

**Kingdom of Saudi Arabia**

**Ministry of Education**

**University of Bisha**

**College of Medicine**



**المملكة العربية السعودية**

**وزارة التعليم**

**جامعة بيشة**

**كلية الطب**

**University of Bisha  
College of Medicine  
Scientific Research Action**

<b>General information</b>	
<b>Institution</b>	<b>University of Bisha</b>
<b>College</b>	<b>College of Medicine</b>
<b>Program Name</b>	<b>Bachelor of Medicine and Bachelor of Surgery (M.B., B.S.)</b>
<b>Qualification Level</b>	<b>Bachelor</b>

Approved by University Council on: .....

Meeting NO (.) .....

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## **Introduction**

Teaching, research and community service are the three main pillars of the University functioning. The University of Bisha has robust programs for providing the above services. College of Medicine, University of Bisha (UBCOM) has been providing all the above cited services right from its inception. UBCOM strategic goal for research is in alignment with strategic goals of the University and vision 2030 of the Kingdom.

Scientific research is one of the fundamental aspects included in the mission, goals and graduate attributes of the UBCOM. It is also part of program learning outcome (PLOs) aligned with SQF and Saudi MED (Table 1).

## **UBCOM Mission:**

We are committed to graduate competent, professional and lifelong learner physician through the “*BISHA*” model:

**B**-Best medical education environment.

**I**-Intersectoral and community participation.

**S**-Scientific research.

**H**-Holistic health care approach.

**A**-Accountability and leadership.

## **Goals:**

1. Graduation of competent doctors of tomorrow.
2. Conduction and use of biomedical research on the priority health concerns of the society to improve health.
3. Provision of high-quality holistic health care.

## **Values:**

1. Teamwork
2. Lifelong learning
3. Excellence and innovation
4. Accountability and equity
5. Professionalism and leadership
6. Respect of religious and societal values

**Table 1: Program learning Outcomes (PLOs) aligned with National Qualification Framework (NQF) and Saudi MED.**

<b>Table.1 Program learning outcomes (PLOs) aligned with the NQF and Saudi MED</b>		
<b>NQF</b>	<b>PLOs</b>	<b>Saudi MED</b>
<b>Knowledge</b>		
<b>K1</b>	Describe human life cycle explaining the normal and pathological structure and function, in relation to its biochemical, molecular and cellular mechanisms that are essential for maintaining human body homeostasis.	1.1, 1.2, 1.3, 1.7
<b>K2</b>	Describe common human diseases particularly of the national and local community, their epidemiology, etiology, pathophysiology, clinical presentation, management, complications, prognosis and the financial burden.	1.8, 1.4, 1.5, 1.9
<b>K3</b>	Explain Principles and role of evidence-based, spiritual and prophetic medicine, safe, ethical professional medical practice and biomedical research with particular attention to various modalities of treatment of different diseases including the principles therapeutics relevant to clinical practice.	1.6, 1.10, 1.11, 2.1, 7.1, 15.2
<b>K4</b>	Discuss Saudi and international health system with particular attention to patient advocacy, principles of epidemiology and systematic approach of screening to reduce the incidence and prevalence of diseases.	9.1, 8.1
<b>Skills</b>		
<b>S1</b>	Evaluate factors affecting the health and illness patterns and the perception among populations, applying principles of amelioration of suffering and disability, rehabilitation and palliative care, prevention and control of communicable and non-communicable diseases within the priorities of the national health care system	6.4, 6.6, 7.5, 9.3, 9.2, 9.4, 8.1, 8.2, 8.3, 13.7, 14.4
<b>S2</b>	Apply principles of ethics including Islamic values, professionalism, patient safety and management of clinical risks with special attention to principles and ethics of biomedical research.	7.1, 7.4, 16.1, 16.2, 16.3, 16.4, 13.1, 13.2, 13.3, 13.4, 14.1, 14.2, 14.3, 12.1, 12.2, 14.4
<b>S3</b>	Demonstrate communication, team, leadership, clinical, professional, critical, analytical, reasoning and judgement skills in dealing with patients, their families, self, colleagues, health teams, health system and the community	2, 3.4,4.1, 4.2, 6.7, 11.2, 11.1,11.3, 11.4, 6.5, 10.4
<b>Values</b>		
<b>V1</b>	Manage common medical conditions and emergencies using holistic approach with recognition (recognizing) of their prevention and impact on the individual, families and the society	6.1, 6.2, 6.3, 5.1, 5.2, 9.5, 9.7, 3.1, 3.2, 3.3, 3.2, 3.3

<b>V2</b>	Estimate societal and global health issues appraising the role of national and international health organizations including guidelines on management of pandemics with particular attention to Hajj and Umrah	9.6
<b>V3</b>	Integrate communication, leadership and management skills showing professional and ethical behavior in dealing with patients, their families, self, colleagues, health system and the community	7.2, 7.3, 13.5, 13.6, 15.1, 15.2,15.3, 15.4, 15.5, 17.1, 17.2, 17.3, 6.8, 7.6, 10.1, 10.2, 10.3, 10.5, 14.4,

**Research Objectives in UBCOM:**

1. Align the college research mission, goals, priorities and procedures with the University strategic research plan.
2. Encourage faculty to publish especially in high impact factor Journals
3. Encourage faculty to conduct research in the priority areas by the formulation of research groups.
4. Provide research support to faculty and students
5. Provide mentorship for students and junior faculty in research.
6. Promote opportunities to identify and secure funding resources for faculty and students.
7. Engage faculty in community directed research project.
8. Support joint authorship between faculty and external authors.

**The following are the research priority areas of UBCOM:**

1. Public health; Infectious diseases, non-communicable diseases, emerging health issues, psychosocial aspects of quality of life.
2. Medical education; Curriculum development, Innovative teaching strategies and assessment methods
3. Molecular biology and genetics; Molecular basis of disease, common genetic disorders, congenital malformations and molecular diagnosis.

<b>Table.2 Relationship of UBCOM research goals with PLOs and KPIs with identified Responsible units/persons and target benchmarks</b>					
<b>Research Objectives</b>	<b>UBCOM-PLOs</b>	<b>Initiatives</b>	<b>KPIs</b>	<b>Responsibility</b>	<b>Target Benchmark</b>
Align the college research mission, goals, priorities and procedures with the University strategic research plan.	K3, K4, S2, V3	Provide an orientation program for faculty and staff in collaboration with deanship of research	19, 20 , 21	Vice Deanship of Research /Research Committee	High Publication rate in recognized Research databases
Encourage faculty to publish especially in high impact factor Journals	K3, K4, S2, V3	Identify high impact factor academic journals and orientate accordingly.  Establish a yearly Dean’s award for faculty who publish in high impact factor journal.	19, 20 , 21	Vice Deanship of Research /Research Committee/Heads of The Departments	To publish 60-80 research articles annually in peer reviewed reputable scientific data bases in accordance with University of Bisha scientific research and publications guidelines.
Provide research support to faculty and students	K3, K4, S2, V3	Provide resources including software, data bases and laboratories.	19, 20 , 21	Vice Deanship of Research /Research Committee/Mentors/Students	Number of Funded Research Projects
Provide mentorship for students and junior faculty in research.	K3, K4, S2, V3	Establish Research mentorship projects	19, 20 , 21	Research Committee/ Faculty Members	Research Published by Junior faculty and Students
Promote opportunities to identify and secure funding resources for faculty and students.	K3, K4, S2, V3	Facilitate training on how to write a proposal to access funding	19, 20 , 21	Vice Deanship of Research /Research Committee/ Faculty members/Students	Creation of facilities for research from extra mural grants
Engage faculty in community directed research project.	K3, K4, S2, V3	Provide an orientation on community based research.	19, 20 , 21	Vice Deanship of Research /Research Committee/ Faculty Members	Numbers of Community Research projects
Support joint authorship between faculty and external authors.	<b>K3, K4, S2, V3</b>	Develop an agreement with other institutions to collaborate both nationally and internationally.	<b>19, 20 , 21</b>	<b>Vice Deanship of Research /Research Committee/ Faculty Members</b>	Numbers of Multi centered Research projects

In addition to the above, the following information will be collected and analyzed every academic year. This will give an opportunity to identify strengths and challenges of the research mission of UBCOM.

1. Number of researches in ISI journal per faculty per year.
2. Number of research related to the college Research priorities.
3. Percentage of Utilization of research supportive resources.
4. Satisfaction of students and junior faculty on research mentorship.
5. Percentage of junior faculty involved in research projects
6. Number of researches published by undergraduate students
7. Number of research projects directed to community.
8. Number of refereed publication co-authored by external researcher.

#### **Target Benchmarks:**

1. To publish 60-80 research articles annually in peer reviewed reputable scientific data bases in accordance with University of Bisha scientific research and publications guidelines.
2. Create multidisciplinary focused research groups (MFRGs) including students to conduct research in the priority areas.
3. To collaborate with national and international organizations to facilitate interdisciplinary research in cutting edge areas
4. To explore funding opportunities within and outside the University