



Appendix

Nekemte College of Teacher Education

Nekemte College of Teacher Education

Stream of Natural Science and Mathematics

Department of chemistry

A questionnaire developed to the study of Major Factors that Influencing Experiments of Chemistry in Nekemte College of Teacher Education.

Questionnaire to be filled by Instructors and lab- technician

Dear respondents, the objective of this questionnaire is to gather data to assess the Major Factors that Influencing Experiments of Chemistry in Nekemte College of Teacher Education. The information you give will enable the researcher to identify the depth of the problem and helps to provide recommendations that may help to solve the problem. Thus, you are kindly requested to be honest in your responses to all items provided in this questionnaire.

- A. You don't need to write your name.
- B. The information you give will be kept strictly confidential and used only for academic purpose.
- C. In responding to the questionnaire, please note the following points:
 1. The entire question raised here are of equal importance.
 2. To attain the objectives of the study, failure to complete any of them will negatively affect the overall study result.
 - 3.

Part I: General information about the respondents

- a. Sex: Male Female
- b. Age: a) 15-20 b) 21-25 c) 26-30 d) 31 and above
- c. Qualification a) Ph. D b) M. Sc/M. A c) B.Sc/B.A d) Diploma
- d. Service in year: a) 5-10 b) 11-15 c) 16-20 d) 21 and above
- e. Date of response _____

Part- II: Please, provide your personal information by circling or writing in the blank space provided below.

1. Are you interested in conducting experiments of chemistry?

- a) Yes
- b) no

2. If the response of question no 1 is "no" please specify your reason? -----

3. How do you organize your students while working the laboratory?

- a) Individually
- b) In pairs
- c) In group

4. If your response of question no 3 is "in group". How many students are involved in one group?

- a) 4-6
- b) 7-9
- c) 10-13

- d) 14 and above
- e) please specify if any-----
5. What is the average ratio of lab-technician to students?
- a) 1:60
- b) 1:50
- c) 1:40
- d) 1:30
- e) 1:20
- f) Please specify if any-----
6. Do you think that each group member participates while writing laboratory reports?
- a) Yes
- b) No
7. If your response of question no 6 is "no", please specify your reason-----

8. How do you rate the relationship between you and students in terms facilitating and implementation laboratory work in laboratory class?
- a) High
- b) Medium
- c) Low
9. How many periods do you teach/conduct laboratory experiments in a week?
- a) <4
- b) 4-6
- c) 6-8
- d) > 8
- e) Please specify if any-----
10. Do you think the number of periods you teach/conducting laboratory experiment in a day to day a week has any impact on your laboratory work effectiveness?
- a) Yes
- b) No
11. If your response to question no 10 is "yes" explain how? -----

12. How do you rate your satisfaction level as instructor/ lab-technician?
- a) Very much satisfied
- b) Satisfied
- c) Dissatisfied
- d) Very much dissatisfied
- e) Undecided

13. If your answer to question no 12 is dissatisfied or very much dissatisfied, what are your reasons?

- a) Poor facilities in the lab-room/class.
- b) Poor support from the college stream.
- c) Low monthly salary.
- d) Poor support from college management
- e) Please specify if any-----

14. Does chemistry laboratory have specifically developed manual?

- a) Yes
- b) No

15. How do you see in-service training given on experiments of chemistry?

- a) Very Satisfactory
- b) Satisfactory
- c) Not satisfactory
- d) Please specify if any-----

16. If your answer for question no 14 is "yes" who is prepare it?

- a) Regional Education Bureau (REB)
- b) The college
- c) REB and the college
- d) Please specify if any-----

17. How do you rate the relevance of the manual in terms of meeting the curriculum?

- a) High
- b) medium
- c) low

18. How do you rate the relevance of the manual with student module?

- a) High
- b) medium
- c) low

19. If your answer for question no 18 is " low" what are the reason? -----

Part-III:

1) Please respond to the following items by putting tick mark against the number that most closely cross-ponds to your personal opinion or feelings on facility of laboratory by using very good, good, medium and not at all.

No	Item	Scales			
		Very good	Good	Medium	Not at all
1	Laboratory environment.				
2	Comfortably/suitability of the laboratory room (class) for experimentation.				

- 3 Arrangement of the stools and tables.
- 4 Air conditioning of laboratory.
- 5 Arrangement of chemical and apparatus.
- 6 Cleanness of room.

2) Which of the following laboratory facilities are adequately available in laboratory room? Please indicate by rating your response in the following boxes (use tick mark).

Items	Adequately Available	Available not adequately	not available
1. Stools, tables, shelf & drawers			
2. Sink, wash basin & waste disposal			
3. Storage of chemicals & apparatus, Water & gas supplies			
4. Dressing room, glove, gown, & Fire extinguisher			
5. Fumi hood & First aid box			

Part IV: How do you rate the availability of each of the following item/instructional laboratory materials for day to day activities in your laboratory class? (More than one response is possible).

No	Item	Adequately available	Available but not adequate	Not available
1	Chemicals			
2	Apparatus			
3	Manual			
4	Chalk/marker			
5	Black/white board			
6	lab-guide/syllabus			

Part-V: Please respond to the following items by putting tick mark against the number that most closely cross-ponds to your opinion or feelings while performing experiment by using very good, good, medium, not at all.

No	Item	Very good	Good	Medium	Not at all
1	Time allotted for laboratory work.				
2	Support that students get from you in laboratory work.				
3	Understandable of each procedure by the students.				
4	Feedback that you give for students.				
5	Gaining desired practical skills by students.				

Part VI: Statements regarding the importance of laboratory work are sated below. Rate the extent of your agreement or disagreement to each statement. (Strongly agree, agree, uncertain, disagree and strongly disagree).

No	Item	Strongly agree	Agree	Uncertain	Disagree	Strongly disagree
1	It provides theory with practical aspect.					
2	Enables working in groups.					
3	An opportunity to engage in deep learning.					

4 Understand theoretical and chemical principles.

5 Develop the skill of writing laboratory reports.

6 Develop scientific skills.

Part-VII: General comment and suggestions

a. What are the major factor influencing the chemistry laboratory?-----

b. What are challenges that you have encountered in performing chemistry experiments?

If any other related problems, please specify and explain it -----

