Faculty of Engineering – Mansoura University
Mechanical Power Engineering Department

Mechanical power engineering department research plan for the year 2021/2022

Code number	Research plan	Field	Resposible for implementation	Duration	Funding and its resource
1	Reducing consumption and increasing energy efficiency.	Facing the expected energy gap due to the increase in consumption at rates that exceed the increase in production.	1- Prof. Helmy Gad. 2- Prof. Gamal Sultan. 3- Prof. Ahmed Hamed. 4- Dr. Mohamed Tawfik. 5- Dr. Mohamed Sameh	Academic year	Self-financed
2	Increasing production and distribution of traditional energies efficiency.	Facing the expected energy gap due to the increase in consumption at rates that exceed the increase in production.	1- Prof. Mohamed Ghassoub. 2- Assoc. Prof. Waleed AlAwady. 3- Dr. Mostafa Albouz.	Academic year	Self-financed
3	Increasing energy reserves from traditional resources.	Facing the expected energy gap due to the increase in consumption at rates that exceed the increase in production.	1- Prof. Mostafa Awad. 2- Prof. Gamal Sultan. 3- Prof. Mohamed Mahgoub.	Academic year	Self-financed
4	Expanding the use of new and renewable energy resources.	Facing the expected energy gap due to the increase in consumption at rates that exceed the increase in production.	1- Prof. Ahmed Hamed. 2- Dr. Mohamed Tawfik.	Academic year	Self-financed
5	Chemical and pharmaceutical industries.	Supporting industries with high added value.	1- Dr. Waleed Shaaban.	Academic year	Self-financed
6	Applications in the electronics industry.	Supporting industries with high added value.	1- Prof. Mohamed Mansour. 2- Prof. Gamal Sultan.	Academic year	Self-financed
7	Biomedical Engineering.	Supporting industries with high added value.	1- Assoc. Prof. Maher Bekhiet. 2- Dr. Mahmoud Shouman.	Academic year	Self-financed
8	Food Industry.	Supporting industries with high added value.	1- Dr. Aly Albouz.	Academic year	Self-financed
9	Microelectromechanical systems.	Modern promising applications in the field of microtechnology (micro and nano technology).	1- Prof. Mohamed Mansour. 2- Assoc. Prof. Mohamed Awad.	Academic year	Self-financed

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10	Biotechnology.	Modern promising applications in the field of microtechnology (micro and nano technology).	1- Assoc. Prof. Ahmed Abdalslam. 2- Dr. Waleed Shaaban. 3- Dr. Mahmoud Shouman.	Academic year	Self-financed
11	Micro sensors and their various industrial applications.	Modern promising applications in the field of microtechnology (micro and nano technology).	1- Prof. Mohamed Mahgoub. 2- Assoc. Prof. Abd Alrahim Dohina. 3- Prof. Gamal Sultan. 4- Dr. Mohamed Ragab.	Academic year	Self-financed
12	Electronics cooling.	Modern promising applications in the field of microtechnology (micro and nano technology).	1- Assoc. Prof. Abd Alrahim Dohina. 2- Prof. Gamal Sultan. 3- Dr. Asmaa Alawady.	Academic year	Self-financed
13	Water treatment .	Water and environment.	1- Prof. Magdy Abou Rayan. 2- Prof. Berj Jebh Jian. 3- Dr. Yahia Fouda.	Academic year	Self-financed
14	Water desalination.	Water and environment.	1- Prof. Hassan Mansour. 2- Prof. Magdy Abou Rayan. 3- Prof. Ahmed Hamed. 4- Dr. Mohamed Ragab.	Academic year	Self-financed
15	Reducing water losses and rationalizing its distribution and utilization.	Water and environment.	1- Prof. Lotfi Rabie. 2- Assoc. Prof. Mohamed alnagar. 3- Prof. Alshafie Ziedan.	Academic year	Self-financed
16	Anti polution regulations	Water and environment.	1- Prof. Berj Jebh Jian. 2- Assoc. Prof. Emad Alnigery. 3- Dr. Osama Hamed.	Academic year	Self-financed
17	Waste recycling.	Water and environment.	1- Prof. Salah Elemam. 2- Prof. Farouk Okasha. 3- Assoc. Prof. Mohamed alnagar.	Academic year	Self-financed
18	Climate change and its environmental impacts.	Water and environment.	1- Prof. Salah Elemam. 2- Prof. Farouk Okasha. 3- Assoc. Prof. Emad Alnigery. 4- Prof. Mohamed Mansour.	Academic year	Self-financed

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