

Executive plan for scientific research for the Department of Biology

1443-1444

Introduction:

The pursuit of scientific inquiry is a paramount aim of the department, college, and university. The Department of Biology boasts a distinguished faculty comprising experts in diverse research domains who actively engage in numerous initiatives that receive funding from the university's Deanship of Scientific Research, international cooperation projects supported by the Ministry of Education, and institutional funding projects backed by the Ministry of Education. Over the recent years, the researchers affiliated with the department have been the recipients of numerous international publishing awards.

The Department of Biology is recognized for its global research collaborations with multiple research groups, which enhance the scientific productivity and elevate the university's ranking. The integration of international scientific collaboration via research and collaborative initiatives constitutes a valuable augmentation to the department. The facilitation of knowledge transfer is evidenced by advancements in scientific and research pursuits that align with contemporary and enhanced global standards.

In order to serve as a guide for academic and scientific activities that may be invested to support and promote scientific research and innovations, the Department of Biology hopes to improve the academic programs and link them with scientific research. This will allow the Department to fulfil its objective of enhancing the academic programs.

Executive plan for scientific research for the Department of Biology

| ITEM | Department | Collage | University | Compatibility |
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| Vision | To lead the way in the areas of education, scientific research, and community service, not only in our immediate locality but also on a regional and global scale. As a pioneer in these fields, we are committed to utilizing innovative and cutting-edge technologies and approaches to provide high-quality education, produce groundbreaking research, and deliver impactful community service. | To provide access to world-class education, scientific research, and community service that meet or exceed national and international standards for excellence. We are committed to ensuring that our programs are designed and delivered in a manner that promotes inclusivity and diversity, and that our facilities and resources are state-of-the-art and well-equipped to support the needs of our students, faculty, researchers, and community members. Our goal is to provide an environment that fosters innovation, critical thinking, and lifelong learning, and that prepares individuals to be leaders in their respective fields. | Our aim is to achieve excellence in teaching and research and to disseminate knowledge that serves the betterment of our homeland, Islam, and humanity at large. We strive to uphold the highest standards of academic rigor, intellectual inquiry, and ethical conduct, and to cultivate a culture of excellence that inspires our students, faculty, and researchers to achieve their full potential. | Our institution is committed to achieving excellence in scientific research on a local, regional, and global scale. We strive to push the frontiers of knowledge by conducting innovative and impactful research that addresses the pressing challenges facing society and contributes to the betterment of humanity. |

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| <p>Mission</p> | <p>The biology department is committed to preparing distinguished graduates in Biology who can join the labour market by providing them with the basic and Applied Sciences, refining their scientific and intellectual skills, and preparing highly qualified researchers who can innovate to achieve the mission of the College and the University. This will be accomplished by providing the students with the basic and Applied Sciences, refining their scientific and intellectual skills, and preparing highly qualified researchers who can innovate.</p> | <p>Provide renowned academic programs certified in basic sciences and their applications to qualify national cadres to satisfy development needs and localize technology to effectively contribute to scientific research and community service.</p> | <p>High-quality academic programmes and high-impact research in a stimulating environment, well-governed administrative systems, advanced technology, sustainable resources, and effective partnerships to produce competitive outputs that meet labour market needs, build knowledge economy, and serve the local and global community.</p> | <p>1- High-impact scientific research via exciting environments, well-governed administrative procedures, modern technologies, and well-developed infrastructures. 2- Deanship of Scientific Research Initiatives enable national and international collaborations to produce competitive outputs that promote a knowledge economy and serve the local and global communities.</p> |
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Objectives:

- 1- Promoting faculty and researcher innovation.
- 2- Enhancing research infrastructure and fostering creativity.
- 3- Increasing biology department collaboration with other college and university research departments.
- 4- Encouraging scientific research to solve community issues and support Kingdom development.
- 5- Encouraging research areas to apply for Deanship of Scientific Research Initiatives (Research projects, Research Groups, and International collaborations) to support scientific accumulations in the department's specialization's.

| Objective | Program/Initiatives/Activities | Responsible of Action | Key performance indicator | Target performance level | Implementation timeline | Risk and Assumption |
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| Promoting faculty and researcher innovation. | <ol style="list-style-type: none"> 1. Providing financial assistance to those who want to attend scientific conferences and seminars. 2. Reducing the number of classes that a faculty member is required to teach. 3. Support the idea of the student graduation projects to be more applicable. (https://units.imamu.edu.sa/deanships/gce/Pages/projects.aspx) 4. Increase incentives for excellence in global publishing (https://imamu.edu.sa/Imamaward/Pages/Pages/Scientific.aspx) | <p>Head of The Department</p> <p>Deanship of Scientific Research</p> <p>Deanship of Innovation and Entrepreneurship</p> | <p>1-Each member Apply for 2 to 3 of Conferences and Seminars per year</p> <p>2-Submission of five papers in Q1 and Q2 journals per year</p> | <p>1- Attending a minimum of 2 conference and workshops for each Researcher</p> <p>2- Number of Scientific Seminars in the Department</p> <p>3- Number of Publications in Q1 and Q2 (250)</p> | 1443-1444 (depending on Funds initiatives) | Shortage of available funds |
| Enhancing research infrastructure and fostering creativity. | <ol style="list-style-type: none"> 1- Improving the infrastructure and resources for scientific research. 2- Combine other departments lab. In one large central lab. 3- Making scientific research agreements with universities within the Riyadh region | <p>Head of The Department</p> <p>Dean of the faculty</p> | <p>1- Meeting of All the head the other departments</p> <p>2- Meeting of dean with the dean of the other</p> | <p>1- Number of new labs added with good types of equipment (3 LABS)</p> | 1443-1444 | Administrative bureaucracy |

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| | | | collaborated universities 3- Announcement of new Lab. core facilities | | | |
| Increasing biology department collaboration with other college and university research departments | <p>1- Joint Research group program https://units.imamu.edu.sa/deanships/SR/announcements/Pages/%D8%A7%D9%84%D8%AF%D9%88%D8%B1%D8%A9-%D9%A1%D9%A4.aspx).</p> <p>2- Joint Research projects funded by DSR/IMSIU https://units.imamu.edu.sa/deanships/SR/announcements/Pages/news95.aspx).</p> <p>3- Postgraduate students support program.</p> <p>4- Initiating a new grants programs based on multidisciplinary specialization (biology-chemistry and Physics)</p> | <p>Head of The Department</p> <p>Dean of the faculty</p> <p>Deanship of Scientific Research</p> | <p>1- Number of Joint Research groups</p> <p>2- Number of Joint Research projects funded by DSR/IMSIU.</p> <p>3- Postgraduate students support program.</p> | <p>1- Number of Joint Research groups (6)</p> <p>2- Number of Joint Research projects funded by DSR/IMSIU. (4)</p> <p>3- Postgraduate students support program. (2)</p> <p>4- New multidisciplinary research fund</p> | | <p>Shortage of available funds</p> <p>Administrative bureaucracy</p> |

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| <p>Encouraging scientific research to solve community issues and support Kingdom development</p> | <ol style="list-style-type: none"> 1- Institutional Finance program. 2- Research group program https://units.imamu.edu.sa/deanships/SR/announcements/Pages/%D8%A7%D9%84%D9%85%D8%B4%D8%A7%D8%B1%D9%8A%D8%B9-%D8%A7%D9%84%D8%A8%D8%AD%D8%AB%D9%8A%D8%A9-%D8%A8%D8%A7%D9%84%D8%AC%D8%A7%D9%85%D8%B9%D8%A9-%D8%B6%D9%85%D9%86-%D8%A8%D8%B1%D8%A7%D9%85%D8%AC-%D8%AF%D8%B9%D9%85-%D8%A7%D9%84%D8%AC%D8%A7%D9%85%D8%B9%D8%A9-%D9%84%D8%A3%D9%88%D9%84%D9%88%D9%8A%D8%A7%D8%AA%D9%87%D8%A7-%D8%A7%D9%84%D8%A8%D8%AD%D8%AB%D9%8A%D8%A9.aspx 3- Encourage obtaining support from external parties through cooperation with the industrial sector. 4- Enhancing participation in research priority program. 5- Supporting postgraduate students' projects with applied priority. 6- Addressing the concerned ministries and inquiring about the nature of the problems and challenges they face. | <p>Head of The Department Dean of the faculty Deanship of Scientific Research Deanship of Innovation and Entrepreneurship</p> | <ol style="list-style-type: none"> 1- Number of Institutional Finance program. 2- Research group program . 3- Encourage obtaining support from external parties through cooperation with the industrial sector. 4- Enhancing participation in research priority program . 5- Supporting postgrad | <ol style="list-style-type: none"> 1- Institutional Finance program (5) 2- Research group program (18) 3- support from external parties through cooperation with the industrial sector (1) 4- Enhancing participation in research priority program (4) 5- Supporting postgraduate students' projects with applied | | <p>Administrative bureaucracy</p> |
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| | | | uate students' projects with applied priority | priority (1) | | |
| | | | 6- Interview with representatives of the ministries | | | |
| Encouraging research areas to apply for Deanship of Scientific Research Initiatives (Research projects, Research Groups, and International collaborations) to support scientific accumulati | <p>1- International Partnership Program (https://units.imamu.edu.sa/deanships/SR/announcements/Pages/news55.aspx)</p> <p>2- Publication incentive program</p> <p>3- Research group program.</p> <p>4- Research projects program.</p> <p>5- Support the staff members to apply in the EU research projects</p> <p>6- Encourage of the departments staff to apply in the international prizes</p> | <p>Head of The Department</p> <p>Dean of the faculty</p> <p>Deanship of Scientific Research</p> <p>Deanship of Innovation and Entrepreneurship</p> | <p>1- International Partnerships Program</p> <p>2- Publication incentive program</p> <p>3- Research groups program</p> <p>4- Research projects program</p> <p>5- Application of 2 staff members in EU project</p> | <p>1- Number International Partnerships Program (5)</p> <p>2- Number Publication incentive program (40)</p> <p>3- Number Research groups program (18)</p> <p>4- Research projects program (4)</p> | | Shortage of available funds |

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| ons in the department's specializati on's | | | 6- Applicati on of 2 staff members in internatio nal prize | 5- Success of one EU research fund in the departmen t. 6- Winning of staff member in any internation al prize | | |
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| Scientific Research Committee | | | |
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| Meeting No. 1/2022 Date: 15/12/2022 | | | |
| Chairman Dr Moohammed M. Alzahrani | Member Dr Amr Elkelish | Member Dr Moodi S Alsubeie | Member Dr Lina M Alneghery |

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| Council / Committee | Department council |
| Reference No. | Meeting No. 18/2022 |
| Date | 18/12/2022 |
| Head of the Department | Dr. Hassan Ahmad Abdullah Rudayni |