85 and diesel blend in conventional diesel engine operates in PPCL mode	Miqdam Tariq Chaichan
8	Connect the wind farms to the electrical grid and indicate their effect on 9improving the characteristics of the network	Mahdi A. Abdul-Hussain Roshen T. Ahmed

9	Low frequency alternating current 16 2/3 to transport	Mahdi A. Abdul-Hussain
	the electrical power	
10	Calculate the houny solar	
	radiation on the aperture area of a parabolic trough	Moafaq K.S. Al-Ghezi
	solar collector	
	Accumulation of the heat	
11	system in the solar power	Moafaq K.S. Al.Ghezi
	plants with the parabolic	Withanay 18.5. M. Onezi
	trough concentrates	
	Characterization of Nano	Raid salih jawad
12	filtration membrane (RE	S.K. Sharma
12	1812-50, NE 1812- 70, HPA	safaa N. abdul jabbar
	150 & PPT 9908)	
	The relation of Fibonacci	Raid salih jawad,
13	sequence with the other	safaa Nayyef abdul jabbar,
	number	Najat Hamid Sibit
	Numbers seven relevance	Safaa nayyef abdul jabbar
14	with six & other ranks	Raid salih jawad,
		Najat Hamid Sibit
	Effect of Reinforced	
	concrete by adding Iraqi	Sanaa Abdul Hadi hafad
15	Natural Materials	Fanar ghanm
	immersed with Chemical	Thamer Adnan Abdulha
	Solution Chemical and Mechanical	
10		Compa Abdul Had: bafad
16	properties of glass concrete	Sanaa Abdul Hadi hafad
	containing recycled fibers	Amera Abbas Radhi
17	Bioethanol extraction from	Amera Abbas Kadni Eiman Ali Eh. Sheet
1/	microalga	Slafa I. Ibrahim
		Eiman Ali Eh. Sheet
18	Potato peel as a source of	Amera Abbas Radhi
10	biofuel production	Slafa I. Ibrahim
	Exergy Analysis of	Jehad A. Yamin
19	Biodiesel Fuelled Direct	Eiman Ali Ehsan Sheet
	Injection CI Engines	Ismail Hdaib
• •	Solar cell modeling using	
20	mat lab software	Roshen T. Ahmed
	Solving differential	
21	equations using mat lab-	Roshen T. Ahmed
	Simulink	Mahdi A. Abdul-Hussain
22	Heating system	Wahah V Abread
	construction using solar	Wahab K. Ahmed
	thermal boilers in Iraq	

	Technical design calculation	
23	Technical design calculation of tube furnaces used in oil	Wahab K. Ahmed
		wanad K. Anmeu
	manifesting	
24	Experimental and	
	theoretical studies of	Ahmed Q. Salam
	benzoxq zines as corrosion	Ahmed A. Al-Amiery
	inhibitor	
25	New coumairn derivative as	Ahmed Q. Salam
	corrosion inhibitor	Khalid S. Reda
	experimental and	Ahmed A. Al-Amiery
	theoretical investigation	
	Enhancement heat transfer	
26	technology in tube heat	Ahmed Q. Salam
	exchanger	
	Conversion of waste plastic	Amera Abbas Radhi
27	into liquid fuels by use	Slafa I. Ibrahim
	thermal degradation	Eiman Ali Eh. Sheet
	Formyl hymecromone and	Abdul-Hadi K. Hayran
28	formylurabellifeon	Ahmed K. Al-Rekabee
20	as;lqh]hj jh;g corrosion	Khalid S. Redha
	inhibition	Ahmed Abdul-Amier
29		Dalia M. Jamel
	Carbethoxy thiazide as	Ahmed A. Hussain
	corrosion inhibition	Ahmed K. Al-Rekabee
		Khalid S. Redha
	Study the Non-Linear	
30	Properties of Rhodamine C	Slafa I. Ibrahim
•••	Dye in Different Solvents	
	Study the Non-linear	
21	Properties of some	
31	Alimentative Oil by Using	Slafa I. Ibrahim
	Z-Scan Technique	
	The impact of natural gas	
	addition to liquefied	Khalid S. Reza
32	petroleum gas on the CO	Wahab K. Ahmed
	emission of a spark ignition	Eiman Ali Eh. Sheet
	engine	
	Low temperature	
	preparation condition of	Marwa Kasim abood
33	niobium pentoxide thin	Evan tarq salim Jehan admon saimon
	films employing simple	
	colloidal suspension	Jenan aunion Sannon
34	Utilization of DC motor-	
	AC generator system to	Jaafar A. Kathum
	convert the solar direct	
	current into 220V	

	alternating current	
	Exploitation of electrical	
35	generator waste energy for	Jaafar A. Kathum
	house heating and hot water	
	supply	
36	Theoretical technique for	
	studding the effecting	Abbass Z. Salman
	factors or loss coefficients in	Abbass Z. Saiman
	solar collectors	
37	The investigation of the	
	effect of solar radiation on	Abbass Z. Salman
	housing and building	
	facades	
38	Experimental analysis for	Abbass Z. Salman
	torsion fatigue	Abbass Z. Saiman
	Effect of Renewable Fuels	Mohamed A. Fayad
39	and Injection Strategy on	Hind A. Al-Salhi
57	Gaseous Emissions in Diesel	Bashar R. Younis
	Engines	
	Renewable Sources of	Hind A. Al-Salhi
40	Energy by Changing	Mohamed A. Fayad
	Nanostructure of Carbon	Bashar R. Younis
	Investigation the Effect of	Bashar R. Younis
41	Nano Clay Particles on	Mohamed A. Fayad
	Shear Strength of	Hind A. Al-Salhi
	Composite Materials	
	Advanced Optimal for	
42	Three Phase Rectifier in	Salam W. Shnayen
	Power Electronic System	
	Advanced Optimal for	
43	Three Phase Invector in	Salam W. Shnayen
	Power Electronic System	
	New Multi-Stage	
	Centrifugal Turbines For	
44	Small-Scale Kalian Cycle	Ayad M. Salman
	Power Plant Driven By	
	Solar Energy	
45	Low Power Organic	
	RanKine Cycle Driven by	Ayad M. Salman
	Low-Grade Waste Heat	