

Word by Mr. President of Benha University

Benha University interested in continuous progress to complete all activities forms of scientific research quality aiming to qualify innovator researcher to raise scientific, cultural and social construction for Egyptians; drive the research plan to serve the community and environment and contribute in pushing development corridor.

The University is also working to establish centers of excellence providing advanced scientific and research services to the local and regional community with focusing on qualify specialized staff, work to support the fields that the University are characterized and meet the needs of labor market.



From this point I seek to spare no effort in order to implement the strategic plan of Benha University (2011 -2015) as soon as possible.

The completion of the research plan comes from the early efforts of the University to implement its strategic plan within the framework of scientific research quality.

No doubt, activity, has been reached by Sector of Post Graduate Studies and Researches, is a result of efforts by the Sector head and the work team of formulating the research plan of the University and its faculties. It gives me much pleasure to present such plan as a framework to the University and its faculties within the next five years.

I thank everyone who participates in realizing such plan wishing to the University, its staff, and student of Post Graduate Studies and Researches every progress and success in performance the work system within the Sector.

The President of the University Prof. Mohamad Safwat Zahran

Word by vice-president for Post Graduate Studies and Researches

The scientific research is the real engine of economic progress and the main element for the development and raising standard of the people particularly at the shadow of the economy based on knowledge and competitive.

Efforts have gathered to make the scientific research message in Egypt includes: scientific and technology knowledge; achieving excellence, competition and international participation; stimulating of innovation; and developing self-abilities throughout the activation of national strategy of scientific research as well as development and restructure such research to contribute in modernizing and development service and productive sectors . From this point the Research Plan of Benha University (2011-2015) has been activated.



The main goal of such Plan includes; supporting the efforts of economic and social development, solving national problems to realize the scientific research quality which represents the third dimension of the strategic plan of the University and keeping up with the national strategy of scientific research with its variety fields which represents in the new and renewable energy; resources, management and desalination of water; medical science of kidney disease, liver and tumors; science of biotechnology and Nanotechnology; science of Agriculture and food resources; and technology of information, communication and remote sensing.

Such plan also contributes in creation of new knowledge to develop the scientific research and put Benha University at the international stage as a center of research excellence.

The vice-president for Post Graduate Studies and Researches Prof. Suheir Shaarawi Gomaa

The Research Plan Teamwork

•Prof. Suheir Shaarawi Gomaa

The vice-president for Post Graduate Studies and Researches

•Prof. Alaa El-Sayed Abdel-Ghaffar

Executive director of the Projecst Management Unit

•Prof. Amany Abdel Rahman Abbas

Professor at Faculty of Veterinary Medicine

•Prof. Nermeen Mahmoud Adly

Assistant Professor at Faculty of Medicine

• Deputies of faculties for Graduate Studies and Researches

Prof. Mohamed Salah (dean of the	Faculty of Computers and
faculty)	Information
Prof. Azza Seiyam	Faculty of Arts
Prof. Muhammad Anwar	Higher Institute of Technology
Prof. Mohamed Atia Metwally	Faculty of Veterinary Medicine
Prof. Osama Sanad	Faculty of Medicine
Prof. Mohamed El-Fakhrany	Faculty of Science
Prof. Maher hasaballah	Faculty of Agriculture
Prof. Osama Abdul Latif	Faculty of Engineering
Prof. Mahmoud Abdel Sabour	Faculty of Nursing
Prof. Ashraf Abdel-Kader	Faculty of Education
Prof. Hussein Abaza	Faculty of Physical Education
Prof. El-Sayed Fouda	Faculty of Law
Prof. Ali Abdul Wadud	Faculty of Specific Education
Prof.Al-Saeid Shoaib	Faculty of Commerce

Contents

Index	Pages
1-Vision and mission of Benha University	1
2-Introduction	2
3-The aim of the research plan	2
4-The strategic aims of the research plan of the University	3
5- Linking the research plan with the strategy of the University	3
6-Methodology of the plan formulation	7
7-General direction of the plan	7
8- The Main elements of the plan:	8
A) Supporting and rewarding the research excellence whatever it is found	8
B) determining the areas of the potential, emerging and current research excellence	9
C) Building a new research bridges through the pluralism of fields, cooperation and partnership	10
D) Enhancing the areas of leadership and research excellence	10
9-Obstructions and risks	10

10- Implementation of the plan :	
A) Participants in the Implementation of the plan	11
B) Elements of the Implementation of the plan	12
C) Proceeding the Implementation of the plan	12
D) Reviewing the research plan	12
11-Pivots of the research plan	13
12-Appendixes :	18
A) Sector of Medical Sciences (research fields):	19
Executive plan of the Faculty of Medicine	23
❖ Executive plan of the Faculty of Nursing	31
B) Sector of Engineering Sciences (research fields):	40
❖ Executive plan of the Faculty of Engineering	46
❖ Executive plan of Higher Institute of Technology	92
Executive plan of the Faculty of Computers and Information	102
C) Sector of Basic Sciences (research fields):	110

* Executive plan of the Faculty of Veterinary Medicine	120
Executive plan of the Faculty of Agriculture	156
Executive plan of the Faculty of Science	168
Executive plan of the Faculty of Physical Education	187
D) Sector of Human Sciences (research fields):	199
❖ Executive plan of the Faculty of Arts	205
Executive plan of the Faculty of Education	217
Executive plan of the Faculty of Specific Education	226
E) Sector of Social Sciences (research fields):	239
Executive plan of the Faculty of Commerce	247
Executive plan of the Faculty of Law	257