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International Journal of Engineering & Technology, 7 (x) (2018) xxx-xxx International Journal of Engineering & Technology Website: www.sciencepubco.com/index.php/IJET doi: Research paper, Short communication, Review, Technical paper The Effect of

Complex Training Manipulation on The Speed of The Students of Sports Coaching, Faculty of Sports Sciences, State University of Yogyakarta in 2013 Mansur Universitas Negeri

Yogyakarta <a href="mailto:mai

on speed. This research was a quasi-experiment with the two- group pretest posttest design. The population was the new students of Sport Coaching (PKO) Department of 2013 consisting of 21 non-athletes. The subject was divided into two groups: PCT and SCT. The PCT group was treated with

weight training combination of 8 RM, 6 RM, 4 RM and plyometric training with

pyramid method. The SCT group was treated with the

weight training combination of 8 RM, 6 RM, 4 RM and plyometric training with square

method. The

training was conducted three weekly training sessions for 7 weeks.

The speed test used the 40 meter dash. The data analysis used a t test. The results were as follows. (1) There was no significant effect of ma- nipulation of PCT on speed (P= .096)

and percentage increase of 1.98%. (2) There was no significant effect of manipulation SCT

on speed (P= .853) and the percentage increase of -0.27%. (3) There was no significant difference between PCT and SCT on speed (P= .688). Based on the analysis results, the raising percentage of PCT group was higher than that of SCT group, although statistically it was not significantly different p>0.05. In conclusion, the Complex Training Manipulation (PCT and SCT) was not very effective in improving speed. Based on the raising percentage value, PCT is better than SCT exercise for speed. Keywords: pyramid complex training; square complex training; sport coaching students 1. Introduction The peak performance in sportsis the final estuary

in the process of sports coaching. High achievement is the result of

the actualiza-tion of

various elements such as physical condition, technical abil- ity, mastery of tactics, and mental maturity. Physical condition plays an important role, because it is the

absolute and major re- quirementfor achievement. Excellent physical condition should become the necessity for every athlete, especially for sports that require long-lasting heavy performance. Many advantages are obtained from the prime physical condition, among others the easeto master complex skills, reduction of risk of injury, mainte- nance ofphysical performance, acceleration of post-exercise re- covery and increase in confidence. The development of sports achievement in developed countries is inseparable from the physical exercise process that started from early age. Rudi Hartono, LiemSwie King, IcukSugiarto, Susi Su- santi, Muhammad Ahsan, Hendra Setiawan, Tontowi Ahmad, LiliyanNatsir and several prominent athletes in Indonesia whose track record in training is good. This is in line with the research by [1] which showed that 20 top athletes in the world practiced more than 1000 hours each year. This proves that high achievement must be based on excellent physical condition. The athlete is said to have a component forprime physical condition if they have the ability to do exercise cycles and a series of high intensity matches without causing significant fatigue. Physical condition parameters can be seen based on the quality of athlete physical condition components such as strength, aerobe endurance, anaerobic endur- ance, speed, power, agility, flexibility, coordination and balance. Without the support of prime physicalcondition, the

achievement of peak performance will experience many obstacles. One of them is inability to maintain performance in long time. The ability to maintain athlete performance quality is desperately needed to achieve victory, especially on single or multi event demanding a large number of matches with short intervals. The experience of highperforming athletes shows that athletes strive consistently to develop physical conditions to an excellent level. Physical condition is an important element and becomes the basis in the development of techniques, tactics, strategies and mental development. So that, it needs a programmed exercise from the trainer. This means the training program must be planned, meas- urable, and sustainable. [2] state that thepurpose of physical condi- tion training is to optimize performance and minimize the risk of injury and disease. Biological and network systems in sports train- ing are set up by applyingphysical demands which are heavier- based on the development of athlete's physical condition [3]. Achieving these objectives requires a proper training approach. In the training terminology, it is commonly called the training method. [4] states that the exercise is a

basic process of the preparation for higher performance whose processes are designed to develop mo- tor and psychological

abilities that enhance one's ability. Fur-

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2 ther,[5] state

that the main objective of physical exercises is to improve the quality of physical fitness (energy fitness) and muscle fitness (muscular fitness). According to

[6] an

exercise is a sys- tematic, progressive repetition process with the ultimate goal of improving sports performance. So, the training method is the pro- cedure of the systematic repetition process to master the skill or achieve the functional quality of the body maximally. With the suitable training method, the body will experience adaptation in the form of enhancement of the body functional ability so it

can perform

heavy performance for a long time. Functional adaptation of muscles has been well documented by previous researchers, and muscle quality development strate- gies /methods have been published through various reports with different types of sports activities. The effect of exercise depends on the intensity and volume of the exercise. Failure to meet mini- mum threshold values may result in the lack of exercise effect, while too much weight can lead to overtraining and adversely affect an athlete's physical condition.

[7]

suggest that exercise adaptation varies greatly depending on many factors such as initial physical condition status and exercise intensity. In this case, the less trained athlete is relatively easier

to increasepositive adapta- tion when getting exercise treatment [8], where as a trained athlete requires an outstanding effort to get the same effect as the less trained athlete does by modifying the intensity, frequency, vol- ume, recovery and exercise density.

Speed is a multidimensional motor capability that is primarily manifested in four forms: latency time of motor reaction, individ- ual speed of movement, speed of frequency

movement, and run- ning speed [9]. Speed is distance per time, whichmeansthat speed will be measured by the unit of distance divided by the time unit. According to [10]) speed is the ability of muscles to respond to stimuli as fast as possible. Speed is the result of the combination of the length of the leg swing and the number of steps. According to [11] speed is the ability to walk and move very quickly. [12] adds that speed is the ability to perform similar movements in a row in the shortest time or the ability to travel a distance in the shortesttime. From these statements, it can be concluded that speed is the ability of multidimensional motor muscle to respond to stimuli to make the movement very quickly or in the shortest time (as short as possible). [13] states that speed components are used by almost all sports. For this reason, speedtrainingare considered to becrusial for ath-letes. One of the speed training is a complex exercise. According to [14]

], success in strength training depends on knowing the types of strengths and how to develop them, as well as the types of con-tractions and which are best for a given sport. A complex training

is an exercise method that aims to improve athlete's physical con- dition by doing high intensity strength training followed

(trans- ferred) by aplyometric exercise. Biomechanically, there is a simi- larity in terms of muscle and joint involvement between weight training andplyometric training, for examplesquat exercises 3-6 RM followed by 8-12 repetitions of knee tuck jump exercises and bench press exercises 2-5 RM followed by 8 repetitions of clap push exercises (Mackenzie, 2000). The

modification of complex training by varying the repetition pyramid load training decreased from 8 repetitions maximum (8 RM), (6 RM) and (4 RM) with the ascending intensity that has not much beeninvestigated deeply.

Most researchers use high intensity external resistance (1-3 RM) with constant

methods. Similarly, with plyometrics, there is less research comparing pyrometric pyramidal exercises (jumping to lateral, forward, sideways and twist), height of varied obstacles

(20-50 cm), number of tiered repetitions increased (6-12) and plyometric training square (jumping in the same direction with the same high hurdle and the same number of repetitions). In addition, the majority of complex training studies were applied to trained athlete groups. Modified forms of explosive exercises such as jump up and down, side-jump, knees tuck jump, single leg jump, lateral jump and box jump either by normal jumping or by twist was the main focusof this study. Single-leg training has many benefits and attention to International Journal of Engineering & Technology injury prevention, rehabilitation, and performance improvement of sports programs. According to

sports movement skills in the field are dominated by the cycle gait taking off from one foot and landing with another foot appropriately to improve the

perfor- mance of the athlete. Other studies have shown that a

complex training can have a positive effect on motor skills of basketball players

[16-17-18]

Complex training studies on the sample of poorly trained athletes have not been widely practiced. In this case, the students majoring in sports coaching at the Faculty of Sports Science,

State Universi- ty of Yogyakarta are mostly not athletes

so it is possible for them to be the subject of research. Furthermore, the main focus of this study was to reveal: (1) effect of PCT on speed, (2) effect of SCT exercises on speed, and (3) differences

in PCT and SCT effects on speed. 2. Methods This study is a quasiexperiment. The research design was the two- groups pretest-posttest design, which have a pretest before treat- ment and a posttest after treatment, thus the result can

be more accurate, because it can be compared with the result before treat- ment (Sugiyono, 2007, p .64). 2.1 Research variables This research has two variables, that is the independent variable and dependent variable. The independent variable in this research are PCT and SCT training,

while the dependent variable is speed. 2.2 Research subject The subjects in this study are the third semester students of De- partment of Sports

Coaching Education, Faculty of Sports Science, Yogyakarta State University in their academic year of 2012 aged 19 to 20 years and not athletes, consisting of 80

male students. They were established as the subjects by using the simple random sampling method with the assumption that the population is ho- mogeneous. Twenty-one students were treated on speed test (40m print). After that they were ranked and divided into two groups: 11 students as a PCT training group, 10 students as a SCT training group. Instruments were used to measure: 1) physical readiness checks, 2) body height and weight, and 3) speed.

1. Examination of physical readiness a. Measurement of resting heart rate was performed at 05.00 in the morning before the subjects did physical activities. DJ

measure- ments were performed in a sitting position, using a heart rate mon- itor from PollarFT1TM and FT2TM brands. b. Blood pressure measurement used the Rister Measurement brand tensionmeter. 2. Measurement of the height of the barefoot subject, standing upright, and viewing straight forward. The measurement of height used

brand Design type 26 BC made in Indonesia, with cm unit measurement, accuracy up to $0.1\,\mathrm{cm}.3.$ Weight

measurements used Smc Brand type RGZ -120 made in PRC with kg measurement and accuracy up to 0.1 kg. 4. Speed measurement was through 400m sprint

(Pretest). 5. The PCT group was given a combination of 8 RM, 6 RM, 4 RM and plyometric training with the pyramid system (6repetitions of lateral single leg jump, 8repetitions of side jump, 10 repetitions of box's

jumps, 12repetitions of twist front jump and 14repetitions of twist tuck jump). The SCT group was treated with a combination of

8 RM, 6 RM, 4 RM and plyometric training with square system (10 repetitions of single leg jump, 10 repetitions of side jacks, 10 repetitions of front jacks, 10

hard repetitions and 10 repetitions of tuck jumps). The

training was conducted three weekly training sessions for 7 weeks. 6. Measurement

of speedused 40 meter run (post test). 2.3

Data analysis technique Before proceeding to the t-test, there is a requirement that must be fulfilled by the researcher. The data that will be analyzed must be

International Journal of Engineering & Technology in the

normal distribution, therefore it is necessary to test normali- ty and homogeneity test (Arikunto, 2006, p.299).

3. Result 3.1 Research Data The

data in this research are the strength of pretest and posttest speed capability. The pre test and

post test data on PCT group speed capabilities are as follows: Table 1: Pre test and Post test of Pyramid Complex Training (PCT) Group No Subject Pretest Posttest Difference 1 7.33 2 6.9 3 6.96 4 7.46 5 6.92 6 7.55 7 7.04 8 7.04 9 7.41 10 6.9 11 7.18 Mean 7.1536 SD 0.24394 Min 6.90 Max 7.55 7.84 0.51 7.19 0.29 6.64 -0.32 7.41 -0.05 6.99 0.07 7.63 0.08 7.46 0.42 7.3 0.26 7.42 0.01 6.79 -0.11 7.58 0.4 7.2955 0.1418 0.36533 0.25600 6.64 -0.32 7.62 0.51 The

pre test and post test data on Square Complex Training (SCT)

Group speed capabilities can be seen as follows: Table 2: Pre test and Post test of SCT Group Speed No Subject 1 2 3 4 5 6 7 8 9 10 Mean SD Min Max Pretest Posttest 7.34 7.23 7.35 7.6 7.27 7.34 7.22 7.66 7.58 7.26 7.34 7.41 7.62 7.03 7.12 7.38 7.52 7.31 7.33 7.27 7.3690 7.3490 0.15913 0.18138 7.12 7.03 7.62 7.66 Difference -0.11 0.25 0.07 0.44 -0.32 0.07 -0.59 0.26 -0.21 0.06 -0.008 0.30608 -0.59 0.44 3.2 Prerequisite Test Results 3.2.1

Normality test The result of the normality test is presented in Table 3 as follows: Table 3: Normality Test Results Group P Sig. Explanation PCT Pretest

Speed 0.635

0.05 Normal Posttest Speed 0. 914 0.05 Normal SCT Pretes Speed 0. 939 0.05 Normal

Posttest Speed 0.572 0.05 Normal Table 3 above shows that all data have the p value (Sig.)> 0.05 and therefore they are normally distributed. 3.2.2

Homogeneity Test The results of the homogeneity test of this study can be seen in Table 4 as follows: Table 4: Homogeneity Test Results 3 Group Sig. Explanation PCT

.297 Homogeneous SCT .796 Homogeneous Table 4 above shows that all data have thep value (Sig.)> 0.05, and thus they are homogeneous. 3.3 Hypothesis Test Results The testing of the research hypothesis was

done based on the re- sult of data analysis and the interpretation of thet -test analysis. The sequence of the hypothesis testing results was adjusted to the hypothesis, as follows: 3.3.1 Hypothesis of the Effect of PCT Training Method on Speed The first hypothesis

states: "There is no significant effectof the manipulation of PCTon speed", based on pretest and posttest re- sults. The analysis of the t-test results shows the

data in Table 5 as follows: Table 5: T-Test Results of Pretest and

Posttest of PCT Group Aver. t-test for Equality of means t value t table Sig. Dif % Pretest Posttest 7.1536 7.2955 -1.837 2.26 .096 .1419 1.98 Table 5 above shows the t-value of -1.837 and t-table of 2.26 (df 10) at the significance level of 0.096. Since the t-value is -1.837 <t- table 2.26, and the significance level is 0.096>

0.05, then this result shows there is no significant difference. Therefore, the hypothesis

stating "There is a significant effect of manipulation of PCTon speed" is rejected. The data above show that the PCT exercise decreased the speed of 0.1419 and increased the by 1.98%. 3.3.2 The Hypothesis of the Effect of SCT Method onSpeed The first hypothesis reads "There is a significant effect of SCT- manipulation on speed",

based on pre-test and post-test results. The analysis of the t-test results shows the data in Table 6 as fol- lows: Table 6: T-Test Results of Pre-Test and Post-Test

of SCT Group Aver. t-test for Equality of means t value t table Sig. Dif % Pretest 7.3690 Posttest 7.3490 -.191 2.23 .853 -.020 .27 Table 6 above shows that the t-value of -0.191 and t-table of

2.23 (df 9) with significance value of p equal to 0. 853. Therefore, the t-

value is -0.191

<t-table 2. 23, and the significance value is 0. 853> 0.05. This shows that there is no significant difference. Therefore, the hypothesis

stating "There is a significant effect of SCT manip- ulation on speed" is rejected. Based on the data above, the training of SCThas increased by 0.02 or 0.27%. 3.3.3 Hypothesis of the Differences in the Effect of PCT Methods and

SCT Methods on Speed The third hypothesis is "There is a difference in the effect of PCT and SCT methods on Speed". Based on the results

of the analysis, the data obtained

in Table 7 are as follows: Table 7: Test -t Group of PCT and Group SCT Group Sig. Explanation PCT-SCT

Group .688 Not significant 4 Table 7 aboveshows that the significance value of 0.688 is > 0.05. Thismeans that there is no significant difference. So, there is no significant different effect of PCT and SCT on speed. The analysis results show that the percentage increase of PCTis higher than that of SCT, although statistically it is not significantly different from 0.688> 0.05. 4. Discussion The data analysis results showed that the manipulation of PCTand SCThave no significant effect (p = > 0.000) on speed improvement, and that the percentage increase of SCTis higher than that of PCT. Thus, SCTtraining is better than PCT training in terms of speed improvement. The

results of this study need to be investigated based on the theory and findings of previous researchers related to the variables in this study.

The following is the resultof the average score of the pretest, posttest and speed gain as shown in Picture 1 below. Effect of PCT and SCT Exercise on Speed 76..557 8 7.157.29 7.37 7.35 5.55 6 pretest Mean 432...54535 postest 10..5215 0.096 Gain -0-.501 -0.02 -1-.52 PCT SCT Exercise Method Fig. 1: Pretest, Posttest and Speed Gain Values Figure 1 above shows that the training method of PCTis able to increase the average speedby 0.096 m/sec, which is higher than that using the SCT, i.e. -0.02 m/sec. This means that the PCTtrain- ing method is better at increasing speed than the SCT training, although it is statistically not significantly different at p> 0.05. In sports, the achievement is very meaningful and it will determine the victory in competitions, especially in sports, that require time records such as sprint record breaking. This study shows how important the improvement of time records, even to improve the record of 0.5 seconds in 100m sprint takes up to several years.

Complex training seems to be an attractive option for developing strengths for untrained people.

This includes strength training from initial training strengths to modalities which are an important aspect allowing for more specific training and practicing competitive techniques from the very beginning [19].

One way to combine the two forms of training (weight training and plyometric training) is complex training or contrast methods. According to

[19], the design of complex training programs should consider

important variables such as exercise selection, load, and break between sets. Furthermore, the study offers additional guidance to this variable

as well as how it effects

on age and gender. Complex training may be effective for the upper body [16] and lower body training. In this research, the

technical variables are considered to be the same because the sample is from a homogeneous population of students majoring in sports coaching

FIK UNY. The quality of leg muscles, including three components, namely: limb strength, power, and reactive power.

Based on the

theory,a good leg strength will increase reactive power, which is defined as the abil- ity to change rapidly from eccentric to concentric phase in a stretch-shortening-cycle sequence (SSC). The treatment in this study is a combination of weight training and plyometric training. The weight training

treatments of both groups (PCT and SCT) were the same as those of the APS method (ascending pyramid International Journal of Engineering & Technology system) 8 RM, 6 RM and 4 RM so that the effect on the increase of leg muscle strength was assumed to be the same. Plyometric training in the PCT groupwas focused more

on the manipulation of functional training and the SCT group emphasizedmore on the manipulation of amortization. Functional training in PCT group plyometric training involves twist, rotational, lateral, and integrat- ed balance movements. This type of exercise involves acceleration, deceleration, and stabilization during multipurpose movements in all three areas (sagittal, frontal, and transverse), and must be pro- prioceptively challenged [20]. Theoretically, both forms of training will increase

speed. The

stretch shortening cycle is more influential with rapid move- ment and minimal ground contact (Komi, 2003). A decrease in contact time increases the movement strength and the stored elas- tic energy is not lost. The faster the clutch of eccentric action, the more concentric the effect of the exercise will be. Quick eccentric- concentric

clutch acts result in greater power and muscle deploy- ment and in turn the athlete ran

faster, jump higher, and changed direction very fast. Based on the theory, the SCT training method should have a better effect

on increasing the speed

due to the shorter amortization time of 6.53 seconds per type of exercise than the 6.67 seconds PCT training method per exercise type. While in PCT training,

although contact time (amortization) is longer, it has the advantage inbiomechanical adaptation, physio- logical and neurological systems due to synchronization and coor- dination of vertical and horizontal jumping movements, sideways, forward,

backward, lateral, and twist. The similarity of treatment with the test used also affects the results, the more similar

treat- ment to the

type of the test used, the higher the effect on the measurement results. The illustration of the similarity theory is shown by the fact that more economical runners generally outper- form the less economical runners in similar actions. Physiological- ly, they consume less oxygen for an identical

work rate. In other words, at certain running speeds, they do not have to work harder. In this case the SCT training method is more identical to the type of test usedthan the PCT training method,

so it can provide better results. Additionaly, it can be reinforced by training specifications, which refer to methods and mechanisms responsible for physio- logical systems in response to stress in acute and/or chronic exer- cises. A similar study conducted by [21] evaluated the effect of the eightweek training on weightlifting and plyometric training pro- grams, both training methods achieved significant improvements in 1RM squats and high vertical jumps, but they were unable to significantly increase the time 30m sprint and COD speed (change of direction). This study also succeeded in increasing the strength of RM 1 squat (picture 5.3) so that it was in accordance with the research by [22]. The increased muscle strength becomes the foundation of speed development. [23] states that squat ability>2 times body weight is a minimum requirement to express power (vertical and horizontal). [24]) showed that soccer players who were capable of squats> 2 x

body mass are significantly faster and capable of jumping higher than those who squat <2 x body mass.

Increased power is not automatically transferred to all movement speeds performed. Therefore, even if there is a significant increase in power, it does not necessarily affect the speed increase. Further research by [25] discovered that a combination of weight training and plyometric exercise for 12 weeks showed progress on sprint ability in 17-18 years old basketball players. The principle of training speed includes: 1) use of high speed mo-tion. 2) short run, 3) enough rest to minimize lactic acid levels in the blood, 4) low training volume to avoid exhaustion of the neu-romuscular system, and 5) restricted repetition using maximum intensity [26-27]. Not all of these rules are applicable in this study and there are even some rules which are so conflicting that the effect on speed increases is not significant. Moreover, the SCT training group actually decreased (-0.02 m/sec). [22] suggests that high loads for speed strength training (SPD-STR) should be <30% 1RM and low SPD-STR training loads> 30% 1RM. Weight train- ing in this study used 8 RM - 4 RM (60% 1 RM - 80% 1 RM) International Journal of Engineering & Technology which is in contrast to Turner 's opinion. However, Turner (2009) confirmed that the emphasis on gradual decrease in load (% 1RM) shifts from maximum strength to STR-SPD, SPD-STR and ends at speed training which in essence involves much of plyometric training such as the concept of exercise periodization. It can be inferred that the PCT training method is more effective in increasing the speed than the SCT training method, but both exer- cises are less effective in significantly improving the speed. These findings simultaneously provide

new information that shorten the time of contact (amortization) alone is still not enough to

increase speed. Plyometric training involving

a combination of vertical and horizontal jumping movement, sideways, forward, backward, to and from the lateral direction, twist, and shorten the amortization stage is crucial for the development of speed quality. 5. Conclusion Complex Training Manipulation

(PCTand SCT) are less effective in improve speed. Based on the percentage increase value, PCT is better than SCT exercise for speed. The PCT

method is an alterna- tive training method that can be used by trainers and athletes by modifying the number of contacts as it proves to

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KC Juyu

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Hope all of you have reached their destinations with a lot of amiable memories of 3rd Asia International Conference 2017.

We thank you for being a part of **3rd Asia International Conference (AIC-2017)**.UTM and Connecting ASIA congratulate you for your participation in the just-concluded conference. It was an unprecedented conference in many respects.

First of all delegates from 29 countries participated in AIC-2017, which is itself a great achievement for Connecting ASIA in order to provide a multicultural networking experience for conference participants.

Secondly, connecting ASIA provided sponsorships to the 30 participants to cover their traveling and accommodation expenditures. We aim that the good ideas must be shared for global humanity and community development. This is another achievement to celebrate and also to encourage more researchers to apply for next year (AIC-2018).

There are many other achievements in the name of this years AIC-2017 that may need a long time to count. However, The successes recorded couldn't have been possible without you. We congratulate all of the participants of 3rd ASIA international Conference 2017. We also don't forget to congratulate our best presenters.

5-Slides & 5 Minutes Competition

"Ilyana Janis"

"Vinita Susanti"

"Shamsuddeen Magaji"

Poster Presentation Competition

"Musdalifah Dimuk"

"Nor Ain Binti Yousaf"

"Nolia Harudin"

Normal Presentation

"Puteri Zarina Megat Khalid"

"Naveed Sultana"

"Najam Us Sahar"

Young Researcher Award

Anum Wali

We wish to see you at our next events.

Please like our facebook page for event Pictures and updates

https://www.facebook.com/infoconnectingasia/

In order to improve our future conferences, we would like you to give us your valuable feedback. Please in the below details and help us to improve in future.

https://goo.gl/forms/Uzyc3kBwbToONQZW2

Publication Updates

We will keep you updated on the publication process. For now, all papers are in the review process. Hopefully, you will receive the review within two months time.

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Thank you and best regards,

Dr. Muhammad Imran Qureshi

Director Connecting ASIA

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UTM Technovation Park,

Universiti Teknologi Malaysia, Jalan Pontian Lama,

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http://connectingasia.org/

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ISI/SCOPUS publication (AIMC 2017) - ASIA Intenational Multidisciplinary Conference

AIMC 2017, UTM Johor Bharu, Malaysia <asia@utm.my>

Rab, 8 Mar 2017 15.38

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Terjemahkan pesan

Nonaktifkan untuk: Inggris

Call For Paper

ASIA International Multidisciplinary Conference,

1-2 May 2017, Johor Bahru, Malaysia

Greetings from ASIA and UTM

UTM and AISIA is organizing the **ASIA INTERNATIONAL Multidisciplinary CONFERENCE** (**AIMC 2017**). Students, academics and practitioners are invited to submit their articles and have them published in ISI indexed/ SCOPUS Indexed journals.

The conference mainly focuses but not limited to on four broad areas. The themes of the conference are as follows:

1. Social Sciences and Humanities

Psychology, Education, Linguistics, Civilization and Law, Anthropology

2. Life Sciences

Environmental Sciences, Bio sciences, Pharmacy, Medical Sciences, Earth sciences, Geology, Agriculture, Anatomy, Genetics, Zoology

3. Science, Technology and Engineering

Civil Engineering, Mechanical Engineering, Chemical Engineering, Electrical Engineering, Marine engineering, Energy, Information technology and Computer science, Bioinformatics, Geoinformatics and real states, Mathematics, Physics and Chemistry etc.

4. Economics, Business and Management

Economics, Business Management, Accounting and Finance, Management, Marketing, Technology management, HR, Operations Management etc.

The conference fee details are given below:

Registration Type	FEE	
	International	Local
Early bird	USD 100	RM 300

registration (Before 31 March 2017)		
Normal Fee	USD 120	RM 350
Workshop Fee	USD 50	RM 200
Both Conference and Workshop Fee	USD 150	RM 500

Note! Registration fee does not include publication cost, hotel accommodation and transport. Registration fee includes: conference kit, lunch and daily tea breaks.

ASIA Mediterranean network and Universiti Teknologi Malaysia aims to bring all respective stakeholders, including practitioners, educators, and professionals on one platform from all over the globe to share the latest developments and transfer the academic and tacit knowledge to make the society more sustainable and knowledgeable. ASIA Mediterranean network has conducted the following conferences successfully:

- ASIA International Conferences (AIC 2016), UTM, KL Campus, Kuala Lumpur, Malaysia.
- ASIA International Conferences (AIC 2015), UTM, KL Campus, Kuala Lumpur, Malaysia.
- 2nd AFAP International Conference on Entrepreneurship and Business Management (AICEBM 2015).

In the same vein, it extends the experience curve and looking ahead, proactively to conduct AIMC 2017 this year in Malaysia.

Please click the below link to submit the abstract:

http://www.utm.my/asia/registration/

For details on the Pre-Conference Workshops s please go to the link:

http://www.utm.my/asia/pre-conference-workshops/

For workshop registration please fill in the google form using the below link: https://goo.gl/forms/bXR5jpLIRHAxGJe22

Thank you,

Prof. Dr. Amran Rasli

Director of ICC/Head of Conference Secretariat Industry Centre, Technovation Park, Universiti Teknologi Malaysia, 81300 Johor Bahru, Johor, Malaysia

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