Ministry Of Education
University of Bisha
Faculty of Science





Chemistry Department Development and Quality Committee قسم الكيمياء لجنة التطوير والجودة

Chemistry ROGRAM OPERATIONAL PLAN

2022-2023

UNIVERSITY OF BISHA FACULTY OF SCIENCE BACHELOR OF SCIENCE IN CHEMISTRY

Ministry Of Education
University of Bisha
Faculty of Science





Chemistry Department Development and Quality Committee

فسم الكيمياء لجنة النطوير والجودة

Program Mission

To prepare qualified students in Chemical science by providing a unique educational curriculum that is in line with the needs of the labor market, promoting scientific research, and effectively contributing to community service.

The Program mission can be simplified as:

PMI: Prepare qualified students in Chemical science.

PM2: Scientific research

PM3: Community services.

PM4: Address the evolving needs of society and labor market.

Program operational goals

- Equip graduates with scientific knowledge, practical, interactive skills, creative and competitive abilities.
- 2 Improve quality and quantity of scientific research in Chemical science.
- 3 Enhance community participation and partnership, through providing appropriate education and counseling services.
- 4 Qualifying the program to obtain internal and external program accreditation.

Alignment between program operational goals and program mission

		Program Mission							
		PMI	PM2	PM3	PM4				
als	POG 1		٧						
Program operational goals	POBJ 2			٧					
Program crational go	POBJ 3	٧							
obe	POBJ 4				٧				

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Goal	Specific objectives
Equip graduates with scientific knowledge,	 Promote excellence and opportunities in Chemical practice
practical, interactive skills, creative and	based on evidence.
competitive abilities.	Encourage improvement and creativeness among the
	students in various fields of Chemistry.
	> Develop teaching strategies appropriate to student learning.
	Developing the student counseling system at the program.
	Upgrading the level of student services and activities.
	Enhancing loyalty and institutional and national affiliation
	among program students.
	> Implement a risk assessment and management process.
	➤ Inspire innovation and creativity among college students in
	a variety of fields and honor their achievements.
	 Maintain positive, supportive, and motivating academic
	environment for program staff and students.
Improve quality and quantity of scientific	➤ Improving the quality of scientific research and innovation
research in Chemical science.	according to development priorities.
	Providing research support to faculty and students.
	Develop collaborative research opportunities.
Enhance community participation and	➤ Highlight the role of the program in community service by
partnership, through providing appropriate	providing advisory consultant, education, and any services
education and counseling services.	related to solving Chemical and environmental issues.
	 Disseminate of Chemical and environmental hazards
	education
	 Encourage program staff and students to participate in
	workshops related to Chemical and environmental hazards.
	"orkshops related to Chemical and environmental hazards.

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Chemistry Department Development and Quality				قسم الكيمياء لجنة النطوير والجودة					
Committee				لجنه النظوير والجودة					
		A	Monitor and document communit	y services using					
			structured digital database.						
Qualifying the program to obt		>	Incorporate continuous evaluation and a culture of quality						
and external program accredit	tation.		into the program's operations.						
		>	Designing an effective quality assurance system using a						
			systematic approach.						
			Obtaining full accreditation for the program and meeting						
			quality assurance requirements.						



Goal 1:- Equip graduates with scientific knowledge, practical, interactive skills, creative and competitive abilities.

Objectives	Projects/ Initiative	Action	Requireme nts Resource/ Support	Primary Responsible	Follow up Responsibility	OP. KPI	OP. KPI Target	Completion Date
Encourage improvement and creativeness among the students in various fields of Chemistry.	Ensure Periodical systematic review of the program.	Establish a structured working schedule for the Chemistry program curriculumcommittee. Biannually, the Chemistry program curriculum committee nominates andapproves independent reviewers. Independent reviewers will submit a final report to the curriculum committee. The curriculum committee sends reviewers' recommendations to the quality committee. Reviewers' comments are reviewed by the quality committee, and it ensures that the university's quality guidelines are followed.	Curriculum Committee. Curriculum Committee. Executive management support. Faculty Quality unit	Chemistry program Curriculum Committee	Operational plans follow up steering committee	Number of programs curriculum committee meetings per year. Number of independent reviewer reports.	2 independent reviewer reports for program specification review and one for each dominate program courses	6-2023 8-2022

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		The curriculum committee will ensure that the recommendations of the reviewers are implemented.						
		Chemistry program curriculumcommittee implements the action plan, and course management process.						
		Enhance structured schedule meeting for advisory committee.						
		The Advisory committee will submit a final report to the curriculum committee.						
		The curriculum committee develops an action plan based on advisory committee recommendations.						
		Monitor the implementation of stakeholders' survey action plans.	UNI	VERSITY OF	BISHA			
e	ncorporate evidence-based Chemical	Monitor course reports each semester to guarantee that information is kept	Development and quality committee	Curriculum Committee.	Operational plan follow up steering	Percentage of courses applying	50%	
p	practices into a variety of	current and evidence- based practice is			committee	evidence-based Chemical		12-2022
	Chemical lisciplines.	implemented in different courses in Chemistry. Present a review report				practices into a variety of Chemical disciplines.		

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	quality unit for evaluation, then pass it along to the curriculum committee. Ensure the implementation of the action plan.						
Encourage the final year student and graduated student for training.	Conduct an orientation workshop for field training. Evaluate the students,			Operational plan follow up steering committee	Percentage of student participate in Field training	50%	6-2023
training.	faculty, and filed staff about field experience training:	Orientation workshop concerning	Field training committee		Percentage of faculty who guided students in field training.	100%	5-2023
					-Satisfaction of students regarding field of experience	3.7	4-2023
Ensure the efficacy of learning resources	Have periodic meetings with the Library and Learning Resources Committee and associated stakeholders to recognize educational necessities.	Support from Deans' office and Students & Academic Affairs	Library and Learning Resources committee	Operational plan follow up steering committee.	Library and Learning Resources Committee meeting minutes	2 small meeting	4-2023
	Assess faculty and stakeholders' satisfaction with learning resources. per year.	Institutional assessment and evaluation unit	Manager of Students Affaires staff	Operational plan follow up steering committee	faculty and stakeholders' satisfaction with learning resources	4.0/5.0	5-2023

Development Chemistry Operational Corrective Analyze the results of the Approved stakeholders' survey and and quality unit plan follow up action plan 6-2023 program action plan create an action plan to steering surveys monitor the execution of committees committee Academic the plan. affairs Students' Create a comprehensive Chemistry Operational Chairperson of 83.0% student orientation program E plan follow up 9-2022 overall Library and learning steering evaluation of program that educates Learning students on the effective committee committee learning Resources use of resources. and learning resources Committee including Blackboard, resources help request systems, and committee digital library resources. **Operational** Number of At least 8 Encourage Encourage Develop a mechanism for HOD improvement students and rewarding students. plan follow up rewards rewards at and creativeness staff of the College Dean steering 4-2023 the level of among the Chemistry University Student committee program, student's affairs affairs programto college and students in various fields of actively engage deanship committee university in research and Chemistry. innovation UNIVERSITY OF BISHA within creative fields 3.5/5 Develop Monitoring the Annually evaluate the Students Operational Students' effectiveness of overall teaching Affaires staff plan follow up level of satisfaction steering satisfaction strategies teaching, among stakeholders and Support from the head of the appropriate to learning, and instructors with the committee regrading student learning learning resources. department learning assessment methods resources Submit PLO Assessment report with action plan to

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curriculum sub-			9-2022
committee.			
Tracking of students'			
progress through yearly			
GPA			То
Create an action plan			
based on the result.			5-2023
			3 2023
Create a timetable for			
staff development that			
includes all available			
teaching and assessment			
sessions.			
D: :			
Disseminate professional			
development			
opportunities for faculty.			
Receive feedback from			
faculty on the attendance			
of the workshops.			
or the workshops.			
Develop a Schedule for			
program exit test for the			
student in the last level.			
Develop an action plan			
based on the result.			
Follow up the			

implementation of the action plan. Develop a plan for Curriculum Operational Percentage of 100% of 9-2022 Ensure proper Chemistry tanning of training faculty staff Committee. faculty who staff attend plan follow up program regarding teaching and curricula steering To 5-2023 academic staff were peer learning strategies. committee reviewed. regarding committee advanced Evaluate the impact of teaching and training on academic staff learning teaching performance. strategies. Facilitate the Conduct orientation to Attendance of 100% of new 9-200 Developing the provision of students about academic new students in students student advising and counselling. attend counseling academic, social advising and counselling workshops. system at the and career counselling and orientation program advising services workshop Conduct students' survey 3.5/5 4-2023 to students. Student Operational evaluation of to evaluate the effectiveness of academic Development Students' plans follow up academic and a advising and counselling and quality Affairs steering career process per semester. committee committee counselling. Corrective Corrective 4-2023 Develop an action plan based on data analysis. action plan action plan Conduct an annual Career Attendance of 100% of Survey analysis Counselling Day for all final year final year undergraduate students committee students in 5.2023 students attended by employers advising and attend and experts in labor counselling workshop. markets.

orientation workshop 9-2022 Upgrading the Develop and Improve the Activities plan 1 extracurricular activities update. level of student Extracurricular plan of Chemistry Operational Activities services and 5-2023 activities plan follow up programbased on PLOs report. 1 activities and in accordance with Plan annually steering 6-2023 University of Bisha committee Number of extracurricular activities. Students' Chemistry events affairs unit at program number of 15 6-2023 Review and approve of the college students student's extracurricular activities level affairs participants Plan. committee 70% of the students in the Format a student's teams Chemistry for implementation for program activities. Provide annual report regarding achieved activities. Satisfaction of students Evaluate students' 6-2023 reading satisfaction regarding 4.0/5.0 regarding the the extracurricular extracurricular activities plan. activities plan. 9-2022 Enhancing Encourage -Workshop workshops 5 workshops -Student meetings. loyalty and students to University -Students participation in student's affairs institutional and participate in small Meeting 3 small celebrations of national students' national national deanship Operational Meeting 6-2023 programs. affiliation among activities. plan follow up participation in

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program				Student	steering	celebration of	70% of	
students.				affairs	committee	national	students'	
				committee		programs	participation	
							in	
							celebration	
							of national	
							programs	
Implement a risk	Risk assessment	Draft risk management	College	Dean	Operational	Draft risk	Draft risk	9-2022
assessment and	and risk	strategy to cover	University	Associate	plan follow up	management	management	
management	management	academic, research,	Taskforce for	dean,	steering	plan	plan	
process.		community,	Risk	academic and	committee			
		administration, and	Management	student affairs				5-2023
		campus environment.						
		Review risk management		1 1				
		plan			4			
		Get the approval for the						
		risk management plan						
		Activate the risk						
		management plan		A				
Inspire	Provide new	Conduct orientation	Academic	students'	Operational	Percentage of	100%	10-2023
innovation and	faculty, staff,	program for faculty, staff,	advisor	affairs	plan follow up	new faculty and		
creativity among	and students an	and students.	Students affairs	committee	steering	students who		
college students	orientation		Appeal		committee	attended the		
in a variety of	program.		Committee			orientation.		
fields and honor		Monitor the effectiveness				Satisfaction of	4.0/5.0	
their		of the orientation program				faculty and	-	
achievements.		for faculty, staff, and				students who		10-2022
		students.				attended the		- 3 - 3 - 3
						Orientation		
						program.		
						Program.		

Improve Operational Conduct regular faculty College Dean HOD plan follow faculty's 80.0% 10-2022 approaches to satisfaction survey about University up steering satisfaction recruiting and HR committee survey about recruitment process. retaining recruitment engaged, process talented, and creative faculty and staff. Hire faculty with Assess yearly the needs Operational Ratio of HOD of Chemistry program student to plan follow diverse staff in relation to projected up steering 1:16 specialties and 5-2023 University HR students' number. committee nationalities Regularly monitor faculty/students' ratio vearly. Orient the faculty about faculty experience survey. Analyze data 100% **Improve** Faculty 5-2023 Academic Chemistry collected by the response rate Affairs/ faculty and staff Operational to complete program HOD Administration employee satisfaction survey. plan follow up faculty Assistant satisfaction. steering experience University HR survey. committee 9-2022 Develop an action Satisfaction 4.0/5.0 plan based on survey rate of faculty results. Develop a plan for 100% Proportion of 5-2023 teaching staff staff development based on their needs participating annually. each year in

					professional development activities.		
Maintain facult professional development activities.	Monitor the effectiveness of professional development activities	Development and quality committee	Training & development steering committee	Operational plan follow up steering committee	Percentage of faculty who perceived having access to enhancement opportunities	100%	9-2022 To 5-2023
Developing mechanisms for evaluating the performance of the department employees	assessment criteria.	College Dean University HR	HOD	Operational plan follow up steering committee	Faculty satisfaction with appraisal procedure.	3.5/5	5-2023

UNIVERSITY OF BISHA

Goal 2:- Improve quality and quantity of scientific research in Chemical science.

Objectives	Projects/ Initiative	Action	Requirements Resources/ Support	Primary Responsible	Follow up responsibility	КРІ	KPI Target	Comple tion Date
Improving the quality of scientific research and innovation according to development priorities.	Maintain and foster the orientation program about Research bylaws, policies and opportunities	Provide an orientation program for faculty and staff in collaboration with research bylaws, policies, and opportunities	Orientation program package that includes: PowerPoint presentation. Brochures. Handouts Roll outs. Information technology.	Chemistry program research committee	Operational plan follow up steering committee	Percentage of faculty who attend orientation sessions.	100%	9-2022 6-2023
	Address national research priorities	Encourage faculty to conduct research in the priority areas by the formulation of research groups. Disseminate information regarding the national research priority areas.	Guidelines for the formulation and functioning of research groups.	College research unit Deanship of scientific research	Operational plan follow up steering committee	Number of research related to the National Research priorities	1 -2 per year	9-2022 To 8-2023
	Encourage faculty to publish especially in high impact factor Journals	Identify journals related to Chemistry and Chemical Science with high impact factor and orientate faculty on this. Develop guidelines on how to identify predatory journals.	list high impact factor journal Guidelines for identifying predatory publications are available. The Dean's annual award for faculty	College research unit Deanship of scientific research	Operational plan follow up steering committee	The percentage of faculty published in journals with high an impact factor. Proportion	50%	9-2022 To 8-2023

who publish in high of full-time Establish a vearly Dean's impact factor members of award for faculty who iournals. teaching publish in high impact Research Unit staff with at factor journal. members. least one Dean's office research paper. Attendance of 9-2022 Providing Enhance Identify and orient faculty Data bases and College Operational 100% utilization research and staff on available literature required research unit research support plan follow up Chemistry to faculty and supportive are available in the Deanship of steering program To resources. resources for students. library. scientific committee faculty staff student and faculty Facilitate the access to research in the 6-2023 Orientation package available resources. orientation regarding available Chemistry program program resources. research List of available committee resources including software, data bases and laboratories. Participati 9-2022 Maintain Encourage faculty to Mentorship College Operational Participation research unit on of 2-4 mentorship for include students and program. of students in plan follow Satisfaction students students and junior iunior staff in their Deanship of To funded up steering faculty in research. research projects. survey tool. scientific per year committee research 6-2023 Student Research research projects Develop mentorship data base. programs to provide Faculty research Chemistry support and mentorship to data base. program the faculty and student. research committee List of funding Identify funding sources. College 100% 9-2022 Operational Attendance Promote research unit sources. opportunities to Disseminate information plan follow of Deanship of Provide training regarding sources of funds identify and Secure up steering Chemistry To scientific program

courses on how to research funding resources to faculty. faculty staff committee write a proposal to for faculty and 6-2023 attend Chemistry access funding. Facilitate training on how training students program to write a proposal to courses research access funding. regarding committee how to write a proposal to access funding College Operational Attendance of Attendance of 9-2022 Motivate Orient students about Orientation program research unit plan follow up Chemistry 80% of Undergraduate funding for publication for students on steering program program funding for students to publish and conference Deanship of student in the committee student. To presentations. publications and their work scientific orientation research conference program Establish criteria for the presentation. 6-2023 Deans' Award for Publication Chemistry **Publication** of 2Student Research undergraduate student program undergraduate ofpublications. Data Base. research undergraduat research paper committee e research paper 100% Provide an orientation on College Attendance Develop Participate faculty Orientation program Operational 9-2023 Attendance of on community-based research unit. plan follow up collaborative in community -led community-based ofChemistry steering Chemistry research research project. research. research. program opportunities. Deanship of committee program faculty staff To scientific Formulate research groups faculty staff Guidelines for in the that will undertake formulation and research in the orientation community research functioning of orientation program 6-2022 projects. community-based Chemistry program. research groups. program Orientation about funding research Formulate 4 research Research related to community Orientation program committee groups. related to funding groups that projects. will

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		for community projects.			undertake community		
		Community Service Unit.			research projects.		
Support and foster collaborative research among	Identify common areas of research interests for collaborative research	List of common areas of research interest.	College research unit	Operational plan follow up steering	Number of research that established	2 research papers	9-2023
male and female campuses.	among the two campuses. Disseminate information	Orientation program regarding the	Deanship of scientific research	committee	between two campuses		То
	regarding areas of interest to faculty among the two campuses.	common areas of interest among the two campuses.	Chemistry program				6-2023
	Facilitate data collection between the two campuses as collaborators	List of key persons to facilitate data collection amongst	research committee				
	cumpuses us conditions	the two campuses. A written plan for		l I			
		organization of international conferences between	ITY OF BISHA				
		the two campuses.					

.Goal 3:- Enhance community participation and partnership, through providing appropriate education and counseling services

Objectives	Projects/ Initiative	Action	Requirements Resources/ Support	Primary Responsible	Follow up responsibility	ОР. КРІ	OP. KPI Target	Completion Date
Highlight the role of the program in community service by providing advisory consultant, education, and any services related to solving Chemical	Identify the community and environmental needs	Communicate with various community agencies to identify their needs by the end of each academic year. Develop need assessment plan and based on survey feedback, community	College social responsibility Unit	Chemistry program social responsibility committee	Operational plan follow up committee members	Number of activities based on community needs.	-Report regarding community needs	9-2022
and environmental issues.	Activating community partnership with non-profit organizations and with the government and private sectors	Evaluate community needs plan. Develop community participation plan based on community needs. Review and approve Chemistry program community participation plan Encourage participation of program students in community participation activities. Encourage participation of program faculty members in community participation activities.		Chemistry program social responsibility committee	Operational plan follow up committee members	community participation plan participation of program students in community activities. participation of program academic in community activities.	Community participation plan 100% of program students 100% of program academic staff	9-2022 To 4-2023
Disseminate of Chemical and	Utilize social media to	Develop social media accounts (YouTube,	College social responsibility	Chemistry program social	Operational plans follow	Number of social media	At least 10 posts /	10-2022

environmental Facebook, Instagram, Unit responsibility up committee posts in the month announce. hazards education educate and and Snapchat) within the members community committee university system to interact with the activities target the general community population. Collaborate with Number of Chemistryprogram HOD community to submit short education 5 programs / educational material to programs that vear be posted on Chemistry lunched program websiteand through the social media accounts. social media Disseminate effective accounts environmental hazards educational materials via the Chemistry program social media account. Assess the effectiveness of the Chemical and environmental hazards education via public responses in social media UNIVERSITY OF BISHA College social Promoting the Encourage students and Chemistry Operational Schedule a plan for Encourage 9-2022 program staff and culture of program employees responsibility program social plan follow plan for program students to regarding the solving of up committee activities. volunteer work Unit responsibility program Chemical and participate in committee. members activities. among students To workshops related and employees environmental issues. participation 100% of to Chemical and of the program of program program environmental students in 5-2023 students Encourage students and hazards. community program employees to activities. participate and present

		workshops on Chemical and environmental hazards.				participation of program academic in community activities.	100% of program academic staff	
	Activating community partnership with institutions in The government and private sectors	Inventory of areas and places that can be established partnerships with it. Writing reports on activities and services provided to the community	College Dean	HOD	Operational plan follow up committee members	Number of partnerships. Reports on activities and services provided to the community	1 1 annual report	9-2022 To 5-2023
Monitor and document community services using structured digital database.	Utilization of community database for community activities	Develop an online database for students and alumni. Activate the automated online monitoring system.	College social responsibility Unit	Chemistry program social responsibility committee	Operational plan follow up committee members	Percentage of community activities which utilized the database	100% of planned activities	9-2022 To 5-2023

UNIVERSITY OF BISHA

Goal 4: Qualifying the program to obtain internal and external program accreditation.

Objectives	Projects/ Initiative	Action	Requirements Resources/ Support	Primary Responsible	Follow up responsibility	KPI	KPI Target	Completion Date
Incorporate continuous evaluation and a culture of quality into the program's operations.	Improve awareness of academic staff, nonacademic staff and students regarding quality culture and related practice.	Development and quality plan for training for academic staff and students Developing Quality management manual.	Developme nt and quality deanship	Developme nt and quality committee	Operation al plan follow up steering committee	Development and quality committee plan academic staff attend training courses. students attend training courses.	6 training courses 100% of all academic staff attend training courses. 70% of students attend training courses.	9-2022 4-2023
Designing an effective quality assurance system using a systematic approach.	Determine the processes necessary to develop the quality assurance management system initiative and implementation	Developing development and quality committee. Develop a plan for development and quality committee action plan. Developing development and quality related polices. -Developing Chemistry program plan for surveys assessment. Developing Chemistry program plan for following corrective actions plan. -Schedule for all Chemistryprogram quality related	Developme nt and quality deanship	Developme nt and quality committee	Operation al plan follow up steering committee	Development and quality committee plan .	Chemistry programplan for development and quality committee. Chemistry programplan for surveys assessment. Chemistry programplan for PLOs assessment. Chemistry programplan for PLOs assessment.	2021-2023

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		tasks						
		-reviewing						
		-PLOs assessment plan						
		-KPIs assessment plan						
Obtaining full	Follow up	-Schedule a plan for			-	1	Implementation of	2023-2024
accreditation	implementation of	implementing NCAAA	Development	Development	plan follow	Schedule a plan	100% of NCAAA	
for the	NCAAA	recommendation	and quality	and quality	up steering	for	recommendations	
program and	recommendation for		deanship	committee	committee	implementing		
meeting	obtaining full					NCAAA		
quality	accreditation					recommendation		
assurance								
requirements.				1/4				

