

Research Article

Improving the Practice of Cooperative Learning in Practice: The Case of Oda Bultum University, West Harareghe Zone, Chiro, Ethiopia

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Abstract

Cooperative learning is refers to a small group of people organized in formal and learn from each other to improve social interaction and academically and to promote acquiring of KSA. This study was entitled with: Improving the practice of cooperative learning in practice, the case of Oda Bultum University west Harareghe zone, Oromia region Chiro, Ethiopia. The specific objectives of this study includes: to identify the major factors and causes that are affects adversely implementation of cooperative learning, to assess the methods of CL easily adopted by the teachers and learners to improve CL, to evaluate the simplest alternative methods help to successful CL, to evaluate efficiency and effectiveness of CL and their contribution on KSA, to evaluate the contribution of AL and IL to improve CL, to evaluate how available resources influences implementation of cooperative learning and teaching in the university and to evaluate the weakness and threat leadership to implement and improve cooperative learning. The study was used purposefully the statistical probability distribution of simple random sampling techniques to determine sample size. The sample size was depending on the number of students, teachers, and supportive staffs of the OBU. Data collection was used only the primary source. The data was collected using questionnaires and interview through distribution of questionnaires to respondents by use closed, semi closed and open ended questionnaires. The data were analyzed using Excel software 2013 and presented in table, figure and descriptive statistics of average value of the percentages. The respondents of forestry department had responded that, 100% CL were help us to acquire KSA in our professional. Soil resource and watershed management department respondents had responded that, 100% CL help us to acquire KSA in our professional. Natural resource management department respondent had responded that, CL were help much more to acquire our KSA, whereas 20% needs to improve attitude on CL. About 66.67% of the SSs had responded that, decline in utility because of no integration between academic and SSs. About 66.67% had responded that, no academic staffs asked necessary materials and equipment needed to implement CL Teachers involved in teaching and learning processes had responded that 50% infective learning in cooperative and 50% effective learning in cooperative were observed. In general CL and teaching processes are more productive in quality and quantity to harvest quality manpower than teachers centered learning method that are competent both at national and international level.

Keywords

Cooperative Learning, Active Learning, Inactive Learning, Dependent Learning and Independent Learning, and Staffs

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Received: 24 October 2025; **Accepted:** 22 November 2025; **Published:** 8 May 2026

1. Introduction

1.1. Background and Justification

Traditionally people help each other on any work by assuming that “fifty lemon for one person it is overloaded, whereas for fifty persons it is beauty” Ethiopian proverb. Work in cooperative is simplified the work load and easy to achieve the expecting goals and objectives within the short period of time. Important to improve academic and social performance by the students [6]. Learning by itself it is a social processes that are occur through interpersonal interaction to achieve socially and academically within a cooperative context based the aim of goals and objectives of education [5]. In similar to that, people help each other’s and learning from each other’s to know more about the surrounded environment including both living things and non-living things live in and on the universe including the microorganisms live in the atmosphere. They are telling and showing each other to learn from each other ethical and cultural thinking in positive interactions. Learning from each other is to find the way of development of the society and their basic livelihoods. The main aim of knowing the environment and its surrounding is to manage, utilize, conserve and transfer for the next generation unaffected environment with health natural resources through maintenance of education quality. Overall human being is wanted to control nature and use properly without affected and by control of overexploitation. For that matters learning from each other in cooperative or in small group of two and more people is brought people toward this aim. CL is the learning of the student center and the students has taken the responsibility of own learning, but the teachers’ are the facilitators. The students interact within the group members and rehearse or practice the subject matter to achieve the goal of learning [14]. Otherwise if the group fail the individual are not succeed and if the group swim the individual’s swim to succeed. That is why the cooperative learning solve the problem of individual learning. Teaching and learning is the processes of two directional communication; from teacher to students and from students to teachers, but AL is CL that considered the student center and the teacher guide the learner on the way of acquiring the KSA. That mean he/she is facilitator of instructional strategy and critical element of CL is group work in team and team goals [14]. In support to this study the past study done by [1], had been described that, CL is the processes of individual’s learning in small group of people that by helping each other. It is significant to make cooperation for our present education. One of the quality of human being is cooperation each other instead of competition to each other. Because, CL has five principles and elements that should include: positive interdependence (each effort of the member is the success of team), individual accountability (share idea and materials), face to face promotive interaction (work individual out but share with feedback, challenging, reasoning and conclusion, teaching, helping, supporting and

encouraging), appropriate use of social, interpersonal, collaborative and small group skills (students develop decision-making, communication leadership, and conflict management skills and group processing-*team members set group goals, describe what member actions are helpful or not, periodically assess what they are doing well as a team, and identify changes they will make to function more effectively in the future* [9].

Teaching and learning by two person or more than two person is very effective and efficient through the discussion, decision making and may be experience sharing. This process of teaching and learning by people were assigned by the name of CL. This method is the practice of learning by using AL method in particular it is the fundamental for the developmental of the society [6].

CL is refers to a small group of people organized by people in formal that live and work together the same work under the same institution for the same goals, aims and objectives. As oppose to traditional learning “teachers center” in the case of CL the students share their thinking what they are going in their mind by telling and showing things learn from each other’s [16]. In the case of university CL is refer to a small or peer group of people or students organized in formal based on their cultural, social, political and educational background to learn from each other and grasp the KSA within the bounded time based on the nature of educational profession as they are ruled by the curricula that was prepared for each and every course.

CL is also collaborative learning of concepts and thinking of benefits of cooperation among the students and teachers. The past study done by [16] had described that, *a wide range of cooperative are theoretical perspectives on learning including behaviorism, socio-cultural theory, humanist psychology, cognitive psychology, social psychology and Piagetian developmental psychology have been used to develop and justify different approaches to CL*. The ultimate aim of this way of learning is to achieve the expecting goals and aims in a given period of time and to exercising self-learning, self-doing, and self-serving societies without the need of external interferences. CL is help individual’s to develop confidence and proper use of time. It support the students and teachers to know the significance of diversity, living, learning and working within the diversified ethical population of one country. It is the source of generation of beautification, income, unity, and quality of social life and style. In addition to that, “it is the source of equity, property right, and critical thinking for poor house societies that is not cover from a single drop of rain when dropped inside the house when the rain is fallen while who are live in isolation is not cooperative in working.” *CL has a strong foundation in research. Malays talk about gotong-royong, a spirit of working together and helping one another*. CL is a solution for students who are not share for their group mates and who disagreement to discuss and learn

from each other's [16]. Implementing CL by integration of active learning method to adopt independent learning it is one of the tool that move people and society or one country out of poverty and secure the basic livelihood of the society. More about cooperative learning did but the study was found the way of methods that was help to improve and implement the teaching and learning methods in CL in OBU in particular.

1.2. Statement of the Problem

Supplying the necessary appliances and equipment including the education software program only for the purposes of maintaining quality of education and harvesting the high level man power cannot be expecting as the achievement of the goals of CL. In despite of that, if there are gaps to utilize properly for teaching and learning processes is very tedious and unless they will fill that gaps by providing the special training on the supplied technologies, teaching methods and the related technologies to upgrading the education quality, quantity and teachers professions and the quality of graduated students; they will be impossible to achieve the stilted goals and objectives within the expecting timeline; that is harvesting "the more competent educated people" [7]. Beside these the Ethiopian higher education institutions were reformed from the old teaching and learning system that is teachers center and begun practically the new teaching and learning method to improve the quality and quantity of the students. This learning which is on working include: student center, AL method, IL method, collaborative learning method and CL method, however, the most popular and use in vast is the CL method which is the umbrella of learning in group [8, 9].

The vast gaps of CL in small group or in peer learning is recognizing CL from traditional learning and teachers' center of learning method which is prohibited from practicing CL effectively and efficiently. The issues associated in CL always the lack of knowledge and skill which is linked with unattractive behavior of the trainees, huge number of learners, shortage of classrooms, unfavorable educational environment, and perception, lack of joining of employees, perceiving as one time or seasons duty, scarcity of recruited teachers, employees turn over by seeking another work in connection with unattractive salary of the university. Moreover the situations of the Ethiopian politics and education policy of the higher institutions are affects CL. Because of instable politics, weak education policy of higher institutions and people perceive as may leave the area tomorrow or after tomorrow so that how to stable, join and work together are very tedious [20]. Thus, several past studies were not seen these gaps; about the issues affected adversely improvement of CL. Instability and endless satisfaction of the country's politics and poor or weak education policy of the Ethiopian higher institutions beside different ethnicity of the country they are limited the people interaction and affected CL in the university in particular. Previously different authors in different departments and disciplines they

were did the action researches to uproot or to pick up the problems of CL or to find the better alternative teaching and learning methods and to show the direction how to improve CL but currently at national level the active learning of IL in CL method should be preferred and on practicing in the Ethiopian higher education institutions. Thus, this action research was deal out the gaps that were not observed with several past studies as indicated in the specific objectives and serve as the base line for the coming generation to get well experiences and conducting their own action researches on the way of improvement of CL.

1.3. Objectives

1.3.1. General Objective

The general objective of this action research was to investigate the challenges (causes and factors) that were prevent from improving CL and implemented in practices and multiple systems of improving the practice of cooperative learning in the Oda Bultum University.

1.3.2. Specific Objectives

- 1) To identify the major factors and causes that are affects adversely implementation of cooperative learning
- 2) To assess the methods of CL easily adopted by the teachers and learners to improve CL
- 3) To evaluate the simplest alternative methods help how CL was successful
- 4) To evaluate efficiency and effectiveness of CL and their contribution on KSA
- 5) To evaluate the contribution of AL and IL to improve CL
- 6) To evaluate how available resources influences implementation of cooperative learning and teaching in the university
- 7) To evaluate the weakness and threat leadership to implement and improve cooperative learning

1.4. Questionnaires of the Study

- 1) What were the major factors and causes adversely affects CL?
- 2) What were the challenges prevent the success of CL?
- 3) How to develop students' social and academic interaction and sharing of diversity?
- 4) What were the contribution of CL on students KSA enhancement?
- 5) How to evaluate the efficiency and effectiveness of CL on the students learning?
- 6) How to assess and evaluate the contribution of IL and AL to improve CL?
- 7) How the available resources and leaderships influences CL adversely?

1.5. Scope of the Study

The scope of this action research covers the fundamental of the methods or systems of improving cooperative learning in practice through utilization of active learning and independent learning. It covers identification of causes and factors influencing use, improve and implementation of CL, identification of the weakness and threats of cooperative learning, identification of the challenges prevent CL from practicing. Moreover they cover the ways of implementation methods that help the students to improve knowledge, skills and attitude, identification of the benefits of CL that help the students learning in cooperative, evaluate own perception on CL by the students and teachers, linkage of academic and supportive staffs to support establishment of CL, perception of academic leadership against CL and their plan, and weakness of teachers based on overload or underload the students to engage duties.

1.6. Significance of the Study

It plays a crucial role in maintaining education quality, quantity and production of higher manpower; increasing both teachers and students performances teaching and learning in cooperative. It benefits several beneficiary groups or stakeholders: students, industries or companies, NGOs and government organizations. Of all it supports the students to practice cooperative learning by using active learning and independent learning, whereas the teachers are facilitator of instructional strategies. It commonly reflects students center and avoids the past learning of teachers centers or passive learning. It plays a great role on the maintenance of the education quality and made the students competent at national and international level. It eliminates the fear of taking the certificate of competence (COC). Help to maintain the sustainability of employers in the organization. It benefits the surrounded societies and the whole Ethiopian societies because of harvesting the higher level manpower having full of confidence and conflict solver. It will develop self-confidence on the students how to learn from each other's by sharing ideas about the subject matters and their diversity, culture and social values.

2. Materials and Methods

2.1. Description of the Study Area

Ethiopia is the landlocked country with boundaries from

latitude of 3 to 15N and from longitude 33 to 48E [18]. Geographically the Ethiopian land is laid between 36°00'E to 48°00'E longitude and 6°00'N to 12°00'N latitude and located between equator and tropic of cancer [2]. Geographically west Harareghe zone is located in Oromia National Regional State, Eastern Ethiopia. Oda Bultum University is the study area for this action research; it is located at 325 km distance from the capital city of Ethiopia and Oromia Addis Ababa. West Harareghe zone administrative line where the Oda Bultum University is located is approximately lie between 8°39'59.99" N latitude and 40°29'59.99" E longitude from the equator [21]. Geographical boundary of Chiro administration demarcation of the land of the lie is located between 9°00' to 9°15' N latitude and 40°45' to 41°00' E longitude where Chiro the capital city of west Harareghe zone and where OBU is situated [10]. West Harareghe zone laid under the warm to cool and semi-arid zone of the country where the OBU University is located which covers the temperate of the highlands of the altitude ranges from 1500m to 2500 m a. s. l. The annual average temperature vary from 16°C to 20°C, while the annual average rainfall ranges from 1200mm to 2400mm [10, 23].

2.2. Methodology

Sample Size and Sample Techniques

The study was considered three department of natural resource and environmental science college and supportive staffs' as a principals of the data collection. This is considered the representatives of the whole population of the colleges and departments found in OBU. The total of 32 representative target population of this study should be focused.

Sample size was determined using simple random sampling techniques of statistical probability by gave the equal chance of selection of the target population from the selected departments of natural resource and environmental science and supportive staffs purposefully [19]. The summary of sample size was described as below Table 1. 24 students, 5 teachers and 3 SSs. Overall 32 people was interviewed.

2.3. Source of Data

The data were collected from primary source of data only. The primary data were collected by construction of open, closed and semi-closed questionnaires through distribution to academic staffs and SSs.

Table 1. Representative sample size.

Academic staffs –Natural resource and environmental science college										Supportive staffs			
SRWM				Forestry				NRM				Male	Female
Student		Teacher		Student		Teacher		Student		Teacher			
Male	Female	Female	Male	Male	Female	Male	Female	Female	Male	Male	Female		
7	4	1	1	2	3	2		2	6	1		2	1
11		2		5		2		8		1		3	

24 students, 5 teachers and 3 SSs. Overall 32 people was interviewed.

2.4. Data Collection Method

The questionnaires were used to collect data from students, teachers and supportive staffs by used through distributed to department students, and teachers of the college of natural resource and environmental science and supportive staffs’ found under the OBU. Specifically the data were collected from forestry department students attend the second year, from soil resource and watershed management department students attend the third year, from natural resource management department students attend the second year, the teachers of the departments and the supportive staffs of the OBU.

2.5. Data Analysis

The major aim of analyzing data is to designed action research and to quantify and evaluate the importance of the possible sources of variations. The data was analyzed by using the Excel software 2013 version after arranged organized and provided the codes by subjected to the proposed software and analyzed. The analyzed data results were presented in descriptive statistics, table, figure and the average value of percentage [15].

3. Result and Discussion

3.1. Students Information/ Data Results and Discussion

3.1.1. Forestry Department

Table 2. Cooperative Learning help to Acquisition KSA.

Rs	NRs	SRs	PRs
Yes	5	3F and 2M	100

Rs	NRs	SRs	PRs
No	X		
Total	5		100

The respondents had responds that, 100% CL is helping us on our learning to acquire KSA. CL is significant to alleviate the problems occurred on learning; when the students learning in small group. CL is support us to achieve the goals of education Table 2 and Figure 1. CL is beneficial to learn from each other in the classroom, by telling and showing what they are thinking in mind [9]. The students thinking together either swim or sink, develop positive interdependence and confidence by learning face to face and improve the individual accountability. The students are develop social skills to solve conflicts, and act as leadership, trust building and communication [13].

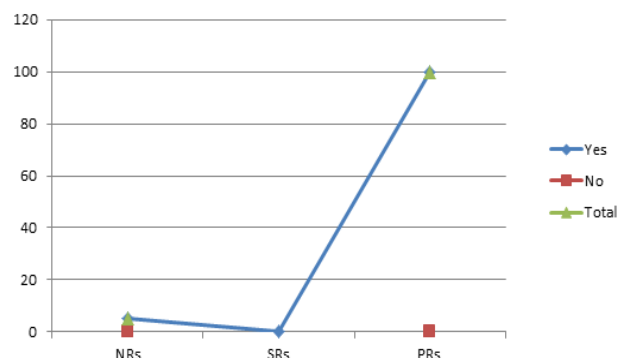


Figure 1. Helping of Cooperative Learning Students.

Table 3. Major Problems of Cooperative Learning.

Problems	NRs	SRs	PRs
Not directly	1	M	20

Problems	NRs	SRs	PRs
participate			
Use English language	1	F	20
Lack of awareness	1	M	20
Using short note	1	F	20
No problem	1	F	20
Total	5		100

The major challenges of CL as the respondents had responds were due to lack of direct participation of learners 20% and awareness 20% of male students had responds and use of English language 20% and use of short note 20% of female students had responds Table 3. Students’ participant should improve; academically and socially by develop confidence on learning by him/her self while teachers’ must set goals, plan and structure the tasks [13, 22].

Table 4. Overload of Cooperative Learning.

Load type	NRs	SRs	PRs
Home study	X		0
Assignment	2	F	40
Project	X		0
Case study	1	F	20
Practical	1	M	20
None	1	F	20
Total	5		100

The study results had showed that, the maximum load in CL is assignment which accounted about 40% and 20% project work as female students had responds whereas 20% of male students had respond that we are overload with practical work. But till home study and case study is zero practice Table 4 and Figure 2; this indicate that they needs efforts to improve cooperative learning in Oda Bultum University in the future. This is due to lack of teachers’ experiences in CL of AL to implement in practice. CL is the prototype of communication approach and one of the significant in the field of education, students work in group, take responsibility, practice the skill of scientific thinking, discovery and promote skill of gaining their knowledge [3].

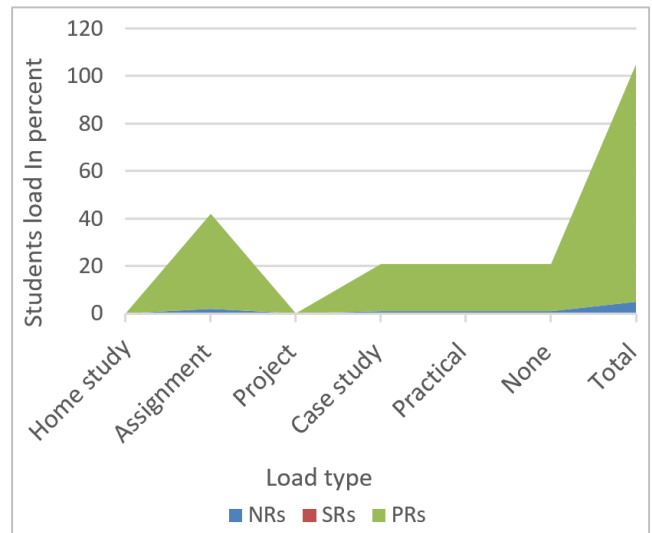


Figure 2. Overload to Students.

Table 5. Wants of Cooperative Learning.

RS	NR	SR	PR
Continue	5	3F,2M	100
Discontinue	X		
Replaced	X		
Discontinue and replace	X		
None	X		
Total	5		100

The representative respondents had said that 100% we were want to continue in CL Table 5 and Figure 3. Because students participate in courses and learn in cooperative had more benefited than other methods for instance, traditional learning such as teachers’ centered. This might be also more responsible taker than others on the job after graduated and recruited in the government and NGOs [13].

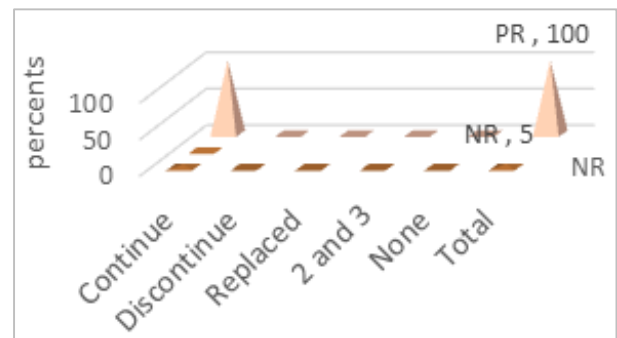


Figure 3. Students Want to Learn in Cooperative.

Table 6. Students learning method like more.

LM	NR	SR	PR
Active learning	2	2F	40
Passive learning	1	1F	20
Cooperative learning	2	2M	40
Independent learning	X		
3 and 4	X		
None	X		
Total	5		100

The findings of the study had revealed that, the students like more over the others learning methods to learn in AL and CL that are accounted about 40 percent of female; and 40 percent of male respondents and only 20 percent of female respondents like more the passive learning Table 6 and Figure 4. This might be students learn in CL and AL due to the achievement of interdependence, accountability, increase responsibility, leadership, develop social skills, increase feedback and assessment, motivation of individuals, share culture, appreciation and create understanding, develop positive environment in the classroom, help to develop essential life style and improve academically (achieved high score of grade) and social interaction [3].

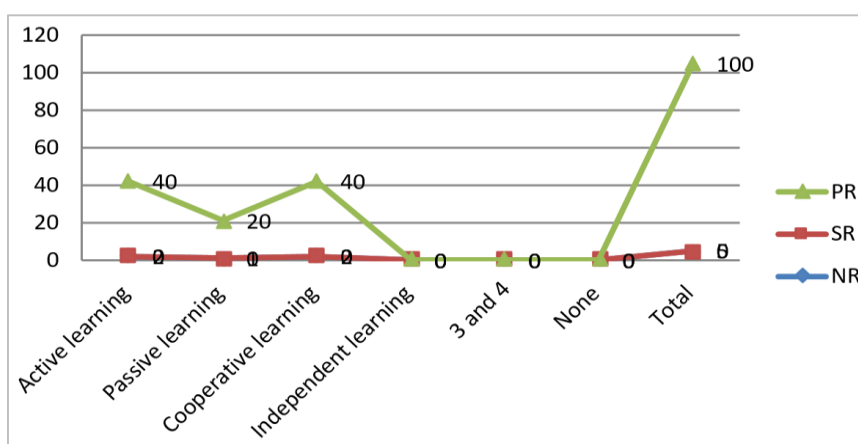


Figure 4. Students Learning Method Like More.

Table 7. Learning Method Preferred More in Own Perception.

LM	NR	SR	PR
Active learning	1	F	20
Passive learning	1	F	20
Cooperative learning	2	1F and 1M	40
Independent learning	Nil		
Dependent	1	M	20
Total	5		100

Majority of the female and male learners which accounts about 40 percent were preferred cooperative learning whereas 20% of female students like active learning and 20% of female students' preferred passive learning Table 7; and the problems had showed linear relationship Figure 5. CL has positive in-

terdependence and develop confidence of knowing things, because of encourage the students socially and academically [17]. CL enhance the students sharing their thinking by telling and showing why and what they are going in their mind about the tasks and learn from each other [16].

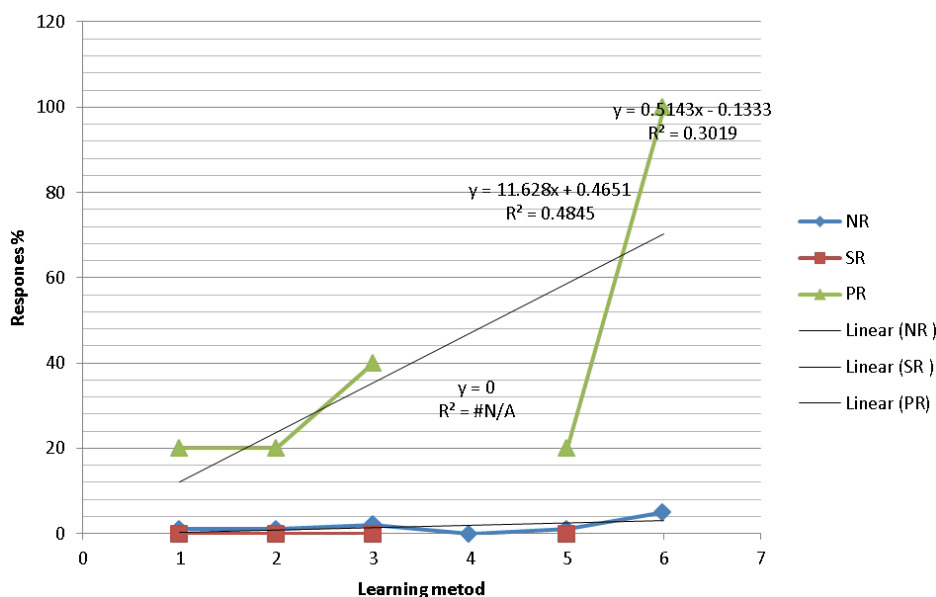


Figure 5. Learning Method and Their Responses.

Table 8. Beneficial of Cooperative Learning.

Beneficial	NR	SR	PR
Knowledge	X		0
Skill	X		0
Good attitude	X		0
All	5	3F, 2M	100
Knowledge and skill	X		0
Total	5		100

lecturing methods [5, 6] while CL change this passive recipient of information. In CL the students think individual in mind and share their common idea that is thinking, individual reaction in the group affects the outcomes, learn independent and at the end confidential academically and socially or social interdependence, and develop self-esteems. Students work effectively on duty and benefits the group while students work ineffective on duty fail. Individual students measured by cumulative outcome of group [1].

3.1.2. Soil Resource and Watershed Management

Table 9. Cooperative Learning help to Acquisition Knowledge, Skill and Attitude.

Rs	NRs	SRs	PRs
Yes	11	3F,6M	100
No	2	1F, 1M	0
Total	11		100

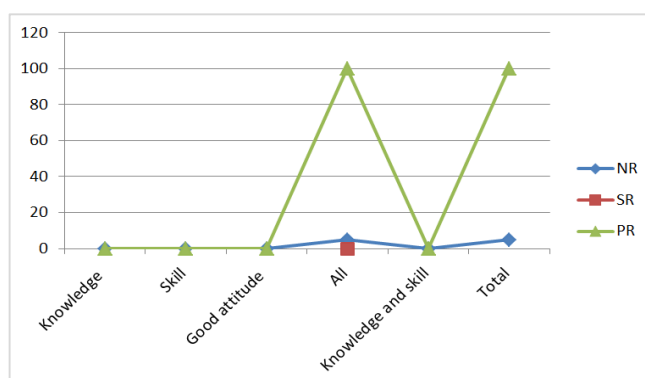


Figure 6. Students Beneficial in Cooperative Learning.

The results of the study had indicated that, 100 percent the students benefited from CL Table 8. CL scaling up the quality of education; Figure 6. Because, the students are passive recipient of information present by teachers using traditional

The respondents had responds that, 100 percent of CL is more helping us to acquaint KSA. Learning in cooperative made the students' KSA and showed an exponential growth rate Figure 7 and Table 9. CL is very beneficial to learn each other in the classroom [3, 9]. The students develop positive interdependence. Learning face to face, develop individual accountability. Successful cooperative learning help students in learning how to learn and a necessary actor on the current thinking of sustainable assessment [5].

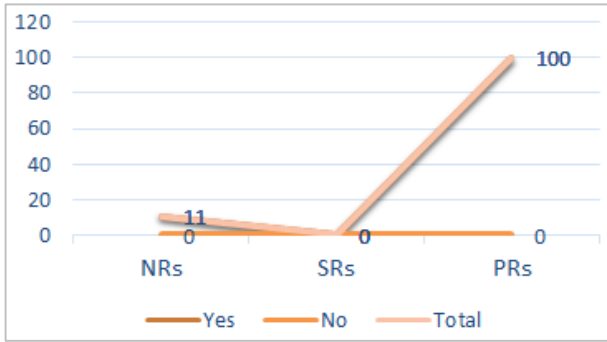


Figure 7. Students Learning in Cooperative.

The majority of the students both male and female that were accounted about 18.18% had responds that, the problems of CL is incorrect information transferring, whereas about 9.09% had said resource limitation Table 10 and Figure 8. CL yet the teachers’ might be propensity to talk to students who are listen and responds [16]. Teachers seldom to encourage the students to express their opinions in the classroom. Families’ are discourage childrens’ in verbal communication and childrens are not likley to participate in the families’ discussion such as collective culture that lead to less willingness to commuicate [20]. The major problems of CL in group consume time, and lack of space.

Table 10. Problems in cooperative learning.

Problems	NR	SR	PR
Unawareness	1	1F	9.09
Not normally possessed	1	M	9.09
Time and space	2	1M, 1F	18.18
Time, place and un-interaction between them (students)	1	1M	9.09
Resource limitation	1	1M	9.09
Transferring of incorrect information and receptiveness	2	1F, 1M	18.18
Individual’s	1	1M	9.09
Time and shortage of knowledge	1	1F	9.09
No problem	1	1M	9.09
Total	11		100

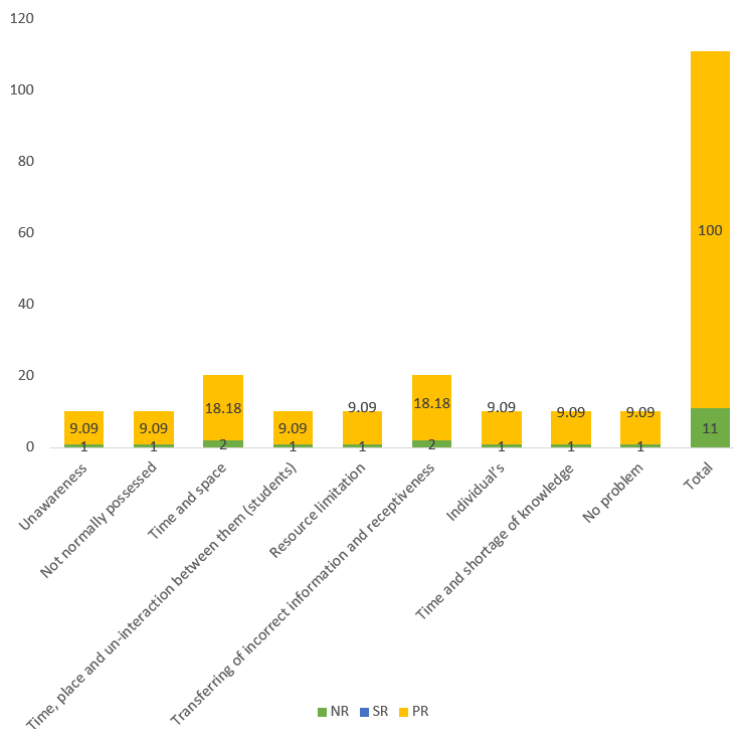


Figure 8. Major Problems of Cooperative Learning.

The results had showed that, learning in cooperative, over- load more by assignment work which accounts about 36.36%, whereas nothing is over load with case study; yet in our learning Table 11. In Cooperative learning in terms of area coverage the assignment has scored the highest area and the practical cover the next highest coverage, whereas home study and project are covers the least area. About 36.36% had respond with assignment. About 18.18% overloaded in practical work whereas case study is zero load Figure 9. These issues secretes from lack of teachers’ training and experience in cooperative

learning how to handle the students learn in group. Another factor is collective culture that leads to willingness to communicate, for instance *Thaior Thailand communication culture challenges for the national educational reform, in particular, social-constructivist teaching practices* due collective cultures and ethical diversity [20]. Students sonicating during group activities and not working nothing, requires managing time effectively and the preparation required for teaching and learning in cooperative from teachers [11].

Table 11. Overload of cooperative learning.

Activities	NR	SR	PR
Home study	1	1M	9.09
Assignment	4	1M, 3F	36.36
Project	1	1M	9.09
Case study			0
Practical	2	2M	18.18
None	3	2M,1F	27.27
Total	11		100

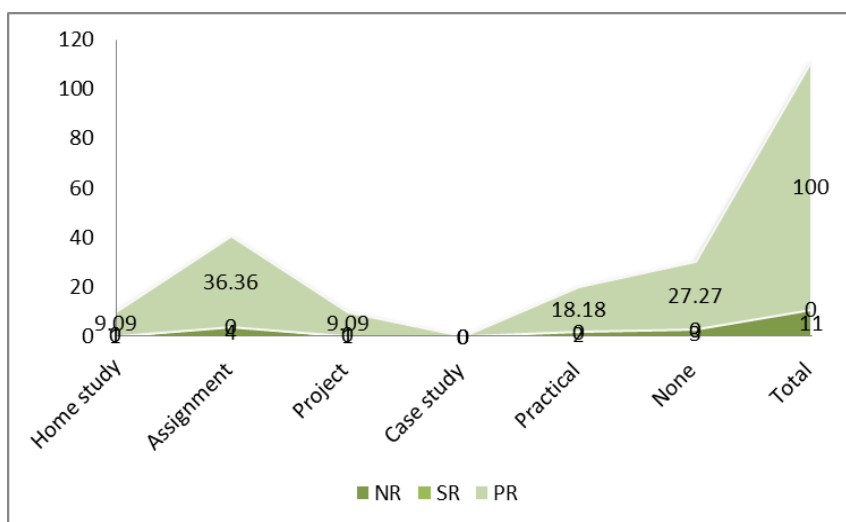


Figure 9. Area Coverage of CL Activities in Percentage.

Table 12. Wants of Cooperative Learning.

Wants	NR	SR	PR
Continue	9	4F, 5M	81.82
Discontinue	X		0
Replaced	X		0

Wants	NR	SR	PR
Discontinue and replaced	2	2M	18.18
None			0
Total	11		100

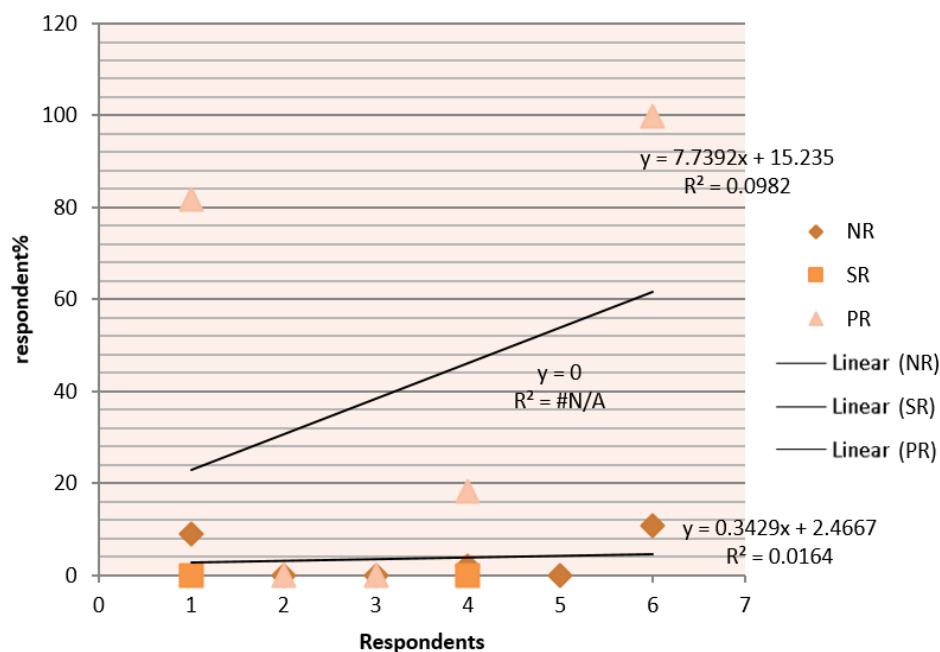


Figure 10. Wants of the Students Learning.

As the results of Table 12 and Figure 10 had indicated 81.82% of the respondents had responded that we want to learn more in CL. This implies that CL in principles might be include in the group gender, religious, ethnicity, age, personality, social class, language efficiency and diligence [16]. There is a linear relationship or positive correlation between sex of respondents, number of respondents and percent of respondents in

continuing to learn in cooperative Figure 11. CL is intercultural understanding, improved academic and social achievement, deeper learning, improve interpersonal skills and long term retention, transfer of learning, and enhancement of individual abilities to use knowledge [6].

Table 13. Learning Method like More.

LM	NR	SR	PR
Active learning	2	1M, 1F	18.18
Passive learning	X		0
Cooperative learning	9	6M,3F	81.82
Independent learning	X		
Cooperative learning and independent learning	X		
None			
Total	11		100

As the results of Table 13 above had indicated about 81.82% of respondents both male and female had said that, we are like to learn in cooperative more. Because of learning from each others are very easy than learning in individual, passive and teachers' center of learning. However, the respondents which accounts about 18.18% had like more active learning, but not want to learn in passive learning Figure 11. In line with this study the past study done by [16] had been shown that, *today cooperative education programs exist in 88 Canadian post-secondary institutions with an enrollment of more than 78,000 students.*

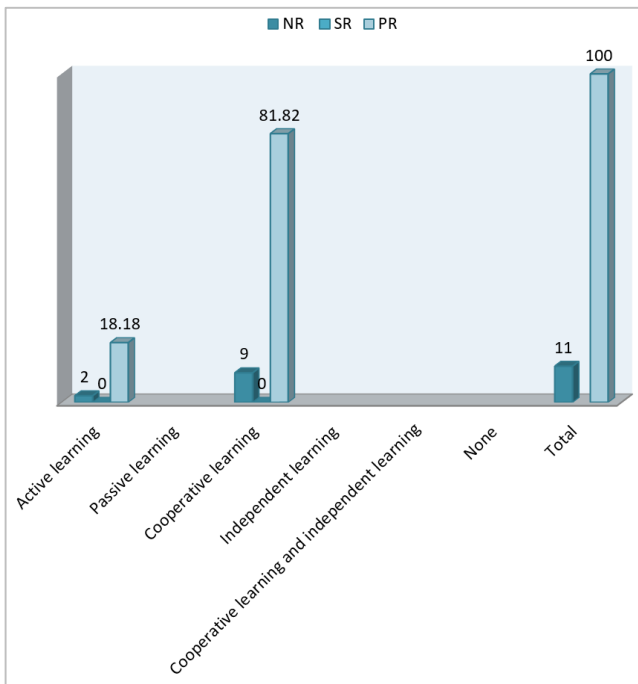


Figure 11. Learning Method like More.

Table 14. Learning method preferred in own perception.

LM	NR	SR	PR
Active learning	3	2M,1F	27.27
Passive learning	1	1M	9.09
Cooperative learning	5	2F, 3M	45.45
Independent learning	1	1M	9.09
Dependent	X		0
Total	11		100

The results of the study had been shown that, about 45.45% of the respondents of both male and female students had said that learning in cooperative is preferred by our own perception because of it is the better to achieved the goals, mission, vession and objectives of the higher education of the

subject matters. About 27.27% of male and female students had responds that in their own perception passive learning is perferred, but only male students are perferred independent learnig (9.09%) and passive learning(9.09%) Table 14 and Figure 12. CL has positive interdependence and develop confidence of knowing things because of encourage the students socially and academically [16]. CL is increases the student thinking what about going on in their mind and share with others by showing and telling about the tasks [16].

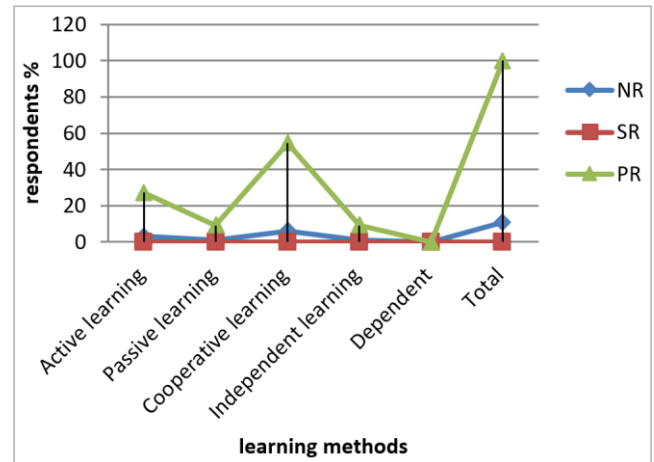


Figure 12. Learning Method Perferred More.

Table 15. Beneficial of Cooperative Learning.

Beneficial	NR	SR	PR
Knowledge	X		0
Skill	X		0
Good attitude	X		0
All	7	1F, 6M	63.64
Knowledge and skill	4	1M,3F	36.36
Total	11		100

As Table 15, above had showed about 63.64% of respondents had responded that, CL is beneficial to achieved knowledge, skill and attitude than the others or past methods of learning that is teachers' center of learning and traditional teaching method. But, no one had respond that CL is beneficial to acquire our knowledge, skill and attitude in separate behavioral change in positive Figure 13. *Successful cooperative learning tasks are intellectually demanding, creative and open-ended. They involve higher order thinking skills and lead to lively discussion and active "deep learning."* "Deep learning", as opposed to surface learning, examines new facts and ideas critically, encourages students to relate ideas to one another [5].

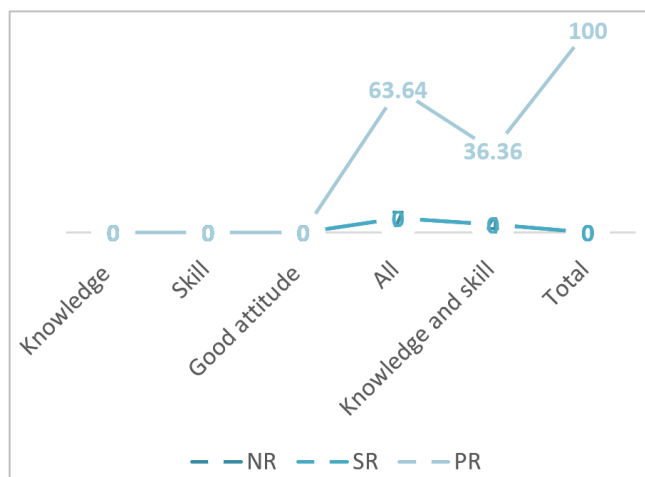


Figure 13. Beneficial of Cooperative Learning.

3.1.3. Natural Resource Management

Table 16. Helping of Cooperative Learning to Acquisition Knowledge, Skill and Attitude.

RS	NR	SR	PR
Yes	8	2 F, 6M	100
No	X	-	0
Total	8		100

According to Table 16 above, 100 percent cooperative learning are helping our much more to acquisition of knowledge, skill and attitude. The students' knowledge is growing an exponential rate Figure 14. This implies that, CL improves student's self-confidence, communication skills in the classroom, develop accountability and responsibility by enhancing socially and academically to achieved the goals and aims. CL has positive impacts on the educational processes [3].

Table 17. Major Problems of Cooperative learning.

Problems	NR	SR	PR
Attitude, experience of developed	1	1M	12.5
Attitude, experience, social and community developed	2	1M, 1F	25
Passive, love and social developed	1	1M	12.5
Attitude, experience, development and social community	1	1M	12.5
No response	1	1M	12.5

Problems	NR	SR	PR
In learning process complex or not simple e. g. hand out is huge	1	1F	12.5
Social development, community participation	1		12.5
Total	8		100.00

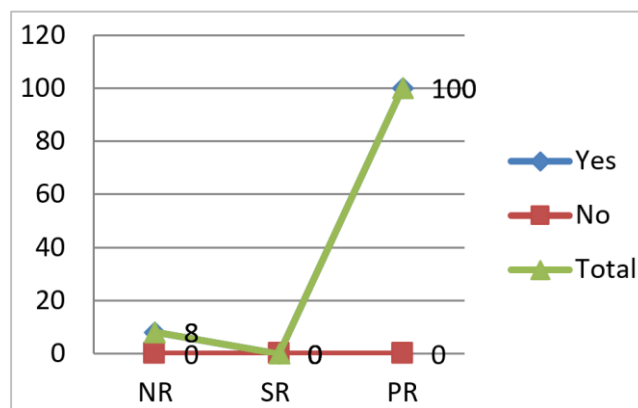


Figure 14. Cooperative Learning Help the Students to Acquire KSA.

The results had showed that, about 25% of the respondents had said that, the major problems of cooperative learning are obstruction to improve in practice are attitude, experiences, social and community developed Table 17 and Figure 15. This implies that learning in cooperative is adversely affected by attitude and experience of teachers; and social and community development [16]. Unless the attitude of the teachers change; the students' attitude to learn in cooperative could not change. The teachers has positive experience with cl but the difficulty is implementation of cl in practices in the class [11].

Table 18. Overload in Cooperative Learning.

Activities	NR	SR	PR
Home study			
Assignment	6	4M, 2F	75
Project			
Case study			
Practical	1	1M	13
None	1	1M	13
Total	8		100

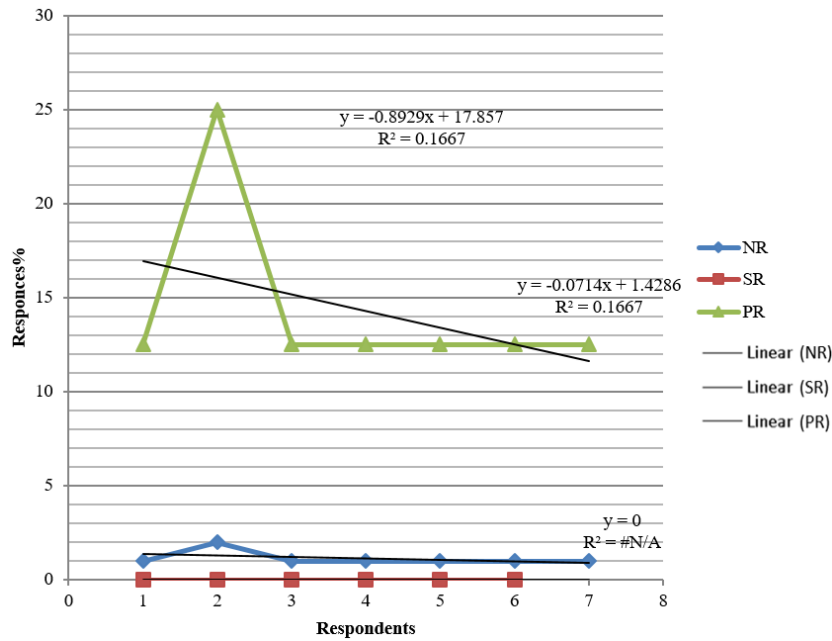


Figure 15. Major Problems in CL Prevent from Implementation in Line Graph.

About 75% of the cooperative learning is overload the students with assignment or covers about 75 in terms of area Figure 16. A few of teachers might teach the students in practical and according to the respondents had said about 13% yet. However, still homestudy, project work and case study are not practiced except in idea Table 18. This might be due to lack of teachers' training and experience to handle students in group with CL why overlod with one activity more than the others [6, 7].

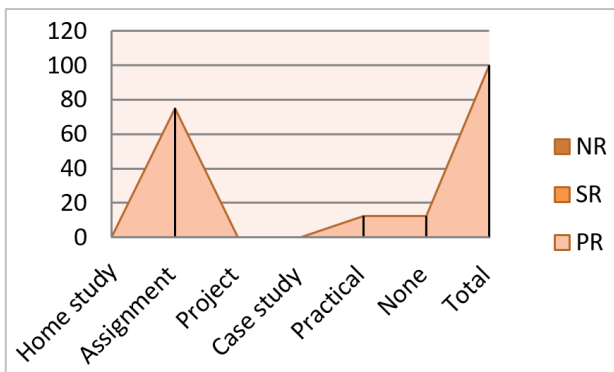


Figure 16. Activates in Cooperative Learning Overload.

Table 19. Wants of Cooperative Learning.

Wants	NR	SR	PR
Continue	6	2F, 4M	75
Discontinue			
Replaced			

Wants	NR	SR	PR
2 and 3	2	2M	25
None			
Total	8		100

As Table 19 above was showed that, 75% of male and female respondents are want to learn in CL and had said continue, while about 25% of male respondents want to discontinue and replaced CL by other learning methods. As the Figure 17 below had indicated that decline and increasing of CL wants by students. This implies that because of CL in principles might be include in the group gender, religious, ethnicity, age, personality, social class, language efficiency and diligence [13]. This fact of study implies that, experts, teachers, parents, and students were utilized as sources for analyzing the benefits and drawbacks to using cooperative learning in schools [7].

Table 20. Cooperative learning like more.

LM	NR	SR	PR
Active learning	5	3M, 2F	62.5
Passive learning			
Cooperative learning	1	1M	12.5
Independent learning			

LM	NR	SR	PR
3 and 4	2	2M	25
None			
Total	8		100

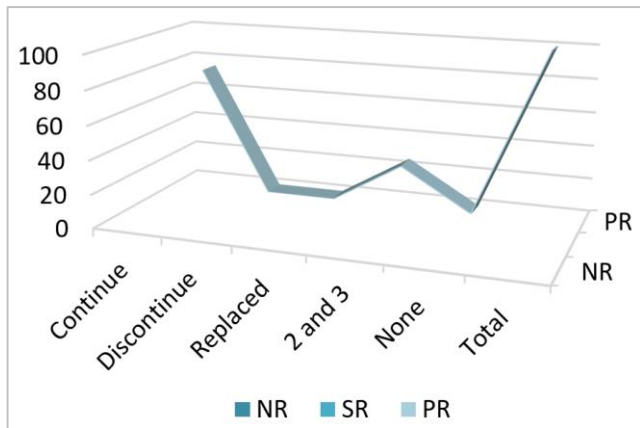


Figure 17. Wants of cooperative learning.

The results of the study had showed that, about 62.5% of both male and female of the respondents like active learning method while about 12.5% of male respondents had like cooperative learning. About 25% of male respondents had like independent learning and cooperative learning Table 20 and Figure 18. This implies that because of CL in principles might be include in the group gender, religious, ethnicity, age, personality, social class, language efficiency and diligence [16], but the students might not be aware about these principles of CL by teachers or the teachers might not be experienced in CL.

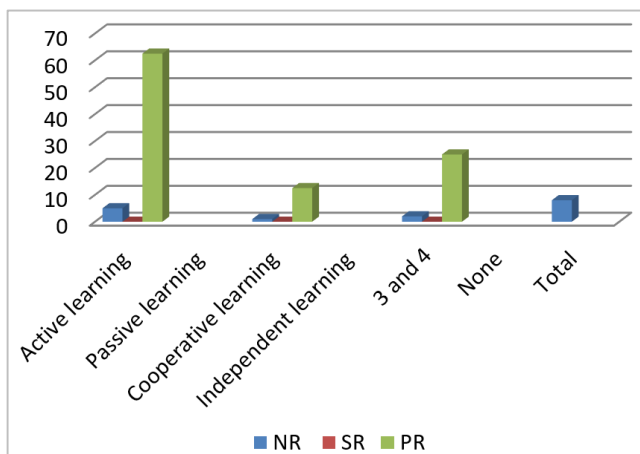


Figure 18. Cooperative learning methods.

Table 21. Learning method preferred more in your own perception.

Learning method	NR	SR	PR
Active learning	5	4M,1F	62.5
Passive learning			
Cooperative learning	2	1F, 1M	25
Independent learning	1	1M	12.5
Dependent			
Total	8		100

The results of the study had showed that, about 62.5% of the male and female respondents' preferred active learning by their own perception and about 25% of male and female by their own perception had preferred CL, whereas 12.5% of male respondent preferred independent learning Table 21. This is due to CL has the potential to enhance the students socially and academically. Moreover, enhances students' communication in the classroom by increasing deep thinking and then what they are thinking they will tell confidentially about the task [16]. CL has positive interdependence and develop confidence of knowing things because of encourage the students socially and academically [17].

Table 22. Beneficial of cooperative learning.

Beneficial	NR	SR	PR
Knowledge			
Skill			
Good attitude			
All	7	1F, 6M	87.5
Knowledge and skill	1	1F	12.5
Total	8		100

As the results had revealed that, about 87.5 percent of the male and female respondents had said that we are benefited more from learning in cooperative Table 22 and Figure 19. However, only 12.5% of female respondents had said that we are benefited more in knowledge and skill from CL. This study in line with the past study done by [6, 7] which had revealed that *the benefits of using cooperative learning are well supported by theory and well established by classroom research; most of which have to do with individual student resistance and dysfunctional teams.*

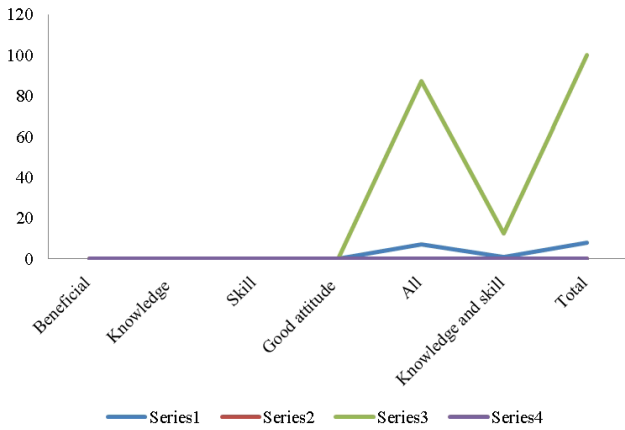


Figure 19. Beneficial of learning in cooperative.

3.2. Teachers Information Results and Discussion

3.2.1. Forestry Department

Table 23. Perception about cooperative learning.

Responses	NR	SR	PR
Effective	1	M	50
Ineffective	1	M	50
Total	2		100

According to the respondents that had responded about 50 percent is effective perception in CL while about 50 percent is ineffective in perception in learning with cooperative Table 23 and Figure 20. The main reasons why 50 percent of the learners' is ineffective due not to well organize; of teachers and resources needs for teaching and learning well. Hence without this it is impossible to justify cooperative learning in higher education. This is might be due to teachers' controls of the channel communication, lack of understanding how to use this pedagogical practices, and demands organized in curriculum [7].

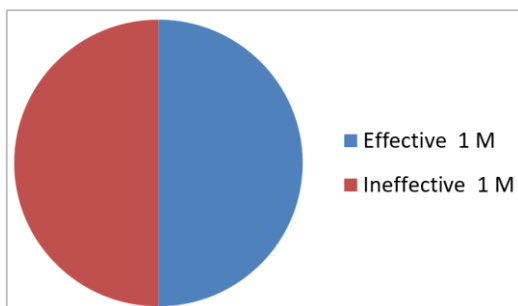


Figure 20. Perception of cooperative learning.

Table 24. Teacher's attempt to solve the challenges of cooperative learning.

Responses	NR	SR	PR
Yes	1	M	50
No	1	M	50
Total	2		100

As the results of the study had showed that, the respondents were attempted to solve fifty percent of the challenges of cooperative learning. Even though 50 percent is not attempted to alleviate the issues but they were tried to solve by mobilizing the members of the department Table 24. This is indicated that it is very hard to solve at one time and implemented the CL because of mostly it is acted by traditional teaching, teachers' center of learning. In support to this study the first Canadian cooperative education was started at the University of Waterloo, while the America cooperative education was impaired by the sandwich program existed in the United Kingdom since 1940, however, the first cooperative learning programs both in United States and Canada were met with great resistance from both traditional educators and non-committed industrialists; however, these two programs expanded very quickly and proved to be successful [13]. Teachers, promote cooperative investigation, problems to solve and reasoning to established CL and solve challenges like social interaction and ethical diversity problems within the groups [7]. Teachers however has a positive attitude against CL to solve the challenges [11].

Table 25. Trends observed on the students after the implementation of the cooperative learning.

Responses	NR	SR	PR
Yes	1	1M	50
No	1 No choice	M	
Total	2		50

The results of the study had been shown that, about 50 percent of the respondents had said that there was the better and encouraging changes observed on the students Table 25 and Figure 21. The aim of cooperative learning to organize classroom into academic and social learning [11]. Every students succeed when the group succeed whereas the teacher's change from information giving into facilitators of strategies of setting plan and goals of education concerning the subject matters. Working in group is more effective in quality, quantity and production of quality manpower as compared to working alone [24].

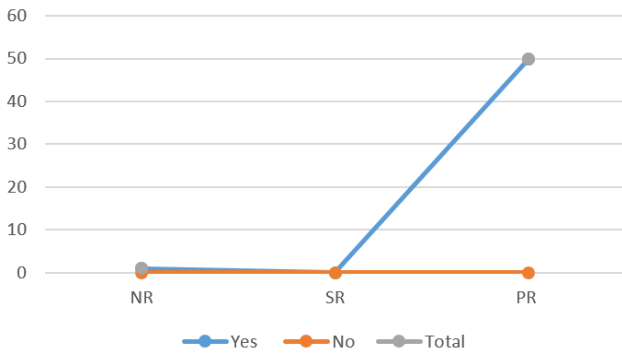


Figure 21. Trends observed on the students in cooperative learning.

Table 26. Ways used to simplify, appreciated and adopted the cooperative learning by students.

Responses	NR	SR	PR
Yes	2	M	100
No	X	M	
Total	2		100

As the analyzed results of the study had revealed that; 100 percent of the respondents of the male interviewers were responded that, we were attempted to enhance the adoption and appreciation of CL in a simple ways by the students Table 26 and Figure 22. Cooperative learning when the students learn together in small group it is more simple, appreciable and acceptable [17]

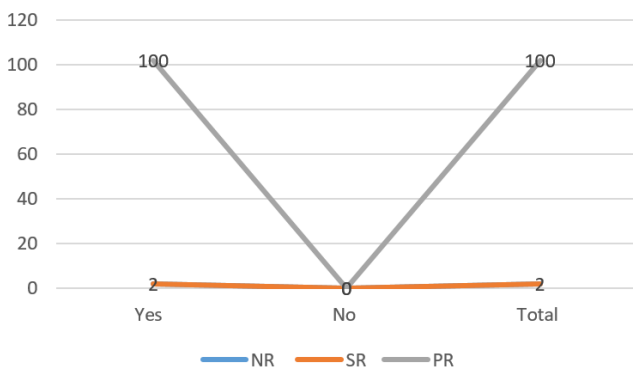


Figure 22. Simple and adopted method n cooperative learning.

Table 27. Service provided.

Service	NR	SR	PR
In Oda Bultum university	1	1M	50
Other universities	1X	1M	
No selection	2	2M	50

The findings of the study had been shown that, 50% of respondents had said that, no experience in other similar universities found in Ethiopia except in Oda Bultum University Table 27. This might be affects the trends that might be observed on the students learn in cooperative learning [6]. Because experiences and obtaining training in cooperative learning have one of the tool to adopt, and implement in simple ways the CL.

Table 28. Practiced learning method more

Service	NR	SR	PR
Collaborative	X		
Cooperative	1	1M	50
No selection	1	1M	50
Total	2		100

According to the results of the study had revealed that, more practiced in cooperative learning; which accounted about 50% of the respondents of the department teachers' had said. Moreover, no collaborative learning practices in cooperative learning was attempted till Table 28 and Figure 23. This implies that CL is the better to brought changes on the students if well-organized, in resources, trained well, implemented and learn in cooperative to achieved KSA [9].

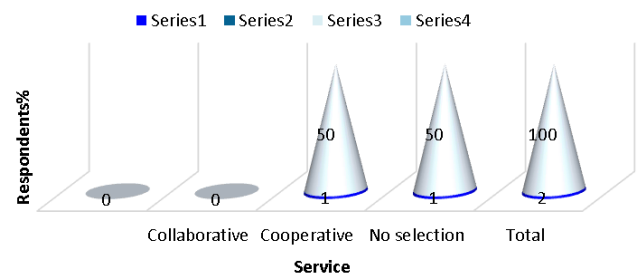


Figure 23. Learning methods practiced.

Table 29. Appropriate of CL from economic, social, cultural and ethnicity point of view

Response	NR	SR	PR
Yes	2	2M	100
No	X		
Total	2		100

As Table 29 above had showed, from the perspective point of economic, social, cultural and ethnicity, the respondents are

responded that based 100% cooperative learning is very significant in higher education institution and the most appropriate from perspective point of economic, social, cultural and ethnicity while affected by various factors. These factors include such as environment, addiction by teachers and students, strength and weakness of the organization in resources of teaching and learning and their integration of the staff members are adversely affected practicing of CL [3]. From perspective point of economic, social, cultural and ethnicity CL is very challenging to establish [7]. Other issues include in addition to these factors such as composition of groups tasks undertaken by groups, social skills training and assessment of evaluation in the group required [11].

Table 30. Want if in Cooperative learning.

Wants	NR	SR	PR
Discontinue	2	2M	100
Continue	X		
Replaced	X		
2 and 3	X		
None	X		
Total	2		100

The respondents had said that we wants to discontinue cooperative learning 100%, whereas no one had responded that either continue or discontinue or replaced by others method Table 30 and Figure 24. This might be due to teachers' lack of experience, train in CL and previously dependent of traditional learning |teachers' learning and teaching of traditional learning method which is refer to note writing and reading by the students. Because, *in a cooperative learning environment, learners are encouraged to be in the center of learning and learn together* [9].

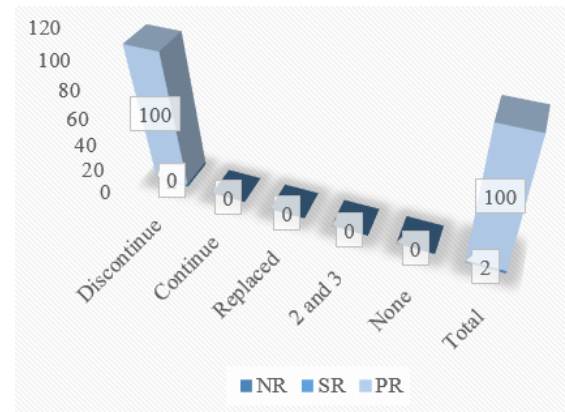


Figure 24. Show the wants of cooperative learning by the teachers.

Table 31. Learning method that like more.

Learning method	NR	SR	PR
Active learning	1	1M	50
Passive learning	X		
Cooperative learning	1	1M	50
Independent learning	X		
3 and 4	X		
None	X		
Total	2		100

The respondents had been responded that 50% like active learning. This might be due to lack experience how to handle students in group learning by the teachers while about 50% of the respondents they were like learning in cooperative. These might be fed each other's. No one of them had needs or like the passive and independent learning methods and also the combination of cooperative and independent learning Table 31 and Figure 25. Since that, learners will not enjoy learning in CL if it happens in isolation [9].

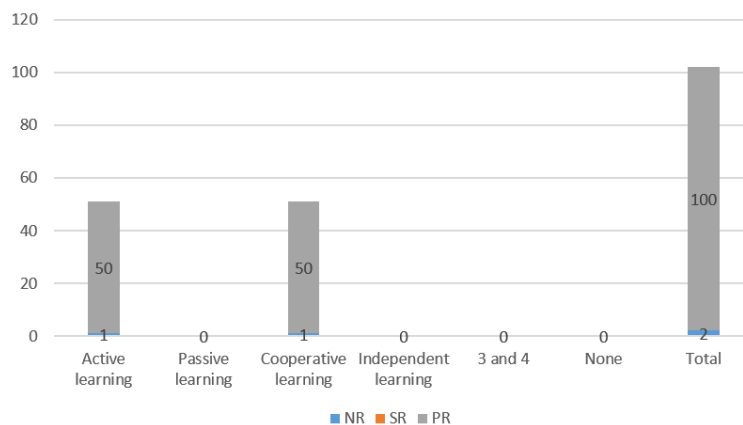


Figure 25. Learning methods like more by the teachers.

Table 32. Learning method preferred more in your own perception.

Learning method	NR	SR	PR
Active learning	X		
Passive learning	X		
Cooperative learning	2	2M	100
Independent learning	X		
Dependent learning	X		
Total	2		100

The results of the study had disclosed that, in their own perception 100% preferred the cooperative learning method Table 32 as the representative respondents were said. Hence, that CL is improve social, academics, share culture, enhance self-esteem, develop accountably and inclusively to solve problems, develop capability and skills in critical thinking and provide more effective education for the students [19].

Table 33. Incorporating cooperative learning with others to improve more than the current situation.

Incorporating with	NR	SR	PR
Need a research study to know the gap		1M	50
Active learning	1	1M	50
Total	2		100

As Table 33 above had showed about 50% of the respondents were said that before incorporate with other learning methods to improve cooperative learning it needs conducting an action research to know the gap or gaps existed in CL of teaching and learning processes in higher education institution to harvest the higher quality manpower while 50% had said that incorporating with active learning is improve the cooperative learning more than the current the students status of skill and knowledge in higher education institutions [5]. This implies that there are a few of demerit of CL [9] for instance, the teachers teaching the students and the students speak by repeat in traditional teaching and learning methods, but CL is improve this flow of communication [16].

Table 34. Weakness and threats in the curricula and must be correcting.

Weakness	NR	SR	PR
Duration of the study year (it should be four year)			

Weakness	NR	SR	PR
	1	1M	50
Replaced by new proposed curriculum as soon as possible	1	1M	50
Threats			
Total	2		100

The results had showed that, about 50% of the respondents had said that the weakness of CL is duration and 50% had said that replacement of curriculum by new once is crucial to improve CL. But no any threats had responds about CL Table 34. *Interdependency among the learners, they learn together and learning is part and parcel of each other, they work in a small group and plan to finish a product together.* CL is different from traditional group work but the students ask to work together without give attention [14].

Table 35. Integrating active learning with cooperative learning to improve students' confidence, social and cultural interaction.

Responses	NR	SR	PR
Yes	2	2M	100
No	X		
Total	2		100

The results of the study had indicated Table 35 integration of CL with AL is improve CL 100% because improve the student's confidence academically, socially and cultural interaction and transferring, improved skills of knowledge [5]. This might be due to criteria of element of CL that is improve interdependence (*the feeling among group members that what helps one member helps all and what hurts one hurts all*); *face-to-face promotive interaction (students need to be interacting with one another, not just members of the same group)* [3, 14]. Cooperative learning is a pedagogical practice that has attracted much attention for the last three decades and students gain both academically and socially [11].

3.2.2. Soil Resource and Watershed Management

Table 36. Perception about cooperative learning.

Responses	NR	SR	PR
Effective	2	1F, 1M	100
Ineffective			

Responses	NR	SR	PR
Total	2		100

The respondents who are accounted about 100% had said that teaching in cooperative learning is the best alternative of teaching mechanism Table 36 and Figure 26. CL was more effective to make the students more knowledgeable and skill full in attitude. This study was in line with the past study done by [12] had reported that, *cooperation was more effective than interpersonal competition and individualistic efforts; cooperation with intergroup competition was also superior to interpersonal competition and individualistic efforts; and, there were no significant differences between interpersonal competitive and individualistic efforts.* Implementation of CL should be reflects the teachers’ action that they were did on the learners in concrete [5].

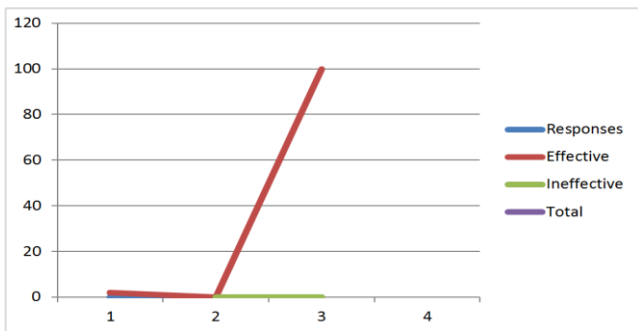


Figure 26. Perception of CL.

Table 37. Teacher’s attempt to solve the challenges of cooperative learning.

Responses	NR	SR	PR
Yes	1	1M	50
No			
Missing	1	1F	
Total	2		50

As the result of Table 37 had indicated that we were attempted to solve about 50 percent of challenges of CL. This might be happened due to teachers’ lack of experiences and training in CL. This might be as a result of the difficult to handle the students learn in cooperative in the classroom [7, 12].

Table 38. Trends observed on the students after implementation of cooperative learning.

Responses	NR	SR	PR
Yes	1	1M	50
No	1	1F	50
Total	2		100

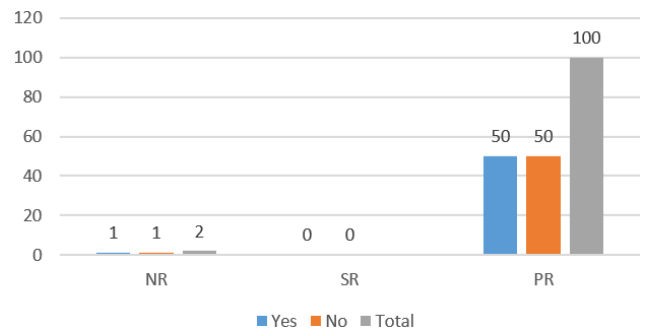


Figure 27. Trends observed on the students in cooperative learning.

As the respondents were responds about fifty percent observed the significant trends on the students’ by implementation of CL Table 38 and Figure 27. This might be encourage the academicians to be do in integration more to produce a great trends on the students. Teachers’ promote cooperative investigation, problem solving and reasoning to established CL and solve challenges such as social interaction and ethical diversity problems within the groups [6]. Students observe the issues, clarify and share idea that will help to construct new understanding [11].

Table 39. Ways used to simplify, appreciated and adopted the cooperative learning by students.

Responses	NR	SR	PR
Yes	2	1M, 1F	100
No			
Total	2		100

As the above Table 39 and Figure 28 had indicted 100 percent CL is the simple, adopted and appreciated of teaching and learning method over the others methods. CL when students learn together in small group is more simple, appreciable and acceptable [17]. Cooperative learning has a positive impact on the educational processes [3].

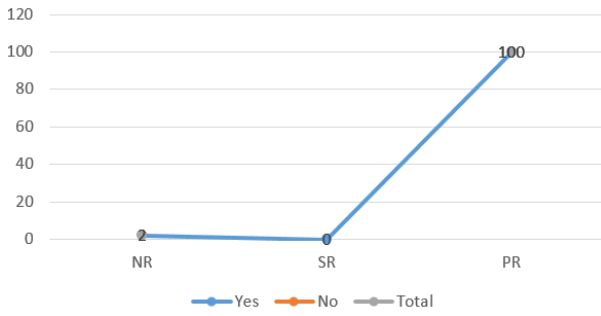


Figure 28. Simple adopted in CL.

Table 40. Service provided.

Service	NR	SR	PR
In Oda Bultum university	1	1F	50
Other universities	X		
No selection	1	1M	50
Total	2		100

According to the respondents had revealed that we were service in Oda Bultum University only and we were not experienced from others similar organizations about CL Table 40. This could be made the difficult CL to handle the students learn in small group and implemented CL in practice. This might be affects adversely the CL to be adopt and run in simple method of learning by the teachers [6].

Table 41. Practiced learning method.

Service	NR	SR	PR
Collaborative	x		
Cooperative	2	1M, 1F	100
Total	2		100

The respondents had said that, we were practiced 100% CL in the classroom to implement and improved the students learning status Table 41 and Figure 29. CL is improve the students accountability, sonically and academically, enhance self-esteems, and confidential between students learn in cooperative and improve ways of solving the problems face to face in CL [13]. Cooperative learning enable the students to be effectively and complete practical activities especially in science subjects [17].

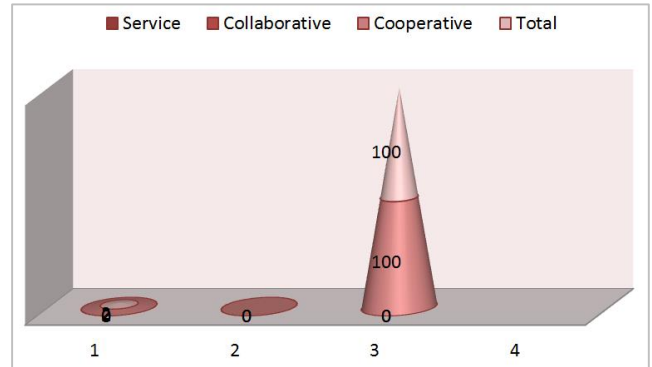


Figure 29. The learning method practiced.

Table 42. From economic, social, cultural and ethnicity point of view cooperative learning appropriate.

Response	NR	SR	PR
Yes	2	2M	100
No	X		
Total	2		100

As the result had indicated Table 42 above, 100% CL has a positive impact on the educational processes and the appropriate over the others methods from economic, social, cultural and ethnicity point of view Figure 30. This study was in line with past study did by [3, 11] who had revealed that, CL is eliminates the isolation and seclusion of some introvert learners and increases motivation to learn from the perspective view of economic, social, cultural and ethnicity.

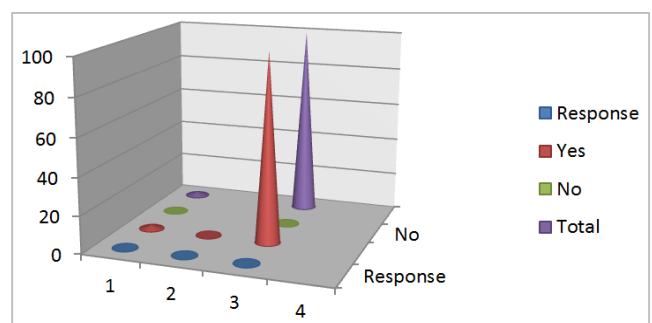


Figure 30. CL from economic, social, cultural and ethnicity.

Table 43. Want if cooperative learning.

Wants	NR	SR	PR
Discontinue	2	1M, 1F	100
Continue	x		
Replaced	x		

Wants	NR	SR	PR
2 and 3	x		
None	x		
Total	2		100

The results of the study had indicated that Table 43, 100% we are wanting if CL should be discontinued as the respondents had said. This result had not parallel with the past study done by [9] which had revealed that, *in a cooperative learning environment, learners are encouraged to be in the center of learning and learn together*. The wants had been shown that linear regression of discontinues of CL Figure 31.

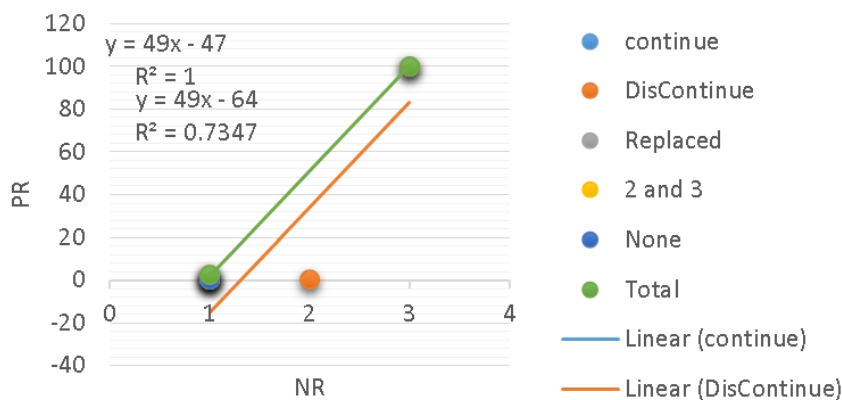


Figure 31. Wants if learn in cooperative learning show linear relation of regression.

Table 44. Learning method that like more.

Learning method	NR	SR	PR
Active learning	1	1M	50
Passive learning	x		
Cooperative learning	1	1F	50
Independent learning	x		
3 and 4	x		
None	x		
Total	2		100

32, we are like more to learn in cooperation which accounted about 50% in CL as the respondents had responds but about 50% of respondents had like more to learn with AL verses to traditional learning of teachers' center and traditional group work [3]. CL is brings together students with different academic abilities, sex, and race background to work in collaborative [17].

Table 45. Learning method preferred more in your perception.

Learning method	NR	SR	PR
Active learning	1	1M	50
Passive learning			
Cooperative learning	1	1F	50
Independent learning			
Dependent learning			
Total	2		100

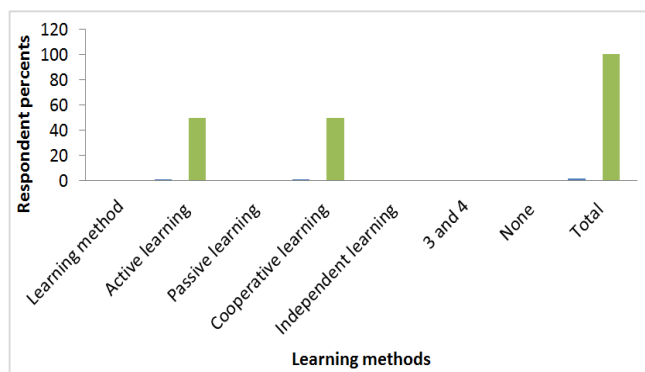


Figure 32. Learning methods like more.

The respondents had said that, Table 44 above and Figure

The results of the study had showed that, about 50% of male respondents preferred to learn in AL and 50% of female respondents preferred to learn in CL than dependent and passive learning Table 45 and Figure 33. As an educator one need to come up with ways to motivates the students, improve their interest in the subject matter, and divert from normal class routine in order to kill boredom among the students CL and AL are more preferable [17].

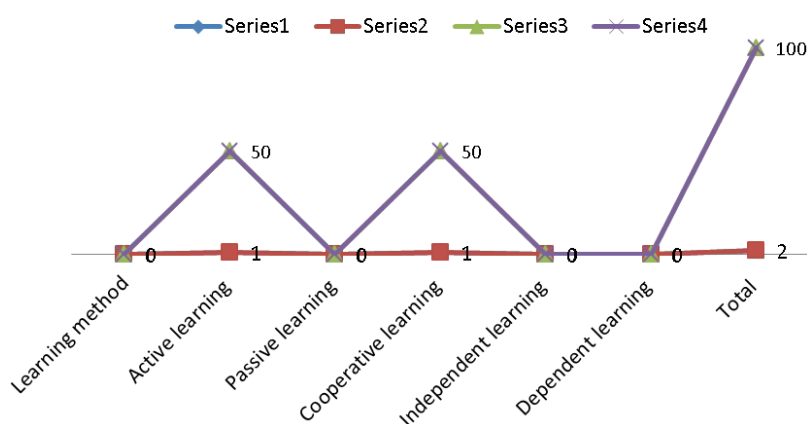


Figure 33. Learning method want more in own perception.

Table 46. Incorporating in cooperative learning with others to improve more than the current situation.

Incorporating with	NR	SR	PR
Follow up, motivation and freedom of individual to unite	1	1M	50
No answer	1	1F	50
Total	2		100

The results of the study had indicated that, about 50% of respondents had responds that incorporating CL with follow up, motivation and freedom of individual to unite it is significant and to improve CL incorporation with others learning has significant Table 46. Avoid isolation particularly for those who are not express the critical thinking of idea in their mind which is very crucial to improve CL [17].

Table 47. Weakness and threats in the curricula and must be correcting.

Weakness	NR	SR	PR
Course content, more of practical and student choice should be unclear	1	1M	50
No answer	1	1F	50
Threats	x		
Total	2		100

The finding of the study Table 47 had showed that, about 50% of CL is the weakness in the curricula and course contents, more of practical and students' choice should be unclear. Unless seen and revised the curricula and course contents were not develop students academically and socially in CL [7].

Table 48. Integrating active learning with cooperative learning to improve students' confidence, social and cultural interaction.

Responses	NR	SR	PR
Yes	2	1M, 1F	100
No	X		
Total	2		100

The respondents had said that, cooperative learning when integrate with active learning 100% has the potential to improve the students confidence, social and cultural interaction Table 48. This study was parallel with the study done by [9] who had been shown that, cooperative learning is promising and the promise is to encourage students to learn actively and constructively. In a cooperative atmosphere the role of the teacher is different. He/she does not act as a sole deliverer of knowledge, but a friend and a helper in time of needs [3]. Students help each other to complete tasks that are designed to achieve academic and social goals versus to individual learning which is usually competitive [5].

3.2.3. Natural Resource Management

Table 49. Perception about cooperative learning.

Rs	NRs	SRs	PRs
Effective	1	M	100
Ineffective			
Total	1		100

The results of the study had indicated that 100% CL is ef-

fective in education socially and academically/ as the respondents had said, because of improve education more than the traditional learning methods of teachers' centered of education Table 48 and Figure 34. Because of CL is more effective than competitive, teacher center and passive learning in developing socially and academically the students in group [11]. CL is use principles of AL [5].

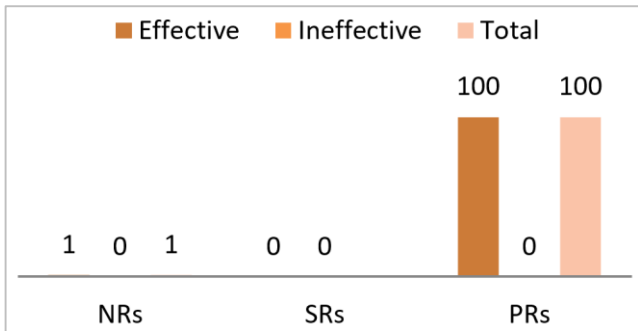


Figure 34. Perception of cooperative learning.

Table 50. Trends observed on the students after the implementation of the cooperative learning.

Rs	NRs	SRs	PRs
Yes			
No	1	1M	100
Total	1		100

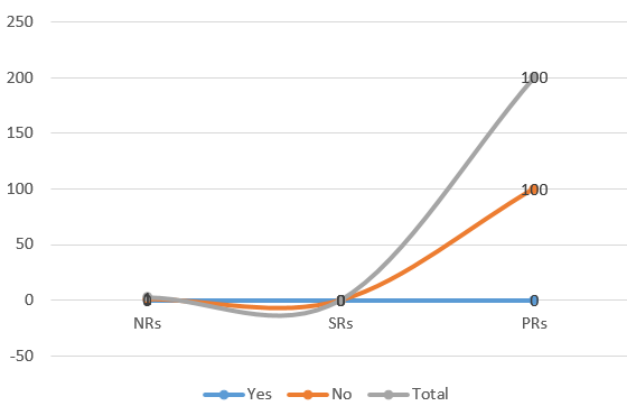


Figure 35. Trends in cooperative learning.

As the results of the study had showed that, no trends are observed (100%) on the students learning in cooperative Table 50 and Figure 35. Teachers promote cooperative investigation, problem solving and reasoning to established CL and solve challenges like social interaction, students handling in the group and ethical diversity problems within the groups [7].

But students develop high level of thinking and master the soft skills that are increasingly demanded by industry [5].

Table 51. Ways used to simplify, appreciated and adopted the cooperative learning by students.

Responses	NR	SR	PR
Yes	1	1M	100
No	x		
Total	1		100

The results of the study had revealed that, 100% CL is very simple, appreciated and adopted by the students Table 51 and Figure 36. CL has a positive effects on the students KAS and develop positive interpersonal and confidence to communicate [3]. CL is deep learning as opposed to surface learning, examined new facts and ideas to one another [5].

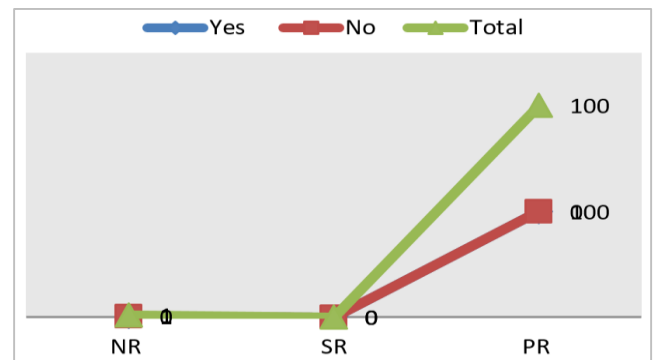


Figure 36. Ways adopted and simple in cooperative learning.

Table 52. Service provided.

Service	NR	SR	PR
In Oda Bultum university	1	1M	100
Other universities	X		0
Total	1		100

The finding of the study had showed that, 100% all respondents had been said that we have services in OBU, but we have no services in other similar universities found in Ethiopia Table 52. This might be affects the transferring of instruction and act as facilitators and leave the other tasks for the learners [3].

Table 53. Practiced learning method.

Service	NR	SR	PR
Collaborative	x		
Cooperative	1	1M	100
Total	1		100

The respondents had said that we were practiced 100% CL method, but it is not practiced collaborative learning method till Table 53. Cooperative learning enable the student to be effectively complete practical activities especially in science subjects [17]. Students are no longer passive recipients of information presented by a teacher using traditional learning methods [5, 11].

Table 54. From economic, social, cultural and ethnicity point of view Cooperative learning appropriate.

Responses	NR	SR	PR
Yes	1	1M	100
No	x		
Total	1		100

The results of the study had been shown that, 100% CL is appropriate and significant learning from perspective point of economic, social, cultural and ethnicity of the students' diversity Table 54. This study in line with the study done by [7] that had showed from perspective view of economic, social, cultural and ethnicity CL is very appropriate, while the most challenging to established.

Table 55. Want if cooperative learning.

Wants	NR	SR	PR
Discontinue	1	1M	100
Continue	X		
Replaced	X		
2 and 3	X		
None	X		
Total	1		100

The results had showed that, as the respondents had responds we were want to discontinue 100% CL Table 55 This

results had opposed the past study done by [9] who had reported that, *in a cooperative learning environment, learners are encouraged to be in the center of learning and learn together*. Successful CL tasks are intellectually demanding, creative and open ended [5].

Table 56. Learning method that like more.

Learning method	NR	SR	PR
Active learning	x		
Passive learning	x		
Cooperative learning	1	1M	100
Independent learning	x		
3 and 4	x		
None	x		
Total	1		100

The result had indicated that, 100% CL had more liked by teachers on working in cooperative Table 56 verse to traditional learning of "teachers' center" and traditional group work [3]. CL brings together the students with different academic abilities, sex, and race to work collaboratively together [17]. CL is leads to greater retention of learning for students [5].

Table 57. Learning method that like more in their own perception.

Learning method	NR	SR	PR
Active learning			
Passive learning			
Cooperative learning	1	M	100
Independent learning			
Dependent learning			
Total	1		100

As the respondents had respond that, 100% CL is more preferred in own perception than the others learning methods Table 57. CL is an effective and viable method of learning of today and continue to use for the future [7]. This might be due to CL improve the situation of learning environment and provide deep learning by their own without any interference while the teachers act as facilitator of the strategy of instruction only.

Table 58. Incorporating in cooperative learning with others to improve more than the current situation.

Cooperative learning Incorporating with	NR	SR	PR
Report after cooperative learning	1	1M	100
Reflective activities in curricula			
Total	1		100

As indicated in Table 58 above 100% incorporation of CL with others learning methods and reflective activities are significant as respondents had responds. *When CL is used properly, it complements and supplements traditional instruction and the other learning and teaching methods found in typical schools [3, 7].* For instance incorporation with AL improves more the CL.

Table 59. Weakness and threats in the curricula and must be correcting.

Weakness	NR	SR	PR
Lack of follow up in each cooperative learning (Supervision of Curricula)	1	1M	100
Lack of reflective activities in curricula			
Lack of suitable place and time for cooperative learning			
No answer	x		
Threats	x		
Total	1		100

The result should revealed that as indicated in Table 59 above, 100% the lack of follow up in each CL classroom and supervision of curricula are the major weakness and threats of CL to achieve the expected goals [13]. This might be needs revision and presented to standard considering the bench mark from the developed countries and before develop the curriculum it needs to developing of occupational standard at higher education institutions level to solve the threats. So that the curriculum will be develop from the occupational standard.

Table 60. Integrating active learning with cooperative learning to improve students' confidence, socially and cultural interaction.

Responses	NR	SR	PR
Yes	1	1M	100
No	X		

Responses	NR	SR	PR
Total	1		100

The results had showed that 100% integrating AL with CL improves students' confidence, social and cultural interaction Table 60, Cooperative learning is promising and the promise is to encourage students to learn actively and constructively. In a cooperative atmosphere the role of the teacher is different. He/she does not act as a sole deliverer of knowledge, but a friend and a helper in time of needs [9]. Integration of CL with AL to enhance students' confidence, social, and cultural interaction and academic performances has play a key role on teaching and learning [3].

3.3. Supportive Staff Information/Data Results and Discussion

Table 61. Request of academic staffs to supportive staffs to implement CL in a sustainable.

Requests	NR	SR	PR
Materials and equipment		X	
Necessary department budget	2	1M, 1F	66.67
Nothing ask obviously		X	
All asking sometimes unclear	1	1M	33.33
None		x	
Total		3	100

The respondents had responds that Table 61, about 66.67 percent of the common request of academic staffs to supportive staffs are necessary department budget, whereas not request clearly in plan the materials and equipment help to implement CL and make easy to run the teaching and learning processes. Such situation is adversely affect CL [17]. This is due to lack of supportive and academic staffs' link "hand to glove". This might be make the students learning in cooperation none social cohesion and academic less or not obtained what it will be expect from the students or from education in higher education institution [14]. This might be due to lack of an integration of development of plan by department and college and bring on time to supportive or helper staff members. This might be disaggregate the CL to conduct in sustainable while the asking sometimes unclear to brought for education by supportive staffs which covers about 33.33% in area coverage Figure 37. This might be one of the big issue that is make CL fruitless.

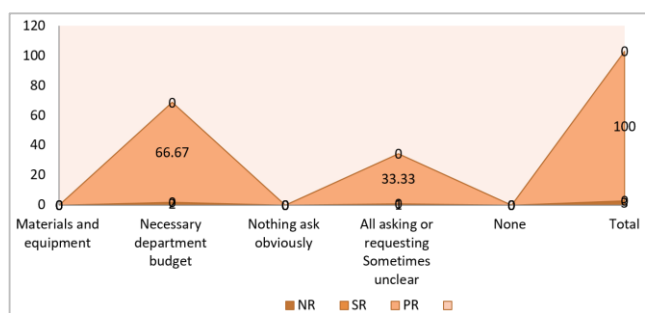


Figure 37. Request from academic staffs to supportive staffs to implement cooperative learning in a sustainable.

Table 62. Presenting necessary semester and yearly plan in appropriate time for supportive staffs by academic leadership.

Responses	NR	SR	PR
Yes	1	1M	33.33
No	2	1M, 1F	66.67
Total	3		100

The results had been shown that, **Table 62** as the respondents ‘had responds about 66.67% totally do not presented on an appropriate time the necessary semester and yearly plan. This should be also affects CL adversely in higher education institution. This might be challenging the cooperative learning. The issues are declining the quality of education and their cooperative learning. In line to this study the past study done had reported that, the issues are declining the quality of education because of decline the quality CL [14]. Groups need specific times and processes to reflect on how well they are achieving their goals [3].

Table 63. Expecting problems from academic leaderships.

Expecting problems	NR	SR	PR
Lack of integration	x		
Lack of participatory planning	2	1M, 1F	66.67
Improper planning concerning the future	x		
All are a major problems to achieve the goals	x		
None are false	x		
No answer	1		33.33
Total	3		100

The result had showed that **Table 63**, about 66.67 percent of the respondents had responds that, the expecting problems

from academic leadership is lack of [participatory plan during preparation of the plan. This is prohibited the expected goals that help to implement CL and maintain the quality of CL. This might not be improve the effectiveness and efficiency of the students’ learning in group to achieve the goals [3]. However, about 33.33% of the respondents had responds that all are an expecting problems (none are false). Because people look CL as a play on work but not will see a play of problem solver of teaching and learning [3, 17].

Table 64. Academic and supportive staffs’ integration to implement and maintain the quality of CL.

Responses	NR	SR	PR
Yes	1	1M	33.33
No	2	1M, 1F	66.67
Total	2		100

As **Table 64** had showed about 66.66% of the respondents had said that, there is no integration between the supportive and academic staffs: 1) to maintain the quality of education in OBU and 2) to implement the cooperative learning in OBU. This might be affects negatively the improving of the effectiveness and efficiency of the students’ learning in group to achieve the goals [3]. However according to the interviewers 33.33% were integrated and doing hand to glove as said. This might be improve the effective and efficiency of the students’ learning in group to achieve the goals [17].

Table 65. Level of problems of disintegration and challenging to achieve the goals and objectives of cooperative learning.

Problems of occurrence	NR	SR	PR
Senate level	X		
At different level of the office	1	1M	33.33
College level	X		
Department level	X		
At All level	2	1M, 1F	66.67
None	X		
Total	3		100

As **Table 65** had showed, about 66.67 percent of the respondents had said that disintegration occurred at all level, whereas 33.33 percent had said that at different level of the offices **Table 64**. This might be resulted in delay of CL and lagged the achievement of the goals and objectives of CL. The success of CL depend on resources availability for teaching

and learning processes within the time plan [17].

Table 66. *Methods of solving problems of disintegration.*

Solving method(s)	NR	SR	PR
Decision making Separately	2	1M, 1F	66.67
Punishment of individual's that cross the rule	X		
Replacement of all position at all level	1	1M	33.33

Solving method(s)	NR	SR	PR
Using method 1 and 4	X		
Using method 2 and 3	X		
Total	3		100

The respondents had responds that, about 66.67% of the problems were solved through decision making whereas about 33.33% of the respondents had responds that replacement of the representative leaderships ruled by held the position Table 66. Solving problems through decision-making might be make reliable to implement CL properly [3, 11].

Table 67. *Alternative solutions to be used to solve and improve cooperative learning in relation to access*

Best alternative solutions	No. of respondents	Sex of respondents	Percent of respondents
All academic staffs integrated with supportive staffs and cooperate to solve the problems	1 X		33.33
Working in plan			33.33
Making decision for all problems	1		
Forming relationship between them	1		33.33
No answer	X		
Total	3		100

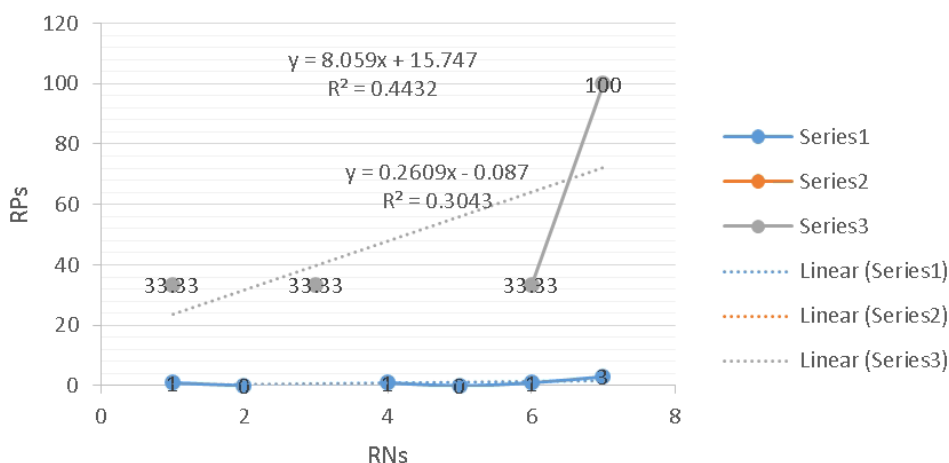


Figure 38. *Alternative /best solutions show liner regression.*

The results of the study had revealed that about 33.33 percent of the respondents had responds that the problems were solved in integration, whereas 33.33 percent had said that the problems were solved by making decision. But about 33.33 percent of the respondents had said that the problems solved by forming good relationship between academic and supportive staffs Table 67. Integration of the staffs will improve and

facilitate the CL implementation and practicing to achieve the goals of learning [3]. Alternative solutions are show that there is a linear relationships of regression available to solve the problems affected CL by the academic and supportive staff members Figure 38.

4. Conclusions and Recommendations

4.1. Conclusion of Students

4.1.1. Forestry Department

Cooperative learning help the students teaching and learning as the respondents had said we are acquire the better knowledge, skill and positive attitude. The weakest of CL as the results was indicated all the students were not participating in cooperative learning directly. The activities mostly over loaded the students is assignment. Based on the respondents of the responses about 40% of female and 40% of male students like more active learning and cooperative learning; respectively. Out of the interviewed students no one likes both the independent learning and the combination of independent and cooperative learning. In their own perception a few female students who are accounted about 20% need passive learning while about 20% need more active learning, however the students accounted about 40% both sex need more cooperative learning. As the respondents had said without division in their sex learning in cooperative benefited much more or 100 percent we are benefited due learning to cooperative. The respondents had said that use of English language and lack of awareness also the major problems of cooperative learning.

4.1.2. Soil Resource and Watershed Department

Cooperative learning help the students very well to obtain the knowledge, skill and positive attitude that making them competent as the respondents had responds. The major problem that was mentioned by respondents in cooperative learning is incorrect information transferring. The main overload activity in cooperative learning is assignment while do not yet rehearsed about the case study. No one want to discontinue cooperative learning; except 18.18% of male students who need to discontinue cooperative learning and replaced with another learning methods. Of all the students interviewed like more cooperative learning over the others while the students accounts about 18.18% like more the active learning. However, in their own perception the respondents that are accounts about half of the interviewed are preferred cooperative learning, above 1/4th % of the respondents need active learning whereas below 1/10th % want independent learning and no respondents preferred dependent learning. About 36.36% of the respondents were said cooperative learning is benefits more to achieve the acquisitions of knowledge and skill alone while 63.64% had said we achieved knowledge, skill and positive attitude due to learning in cooperative.

4.1.3. Natural Resource management Department

The respondents had responds that, learning in cooperative benefits our more to acquires KSA. The responses of the interviewers were indicate that, the major problems of CL include: negative attitude, lack of experience, social condition and community development (i.e. immaturity of communities

regarding the cooperative learning) which accounts about 25%. About 75% of the respondents had said that learning in cooperative mainly overload the assignment activities. However, still the home study, project work and case study are not practiced. The students' accounts about 75% do not want to discontinue cooperative learning. A few students' (male students') like more cooperative learning over the others learning methods; which accounts about 12.5%, of the total respondents. About 62.5% also were like more the cooperative learning rather than the others methods of learning while 25% like cooperative learning and independent learning. However, in their own perception 62.5% were preferred active learning methods.

4.2. Conclusion of Information of Teachers'

4.2.1. Soil Resource and Watershed Management

The respondents had respond that, CL is the better of all in our own perception and about 50% of male teachers had responds that we were attempted to solve the problems of CL but still needs more efforts. Fifty percent of male teachers had said that we were observed the trends on the students learn in cooperative while fifty percent of the female teachers had respond that we were not seen any trends on the students learn in cooperative. The Respondent teachers had responds that, we were tried to simplify so many times to encourage the students' adoption and appreciation of the cooperative learning face to face, even if it was showed somewhat improvement but yet not that much. The respondents had responds that we were practiced 100% to improve very well CL in practice but still much work they were left to do so. Learning in cooperative from the economic, ethnicity and social interaction point of view it is the appropriate for the students because of develop socially and academically by develop self-confidence and self-esteem on the students'. On the other hand; the respondents had revealed that we want to discontinue cooperative learning. Based on their own perception 50% of male and 50% female teachers are preferred active learning and cooperative learning; respectively. As the male respondents of the department had said incorporating cooperative learning with others methods of learning only is not enough to improve unless link with varies activities: such as follow up, motivation and freedom of individual's to unit but about 50% of female respondents had not said nothing about CL. According to the representative respondents of the department the major weakness of the cooperative learning include: course contents, lack of more practical (in black and white) and students choice. However, fifty percent of the female member of the department had not mentioned any point regarding the weakness and future threat of the cooperative learning. Overall all the respondents had said that integrating cooperative learning with active learning they will be improve the students' confidence, social and cultural interaction in depth.

4.2.2. Natural Resource Management

Respondents of the department had responded that, cooperative learning is more appropriate to grasp knowledge, skill and positive attitude that will make more competent the learners. Although, no one attempted to solve the problems of cooperative learning actually. Implementation of cooperative learning is not yet bearing the changes on the students as the interviewers had responded. As respondents had said we used the ways to simplify, adopted and appreciated CL beside the learners. The respondents had said; we are attempted fully to practice CL but not yet practiced the collaborative learning method. Cooperative learning is improved very well the social, economic and ethnicity of the students; as the respondents had said. The interviewers were said that we want if cooperative learning is discontinued, however, we like cooperative learning more than others learning methods. By their own perception respondents had said that we were preferred more cooperative learning when we are comparing with others learning methods. Incorporating the cooperative learning with others such as independent learning methods only not enough to improve students learning; they will request reporting after accomplished each activities and reflective activities which includes in the curricula. Weakness of the cooperative learning are lack of follow up, reflective activities in the curricula and lack of suitable place and time to be practice. Integration of cooperative learning with active learning in total improves the students' confidential, social and cultural interaction in the higher education institutions.

4.2.3. Forestry Department

In their own perception without any interference respondents those accounted about fifty percent had said that cooperative learning is ineffective due absence to organization of students. In individual or in mass the respondents had said that we were attempted to solve the challenges faced our teaching and learning with cooperative about fifty percent. Cooperative learning bears a better trend on our students learning in cooperative in practices and we were tried to simplify, make adopted and appreciated the cooperative learning with students as the respondents had responded. As said by the respondents about 50% of our department teachers were practiced CL but no one yet practiced the collaborative learning. Cooperative learning has the potential and ability to improve the students' ethnicity, economic and social interaction; the respondents had said. If cooperative learning discontinued we want but it must be depend on the research evidence. Based on the respondents answered if 50% is active learning and 50% is cooperative learning we like more. Although, 50% of the interviewer were said that cooperative learning only it is not satisfied the learners so that it must be integrated with active learning and 50% were said that it needs a further research study before integration. Weakness of the cooperative learning include: duration of the study program and needs if replaced with new curricula design it is possible. However, no one had

said about threats. On the other hand; the interviewers were said that cooperative learning is the potential to improve the students' confidential, social and cultural interactions in the higher education institutions.

4.3. Recommendation of Teachers

Organization or institution must fulfilled the necessary materials and equipment requires to implement CL; supply properly and arranged in the ways that all the teachers and students will be used in cooperative learning. Similar tools and equipment use for practical and other related uses in cooperative learning must available at center place for all.

As soon as possible conduct an action research in depth with multi aspects in all departments and colleges to solve and improve the teachers teaching and students learning in cooperative learning including the supportive staffs services and management of the services.

Recruiting qualified and experienced commitment, confidential, ability to work with others by their own sectors with his/her members. But more than recruitment; handling properly without loss employees by the organization are the mandatory of the leaderships in all levels. Stretching work benefit friendships center and avoid giving rank benefit center friendships.

The teachers discuss at department and leaderships at DCC level and solve the challenges that affected adversely CL while make a channel that help to improve more the cooperative learning. Practicing all evaluation or learning activities stilled in curriculum for each courses has play a key role on improvement of CL, because the learners must be exercise all activities in the organization. Information barriers should be filling to enhance the student's participation in cooperative learning by discussion with the students and teachers of the same department. If possible ministry of higher education, universities and the Ethiopian government will be extend the higher education program; because learning program and the time or year given for one professional program except for a few might not be enough. However providing a good idea shall wait from all of the university's staffs; particularly from academia staffs. Hence, it is not a simple task and needs looking at country wise with considering as bench mark other countries experienced very well in cooperative learning for instance United States and Canadian experiences in CL are the best bench mark for developing countries like Ethiopia. Providing on work training by identifying the skill gap in a concrete and try to fill each other's first and by outsider trainers should enhance CL in quality. Awareness for the students must be create by the teachers to encourage learning in cooperative. Majority of the learners preferred cooperative learning so that it needs encouraging more from the teachers than the students on learning in cooperative, hence the students must act and do what the teachers give in instructions for them.

4.4. Recommendation of Students

Continuing learning in cooperative is the better solution which requires more research to implement very well in the future in higher education institutions in integration both inter and intra department. The students must learn by doing in cooperative and control each other to participate on activities that should be given by the teacher's. Students must punish each other and not write the name of students that are not do activities within the group members. Avoid expectation of every things from their teachers and learning by self-center shall be developing by the students. Advice all the students interaction on work must and the teacher must follow up and monitoring the doer and non-doer students should be recognized and punished. The teachers should provide for the students as general guide the rules and regulation policies on CL before start the classroom.

4.5. Conclusions and Recommendation of Supportive Staffs

4.5.1. Conclusions

As said by the respondents the requests from the academic staffs' always necessary budget which account about 66.67 percent while 33.33 percent of the requests from the academia which is sometimes unclear. The interviewers were said that the difficulty on our work to do together might be academic staffs are not present the semester and yearly plan budget and necessary work plan on appropriate time. This issues are adversely affects cooperative learning as the respondents had said. The major problems expected from academic staffs' leadership is lack of participatory planning which accounts about 66.67% as said by both female and male respondents. Yet only about 33.33% of both staff members work in integration and about 33.33% of the staffs disintegrated at different level of the offices while 66.67% at department level. Disintegration of academic staffs and supportive staffs should be needed to solve through decision-making and replacement of all of the positions is the significant as about 33.33% of the interviewers had responds.

4.5.2. Recommendations

When request yearly and semester budget department and college leader must be obviously planned and request based on the curricula used for teaching and learning processes in CL. Individual teacher's present all necessary resources requires for the course or subject matters that are delivery by teachers to students learn in CL. Academic staffs leaderships and the supportive staffs or supportive with academic and research , and technology transfer Vic president should be discuss on every issues before change to thorny through decision-making by avoiding the autocratic leadership for instance on semester and yearly budget plan. Each department members within the college before submit the plan by the department

head must be discuss for the needs of resources that are helping to run properly the cooperative learning. Moreover, individual teachers based on the course held should be prepared the plan or recognize the materials and equipment needs for the teaching and learning processes in CL and give for the department representative head because education is time bounded. This will be encourage the cooperative learning in practice to implement and maintain the quality of education that expect from the use of CL. Overall both staffs if might be on the mislead path they should be seeing the government higher education institutions rules and regulation policies; and solve all the issues at the youngest stage if they should not solve the problems through discussion sometimes to enhance the possibility of environment for educational purposes. And if you like your organization an exemplary or principal model for other organizations or universities link and make it unite and simplify the solving problems from the base.

Abbreviations

AL	Active Learning
a. s. l.	Above Sea Level
CL	Cooperative Learning
CIL	Cooperative Teaching and Learning
E	East
EMA	Ethiopian Mapping Authority
HDP	Higher Degree Diploma
IL	Independent Learning
Km	Kilometer
KSA	knowledge, Skill and Attitude
Mm	Millimeter
M	Meter
N	North
NR	Number of Respondent
NRES	Natural Resources Environment Science
OBU	Oda Bultum University
PL	Passive Learning
PRs	Percent of Respondents
RS	Responses
SMWHZ	Satellite Image of West Harareghe Zone
SR	Sex of Respondent
SSs	Supportive Staffs
WFP	World Food Program
°C	Degree Centigrade
° ' "	Degree, Minute, Second

Acknowledgments

First of all I would like to thanks to the almighty Allah -the Lord of the universe; the most Merciful and Grace who help and gave me more patience for any unconditional that are happening in my life whose depressed and discouraged me and made unhappiness. Secondly my great thanks goes to representative of the HDP in Oda Bultum University and Haramaya

University Teachers who have made awake to me always to done all reflective activities and this action research to award the higher diploma program in teacher education that was gave by Harmaya University thoughtfully in patience and friendly. Thirdly I would like to thanks to Oda Bultum university teachers, students and supportive staffs from my deepest heart who have been gave to me a full of basic information; when I was gathered the necessary data for this action research. Fourthly my gratitude thanks goes to my all HDP colleges and friends who were trained in discussion and learn more each other's' in cooperative and in collaborative learning methods. Fifth my heart full thanks goes to Haramaya University College of education and behavioral science, Haramaya University, Haramaya Ethiopia who were participate in HDP train of the trainees and who have trained in patience and encouraging with much limited time. I would want to thank you to Teachers Education and Curriculum Design Journal who is support me

through guanine advice and guide me on the direction of the criteria of the journal to publish this article.

Author Contributions

Mussa Abdula Ibro is the sole author of this manuscript. He was created the idea formulation of this study to achieve the goals and aims of the study plan and he was work on the provision of the study materials He was read, revised, reviewed and improved the manuscript by himself. He had been taken the ethics to conduct the study of this research and responsibility of the clarity.

Conflicts of Interest

No conflict of interest to declare about all to this manuscript.

Appendix: Questionnaires

Appendix I: Personal information

Name of interviewer _____ sex _____
 Position _____ signature _____
 Education level _____ marital status: Married _____ Single _____
 Work type _____ service Year _____
 Address:
 Organizational name _____
 Mobile _____ Tel. _____ E-mail _____
 Candidate of HDP name _____ sex _____
 Position _____ signature _____

Appendix II: Interviews for Teachers

What is your perception about cooperative learning?

Effective _____ Ineffective _____

If choice ineffective what are the major challenges facing you?

Did you attempt to solve the challenges?

Yes _____ No _____

If choice yes what you were used to solve the challenges and to improve the cooperative learning

Would you observed the trends on the students concerning KSA after implemented and run the cooperative learning

Yes _____ No _____

If said yes state that trends

Did you used the ways of simplifying, appreciating and adopted by students regarding the cooperative learning

Yes _____ No _____

If said no can you state the reasons?

How many years did you serving?

Oda Bultum University others Universities

Which learning method did you practiced?

Collaborative cooperative

If you are choice collaborative; describe it

Is there cooperative learning is appropriate for Ethiopia from the point view of economic, social, cultural and ethnicity

Yes _____ No _____

Did you want if cooperative learning

Discontinues b. Continues c. Replaced d. B and c e. None

Which one do you like more?

Active learning b. Passive learning c. Cooperative learning d. Independent learning e. C and d f. None

Which learning method do you preferred more in your perception

Passive b. active c. cooperative d. dependent e. independent

What will be incorporating in cooperative learning to improve more than the current situation?

What are the major weakness and future threat in the curricula you were teaching that must correcting as soon as possible?

If cooperative learning integrated with active learning methods it will be improve students' confidence, social, cultural interaction

Yes _____ No _____

If choice No what are the reasons?

Appendix III: Personal Information

Name of interviewer _____ sex _____

Position _____ signature _____

Education level _____ marital status: Married _____ Single _____

Work type _____ service Year _____

Address:

Organizational name _____

Mobile _____ Tel. _____ E-mail _____

Candidate of HDP name _____ sex _____

Position _____ signature _____

Appendix IV: Interviews for supportive

What are always asking from academic staffs your office to implementing in sustainable the cooperative learning?

a. Materials and equipment b. Necessary department budget c. Nothing ask obviously d. All asking or requesting are sometimes unclear e. None is false

Would you academic staffs leader presented to your office on appropriate time their yearly, and semester plan which help your office to run with smooth relationship or to respond question's like one above

Yes _____ No _____

If said no what should you expecting as a problems from academic staffs leader or head

a. Lack of integration b. Lack of participatory planning c. improper planning concerning the future d. All are a major problems to achieve the goals of cooperative learning f. None is/ are false

Are they integration very well between supportive and academic staffs to maintain in sustainable the quality of education and implementing cooperative learning in OBU?

Yes _____ No _____

If said No at which level the problems of disintegration and to achieve the goals of sited objectives at

a. Senate level b. Different level of the office c.

College level d. Department level e. all f. none

How should you solve if the issues happen in number 4 is reliable

a. Decision making b. Separately c. Punishment of individual's that cross the rule d. Replacement of all position at all level a and d f. b and c

List down the best solution you were used to solve and improve the cooperative learning in relation with the access asking from the academic staffs?

Appendix V: Personal information

Name of interviewer _____ sex _____

Position _____ signature _____

Education level _____ marital status: Married _____ Single _____

Work type _____ service Year _____

Address:

Organizational name _____ Mobile _____ Tel. _____ mail _____
 Candidate of HDP name _____ sex _____ Position _____
 signature _____

Appendix VI: Interviews for students

Did you cooperative learning help you to acquisition knowledge, skill and attitude

Yes _____ No _____

What are the major problems you had been seen when you were learnt with cooperative learning either individual or in groups?

Cooperative learning is loading students overly

a. Home study b. Assignment c. Project d. Case studies e. Practical f. none

Did you want if cooperative learning

a. Discontinues b. Continues c. Replaced d. B and c e. None

Which one do you like more?

a. Active learning b. Passive learning c. Cooperative learning d. Independent learning e. C and d f. None

Which learning method do you preferred more in your perception

a. Passive b. active c. cooperative d. dependent e. independent

What should be benefited from cooperative learning?

a. knowledge b. skill c. positive attitude d. all f. a and b

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