



Auditorium of Graduate Program
Universitas Negeri Padang
Padang, 6th – 7th of September 2018

The First International Conference
on Innovation in Education (ICoIE)
and Annual Meeting Forpimpas LPTK 2018

ICoIE PASCASARJANA UNP

Theme: Improving the Quality of Education for a Better Future



Auditorium of Graduate Program
Universitas Negeri Padang
Padang, 6th – 7th of September 2018

The First International Conference on Innovation in Education (ICoIE) and Annual Meeting Forpimpas LPTK 2018

[Home](#) [Program](#) [Call for Paper](#) [Committee](#) [Registration](#) [Information](#) [Trip](#) [RAKERNAS FORPIMPAS LPTK 2018](#)



Auditorium of Graduate Program
Universitas Negeri Padang
Padang, 6th – 7th of September 2018

The First International Conference on Innovation in Education (ICoIE) and Annual Meeting Forpimpas LPTK 2018

Home

Welcome to the 1st International Conference on Innovation in Education (ICIE). The conference is organized by Graduate Program Universitas Negeri Padang, Indonesia, in collaboration with Forpimpas LPTK Indonesia. The theme of the conference is ***"Improving the Quality of Education for a Better Future"***

Trough this conference we provide the forum for the researcher, scientists, education practitioners, and students to present and share their innovative ideas in education. The conference will be held on September 6 – 7, 2018 and will take place in Graduate Program Universitas Negeri Padang, Indonesia.

Visit the Publishing website : <https://www.atlantispress.com/proceedings/all>

Search



FIELD TRIPS
Join the Field Trip to Mandeh Islands
OR
Lake Maninjau & Bukittinggi

Find Us

Address:
Jl. Prof. Dr. Hamka Air Tawar Padang Sumatera Barat 25131

Website: <http://pps.unp.ac.id>

[Send Proof of Payment](#)

[BROCHURE](#)

[REGISTER](#)

Publications



**Auditorium of Graduate Program
Universitas Negeri Padang**
Padang, 6th – 7th of September 2018

The First International Conference on Innovation in Education (ICoIE) and Annual Meeting Forpimpas LPTK 2018

THEME:
Improving the Quality of Education for a Better Future

INDEXED BY:



CONFERENCE SCOPE

- Character Education
- Educational Technology
- Lifelong Education
- Multicultural Education
- Education Issues and Policy
- Educational Management and Leadership
- Non-Formal Education
- Curriculum Development
- Psychology and Counselling Education
- Teaching and Learning (in all fields)
- Assessment and Evaluation
- Multi-talent and cross-discipline learning

IMPORTANT DATE

- Deadline for Full paper submission : August 15th 2018
- Information for Full paper acceptance : August 15th 2018
- Registration deadline : August 19th 2018
- Payment deadline : August 20th 2018
- Conference Day : 6th – 7th September 2018

REGISTRATION FEE

Category	International	Local
General Author (Speaker, per article)	USD. 250	IDR. 2.500.000,-
Students Author (Speaker, per article)	USD. 200	IDR. 2.200.000,-
Participant (Non Speaker)	USD. 65	IDR. 600.000,-

Registration fee includes fee for publishing papers by Atlantis Press that Indexed by Thomson Reuters (ISI/WEB of Science).

KEYNOTE SPEAKERS

- Inge Schwank, Prof., Dr. (University of Cologne, Institute for Mathematics Education, Germany)
- Mansor bin Abu Talib, Prof., Dr. (University Putra Malaysia, Malaysia)
- John Wee Yeo (Consultant and Researcher, Singapore)
- Gumpant Boriboon, Dr. (University of Srinakharinwirot, Bangkok, Thailand)
- Nurhizrah Gistituati, Prof., Dr. (Universitas Negeri Padang, Indonesia)

PUBLICATIONS

Selected papers will be published on:

- ICIE 2018 proceeding (Atlantis Press, Indexed by Thomson Reuters)
- Journal Humanus, Couns-Edu, Eksakta (Indexed by DOAJ and Google Scholar)

PAYMENT

Please make payment through :

Bank Name : BNI
 Account Number : 0668110902
 Account Name : RPL 010 BLU UNP UTK DKE

FACILITIES

Certificates, Seminar Kit, Lunch, and Snack

CONTACT PERSON

- Ahmad Fauzan (+62 81363790020)
Email: ahmadfauzan@fmipa.unp.ac.id
- Jufrizal (+62 81338510946)
Email: jufrizal@fbs.unp.ac.id
- Rudi Chandra (+62 81363648687)
Email: ypb_pesona@yahoo.co.id
- Diki Atmarizon (+62 81374281818)
Email: dikiatmarizon@gmail.com

SECRETARIAT

Graduate Program Universitas Negeri Padang,
 Jl Prof. Dr. Hamka Air Tawar Barat, West Sumatera 25131
 Email: pascasarjana.unp@gmail.com

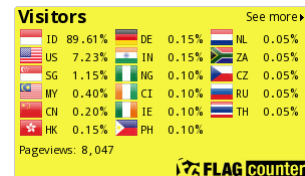
Website : <http://icie.pps.unp.ac.id>



Indexed



Visitor



Contact Person

Ahmad Fauzan

phone: +62 81363790020

Email: ahmadfauzan@fmipa.unp.ac.id

Jufrizal

Phone: +62 81338510946

Email: jufrizal@fbs.unp.ac.id

Rudi Chandra

Phone: +62 81363648687

Email: ypb_pesona@yahoo.co.id

Diki Atmarizon

Phone: +62 81374281818

Email: dikiatmarizon@gmail.com



GRADUATE SCHOOL UNIVERSITAS NEGERI PADANG



Certificate

This is to certify that :

Dr. Sukirman Rahim, M.Si.

has participated in the 1st International Conference on Innovation in Education (ICoIE) 2018

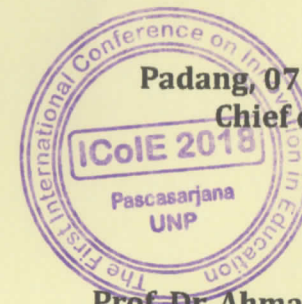
as

PRESENTER



Director

Prof. Yenni Rozimela, M.Ed., Ph.D.
NIP. 1962 0919 1987 03 2002



Padang, 07th September 2018
Chief of Conference

Prof. Dr. Ahmad Fauzan, M.Pd., M.Sc.
NIP. 1966 0430 1990 01 1001

THE EFFECT OF TEAMS GAMES TOURNAMENT (TGT) COOPERATIVE
LEARNING MODELS ON STUDENTS' LEARNING OUTCOMES IN NATURAL
SCIENCES LEARNING IN ELEMENTARY SCHOOL

Sukirman Rahim¹,

Elementary Teacher Education
Faculty of Education
Universitas Negeri Gorontalo
Gorontalo City, Indonesia

Email: sukirmanrahim@ung.ac.id¹

Hasan Atuna,²

Elementary Teacher Education
Faculty of Education
Universitas Negeri Gorontalo
Gorontalo City, Indonesia

Email: hasanatuna@yahoo.com²

This research aims to find out the influence of Teams Games Tournament (TGT) method in students' learning outcomes in Natural Sciences learning at Elementary School SDN 2 Meyambanga; this is formulated based on the problem statement of this study. Further, this study applied a quantitative approach with the experimental method and one group pretest-posttest design. The data were collected from learning outcomes test and documentation. As many as 25 students at grade V were involved as the research samples. The results show that the students' average pre-test score is 66.20. In addition, their average post-test score is 79.90. Additionally, the result of t-test obtains $t_{count} > t_{table}$ or $16.044 > 1,6843$ at the significance level of 0.05. In brief, Teams Games Tournament (TGT) model does influence students' learning outcomes in learning Natural Sciences.

Keywords: Learning, TGT, Achievement

A. INTRODUCTION

Learning is an activity carried out to initiate facilitation and to improve the quality of learning because learning is a systematic effort to improve the learning process. It is a series of activities designed by teachers to measure students' abilities in learning at school.

In the whole process of education in schools, learning is the most important activity. Learning process leads the teacher to understand the basic abilities. Students' low outcomes in learning are the center of attention of all elements related to education.

One of the causes of low outcomes is the lack of learning models applied by the teacher. By interviewing one of the teachers at Elementary School SDN 2 Meyambanga, the teacher is a homeroom teacher of grade V, so that it becomes a guide for conducting this research using a new model. Teaching methods can make students more comfortable they can be involved in the learning process.

In making efforts to maximize students' learning outcomes, science practitioners have introduced and applied various models and approaches to teaching. However, the reality in the field reveals that learning that seems to be only an active teacher, while students are passive. For this reason, learning activities tend to be boring. Another fact is that

teachers do not use various media and learning models that can attract students' interest in learning. The result indicates that students are less interested in the learning process, which is ultimately impactful on the learning process and outcomes. One way to overcome this problem is by using the Teams Games Tournament (TGT) cooperative learning model.

A teacher must be able to use a learning model that can stimulate students in learning. This study takes the Teams Games Tournament (TGT) learning model as one way to make students better to understand the learning material presented. It is able to create human resources quality.

Based on the background of the study, the formulation of the problem is: How is the Effect of Cooperative Teams Games Tournament (TGT) Learning Model on Students' Learning Outcomes in Natural Science Learning in Elementary School?

B. METHOD

This study was conducted at Elementary SDN 2 Meyambanga, Bolaang Mongondow Selatan Regency for seven days using a quantitative approach with the experimental method and one group pretest-posttest design. The purpose of this study is to provide an overview of the

influence of learning models and use. The research design used in this study was pretest-posttest design. It employed a purposive sampling technique. Moreover, there were 25 students involved as the research population. The data were collected from observation, test, and documentation.

C. RESULTS AND DISCUSSIONS

The results of the final score prior to the treatment model.

Table1 : Preliminary research data

No	Students' Name	Initial Score
1.	Abdul Manaf Botutihe	64
2.	Adrian Moilomo	70
3.	Farel Husain	53
4.	FahrilR.Borahima	62
5.	IshakSaman	60
6.	Moh.AryanDjau	57
7.	Romi Ali	65
8.	ZulkarnainTangahu	65
9.	YudianSaman	52
10.	SatrioMuksin	45
11.	FatraSaripi	67
12.	Tiara Lestari pakaya	60
13.	NalaofriantiOtol uwa	60
14.	Zulfianti Ibrahim	54

15.	Moh. ZuhairilMursalin	55
16.	NurAliftaPakaya	65
17.	Nursiaente	67
18.	NurtinDaintau	60
19.	PathaLamana u	61
20.	PutriUtina	56
21	Rabiatul A. Botutihe	42
22	RatuPratiwiPakaya	43
23	RityantiSamheda	55
24	SriElsawatiSalilama	60
25	Sri Manda Punu	52

Secondary Data, 2018

This initial score is presented in the following figure:

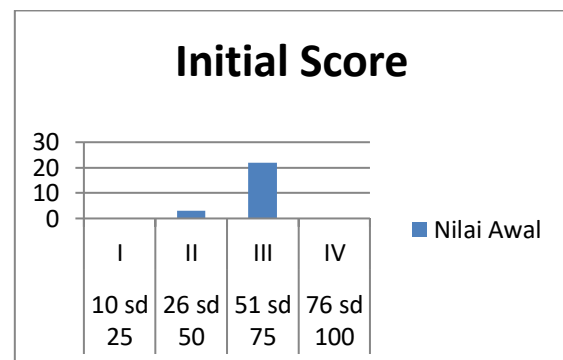


Figure 1: Students' Initial Score

Description:

Nilai Awal: Initial Score

The data collection was carried out in two meetings; the first meeting was a pre-test. This test was conducted to

determine the students' score before given a treatment. The next step is to give the treatment in Natural Sciences learning with Respiratory Process learning material. After finishing the treatment, a final test (post-test) is provided. The initial test (pre-test) and the final test (post-test) are using different test questions, with a maximum score of 83. The results of the hypothesis testing indicate that H_a is accepted and H_0 is rejected with a level of 0.05. TGT is a learning model designed in such a way to help students understand in-depth theory through practical learning experiences (Experiments). Teams Games Tournament Learning model leads students to compete in order to achieve the highest score academically, build togetherness in the learning process, and involves all learners in the learning process. Moreover, by comparing the initial knowledge they already have to the new knowledge they get, students are able to apply the concepts that they have gained to solve problems in everyday life. Based on the above description, there are differences in the results of the average score of both tests. The average score shows that the treatment of the TGT learning model is applied to find out the effect on students' learning outcomes after being given a post-test. It does affect students' learning outcomes before and after given a treatment. Thus, it is proven

that the TGT learning model influences students' learning outcomes in Natural Sciences learning.

Table2 : Pre-test and post-test

No	Students' Name	Pre-test	Post-test
1	AbdulManafBotutuhe	70	72
2	Adrian Moilomo	72	63
3	Farel Husain	66	78
4	FahrilR.Borahima	56	81
5	IshakSaman	70	72
6	Moh. Aryan Djaiu	66	84
7	Romi Ali	84	97
8	ZulkarnainTangahu	60	83
9	YudianSaman	58	88
10	SatrioMuksin	43	78
11	FatraSaripi	61	83
12	Tiara Lestari Pakaya	72	88
13	NalaofriantiOtoluwa	81	84
14	Zulfianti Ibrahim	78	87
15	Moh. ZuhairilMursalin	56	78
16	NurAliftpakaya	50	74
17	Nursiaente	66	78
18	NurtinDaintau	72	83
19	PathaLamanau	74	88
20	PutriUtina	80	91
21	Rabiatul A.	64	82

	Botutihe		
22	RatuPratiwiPakaya	58	74
23	RityantiSamheda	80	87
24	Sri ElsawatiSalilama	58	70
25	Sri Manda Punu	60	56
Total		1.655	1.999
Average		66,20	79,96

Primary Data, 2018

The results of this pre-test and post-test can be seen in the following figure.

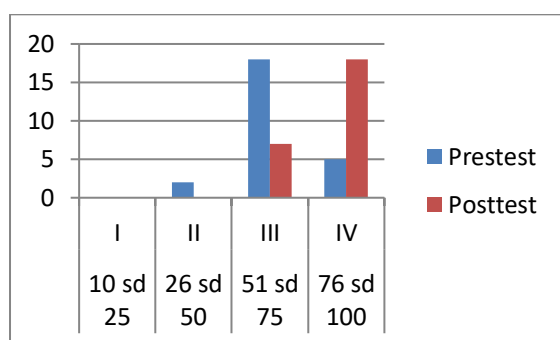


Figure 2: The Score of Pre-test and Post-test

D. CONCLUSIONS

Teams Games Tournament learning model in Respiratory Process learning material significantly influences students' learning outcomes. The results can be seen from the average pre-test score of 66.20. After applying the TGT learning model, the post-test average score becomes 79.90. This is strengthened by the results of the hypothesis testing with the post-test t-test at the level of $\alpha = 0.05$ arrives at t-count 16.004 with t table 1.684. Therefore, TGT

model does influence students' learning outcomes in learning Respiratory Process material.

Several suggestions are provided as an improvement in the future. The teachers of Natural Sciences subject are expected to be able to apply Teams Games Tournament learning model in the learning process at school.

- 1) There needs to be a further development designed according to the Teams Games Tournament learning model. This is intended to improve the quality of the material that will lead to more optimal teaching and learning activities.
- 2) To be able to improve teachers' ability in employing the Teams Games Tournament learning model, they should be able to optimize the meeting time, so that the learning quality will be enhanced, and it will have a good impact on students' learning outcomes.
- 3) The results of this study may be a reference for teacher candidates to conduct subsequent studies.

REFERENCES

- Dimiyati. (2013). Belajar Dan Pembelajaran. Jakarta: RinekaCipta
- Estep, CM.Hannah T Grady Roberts. (2012). ExpereintialLearning Model Of Faculty Development To Improve

- Teaching.NACTA Journal. Search ProQuest .com/? accountid = 38628
- Hambali. (2015). Student's Reaction Towards Nation Characters Education And The Impacts On The Practice Of Nationalist Character. *Journal of Applied Sciences*, ISSN 1812-5654. Search ProQuest .com/? accountid=38628
- Komalasari, Kokom. (2013). *Pembelajaran Kontekstual*. Bandung: Refika Aditama.
- Köse, T C, (2015). Character Education Of Adolescents: A Case Study of a Research Center. *Education and Science* ,Vol.40 (179), pp. 295-306. Search ProQuest .com/? accountid = 38628
- Mahdjoubi. L, Allafi A-Rahman M. (2012). Effects Of Multimedia Characteristics On Novice CAD learners' Practice Performance. *Architectural Engineering And Design Management*". Vol. 8, pp. 214–225 ISSN 1745-2007. . Search proquest .com/? accountid = 38628
- Nurdin, E S. (2015). The Policies on Civic Education In Developing National Character in Indonesia. *International Education Studies* .Vol.8 (8) pp.119-209. ISSN 1913-9020. Search proquest .com/? accountid=38628
- Purwanto. (2014). *Evaluasi Hasil Belajar*, Yogyakarta: Pustaka Belaja
- Putra, S. (2013). *Desain Belajar Kreatif Berbasis Sains*. Yogyakarta
- Rusman. (2010), *Model-Model Pembelajaran*. Jakarta: Raja Grafindo Persada
- Samatoa, Usman. (2016). *Pembeajaran IPA di sekolah dasar*. Jakarta: Indeks
- Sugiyono. 2014. *Model Penelitian Kuantitatif Kualitatif Dan R&D*. Bandung: ALFABETA
- Slameto. 2013. *Belajar dan Faktor-faktor yang mempengaruhi Hasil Belajar*. Jakarta: Rineka Cipta
- Shoimin, Aris. (2014). *68 model pembelajaran inovatif dalam kurikulum 2013*, Yogyakarta: Ar-Ruzz Media
- Wisudawati Asih, Eka. (2014). *Metodologi Pembelajaran IPA*. Jakarta: Bumi Aksara



CERTIFICATE OF ORIGINALITY

To Whom It May Concern:

This is to certify that the following document has been checked for originality with premium plagiarism checker software. The result detail is as follows:

Originality Report	
Similarity Found	0%
Statistics	0 words Plagiarized / 1429 Total words
Remark(s)	No Plagiarism Detected
Manuscript Title	The Effect Of Teams Games Tournament (Tgt) Cooperative Learning Models On Students' Learning Outcomes In Natural Sciences Learning In Elementary School
Author(s)	Sukirman Rahim Hasan Atuna

Date: Friday, November 02, 2018



Novriyanto Napu, M.AppLing., Ph.D.
Director

TRANSBAHASA

Professional Translation & Language Services

SK Menteri Hukum dan HAM RI Nomor. AHU-0009641.AH.01.07.2017
JL. Ir.Hi. Joesoef Dalie (Ex Jl. Pangeran Hidayat) No. 78 Kota Gorontalo
Email. transbahasa.go@gmail.com / Phone. +62 853 9862 5876
www.transbahasa.co.id



<h2>Internet Sources</h2>
-

TRANSBAHASA

Professional Translation & Language Services

SK Menteri Hukum dan HAM RI Nomor. AHU-0009641.AH.01.07.2017

JL. Ir.Hi. Joesoef Dalie (Ex Jl. Pangeran Hidayat) No. 78 Kota Gorontalo

Email. transbahasa.go@gmail.com / Phone. +62 853 9862 5876

www.transbahasa.co.id