



## Annual Program Report

<b>Program Name:</b>	<b>PHARMACEUTICAL SCIENCES</b>
<b>Qualification Level:</b>	<b>7</b>
<b>Department:</b>	<b>---</b>
<b>College:</b>	<b>Pharmacy</b>
<b>Institution:</b>	<b>Najran University</b>
<b>Academic Year:</b>	<b>1440-1441H</b>
<b>Main Location:</b>	<b>Main campus, Najran University</b>
<b>Branches offering the Program:</b>	<ul style="list-style-type: none"><li>• .....</li><li>• .....</li><li>• .....</li></ul>

## Table of Contents

<b>A. Implementation of Previous Action Plan .....</b>	<b>3</b>
<b>B. Program Statistics.....</b>	<b>3</b>
1. Students Statistics (in the year concerned).....	3
2 . Cohort Analysis of Current Graduate Batch .....	4
3. Analysis of Program Statistics .....	4
<b>C. Program Learning Outcomes Assessment .....</b>	<b>5</b>
1. Program Learning Outcomes Assessment Results.....	5
2. Analysis of Program Learning Outcomes Assessment .....	6
<b>D. Summary of Course Reports .....</b>	<b>6</b>
1. Teaching of Planned Courses / Units .....	6
2. Courses with Variations .....	7
3. Result Analysis of Course Reports.....	8
<b>E. Program Activities .....</b>	<b>8</b>
1. Student Counseling and Support .....	8
2. Professional Development Activities for Faculty and Other Staff.....	9
3. Research and Innovation .....	9
4. Community Partnership.....	12
5. Analysis of Program Activities .....	13
<b>F. Program Evaluation .....</b>	<b>14</b>
1. Evaluation of Courses .....	14
2. Students Evaluation of Program Quality.....	15
3. Other Evaluations .....	16
4. Key Performance Indicators (KPIs) .....	18
5. Analysis of Program Evaluation .....	21
<b>G. Difficulties and Challenges Faced Program Management .....</b>	<b>22</b>
<b>H. Program Improvement Plan .....</b>	<b>22</b>
<b>I. Report Approving Authority .....</b>	<b>24</b>
<b>J. Attachments :.....</b>	<b>24</b>

## A. Implementation of Previous Action Plan

Considering the recommendations of previous year annual report, list the planned actions and their status.

Planned Actions	Responsibility of Action	Planned Completion Date	Level of Completion		If Not Completed	
			Completed	Not Completed	Reasons	Proposed Actions
1. Development of the follow up process in the academic advising system	Vice dean for academic affairs	End of 1441	√			
2. Increase number of post graduates students and/or employments percentage.	The dean and Vice dean for academic affairs	End of 1441	Partially completed		Due to Covid-19 pandemic	
3. Enhancement of students completion rate of the programs in minimum time.	Vice dean for academic affairs	End of 1441	In progress		Due to Covid-19 pandemic	
4. Increase the staff publications and attendances of symposia	The dean	End of 1441	√			
5. Revising the field training outcomes and sites	<b>Teaching and learning committee</b>	End of 1441	In progress		Due to Covid-19 pandemic	
6. Action plan or developing research program to engage students in research activities and train them on the research skills within the different departments	<b>College research unit</b>	End of 1441	In progress		Due to Covid-19 pandemic	

## B. Program Statistics

### 1. Students Statistics (in the year concerned)

No.	Item	Results
1	Number of students who started the program	<b>20</b>
2	Number of students who graduated	<b>8</b>
3	Number of students who completed major tracks within the program (if applicable)	
	<b>a. Not applicable</b>	
	<b>b.</b>	
	<b>c.</b>	
4	<b>a.</b> Number of students who completed the program in the minimal time	<b>8</b>
5	<b>a.</b> Percentage of students who completed the program in the minimal time (Completion rate)	<b>40%</b>
6	Number of students who completed an intermediate award specified as an early exit point (if any)	<b>NA</b>

7	Percentage of students who completed an intermediate award specified as an early exit point (if any)	NA
<p><b>Comment on any special or unusual factors that might have affected the completion rates:</b>          Comparing the current results with the results of the previous year, we see an increase in the graduation rate, but the program still needs:</p> <ol style="list-style-type: none"> <li>Increase learning resources</li> <li>Increase the number of faculty members, lecturers and technicians</li> </ol>		

## 2. Cohort Analysis of Current Graduate Batch

Student Categories		Total cohort enrollment	Withdrawn	Retained till year end	Not passed	Passed	Passing rate
Years							
Three Years Ago	M	20	3	17	0	17	85%
	F	0	0	0	0	0	0
	<b>Total</b>	20	3	17	0	17	85%
Two Years Ago	M	17	2	11	4	11	64.7%
	F	0	0	0	0	0	0
	<b>Total</b>	17	2	11	4	11	64.7%
Last Year	M	11	1	10	0	10	90.9%
	F	0	0	0	0	0	0
	<b>Total</b>	11	1	10	0	10	90.9%
Current Year	M	10	0	8	2	8	80%
	F	0	0	0	0	0	0
	<b>Total</b>	10	0	8	2	8	80%

### Comments on the results:

The number of graduates represents 40% of the number of students accepted in the cohort and the reason for this

- The poor level of students in some courses.
- Weakness in the English language among students

\* add more rows for further years ( if needed )

\*\* attach separate cohort analysis report for each branch

## 3. Analysis of Program Statistics

(including strengths, areas for improvement, and priorities for improvement)

### Strengths :

- All classrooms are fully equipped with a variety of current technology.
- Faculty staff are Highly Qualified.
- Faculty staff participate in a wide variety of elective courses.
- A master schedule and calendar maximize the amount of time spent on instruction and ensure that special program times are addressed.

### Areas for Improvement:

- Increase the number of faculty members, lecturers and technicians.
- Increase learning resources such as books.
- 

### Priorities for Improvement:

- Increase the number of faculty members, lecturers and technicians

## C. Program Learning Outcomes Assessment

### 1. Program Learning Outcomes Assessment Results.

#	Program Learning Outcomes	Assessment Methods (Direct and Indirect)	Performance Target	Results
<b>Knowledge</b>				
K1	Demonstrate the facts and concepts of anatomy, histology, physiology, immunology, microbiology, and pathology of human related to pharmacy	Essay exam, MCQ, Quizzes, Assignments	75%	88.4
K2	Identify the facts, concepts, rules, and theories of chemistry, biochemistry, and chemistry of natural products, alternative and complementary medicine.	Essay exam, MCQ, Quizzes, Assignments	92%	94.7
K3	State the principles, concepts of pharmaceutical dosage forms, drug delivery systems, and biopharmaceutics as well as rules of quality assurance of pharmaceutical industry.	Essay exam, MCQ, Quizzes, Assignments	98%	95.8
K4	Demonstrate the concepts and facts of the pharmacology of drug use and interactions and toxicity, as well as the aspects of pharmacotherapeutics, clinical pharmacokinetics, drug information, clinical skills, ethics, regulations of practice and marketing of pharmaceutical preparations.	Essay exam, MCQ, Quizzes, Assignments	98%	100
K..				
<b>Skills</b>				
S1	Evaluate the possible therapeutic applications, interactions or interferences of drugs and pharmaceutical compounds.	Written Exams, Practical Exam, Observation Card, Laboratory reports	92%	96.5
S2	Plan strategies for solving the problems and safe composition of pharmaceuticals in the field of pharmacy.	Written Exams, Practical Exam, Observation Card, Laboratory reports,	94%	94.2
S3	Interpret the scientific data and information related to the drugs, compounds and their effective use	Written Exams, Practical Exam, Observation Card, Posters	95%	95
S4	Communicate clearly by verbal and written means with all staff	Observation Card, Oral presentations,	95%	97.1

	and colleagues in the medical fields as well as with patients			
S..				
<b>Competence</b>				
C1	Work independently, professionally and in a team work with a time management.	Practical Exam, Laboratory reports, Observation Card	80%	91.9
C2	Use of personal values and ethical principles in the field of work	Practical Exam, Observation Card	95%	96.5
C3	Use of advanced techniques in developing solutions to complex issues in the field of work	Practical Exam, Observation Card	95%	96.8
C4				
C..				
<b>Comments on the Program Learning Outcome Assessment results.</b>				
<p>1- The assessment results of the PLO showed that the knowledge K1, K2 and K4 has exceeded both the target and the internal benchmark values, while that of K3 is nearly equal to the internal benchmark value and still lower than the target.</p> <p>2- The assessment results of the PLO showed that all skills values of the program has exceeded both the target and the internal benchmark values</p> <p>3- The assessment results of the PLO values showed that the competencies values C2 and C3 of the program has exceeded both the target and the internal benchmark values, however the C1 value exceeded the target value but is lower than the internal benchmark</p>				

\* Include the results of measured learning outcomes during the year of the report according to the program plan for measuring learning outcomes

\*\* Attach a separate report on the program learning outcomes assessment results for male and female sections and for each branch (if any)

## 2. Analysis of Program Learning Outcomes Assessment

(including strengths, Areas for Improvement, and priorities for improvement)

<b>Strengths :</b>
<p>1- The program has good achieved the knowledge K1, K2 and K4 of the program</p> <p>2- The program has good achieved all skills of the program</p> <p>3- The program has good achieved the values V2, V3 and V4 of the program</p>
<b>Areas for Improvement:</b>
We are on the wright way
<b>Priorities for Improvement:</b>
We are on the wright way

## D. Summary of Course Reports

### 1. Teaching of Planned Courses / Units

List the courses / units that were planned and not taught during the academic year, indicating the reasons and compensating actions.

Course	Units/Topics	Reasons	Compensating Actions
None	None	None	None

## 2. Courses with Variations

List courses with marked variations in results that are stated in the course reports, including: (completion rate, grade distribution, student results, etc.), and giving reasons for these variations and actions taken for improvement.

Course Name & Code	variation	Reasons for variation	Actions taken
None	None	None	None

### i. Apparent Completion /Graduation Rate

Students		Graduation Year			
		Three Years Ago	Two Years Ago	Past Year	Current Year
Total Cohort Enrollment	Male	22	23	13	20
	Female	--	--	0	--
	<b>Total</b>	<b>22</b>	<b>23</b>	<b>13</b>	<b>20</b>
Number of Cohort Students Graduated in the Specified Time	Male	5	6	7	8
	Female	--	--	0	--
	<b>Total</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
Apparent Completion Rate	Male	22.7	26	53.85	40
	Female	--	--	0	--
	<b>Total</b>	<b>22.7</b>	<b>26</b>	<b>53.85</b>	<b>40</b>

### ii. Completion rate/level

	Number of students starting (Average)		Number of completion and passing (Average)		Percent of completion and passing (Average)	
	2019 (1)	2019 (2)	2019 (1)	2019 (2)	2019 (1)	2019 (2)
<b>Level 3</b>	19	16	6	11	32	69
<b>Level 4</b>	10	7	8	3	80	43
<b>Level 5</b>	6	9	4	9	67	100
<b>Level 6</b>	15	9	11	9	73	100
<b>Level 7</b>	9	11	8	11	89	100
<b>Level 8</b>	9	10	6	9	67	90
<b>Level 9</b>	12	8	11	8	92	100
<b>Level 10</b>	8	8	8	8	100	100

### iii. Grade distribution analysis:

	2020 (1)					2020 (2)				
	A	B	C	D	F	A	B	C	D	F
<b>Level 3</b>	15	14	13	26	11	5	11	11	10	10
<b>Level 4</b>	0	3	14	28	25	14	15	14	12	3
<b>Level 5</b>	8	8	11	13	4	10	19	4	0	0
<b>Level 6</b>	5	14	12	14	7	4	31	19	4	1
<b>Level 7</b>	2	5	13	21	4	0	15	35	14	1

<b>Level 8</b>	2	13	13	18	9	0	20	18	9	0
<b>Level 9</b>	3	16	23	16	5	2	18	27	9	0
<b>Level 10</b>	7	22	28	7	0	12	26	15	2	4
<b>Total</b>	<b>42</b>	<b>95</b>	<b>127</b>	<b>143</b>	<b>65</b>	<b>47</b>	<b>155</b>	<b>143</b>	<b>60</b>	<b>19</b>

### 3. Result Analysis of Course Reports

(including strengths, Areas for Improvement:, and priorities for improvement)

<b>Strengths :</b>	
<ol style="list-style-type: none"> <li>1. All the courses in the program were conducted according to the planned schedules in the program and according to the approved specification of each course.</li> <li>2. The course reports of all courses were prepared according to the latest NCAAA format and approved by departments councils.</li> <li>3. Grades of students were good and reflect achievement of the courses ILOs in the different domains although the critical situations of covid-19 pandemic that greatly affected the learning and university life.</li> </ol>	
<b>Areas for Improvement:</b>	
<ol style="list-style-type: none"> <li>1. The update of e-learning resources on blackboard in different materials and encourage students to utilize it.</li> <li>2. Regular update of the courses contents with the most recent information and skills in the field of each course.</li> <li>3. Applying the point of course improvements appear in the feedback from students evaluation of the course and engage the students in the learning process and applying the student-oriented learning strategies.</li> </ol>	
<b>Priorities for Improvement:</b>	
<ol style="list-style-type: none"> <li>1. Regular update of the courses contents with the most recent information and skills in the field of each course.</li> <li>2. The update of e-learning resources on blackboard in different materials.</li> </ol>	

## E. Program Activities

### 1. Student Counseling and Support

<b>Activities Implemented</b>	<b>Brief Description *</b>
Orientation meetings for new admitted students (Level 3)	Meetings headed by the Dean with attend and sharing of vice dean of academic affairs and college admission affairs administration members
Consultation for course addition and deletion through academic advisers	It is mandatory for each student to add or delete studying hour(s) meeting with and take documented approve from his academic adviser.
Group and individual academic advising meetings by academic adviser	Every academic adviser has documented, regular and as requested, meeting with his student group
<b>Comment on Student Counseling and Support **</b>	
Pandemic (Covid-19) affect the face to face consultation efforts	

\* including action time, number of participants, results and any other statistics.

\*\* including performance evaluation on these activities



## 2. Professional Development Activities for Faculty and Other Staff

Activities Implemented	Brief Description *
Effective academic communication skills	Deanship of Development and Quality, Najran University
Preparing detailed tests according to the specification table	Deanship of Development and Quality, Najran University
Applied investment in educational application and quality	Deanship of Development and Quality, Najran University
Academic Programs Management System at Najran University	Deanship of Development and Quality, Najran University
Formulation of learning outcomes and decisions	The National Center for Academic Assessment and Economics – Riyadh
Applied Applied Investment in Educational Application and Quality	Deanship of Development and Quality, Najran University
Characterization of the integrated area according to the developed standards	Deanship of Development and Quality, Najran University
Using performance indicators to close quality loops for continuous improvement	Deanship of Development and Quality, Najran University
Requirements for the quality of student guidance and counseling according to the NCAAA standards	Deanship of Development and Quality, Najran University
Evaluation of outputs according to NCAAA standards	Deanship of Development and Quality, Najran University
Prepare a self-study report	Deanship of Development and Quality, Najran University
<b>Comment on Professional Development Activities for Faculty and Other Staff **</b>	
<p>College of pharmacy staff values professional development and seeks opportunities to participate in staff development in addition to what the district requires.</p> <ol style="list-style-type: none"> <li>1. Faculty staff are Highly Qualified.</li> <li>2. Certified staff have participated in multiple professional development opportunities during this school year.</li> </ol> <p>The technology staff development opportunities have helped the staff become more competent and effective with the use of technology in the classroom.</p>	

\* including action time, number of participants, results and any other statistics.

\*\* including performance evaluation on these activities

## 3. Research and Innovation

Activities Implemented	Brief Description *
Research Plan for College of Pharmacy	<p>As per research plan of college of pharmacy research objectives are highlighted as under and accordingly activities is implemented:</p> <ol style="list-style-type: none"> <li>1. To encourage and support the existing active research faculty and recruitment of new researchers.</li> <li>2. To establish new central research lab.</li> <li>3. To collaborate with recognized and reputed national and international research institution.</li> <li>4. To generate the research funds from different sources.</li> <li>5. To motivate research output to publish in high impact journals.</li> </ol>
<b>Project No.</b>	<b>Title:</b> Nanoemulgel for Improved Topical Delivery of

<p><b>NU/MID/16/069</b></p>	<p>Retinyl Palmitate: Formulation Design and Stability Evaluation.  <b>PI. Dr. Mohammed Alqahtani (pharmaceutics)</b>  <b>No. of Participants: 3</b>  <b>Action time: 12 months</b>  <b>Results:</b> Published one research article  " Nanoemulgel for Improved Topical Delivery of Retinyl Palmitate: Formulation Design and Stability Evaluation. <i>Nanomaterials</i> <b>2020</b>, 10, 848. doi:10.3390/nano10050848</p>
<p><b>Project No.</b>  <b>NU/MID/16/068</b></p>	<p><b>Title:</b> Development of a 3D Printed Coating Shell to control the Drug Release of Encapsulated Immediate-Release tablets.  <b>PI. Dr. Mohammed Alqahtani (pharmaceutics)</b>  <b>No. of Participants: 3</b>  <b>Action time: 12 months</b>  <b>Results:</b> Published one research article.  "Development of a 3D Printed Coating Shell to Control the Drug Release of Encapsulated Immediate-Release Tablets. <i>Polymers</i> <b>2020</b>, 12, 1395; doi:10.3390/polym12061395</p>
<p><b>Project No.</b>  <b>NU/MID/16/078</b></p>	<p><b>Title:</b> Nootropic and neuroprotective effects of ethanol extract of <i>Vateria Indica</i> L bark on scopolamine-induced cognitive deficit in mice.  <b>PI. Dr. Ali Mohammed Alshabi (Clinical Pharmacy)</b>  <b>No. of Participants: 3</b>  <b>Action time: 12 months</b>  <b>Results:</b> Published one research article.  Nootropic and neuroprotective effects of ethanol extract of <i>Vateria indica</i> L bark on scopolamine-induced cognitive deficit in mice. <i>Tropical Journal of Pharmaceutical Research</i> 2020; 19 (3), 587-594</p>
<p><b>Project No.</b>  <b>NU/MID/16/097</b></p>	<p><b>Title:</b> Knowledge and Attitudes Toward Use of Herbal Medicine Among Saudi Arabian Patients.  <b>PI. Dr. Ali Mohammed Alshabi (Clinical Pharmacy)</b>  <b>No. of Participants: 3</b>  <b>Action time: 12 months</b>  <b>Results:</b> Published one research article.  Knowledge and Attitudes Toward Use of Herbal Medicine Among Saudi Arabian Patients. <i>Current Topics in Nutraceutical Research</i> , 2020; 18(4):303-309.</p>
<p><b>Project No:</b>  <b>NU/MID/16/040</b></p>	<p><b>Title:</b> Study of the cytotoxic activities of the ellagitannins and related phenolics from halophytic plants  <b>PI. Dr. Mohammed Orabi (Pharmacognosy)</b>  <b>No. of Participants: 2</b>  <b>Action time: 12 months</b>  <b>Results:</b> Published one research article.  "Ellagitannins and simple phenolics from the halophytic plant <i>Tamarix nilotica</i>." <i>Natural Product Research</i> (2020): 1-9.</p>
<p><b>Project no:</b></p>	<p><b>Title:</b> Antimicrobial Activity of Silver and Zinc Nanoparticles</p>

<p>NU/MID/16/038</p>	<p>Mediated by Eggplant Green Calyx.  <b>PI. Dr. Hany Goda (Pharmacognosy)</b>  <b>No. of Participants: 2</b>  <b>Action time: 12 months</b>  <b>Results:</b> Published one research article.  Antimicrobial Activity of Silver and Zinc Nanoparticles Mediated by Eggplant Green Calyx." International Journal of Pharmacology 16, no. 3 (2020): 236-243.</p>
<p><b>Project no:</b>  NU/MID/16/032</p>	<p><b>Title:</b> Decoration of S, N co-doped graphene quantum dots with p-aminothiophenol functionalized AuNPs for molecular imprinted sensing of sofosbuvir in real samples.  <b>PI. Dr. Ashraf Mohammed (Analytical chemistry)</b>  <b>No. of Participants: 3</b>  <b>Action time: 12 months</b>  <b>Results:</b> Published one research article.  Modification of N,S co-doped graphene quantum dots with p-aminothiophenol-functionalized gold nanoparticles for molecular imprint-based voltammetric determination of the antiviral drug sofosbuvir. Microchimica Acta 186 (2019) 617.</p>
<p><b>Project no:</b>  NU/MID/16/039</p>	<p><b>Title:</b> Simultaneous analysis of mycophenolate mofetil and tacrolimus using multiple layers of MWCNTs and a novel Cu-ADPPI MOFs modified pencil graphite electrode.  <b>PI. Dr. Ashraf Mohammed (Analytical chemistry)</b>  <b>No. of Participants: 3</b>  <b>Action time: 12 months</b>  <b>Results:</b> Published one research article.  Facile fabrication of a novel disposable pencil graphite electrode for simultaneous determination of promising immunosuppressant drugs mycophenolate mofetil and tacrolimus in human biological fluids. Analytical and Bioanalytical Chemistry, (2019) doi:10.1007/s00216-019-02245-8</p>
<p><b>Project no:</b>  NU/MID/16/055</p>	<p><b>Title:</b> One pot synthesis of AuPdPt trimetallic nanohybrid decorated reduced graphene oxide nanosheets for ultrasensing of anti-convulsant drug retigabine.  <b>PI. Dr. Ashraf Mohammed (Analytical chemistry)</b>  <b>No. of Participants: 2</b>  <b>Action time: 12 months</b>  <b>Results:</b> Published one research article.  One Pot Synthesis of AuPdPt Trimetallic Nanohybrid Decorated Reduced Graphene Oxide Nanosheets for Ultrasensing of Anti-Convulsant Drug Retigabine (Ezogabine). Journal of The Electrochemical Society, 166 (2019) H521-H526.</p>
<p><b>Project no:</b>  NU/MID/16/090</p>	<p><b>Title:</b> Facile fabrication of a novel 3D rose like lanthanum doped zirconia decorated reduced graphene oxide nanosheets: An efficient electro-catalyst for electrochemical reduction of futuristic anti-cancer drug salinomycin during pharmacokinetic study.  <b>PI. Dr. Ashraf Mohammed (Analytical chemistry)</b>  <b>No. of Participants: 3</b>  <b>Action time: 12 months</b>  <b>Results:</b> Published one research article.  Facile fabrication of a novel 3D rose like lanthanum doped zirconia</p>

	decorated reduced graphene oxide nanosheets: An efficient electro-catalyst for electrochemical reduction of futuristic anti-cancer drug salinomycin during pharmacokinetic study. Biosensors and Bioelectronics 150 (2020) 111849
<b>Project no:</b> NU/MID/16/091	<b>Title:</b> A novel imidazole derived colorimetric sensor for sequential detection of copper (II) and sulphide ions in aqueous solutions and biosamples. <b>PI.</b> Dr. Ashraf Mohammed ( <b>Analytical chemistry</b> ) <b>No. of Participants:</b> 3 <b>Action time:</b> 12 months <b>Results:</b> Published one research article. A novel imidazole derived colorimetric and fluorometric chemosensor for bifunctional detection of copper (II) and sulphide ions in environmental water samples. Spectrochimica Acta Part A, 81 (2020) 117846
<b>Project no:</b> NU/MID/16/028	<b>Title:</b> Characterization and evaluation of the performance of starch and cellulose as excipients for direct compression technique. <b>PI.</b> Dr. Hamad S. Alyami ( <b>Pharmaceutics</b> ) <b>No. of Participants:</b> 2 <b>Action time:</b> 12 months <b>Results:</b> Published one research article. Characterization and evaluation of the performance of starch and cellulose as excipients for direct compression technique. Tropical Journal of Pharmaceutical Research August 2020; 19 (8): 1569-1576

#### **Comment on Research and Innovation** \*\*

Staff members of the college of pharmacy at Najran University actively participated in both funded and non-funded researches and engaged in several projects from university supported by the deanship of research in Najran University and other self-dependent projects by the researchers themselves. Most of the staff executed the project successfully under time frame and published their outputs in reputed and high impact factor international journals. The number of projects started in this year (2019) was **13** project, and all of these projects are supported from the university. Most of projects were completed and research papers were published, where the percentage of publications of faculty member was **89.47 % (KPI-P14)**, and the rate of published research per faculty member was **0.89 (KPI-P15)**. Citation of the research work indicates its originality and importance and helps in raising the ranking of the researcher and its institution. The citation rate in refereed journals per faculty member was **14.21 (KPI-P16)**.

\* including action time, number of participants, results and any other statistics.

\*\* including performance evaluation on these activities

#### **4. Community Partnership**

<b>Activities Implemented</b>	<b>Brief Description</b> *
The volunteer health convoy event	Participated in the college of pharmacy in the health caravan and the university hospital. as well as an awareness exhibition containing medical publications and posters that touch on health topics related
A scientific symposium on the occasion of World Diabetes Day	The College of Pharmacy, represented by the community Activities Unit, held a scientific symposium on the occasion of the International Diabetes Day
The effectiveness of" yes	Health awareness of the use of natural herbs, antibiotics, smoking, drugs, and

...affect”	...age diseases such as diabetes
<b>Comment on Community Partnership**</b>	
Students are very active and involved in college sponsored as well as community programs, such as sports, academic competitions, etc.	

\* including action time, number of participants, results and any other statistics.

\*\* including performance evaluation on these activities

## 5. Analysis of Program Activities

(including strengths, Areas for Improvement:, and priorities for improvement)

### Strengths :

1. College of pharmacy faculty has good expertise in research they are able to do research with funded project or non-funded projects. Several faculties have their own funded projects from university and other organizations.
2. We have Deanship of Scientific research funded projects and future scientist projects which is going on in different department of college of pharmacy.
3. Pharmacy College established the new central research lab inside the premises to execute the funded research projects under time frame.
4. College of pharmacy applied more than 10 projects for scientist research most of them were completed and research papers were published in ranked international journals.
5. College of pharmacy staff effectively contribute in the community services and partnerships.
6. The program provide a well-arranged students' academic support and advisory.
7. Certified staff have participated in multiple professional development activities.

The IT deanship in Najran university provides opportunities that helped the staff to become more competent and effective with the use of technology in the classroom and excellent facilities for distant learning that accommodate the conditions of Covid-19 pandemic.

### Areas for Improvement:

1. Complete and the central research lab of the college.
2. Enhance the cooperative research projects among college departments and departments of other colleges.
3. Update the students' academic support and advisory program.

Broaden the utilization of IT technology to establish a distant learning programs with designing programs for studying of international students outside the kingdom.

### Priorities for Improvement:

1. Complete and the central research lab of the college.

Broaden the utilization of IT technology to establish a distant learning programs with designing programs for studying of international students outside the kingdom.

## F. Program Evaluation

### 1. Evaluation of Courses

Course Code	Course Title	Student Evaluation ( Yes-No)	Other Evaluations (specify)	Developmental Recommendations
PHCH 211	Pharmaceutical Organic Chemistry-1	yes	Head Department	
PHCU 231	Physical Pharmacy	yes		
ANAT 281	Anatomy and Histology	yes		
PHYS 223	Physiology-1	yes		
BICH 284	Biochemistry-1	yes		
ISLM111	Islamic Culture- 1	yes		
ARB 201	Arabic Language- 1	yes		
PHCH 212	Pharmaceutical Organic Chemistry-2	yes	Head Department	
PHCH 213	Pharmaceutical Analytical Chemistry-1	yes	Head Department	
PHCP 251	Introduction to Pharmacy Profession	yes		
PHYS 283	Physiology-2	yes		
BICH 285	Biochemistry-2	yes		
PHCP 252	Computer in Pharmaceutical Services	yes		
ISLM 112	Islamic Culture- 2	yes		
ARB 202	Arabic Language- 2	yes		
PHCH 314	Pharmaceutical Analytical Chemistry-2	yes	Head Department	
PHGN 321	Pharmacognosy-1	yes		
MICR 386	Immunology	yes		
MICR 387	Pharmaceutical Microbiology- 1	yes	Head Department	
PATH 389	Pathology- 1	yes		
PHCL 341	Biostatistics	yes		
ISLM 113	Islamic Culture- 3	yes		
PHCU 332	Pharmaceutics- 1	yes		
PHGN 322	Pharmacognosy-2	yes		
PHCL 342	Pharmacology- 1	yes		
MICR 388	Pharmaceutical Microbiology- 2	yes	Head Department	
PATH 390	Pathology- 2	yes		
PHCH 315	Drug Discovery and Development	yes		
ISLM 114	Islamic Culture- 4	yes		
PHCH 416	Medicinal Chemistry-1	yes		
PHCU 433	Pharmaceutics- 2	yes		
PHCL 443	Pharmacology- 2	yes		
PHGN 423	Pharmaceutical Biotechnology	yes		

Course Code	Course Title	Student Evaluation ( Yes-No)	Other Evaluations (specify)	Developmental Recommendations
PHCP 453	Basic Pharmacokinetics	yes		
PHCP 454	Pharmacy practice- 1	yes		
PHCH 417	Medicinal Chemistry-2	yes		
PHCL 445	Toxicology	yes		
PHCL 444	Pharmacology- 3	yes		
PHCP 457	Pharmacotherapy-1	yes		
PHCP 456	Clinical Skills for Pharmacists	yes		
PHCP 455	Pharmacy practice- 2	yes		
PHCH 518	Medicinal Chemistry-3	yes		
PHGN 524	Recent Approaches in Analysis of Medicinal Plants	yes		
PHCU 534	Pharmaceutics- 3	yes		
PHCU 535	Industrial Pharmacy	yes		
PHCP 558	Pharmacotherapy-2	yes		
PHCP 559	Drug and Poison information	yes		
PHCP 560	Regulations, Ethics and History of Pharmacy	yes		
PHCU 536	Sterile Dosage Forms	yes		
PHCU 537	Pharmaceutical Quality Control and good Manufacturing Practice	yes		
PHCU 538	Over the Counter Drugs	yes		
PHCU 539	Cosmetic Preparations	yes		
PHCH 519	Instrumental Analysis of Pharmaceutical Compounds	yes		
PHGN 525	Herbal and Alternative Medicine	yes		
PHCP 561	Pharmaceutical Marketing	yes		

## 2. Students Evaluation of Program Quality

Evaluation Date : 21-8-1441	Number of Participants: 16
Students Feedback	Program Response
<p><b>Strengths:</b></p> <ul style="list-style-type: none"> <li>• Good and effective academic advisory within the program.</li> <li>• Encouraging , supportive and initiative behavior of all staff members in the program.</li> <li>• Staff members have excellent scientific background and experience in their courses.</li> <li>• Updated scientific contents of the courses with available library resources for it.</li> <li>• There are good facilities suitable for performing religious rites.</li> <li>• Knowledge and experiences learned in the program are</li> </ul>	<p>Program administration agree with students in their opinion about the strength points within the program and will work on establishment of this positive activities to be fundamental columns in process of qualification of learning and students counseling.</p>

<p>important for graduates profession and future.</p> <ul style="list-style-type: none"> <li>• The program helps students to strive to keep their information updated in different fields of their profession.</li> <li>• The program improve the ability of students to investigate and solve problems and to work efficiently in groups and improve their communication skills.</li> </ul>	
<p><b>Areas for Improvement:</b></p> <ul style="list-style-type: none"> <li>• Teaching infrastructure in auditoria and labs need to be improved.</li> <li>• Preparations for extracurricular activities need to be improved.</li> <li>• The field training (or internship) programs need to be improved.</li> <li>• Practical lessons of some courses need some improvements to develops students skills and competency.</li> <li>• Clinical skills and experience provided to the students within the program need to be updated and improved.</li> <li>• Research interest and experience provided to the students are insufficient and need improvement.</li> </ul>	<p>Program administration agree with students in their opinion about the points that need improvement within the program and will work on it and will do all their best to provide better and more advanced potentials in the program for best graduate preparation.</p>
<p><b>Suggestions for improvement:</b></p> <ul style="list-style-type: none"> <li>• Putting a time plan for improvement of infrastructure of labs and auditoria.</li> <li>• Advancing the practical cessions of practical courses and improve the experimental content by the staff members.</li> <li>• The course contents and description of clinical courses will be revised and updated by the experienced staff members to increase the clinical background and experience of students.</li> <li>• Design a program to engage students in research activities and train them on the research skills within the different departments.</li> <li>•</li> </ul>	

\* Attach report on the students evaluation of program quality

### 3. Other Evaluations

(e.g. Evaluations by independent reviewer, program advisory committee, and stakeholders (e.g., faculty members, alumni, and employers))

<p><b>Evaluation method :</b> (Questionnaire)</p>	<p><b>Date:</b> 12/9/1441 H</p>	<p><b>Number of Participants :</b> 52</p>
<p><b>Summary of Evaluator Review</b></p>		<p><b>Program Response</b></p>
<p><b>Strengths:</b></p> <ul style="list-style-type: none"> <li>• The program provides graduate with skills in IT and problem based learning, critical thinking and information search in different resources.</li> <li>• Staff members are cooperative, supportive and strict with their office hours.</li> <li>• Teaching staff work continuously on developing students skills and knowledge, strict with times of their lectures, and they are characterized by high scientific</li> </ul>		<p>Program administration agree with stakeholders in their opinion about the strength points within the program and will work on establishment of this positive activities to be fundamental columns in process of qualification of learning and students counseling.</p>



<p>background in their courses.</p> <ul style="list-style-type: none"> <li>• Staff members utilizing different strategies and technologies in teaching their courses with a well-designed and pre-informed schedules for assessments.</li> <li>• The college have a good infrastructure from auditoria, teaching labs, computer labs.</li> <li>• Good and effective academic advisory within the program.</li> <li>•</li> </ul>	
<p><b>Points for Improvements::</b></p> <ul style="list-style-type: none"> <li>• Enrich the practical sections of the courses with more experimental skills which improve students experience and skills.</li> <li>• Provide additional student care through academic advisory and staff office hours.</li> <li>• Opening a well-designed student library within the college and support it with IT to encourage students to visit it and to grow their skills in utilizing library.</li> <li>•</li> </ul>	<p>Program administration agree with stakeholders in their opinion about the points that need improvement within the program and will work on it and will do all their best to provide better and more advanced potentials in the program for best graduate preparation.</p>
<p><b>Suggestions for improvement</b></p> <ul style="list-style-type: none"> <li>• Opening of Pharm D program as alternative pathway for students who are interested in clinical applications of pharmacy practice.</li> <li>• Encourage the extracurricular activities to join students with their college.</li> <li>• Provide places for students to stay comfortably in between their lessons particularly due to the far place of the campus.</li> <li>• Signing cooperation programs with other universities to help exchange students to allow to students to keep close with staff and colleagues in other colleges to utilize from their skills and experiences.</li> <li>• Opening a deanship for research in the college which work on encouragement of research activities and let it more arranged and help graduates from the university or other universities to enroll in postgraduate research programs under supervision of this deanship.</li> </ul>	

\* Attach independent reviewer's report and stakeholders' survey reports ( if any)

#### 4. Key Performance Indicators (KPIs)

List the results of the program key performance indicators (including the key performance indicators required by the National Center for Academic Accreditation and evaluation)

KPIs Code	KPI	Target Benchmark	Actual Value	Internal Benchmark	Analysis	New Target Benchmark
KPI-P-01	Percentage of achieved indicators of the program operational plan objectives	87%	92%	85.81 %	Percentage of achieved program operational plan objectives exceeded both the internal benchmark and the external benchmark. Also, it higher than that of the target benchmark of the program.	93%
KPI-P-02	Students' Evaluation of quality of learning experience in the program	80%	3.90	3.70	The results of students' evaluation of the quality of learning experience in the program indicated a better performance than the internal benchmark by 5.4%. However, it still lower than the targeted value.	4
KPI-P-03	Students' evaluation of the quality of the courses	80%	4.07	4.11	The results of students' evaluation of quality of the courses indicated a lower performance than the internal benchmark by about 1% and higher than that of the external benchmark by about 19.4%. Moreover, it is higher than the targeted value by 1.8%..	4.1
KPI-P-04	Completion rate	60%	40%	53.85 %	The results of completion rate analysis indicated a lower performance than the internal benchmark by 25.7%, but still much lower than that of the external benchmark and the targeted value.	60%
KPI-P-05	First-year students retention rate	100%	100%	100%	The excellent results of the first-year students retention rate indicated the satisfaction of the first year students with the program and its facilities and services	100%
KPI-P-06	Students' performance in the professional and/or national examinations	80%	100%	62%	The professional and national examinations was not carried out due to COVID-19 pandemic	80%
KPI-P-07	Graduates' employability and enrolment in postgraduate	80% 10%	77.8 %	80	The results of graduates' employability and enrolment in postgraduate programs indicated lower performance than both the internal and targeted benchmark	80%

	programs (Within year of graduation)				by 2.75% but better than the external benchmark by 11.3%	
KPI-P-08	Average number of students in the class	15	10.84	10.98	The average number of students in the class shows excellent value (less than 11 students per class) which supports the efficiency of both teaching and learning process	10
KPI-P-9	Employers' evaluation of the program graduate's proficiency	4.0	4.07	3.8	The results of the employers' evaluation of the program graduate's proficiency indicated higher performance than the internal benchmark, external benchmark, and the targeted values by 29.3%, 19.2% and 14.8%, respectively.	4
KPI-P-10	Students' satisfaction with the offered services	4.0	3.01	3.35	The results of students' satisfaction with the offered services indicated lower performance than the internal benchmark by 10.1% and that of the external benchmark by about 7.4%. Moreover, it is also much lower than the targeted value by about 25%, which mean that this indicator needs an improvement plan.	4
KPI-P-11	Ratio of students to teaching staff	3:1	2.86:1	2.76:1	The results shows that the actual ratio of students to teaching staff is excellent which can support the quality and efficiency of both teaching and learning process	2.5:1
KPI-P-12	Percentage of teaching staff distribution a. Ph.D holder b. MSc c. BSc	10% 10% 40% 40%	6.9 10.34 44.83 37.93	5.26 5.26 36.84 52.63	Percentage of teaching staff distribution is good and can support the quality and efficiency of both teaching and learning process	10% 15% 40% 35%
KPI-P-13	Proportion of teaching staff leaving the program	< 10%	10.34	2.63	Percentage of teaching staff leaving the program is higher than both the internal and target level	< 10%
KPI-P-14	Percentage of publications of faculty members.	170%	505.6	161	The results showed higher percentage of publications of faculty members than both the internal benchmark and the targeted value	300%
KPI-P-15	Rate of published research per faculty member.	2.0	5.06	1.61	The results showed higher rate of published research per faculty member than both the internal	3

					benchmark and the targeted value	
<b>KPI-P-16</b>	Citations rate in refereed journals per faculty member	<b>30</b>	<b>56.61</b>	<b>28.72</b>	The results indicated higher citations rate in the refereed journals per faculty member than both the internal benchmark and the external benchmark, which reflects the high quality of the research in the program.	<b>60</b>
<b>KPI-P-17</b>	Satisfaction of beneficiaries with the learning resources	<b>4</b>	<b>3.83</b>	<b>4.1</b>	The results of the satisfaction of beneficiaries with the learning resources indicated lower performance than the internal and lower than the target level, which indicated the need for improvement plan to increase the satisfaction of beneficiaries with the learning resources.	<b>4</b>
<b>KPI-PH-1</b>	Number of community education programs, consultancy and community service activities	<b>5</b>	<b>4</b>	<b>5</b>	Not achieved due to covid-19 pandemic	<b>5</b>
<b>KPI-PH-2</b>	Percentage of full time teaching staff actively engaged in community service activities.	<b>60%</b>	<b>60</b>	<b>60</b>	The indicator achieved the target benchmark	<b>60%</b>
<b>KPI-PH-3</b>	% of courses in which student evaluations were conducted during the year.	<b>100%</b>	<b>100</b>	<b>100</b>	% of the evaluated courses in which by students evaluations during the year were excellent (100%) and supports the efficient evaluation of both the curriculum and efficient teaching	<b>100%</b>
<b>KPI-PH-4</b>	Student evaluation of academic and career counselling.	<b>4</b>	<b>3.6</b>	<b>3.8</b>	Student evaluation of academic and career counselling on a five-point scale in an annual survey The results indicated lower performance than the internal and lower than the target level, which indicated the need for improvement plan to increase the satisfaction of students	<b>4</b>

**Comments on the Program KPIs and Benchmarks results :**

**The Pharmaceutical sciences' program at Najran University was chosen as a source of internal benchmark mark for the following reasons:**

- 1- Close similarity to the mission and vision.
- 2- Similarity to the educational system.

- 3- Easy to collect the information for comparison.
- 4- All other program at Najran University are not similar to our program

**Also, the program choose the Pharmaceutical sciences' program at King Khalid University as a source of external benchmark mark for the following reasons:**

- 1- It is very similar to our scientific program (almost the same).
- 2- Similarity to our educational system and community area.
- 3- KKU is near from our campus and easy to obtain the information for comparison.

#### **Comments on the results**

- 1- The results of the KPIs # 1, 5, 8, 9, 11, 12, 14, 15, 16 and KPI-PH-3 indicated their achievement and increasing the performance of the program
- 2- The results of the KPIs #2, 4, 6, 7, 10, 13, 17 and KPI-PH-4 are lower than the target values and needs an urgent improvement plan for increasing the performance of the program
- 3- The results of the KPIs # 2 and 7 are near the target values

## **5. Analysis of Program Evaluation**

(including strengths, Areas for Improvement:, and priorities for improvement)

### **Strengths :**

- 1- The program has good percentage of achieved program operational plan objectives
- 2- The program has high % of the evaluated courses by students during the year were excellent which supports the efficient evaluation of both the curriculum and efficient teaching.
- 3- The quality of learning experience in the program indicated a better performance than the internal benchmark by 22.7% and nearly equal to the external benchmark.
- 4- The program has efficient curriculum and teaching strategies reflected by quality of courses
- 5- The program has high graduate's proficiency
- 6- The program has sufficient number of qualified staff to perform the administrative, professional and technical tasks, and they have defined tasks and authorities
- 7- The program has an excellent program organizational and academic climate and supportive academic environment provided by the program management.

The program provide a high quality of research in the program.

### **Areas for Improvement:**

1. Completion rate analysis indicated a lower performance than the internal benchmark by 25.7%, but still much lower than that of the external benchmark and the targeted value
2. Students' performance in the professional and/or national examinations is less than the target benchmark by about 15%. The reason for these results may be the first time to apply this

<p>exam test.</p> <p>3. Students' satisfaction with the offered services is less than the target benchmark by 10.1% and less than the internal benchmark by about 74%.</p> <p>4. Satisfaction of beneficiaries with the learning resources</p>
<p><b>Priorities for Improvement:</b></p> <p>1- Continuous educational training on similar exams to help program graduates to good performing the professional and/or national examinations.</p> <p>2- Improvement of program offered services to the students.</p>

## G. Difficulties and Challenges Faced Program Management

Difficulties and Challenges	Implications on the Program	Actions Taken
The number of the trained administrators is inadequate	The academic staff are very loaded with works that should be done by the administrator	Coordinator of the quality unit has introduced a request for the dean
Almost there is no technicians	The academic staff are very loaded with works that should be done by the technician	Coordinator of the quality unit has introduced a request for the dean
Number of professor and associate professors is low	Low students' performance in the professional and/or national examinations	This difficulty will be gradually resolved by the promotion of many of the current assistant professors
There is no post-graduate program	Almost there is no demonstrators to help the higher staff in the students practical work.	Now the program committee study the launching of master program

\*Internal and external difficulties and challenges

## H. Program Improvement Plan

No .	Priorities for Improvement	Actions	Action Responsibility	Date		Achievement Indicators	Target Benchmark
				Start	End		
1	Update of the courses contents	Regular update of the courses contents with the most recent information and skills in the field of each course.	The staff members and head of departments	1442	1445	good performance in the professional and/or national examinations KPI-P-06	80% of the students pass the exam from the first trial
2	Revision of the clinical courses by the experienced staff	The course contents and description of clinical courses will be revised and updated by the	The staff members and head of departments	1442	1445	good performance in the professional and/or	80% of the students pass the exam

	members.	experienced staff members to increase the clinical background and experience of students.				national examinations	from the first trial
3	Improving the quality of students learning experiences	Activating the role of academic advising	academic advising unit	1442	1445	good performance in KPI-P-02 KPI-P-04 KPI-PH-4	
4	Revision of the curriculum and its prerequisites	Preparing new study plan for the program	Teaching and learning committee of the program	1442	1443	good performance in KPI-P-04	
5	Central research lab.	Complete the central research lab of the college	The Scientific committee of the program	1442	1445	Increase number of research articles/staff	4 research article/year
6	Engage students in research activities and train them on the research skills within the different departments	Design a program to engage students in research activities and train them on the research skills within the different departments	The committee of the program	1442	1445	Increase the % of employed graduates	Increase graduates' employment in the academic jobs
7	Improve students' satisfaction with the offered services	<ol style="list-style-type: none"> <li>1. More activation of office hours to help weak students.</li> <li>2. Intensive training for both faculty members and students to deal with E-learning materials and blackboard.</li> <li>3. Activating the role of student counseling to solve the problems of the students to help in raising the level of</li> </ol>	The committee of the program	1442	1445	Increase the value of the KPI-P-10	

8		completion rate.					
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### I. Report Approving Authority

Council / Committee	Approved by the college board
Reference No.	24/11/40/41
Date	22-12-1441

### J. Attachments :

- A separate cohort analysis report for male and female sections and for each branch
- A report on the program learning outcomes assessment results for male and female sections and for each branch (if any)
- A report on the students evaluation of program quality
- Independent reviewer's report and other survey reports (if any)