



UTM
UNIVERSITI TEKNOLOGI MALAYSIA



ASIA
ACADEMIA SOCIETY & INDUSTRY ALLIANCE



AIC 2017

**3rd ASIA
INTERNATIONAL
CONFERENCE
(AIC 2017)**

ABSTRACT BOOK

**Leading The Future:
Education, Management And Society**

Conference Themes

Future of Marketing and Management

Emerging Issues in Economics and Finance

Advances in Managing Operations and Sustainability

Global Developments in Humanities, Education and Civilization

9-10 DECEMBER 2017
UNIVERSITI TEKNOLOGI MALAYSIA
KUALA LUMPUR, MALAYSIA

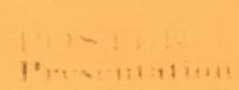


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Pre-Conference and Post-Conference Training Workshop

AIC 2017
ASIA International Conference

3rd
ASIA
INTERNATIONAL
CONFERENCE
2017

LAST DATE FOR ABSTRACT SUBMISSION
15 NOVEMBER 2017



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PRE AND POST CONFERENCE WORKSHOPS

WORKSHOP 1

"How To Write A Good Chapter One For Your Research"

Prof. Dr. Amran Md Rasli, Universiti Teknologi Malaysia (UTM), Malaysia



Dr. Amran Rasli is Professor at the Faculty of Management, UTM. He is author of more than 300 research articles in reputable journals. He is former Director of Innovation and Commercialization Center (ICC), UTM.

Time: 9:00 AM to 11:00 AM, 8 December 2017, UTM, Kuala Lumpur Campus.

WORKSHOP 2

"Advanced Issues in Structural Equation Modeling (SEM) using SmartPLS"

Dr. Muhammad Imran Qureshi, Universiti Kuala Lumpur (UniKL), Malaysia



Dr. Imran Qureshi is founding Director of Connecting ASIA and Senior Lecturer at MITEC-UniKL. He is author of more than 80 research articles with accumulative impact factor above than 45.

Time: 11:30 AM to 05:00 PM, 8 December 2017, UTM, Kuala Lumpur Campus.

WORKSHOP 3

"Tips for Writing Scientific Articles and Getting Published"

Dr. Lan Song, Elsevier



Dr. Lan Song worked as the Managing Editor for several environmental Science and Health journals at Elsevier.

Time: 9:30 AM to 12:30 PM, 10 December 2017, UTM, Kuala Lumpur Campus.



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AIC 2017

ASIA International Conference

Conference Program

Schedule for 3rd AIC 2017

Conference Theme: Leading the Future: Education, Management and Society
Venue: Menara Razzak, Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia

Saturday 9th December 2017

Time	Event
07:30-08:45	Registration
08:45-09:00	Guests Seating
09:00-09:20	Opening Note by Prof. Dr Amran Rasli (UTM)
09:20-09:40	Keynote Speech by Prof. Dr Jiří Jaromír (KLEMEŠ)
09:40-10:00	Keynote Speech by Dr. Syed Umar Farooq (Abasyn University)
10:00-10:20	Keynote Speech by Dr. Suresh Ramakrishnan
10:20-10:40	Introduction to Connecting Asia by Dr Muhammad Imran Qureshi (UniKL)
10:40-10:50	Group Photograph
10:50-11:10	Breakfast
11:10-13:00	5 Slides 5 Minutes (5S 5M) Competition
	Poster Presentation Competition
	Parallel Sessions (Normal Presentations)
13:00-14:00	Lunch & Prayer Break
14:00-16:00	5 Slides 5 Minutes (5S 5M) Competition
	Poster Presentation Competition
	Parallel Sessions (Normal Presentations)
16:00-16:15	Tea Break
16:15-18:15	5 Slides 5 Minutes (5S 5M) Competition
	Poster Presentation Competition
	Parallel Sessions (Normal Presentations)

CONFERENCE GALA DINNER

AIC 2017

ASIA International Conference

Venue: Menara Razak, Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia^a

Date: 9th December May 2017

Time: 19:00 – 22:00 Hours

Time	Program
19:00 – 19:30	Registration & Guest Seating
19:30 – 19:40	Welcome Speech by Conference Chairman Prof. Dr Amran Rasli
19:40 – 20:00	ASIA Achievements by Dr Muhammad Imran
20:00 – 20:05	Montage (ASIA Achievements & AIC 2017)
20:05 – 20:15	About ASIA till Now and Future Plans of ASIA, Launch of ASIA Membership Campaign
20:15 – 20:30	Presentation of Awards and Cash Prizes
20:30 – 21:15	Cultural Event
21:15 – 21:20	Photo Sessions
21:20 – 22:00	Networking & Dinner
22:00	End of the Event

Dinner Theme: Connecting People Globally

Dinner Attire: Traditional Attire^b

Tuesday, 10th December 2017

09:00-17:00	Virtual Conference
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^aJalan Sultan Yahya Petra, Kampung Datuk Keramat, 54100 Kuala Lumpur, Wilayah Persekutuan Kuala Lumpur

Phone: 03-26154922

^b(The Guests are requested to wear their own Traditional Attire)

WELCOME MESSAGE FROM CONFERENCE CHAIR

Professor Dr. Amran Rasli

We welcome all respected presenters to 3rd ASIA INTERNATIONAL CONFERENCE (AIC 2017). As per the previous AICs, we received so many abstracts from so many researchers from many parts of the world. Since this year is the third AIC, we have decided to give back more to those who participated this year. Firstly, we have arranged for a series of value added pre- and post-conference workshops which we believe will be very beneficial to the attendees. The pre-conference workshop covers two areas which have always been the bane of most researchers, i.e. how to write a good introduction chapter to your research and how to conduct advanced analyses using Smart PLS. The post-conference workshop will share publication tips by renowned editors from Elsevier. We hope that through these workshops, the attendees will be able to improve their research and writing skills accordingly. As always, we will try to assist you as ASIA is a venue where we network and help each other as best possible.

Other than the workshops we provide travel grants for deserving participants. This is part of our corporate social responsibility on top of our financial support for deserving postgraduate students studying at UTM.

Finally, we have raised the bar by focusing on better quality articles for acceptance to be published in reputable journals. We do hope that participants would understand that publication is a long and tedious process that involves many rounds of reviews and corrections. For these reasons, we hope that participants could assist by putting in more effort to ensure that articles submitted are original, error-free and fulfil the quality standard imposed. So, help us to help you and the others as well, as a delay in submission by some individuals will affect the others as well.

We have the gala dinner which we hope all the participants would attend as this is the venue where we could chill, let our hair down and network together. And yes, we will be singing together as before!!

May ASIA International Conference (AIC 2017) bring many benefits to all of us.

Happy conferencing.

GUIDE TO SESSION CHAIRS

Before Session

1. Please arrive at the meeting room 5 minutes earlier before the session starts.
2. You can check the program on the official conference website in advance.
3. If there are any changes of the session time or presenting abstract, the working staff will notify you right at the registration desk.

During Session

1. Please divide the available time equally among all presenters. Each paper should be presented in ten minutes, followed by three minutes discussion time.
2. At the beginning of the session, briefly, introduce yourself, announce of your arrangement of the presentations to the presenters and the audience. Please make sure the presenters are aware that they will receive their certificate at the end of the session.
3. We will have our working staff ready at the end of each session to take a group picture of the participants, please help to gather everyone for the photo shoot.
4. Papers with more than one author do not get any extra time for the presentation.
5. Please remind the presenters of the remaining time they have three minutes before the end of their presentation. If a speaker goes beyond the allotted time, the session chair should ask him/her to close the presentation promptly and politely.
6. Confer the certificate of participation to every presenter at the end of the session.
7. Please try to make sure the session timely proceeds since some attendees need to move from session to session.
8. If any problem which affects the continuation of your session appears, please send someone to contact the organisers.
9. If any of the presenters fail to appear at the session, please return their certificates to the organising committee.

EDITORIAL TEAM

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- Mr. Abdul Sami

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Dr Low Hock Heng	Faculty of Management, UTM, Malaysia.
Dr. Yulia Hendri Yeni	Andalas University, Kampus Limau Manis Padang, Indonesia
Dr Ashfaq Ahmed	Department of Business Administration, University of

Name	Affiliation
	Sargodha, Pakistan.
Dr Syed Zulfiqar Ali shah	Deputy Dean (FMS), In-charge, Accounting and Finance Department, International Islamic University, Islamabad, Pakistan.
Dr Ahmad Raza Bilal	Superior University Lahore, Pakistan.
Dr Muhammad Siddique	Department of Business Administration, University of Sargodha, Pakistan.
Dr Naveed Iqbal Ch.	Head of Department Business Administration, University of the Punjab, Gujranwala Campus, Pakistan.
Dr Maqsood Haider	Assistant Prof. FATA University, FR, Kohat, Pakistan
Dr Muhammad Tariq	Department of Economics, Abdul Wali Khan University Mardan, Pakistan.

Team for AIC 2017

Conference Chair

Professor Dr Amran Rasli

Program Director

Dr Muhammad Imran Qureshi

Committee Heads

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- ✓ Mr. Hishan Shanker Sanil
- ✓ Dr. Farhan Jamil
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- ✓ Mr. Haider Ali Shah
- ✓ Mr. Muhammad Ashfaq

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Prof. Dr. Jiří Jaromír KLEMEŠ Head of “Sustainable Process Integration Laboratory – SPIL”, NETME Centre, Faculty of Mechanical Engineering, Brno University of Technology – VUT Brno, Czech Republic and Emeritus Professor at “Centre for Process Systems Engineering and Sustainability”, Pázmány Péter Catholic University, Budapest, Hungary. Previously the Project Director, Senior Project Officer and Hon Reader at Department of Process Integration at UMIST, The University of Manchester and University of Edinburgh. Founder and a long-term Head of the Centre for Process Integration and Intensification –

CPI2, University of Pannonia, Veszprém, Hungary. Awarded by the EC with Marie Curies Chair of Excellence (EXC). Track record of managing and coordinating 91 major EC, NATO and UK Know-How projects. Research funding attracted over 21 M€. Co-Editor-in-Chief of Journal of Cleaner Production. He authored nearly 400 papers. A number of books published by Elsevier, McGraw-Hill; Woodhead; Ashgate Publishing Cambridge; Springer; WILEY-VCH; Taylor & Francis). Chairperson of CAPE Working Party of EFCE, a member of WP on Process Intensification and of the EFCE Sustainability platform. Several times Distinguished Visiting Professor for Universiti Teknologi Malaysia, Xi’an Jiaotong University; South China University of Technology, Guangzhou; Tianjin University in China; University of Maribor, Slovenia; University Technology Petronas, Malaysia; the Brno University of Technology and the Russian Mendeleev University of Chemical Technology, Moscow. Doctor Honoris Causa of Kharkiv National University “Kharkiv Polytechnic Institute” in Ukraine, the University of Maribor in Slovenia, University POLITEHNICA Bucharest, Romania. “Honorary Doctor of Engineering Universiti Teknologi Malaysia”, “Honorary Membership of Czech Society of Chemical Engineering”, “European Federation of Chemical Engineering (EFCE) Life-Time Achievement Award” and “Pro Universitaire Pannonica” Gold Medal.



Professor Dr Amran Rasli has a PhD in Society, Business & Globalisation from Roskilde University, Denmark. At the Faculty of Management, Prof. Dr Amran Rasli teaches postgraduate students, supervise doctoral students, conduct research projects and write journals for publication as per the expectation of the university. Prof. Dr Amran Rasli is still active in doctoral supervision having graduated 39 PhD scholars so far. He had been invited as a visiting professor at University of Southern Australia, University College of Engineering and Technology, Pahang, Indian Institute of Risk Management, Hyderabad, India, Hebei University,

China, Kaunas Technological University, Lithuania, National Central University, Taoyuan, Taiwan, National Chen Kung University, Tainan, Taiwan and Universitas Sebelas Maret, Surabaya, Indonesia, Universitas Bung Hatta, Indonesia, Sarhad University, Pakistan, Islamia College, Pakistan and City University, Peshawar. He is currently an Adjunct Professor at Asia E-University.



Dr. Syed Umar Farooq has a long and cherished academic career spread over 30 year. He is currently the Vice Chancellor at Abasyn University Peshawar-Pakistan. Dr. Umar Farooq did his Masters from University of Peshawar, CPA from the Chartered Institute of London, CPE from United States and PhD degree in Finance & Accounting. Prior to joining Abasyn University, Dr. Umar Farooq was the Vice Chancellor of Kardan University in Kabul. He has served the Allama Iqbal Open University and the Crainfield University in United Kingdom in the past. He has got 33 international research publications at his credit being published in well reputed business research journals of USA, Canada, UK, Pakistan and India. He has been instrumental in getting international accreditation at Kardan University from IACBE USA and now got top ranked status for QEC Abasyn University from QAA HEC Islamabad



Muhammad Imran Qureshi is a Doctor of management from Universiti Teknologi Malaysia. His doctorate research focused on the work practices for sustainable manufacturing under Socio-technical systems context. He is currently working as a senior lecturer in Malaysian Institute of Industrial Technology (MITEC), Universiti Kuala Lumpur. He is also founding Director of Connecting ASIA research network. He has ten years of teaching experience in the field of Operations Management, Strategic Management, Project Management, Total Quality Management, Statistical Process Control, Environmental Management, Logistic and Supply Chain Management, Production Management and Operations Research, Statistics and Data Analysis. He is a professional trainer for data analysis. He has conducted several workshops on Structural Equation Modeling (SEM) using AMOS and SMART PLS, qualitative data analysis using NVIVO. On the research side, his research profile consists of more than 100 research publications in renowned journals with a cumulative impact factor above 45. He has written several impact factor publications with world renowned publishers like ELSEVIER and SPRINGER in the area of Operations Management, Environmental Management, Sustainability and Organizational Behavior. His work has been cited extensively with 15 i10 index and h index 13. He is also author of three text books.



Professor Dr. M. Tahir Shah is the founder Vice Chancellor of the FATA University, FR Kohat, Pakistan. He served the National Centre of Excellence in Geology (NCEG), University of Peshawar for 36 years on various faculty positions and retired as the Director of NCEG in 2016. He is Ph.D. in Geology from the University of South Carolina, Columbia, USA and is the holder of prestigious Fulbright and Commonwealth Fellowships. He has been awarded several awards, commutative certificates and gold medals. Important among these are the Civil award “Tamga-i-Imtiaz” in 2014, Presidential award “Izaz-i-Fazeelat” in 2001, Earth Scientist of the year award in 1994, IUCN 2001 Environmental award, Gold Medal by the Pakistan Academy of Sciences, Star Laureate award and Dr. Zafar H. Zaidi Gold Medal and Productive Scientists of Pakistan award. Professor Dr. Shah is among the leading geoscientists in Pakistan having published 75 abstracts in the proceedings of national and international conferences and 160 peer reviewed research papers in the journals of international repute. He has supervised 39 M.Phil. and 14 Ph.D. scholars and remained the Chief Editor of Journal of Himalayan Earth Sciences. He has completed several national and international projects in the capacity of Project Director, Principal Investigator and Co-Principal Investigator under the auspices of Pakistan Science Foundation, Higher Education commission of Pakistan and US National Science Foundation. He has presented papers in various international conferences held in Pakistan, Sri Lanka, Bangladesh, Afghanistan, Austria, China, Italy, Bangkok, UK and USA and has delivered talks at the University of South Carolina, the University of Nevada and the University of Eastern Washington in USA and in the University of Leicester, UK by invitation. Presently, as the founder Vice Chancellor of the newly established FATA University, he is carrying out all efforts to establish the FATA University on strong footings.



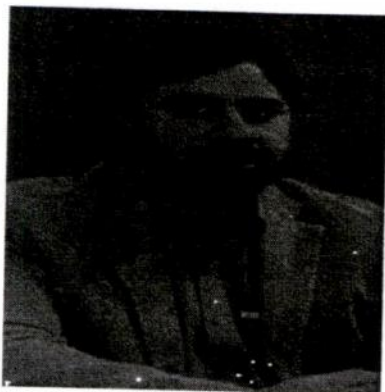
Dr Suresh Ramakrishnan is a Senior Lecturer in Department of Accounting and Finance, Faculty of Management at the Universiti Teknologi Malaysia (UTM). He is also the Post Graduate Academic Manager. After completing his B.Tech. Mgt (Finance) in Universiti Teknologi Malaysia, he did his MBA, (Finance) from Universiti Putra Malaysia and then pursued his Ph.D (Finance) at Deakin University Australia, Melbourne. He has more than 17 years working experience in academia mainly at UTM and other universities (on part-time basis) such as Deakin University Australia, Raffles University Iskandar, Universiti Putra Malaysia, SEGI University, Olympia Business College and Reading University. His area of research is Capital Structure, Corporate Default Prediction, IPO, Dividend policy and Corporate Social Responsibility (CSR). He has completed several government research projects and successfully graduated PhD candidates from UTM. He has more than 40 publications in reputed International journals which are indexed in Web of Science and Scopus database. He is currently the project leader for a few community and government projects.



Born in 1970, **Mr. Muhammad Imranullah** got his early education in Pakistan. After doing graduation from Edwardes College Peshawar, he completed his Masters in Business Management from Sullrose University in United States. Mr. Muhammad Imranullah established his first business school in 1993 at the tender age of just 23 years. He laid the foundation stone of Abasyn University in 1999, a top ranked University in Khyber Pakhtunkhwa province of Pakistan. He is an accomplished scholar, a prolific writer, a capable organizer and a man of vision. He is the founder President and Chancellor of Abasyn University. In a time when investors were shy to step into higher education arena, he emerged on the scene, revitalizing the University, setting new trends for higher education in the private sector, fostered strong linkages with the Higher Education Commission Pakistan and international academic organisations and established the University on modern lines. He is still the flag career for higher education in private sector and the journey to orient the nation with modern business, engineering, life sciences and computer education continued with enthusiastic zeal and fervour under his dynamic leadership. He also presided the private sector association of higher education institutes and universities in Pakistan. 5 of his research articles have been published in the renowned research journals of USA, Canada and United Kingdom. He has also participated in research conferences in Netherland, USA and France. Currently he is overseeing and managing the proceedings of the extended family of Abasyn University. The educational programs of Abasyn University seeks to advance and encourage new ideas and promote enduring ethical and professional values to guide the practice of management and inculcate a habit of thinking in the younger generation of the country.



Dr. Aqeel Ahmad has a PhD and MS degree from University Utara Malaysia. He is presently working as Associate Professor and Director Academics in UCP Business School at University of Central Punjab (UCP), Lahore (Pakistan). He has more than 25 years of teaching, research and administrative experience. He has been achieved the 'academic leadership award' in 2016 to fulfilling the academics, administrative and managerial roles with dedication and outstanding commitment. Dr. Ahmad's teaching, training, consulting and learning interests include the areas of Organizational Behavior, Leadership, Career & Personality Development, Knowledge Management and Human Capital Development. He has successfully supervised more than a dozen of MS dissertations in different universities of Pakistan. He has also been appointed as a member of the Editorial Board and Reviewer of different international journals in Malaysia, Spain, Indonesia and USA.



Mr. Saif ul Islam is PhD Scholar in Teacher Education, Pakistan, Peshawar. He is currently the Pro Vice Chancellor of Qurtuba University of Science and Information Technology D.I. Khan/Peshawar, Pakistan. He has more than ten years of experience in the field of Administration and Examinations. On the research side, his research profile consists of multiple research publications in renowned journals.



Dr. Saima Batool is currently serving as a Chairperson, Department of Management Sciences and Manager Research Operations ORIC (Office of research innovation and Commercialization) at Qurtuba University of Science and Information Technology, Peshawar, Pakistan. She holds a PhD in Management Sciences from Qurtuba University of Science and Information Technology. She has been a recipient of prestigious Higher Education Commission's 5000 Indigenous Scholarship. Dr. Batool has carried out research work in large private and public sector organizations. She has over 10 years of experience in the field of research in HR, and has presented her work at many national and international conferences. She uses both qualitative and quantitative techniques for her research projects, but particularly enjoys working on quantitative techniques. She is a professional trainer for data analysis. She has conducted several workshops on Structural Equation Modeling (SEM) using AMOS. She Designed and conducted various faculty and student workshops, seminars and trainings for students and faculty in Research proposal and Thesis writing etc. She has a number of articles published nationally and internationally. Currently, Dr. Batool is enjoying her research and teaching activities and has received praise from students and executives alike for her challenging style of teaching. Dr. Batool is also serving as Assistant editor of two HEC Recognized Research Journals, in "Y" category, Namely the Dialogue and Journal of Managerial Sciences. She is also the member of Editorial board of several other International and National HEC Recognized Research Journals.

Call for Paper

2nd ASIA
International Multidisciplinary Conference 2018
(AIMC-2018)



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Tentative Dates: 1-2 May 2018
Tentative Venue: UTM, Johor Bahru, Malaysia

All accepted articles will be
published in **Scopus** indexed journals

Scopus

For further information please visit: <http://connectingasia.org/>
Our Facebook page: <https://www.facebook.com/infoconnectingasia/>

Call for Paper

4th ASIA International Conference 2018
(AIC-2018)



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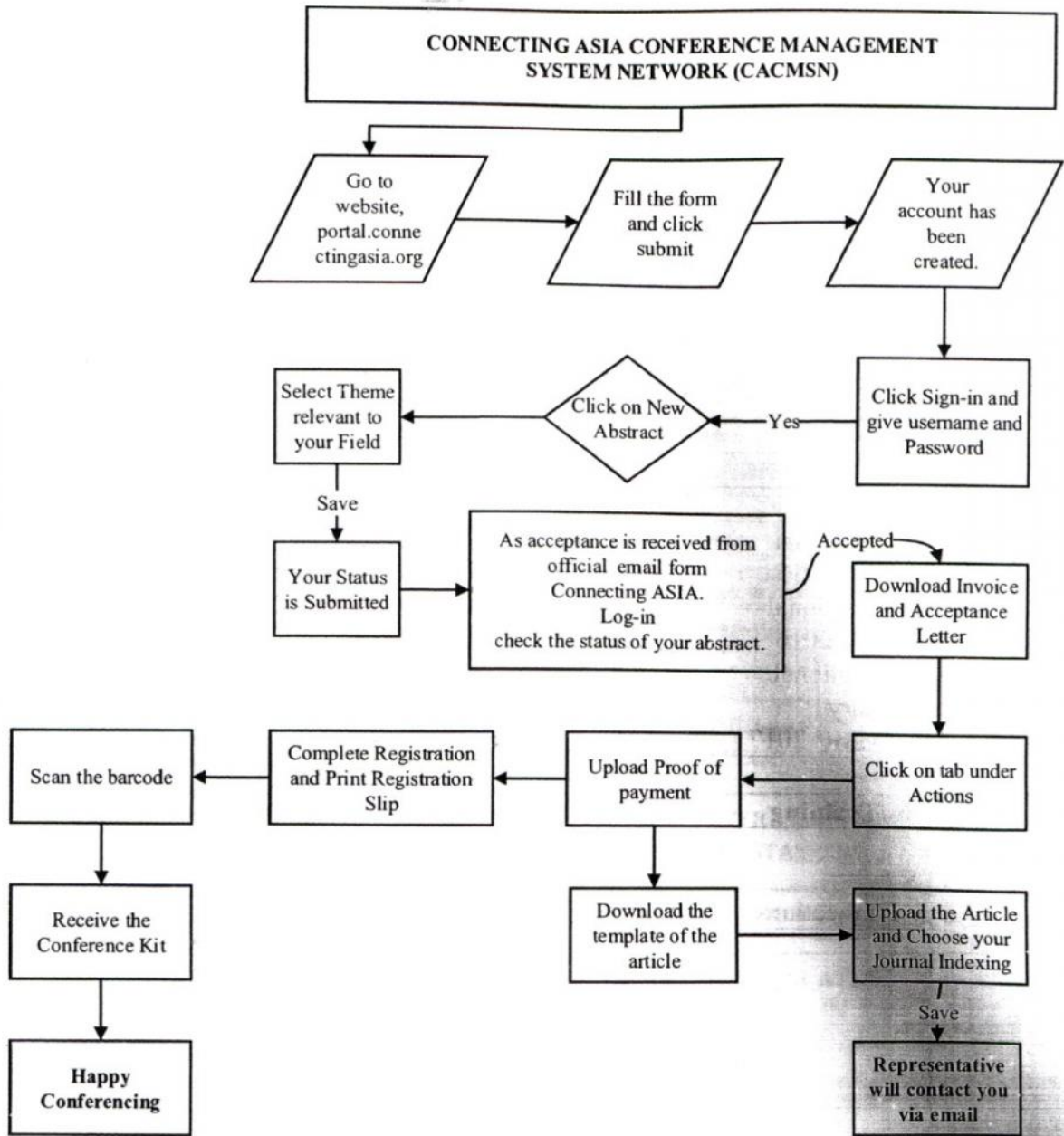
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Tentative Dates: 15-16 December 2018
Tentative Venue: UTM, Kuala Lumpur, Malaysia

All accepted articles will be
published in **Scopus** indexed journals

Scopus

For further information please visit: <http://connectingasia.org/>
Our Facebook page: <https://www.facebook.com/infoconnectingasia/>



PREVIOUS ACHIEVEMENTS

Event	Nature of Sponsorship	Participants for Award
1 st ASIA International Conference AIC 2015	Travel awards worth RM 15,000	15
2 nd ASIA International Conference AIC 2016	Travel awards worth RM 30,000	15
1 st ASIA International Multidisciplinary Conference AIMC 2017	Publications Sponsorship RM 30,000	30
3 rd ASIA International Conference AIC 2017	Travel awards worth RM 30,000	30

Event	Nature of Publications	Number of Publications
1 st ASIA International Conference AIC 2015	Scopus	30
2 nd ASIA International Conference AIC 2016	HEC Recognized Journals and Scopus Journals	350
1 st ASIA International Multidisciplinary Conference AIMC 2017	Scopus Journals and ISI Index Journals	Under Review 350

Workshops/Training	Year	No of Workshops	Total No. of Participants
AMOS	2016	5	96
Smart PLS	2017	7	128
How to do Publications	2017	2	44

List of Abstracts for ASIA International Conference (AIC 2017)

Abstract ID: AIC-2017-AMOS-13	2
ENVIRONMENTAL PROTECTION AS AN ETHICAL REQUIREMENT FOR COMMUNITY HEALTH	2
Abstract ID: AIC-2017-AMOS-19	2
SUSTAINABLE ENVIRONMENTAL MANAGEMENT IN NIGERIA: AN APPRAISAL	2
Abstract ID: AIC-2017-AMOS-22	2
LOGISTICS COMMITMENT: AN EVIDENCE OF LONG-TERM RELATIONSHIP ON SUSTAINABLE GLOBAL SUPPLY CHAIN.....	2
Abstract ID: AIC-2017-AMOS-26	2
BOARD CHARACTERISTICS AND CORPORATE ENVIRONMENTAL REPORTING IN NIGERIA.....	2
Abstract ID: AIC-2017-AMOS-29	3
INFORMATION MANAGEMENT AND FOOD SECURITY IN JIGAWA STATE, NIGERIA	3
Abstract ID: AIC-2017-AMOS-32	3
CORPORATE ENVIRONMENTAL MANAGEMENT: ECO-EFFICIENCY AND ECONOMICS BENEFITS AMONG MANUFACTURERS CERTIFIED WITH EMS14001 IN MALAYSIA	3
Abstract ID: AIC-2017-AMOS-35	3
ANALYZING KEY DRIVERS OF CONSUMERS' ONLINE IMPULSIVE BUYING BEHAVIOR IN THE CONTEXT OF SOCIAL COMMERCE: A STIMULUS-ORGANISM-RESPONSE APPROACH (S-O-R) WITH SOCIAL CAPITAL THEORY PERSPECTIVE.....	3
Abstract ID: AIC-2017-AMOS-36	4
THE EFFECTS OF ENTREPRENEURIAL MARKETING PRACTICES ON THE GROWTH OF HAIR SALONS IN HOTORON KUDU: EVIDENCE FROM KANO STATE, NIGERIA	4
Abstract ID: AIC-2017-AMOS-42	4
A SWOT-AHP METHOD IN DEVELOPING OPTIMAL DISTRIBUTION STRATEGIES	4
Abstract ID: AIC-2017-AMOS-44	5
THE IMPACT OF INSTRUCTIONAL SUPERVISION ON TEACHERS ATTITUDE TOWARDS TEACHING AND LEARNING AT THE TECHNICAL COLLEGES IN KATSINA STATE, NIGERIA.....	5
Abstract ID: AIC-2017-AMOS-47	5
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DUAL ARCHIVE RECORD TO SUPPORT SCHOOL ACCOUNTABILITY

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Universitas Negeri Semarang

Abstract

The purpose of this study was to develop a model of school accountability based on dual archive record at senior high school. Development of school accountability model is expected to improve the quality of management education in schools as one of the aspects of quality assurance on an institution, because during the school's ability to account for everything regarding its performance to internal and external parties poorly supported by physical evidence to ensure legal. The study was designed for two years and this paper is the result of research in the first year. Methodology: The Research approach of Research and Development (R & D). The subject of this research is all the parties relating to the accountability of schools that are students, teachers, employees, society and the education department. Analysis of data using qualitative approach. Findings The results show accountability for school performance is not supported by sufficient documents. This is due to the school has not maintained properly archive, records management is not consistent with that used archival system so that records can not be found back quickly and even to loss of school archives. Contribution: This study however suggests the application of school accountability model based dual archive record. This will be a significant contribution to support school accountability.

Keywords: School Accountability; Archive; Dual Archive Record

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THE EFFECT OF COMPLEX TRAINING MANIPULATION ON STUDENT SPEED OF SPORT COACHING DEPARTMENT UNIVERSITAS NEGERI YOGYAKARTA

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Abstract

*The Effect of Complex Training Manipulation on Student Speed of Sport Coaching Department Universitas Negeri Yogyakarta Mansur Universitas Negeri Yogyakarta *Mansur@uny.ac.id Abstract Purpose: This study aims to reveal: (1) Effect of Pyramid Complex Training (PCT) on Speed, (2) Effect of Square Complex Training (SCT) Exercises on Speed, and (3) Differences in Effect of Pyramid Complex Training (PCT) and Square Complex Training (SCT) to Speed. Methodology: This research used quasi experiment design with two group pretest posttest design. The population of this study is a new student of Sport Training Program (PKO) 2013 which is 21 non Athlete, 19-22 years old (± 19.3), height 162.3-187.0 cm ($\pm 171,053$), weight 51.22-75.5 kg (± 63.0527) and resting heart rate 50-81 per minute (± 63). Based on the ranking of the T score pretest (speed) the subject is divided into 2 groups, PCT group as many as 11 people and SCT Group as many as 10 people. Findings: The research findings showed that: (1) there was no significant influence of Pyramid Complex Training (PCT) manipulation on Velocity, with a significance value of $0.096 > 0.05$ and percentage increase of 1.98%; (2) no significant effect of Square manipulation Complex Training (SCT) to Speed, with a significance value of $0.853 > 0.05$ and a percentage increase of -0.27%; (3) there was no significant difference between Pyramid Complex Training (PCT) training and Square Complex Training (SCT) to Speed, with a significance value of $0.688 > 0.05$. Based on the analysis results show that the percentage increase of Pyramid Complex Training (PCT) is better than Square Complex Training (SCT), although statistically not significantly different $p > 0,05$. Conclusion: Complex Training Manipulation Training (Pyramid Complex Training (PCT) and Square Complex Training (SCT)) are less effective to improve speed. Based on the percentage increase value indicates that Pyramid Complex Training (PCT) is better than the Complex Training (SCT) on improve speed.*

Keywords: Complex Training; Pyramid Complex Training; Square Complex Training; Speed

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APPLIED ENTREPRENEURSHIP EDUCATION AT UNIVERSITY OF MANADO NORTH SULAWESI INDONESIA

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Abstract

The University of Manado's (Unima) students have great potential to become successful entrepreneurs if they have good knowledge and adequate entrepreneurial skills. However, although entrepreneurship subject has been taught for years in several faculties, however it was hard to identify the students' entrepreneurs at Unima. By making use of qualitative method, this study examines student entrepreneurship development; and identify the factors that influence the development of student entrepreneurship at University of Manado. The conclusion is th entrepreneurship subject at Unima before 2015 just focused on the theory that is the reason why there was not start up student entrepreneur. However, since 2015 the curriculum and teaching method have been improving and more focus on applied entrepreneurship. The factors that encourage entrepreneurship development in University of Manado is the support of various parties, both internal and external campus.

Keywords: Applied Entrepreneurship; Student; University Of Manado

The Effect of Complex Training Manipulation on Student Speed of Sport
Coaching Department Universitas Negeri Yogyakarta

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Abstract

This study aimed to reveal: (1) the effect of Pyramid Complex Training (PCT) on speed, (2) the effect of Square Complex Training (SCT) exercises on speed, and (3) the differences in the effect of PCT and SCT 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, whose age ranging from 19 to 22 years old (± 19.3), height ranging from 162.3 cm to 187.0 cm (± 171.053 cm), weight ranging from 51.22 kg to 75.5 kg (± 63.0527 kg) and resting heart rate ranging from 50 per minute to 81 per minute (± 63). Based on the rank of T pretest score (speed) the subject was divided into two groups: PCT group (11 people) and SCT group (10 people). The PCT group was treated with weight training combination of 8 RM, 6 RM, 4 RM and plyometric training with pyramid system (6 repetitions of lateral single leg jump, 8 repetitions of side jump, 10 repetitions of box jump, 12 repetitions of twist front jump and 14 repetitions of twist tuck jump). The SCT group was treated with the weight training combination of 8 RM, 6 RM, 4 RM and plyometric training with square system (10 repetitions of single leg jump, 10 repetitions of side jump, 10 repetitions of front box jump, 10 repetitions of hurdle front jump and 10 repetitions of tuck jump). The training was conducted three weekly training sessions for 7 weeks. All groups were given pretest and posttest. The speed testing used the 40 meter dash. The data analysis used a *t* test. The results were as follows. (1) There was no significant effect of manipulation of

PCT on speed, with the significance value of $0.096 > 0.05$ and percentage increase of 1.98%. (2) There was no significant effect of manipulation SCT on speed, with the significance value of $0.853 > 0.05$ and the percentage increase of -0.27%. (3) There was no significant difference between PCT and SCT on speed, with the significance value of $0.688 > 0.05$. Based on the analysis results, the raising percentage of PCTgroup was higher than that of SCT group, although statistically it was not significantly different $p > 0.05$. In conclusion, the Complex Training Manipulation (PCTand SCT) was not very effective in raising speed. Based on the raising percentage value, PCT is better than SCTexercise for speed.

Keywords: *Pyramid Complex Training, Square Complex Training, Speed*

Introduction

The peak performance in sports is the final estuary in the process of sports coaching. High achievement is the result of the actualization of various elements such as physical condition, technical ability, mastery of tactics, and mental maturity. Physical condition plays an important role, because it is the absolute and major requirement for 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 ease to master complex skills, reduction of risk of injury, maintenance of physical performance, acceleration of post-exercise recovery 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, Liem Swie King, Icek Sugiarto, Susi Susanti, Muhammad Ahsan, Hendra Setiawan, Tontowi Ahmad, Liliyan Natsir and several prominent athletes in Indonesia whose track record in training is good. This is in line with the research by Bompa (2009) 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 for prime 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, aerobic endurance, anaerobic endurance, speed, power, agility, flexibility, coordination and balance. Without the support of prime physical condition, 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 high performing 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, measurable, and sustainable. Herring, et al. in Mansur (2014: p.167) state that the purpose of physical condition training is to optimize performance and minimize the risk of injury and disease. Biological and network systems in sports training are set up by applying physical demands which are heavier based on the development of athlete's physical

condition (Bompa & Buzzichelli, 2015, p.19). Achieving these objectives requires a proper training approach. In the training terminology, it is commonly called the training method. Singh (2012, p.26) states that the exercise is a basic process of the preparation for higher performance whose processes are designed to develop motor and psychological abilities that enhance one's ability. Further, Sukadiyanto and Muluk (2011, p.9-10) 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 Bompa (1993, p.1) an exercise is a systematic, progressive repetition process with the ultimate goal of improving sports performance. So, the training method is the procedure 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 strategies/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 minimum 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. Osteras and Hoff (2005, p.377) 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 increase positive adaptation when getting exercise treatment (Chandler and Brown, 2008), whereas a trained athlete requires an outstanding effort to get the same effect as the less trained athlete does by modifying the intensity, frequency, volume, recovery and exercise density.

Speed is a multidimensional motor capability that is primarily manifested in four forms: latency time of motor reaction, individual speed of movement, speed of frequency movement, and running speed (Stojiljković, 2003). Speed is distance per time, which means that speed will be measured by the unit of distance divided by the time unit. According to Sukadiyanto (2011, p.174) 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 IAAF (1993, p.73) speed is the ability to walk and move very quickly. Harsono (2015, p.216) 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 shortest time. 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).

Suharjana (2013, p.140) states that speed components are used by almost all sports. For this reason, speed training are considered to be crucial for athletes. One of the speed training is a complex exercise. According to Bompa & Buzzichelli, (2015, p.19), success in strength training depends on knowing the types of strengths and how to develop them, as well as the types of contractions and which are best for a given sport. A complex training is an exercise method that aims to improve athlete's physical condition by doing high intensity strength training followed (transferred) by a plyometric exercise. Biomechanically, there is a similarity in terms of muscle and joint involvement between weight training and plyometric training, for example squat 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

been investigated 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, knee tuck jump, single leg jump, lateral jump and box jump either by normal jumping or by twist was the main focus of this study. Single-leg training has many benefits and attention to injury prevention, rehabilitation, and performance improvement of sports programs. According to Boone and Cook, (2006), 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 performance of the athlete. Other studies have shown that a complex training can have a positive effect on motor skills of basketball players (Cheng, Lin, & Lin, 2003; Santos & Janeira, 2008; Nageswaran, 2014; Roden, Lambson, & DeBeliso, 2014).

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 University 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.

Methods

This study is a quasi experiment. The research design was the two-groups pretest-posttest design, which have a pretest before treatment and a posttest after treatment, thus the result can be more accurate, because it can be compared with the result before treatment (Sugiyono, 2007, p .64).

Research variables

This research has two variables, that is the independent variable and dependent variable. The independent variable in this research are PCTand SCT training, while the dependent variable is speed.

Research subject

The subjects in this study are the third semester students of Department 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 humogeneous. 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 (DJ) was performed at 05.00 in the morning before the subjects did physical activities. DJ measurements were performed in a sitting position, using a heart rate monitor from Pollar FT1TM and FT2TM brands
- b. Blood pressure measurement used the Rister Measurement brand tensiometer.

2. Measurement of the height of the barefoot subject, standing upright, and viewing straight forward. The measurement of height used microtois brand Design type 26 BC made in Indonesia, with cm unit measurement, accuracy up to 0.1 cm.
3. Weight measurements used SmcBrandtype 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 (6 repetitions of lateral single leg jump, 8 repetitions of side jump, 10 repetitions of box's jumps, 12 repetitions of twist front jump and 14 repetitions 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 speed used 40 meter run (posttest)

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 in the normal distribution, therefore it is necessary to test normality and homogeneity test (Arikunto, 2006, p.299).

Research Results and Discussion

The data in this research are the strength of pretest and posttest speed capability. The pretest and posttest data on PCTgroup speed capabilities are as follows:

Table 1. Pretest and Posttest of Pyramid Complex Training (PCT) Group Speed

No Subject	<i>Pretest</i>	<i>Posttest</i>	Difference
1	7.33	7.84	0.51
2	6.9	7.19	0.29
3	6.96	6.64	-0.32
4	7.46	7.41	-0.05
5	6.92	6.99	0.07
6	7.55	7.63	0.08
7	7.04	7.46	0.42
8	7.04	7.3	0.26
9	7.41	7.42	0.01
10	6.9	6.79	-0.11
11	7.18	7.58	0.4
Mean	7.1536	7.2955	0.1418
SD	0.24394	0.36533	0.25600
Min	6.90	6.64	-0.32
Max	7.55	7.62	0.51

The pretest and posttest data on Square Complex Training (SCT) Group speed capabilities can be seen as follows:

Table 2. Pretest and Posttest of SCTGroup Speed

No Subject	<i>Pretest</i>	<i>Posttest</i>	Difference
1	7.34	7.23	-0.11
2	7.35	7.6	0.25

3	7.27	7.34	0.07
4	7.22	7.66	0.44
5	7.58	7.26	-0.32
6	7.34	7.41	0.07
7	7.62	7.03	-0.59
8	7.12	7.38	0.26
9	7.52	7.31	-0.21
10	7.33	7.27	0.06
Mean	7.3690	7.3490	-0.008
SD	0.15913	0.18138	0.30608
Min	7.12	7.03	-0.59
Max	7.62	7.66	0.44

Prerequisite Test Results

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 group			
<i>Pretest</i> Speed	0.635	0.05	Normal
<i>Posttest</i> Speed	0.914	0.05	Normal
SCT group			
<i>Pretest</i>	0.939	0.05	Normal

Speed			
<i>Posttest</i> 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.

Homogeneity Test

The results of the homogeneity test of this study can be seen in Table 4 as follows:

Table 4. Homogeneity Test Results

Group	Sig.	Explanation
PCT group		
<i>Pretest-Posttest</i> Speed	.297	Homogeneous
SCT group		
<i>Pretest-Posttest</i> Speed	.796	Homogeneous

Table 4 above shows that all data have the p value (Sig.) > 0.05, and thus they are homogeneous.

Hypothesis Test Results

The testing of the research hypothesis was done based on the result of data analysis and the interpretation of the t-test analysis. The sequence of the hypothesis testing results was adjusted to the hypothesis, as follows:

Hypothesis of the Effect of PCT Training Method on Speed

The first hypothesis states: "There is no significant effect of the manipulation of PCT on speed", based on pretest and posttest results. 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	Average	<i>t-test for Equality of means</i>				
		t value	t table	Sig.	Difference	%
<i>Pretest</i>	7.1536	-1.837	2.26	0.096	0.1419	1.98 %
<i>Posttest</i>	7.2955					

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 $-1.837 < t\text{-table } 2.26$, 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 PCT on speed" is rejected. The data above show that the PCT exercise decreased the speed of 0.1419 and increased the by 1.98%.

The Hypothesis of the Effect of SCT Method on Speed

The first hypothesis reads "There is a significant effect of SCTmanipulation on speed", based on pre-test and post-test results. The analysis of the t-test results shows the data in Table 6 as follows:

Table 6. T-Test Results of Pre-Test and Post-Test of SCT

Group	Average	<i>t-test for Equality of means</i>				
		t value	t table	Sig.	Difference	%
<i>Pretest</i>	7.3690	-0.191	2.23	0.853	-0.02	-0.27 %
<i>Posttest</i>	7.3490					

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 $-0.191 < t\text{-table } 2.23$, 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 manipulation on speed" is rejected. Based on the data above, the training of SCT has increased by 0.02 or 0.27%.

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 PCTand SCTmethods on Speed". Based on the results of the analysis, the data obtained in Table 7 are as follows:

Table 7. Test-t Group of PCTand Group SCT

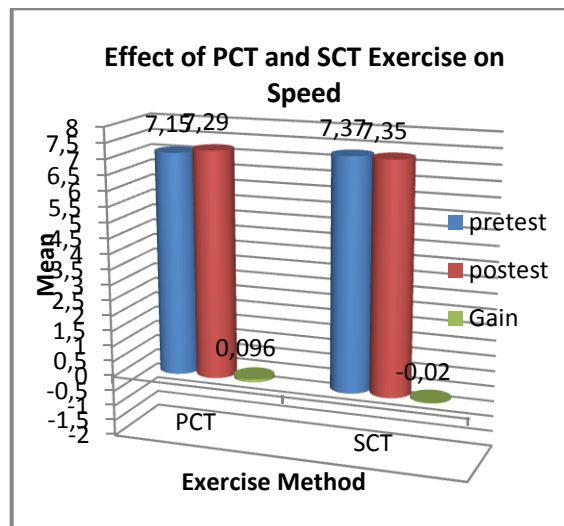
Group	Sig.	Explanation
PCT-SCT Group	.688	Not significant

Table 7 above shows that the significance value of 0.688 is > 0.05 . This means 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 PCT is higher than that of SCT, although statistically it is not significantly different from $0.688 > 0.05$.

Discussion

The data analysis results showed that the manipulation of PCT and SCT have no significant effect ($p \Rightarrow 0.000$) on speed improvement, and that the percentage increase of SCT is higher than that of PCT. Thus, SCT training 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 result of the average score of the pretest, posttest and speed gain as shown in Picture 1 below



Picture 1. Pretest, posttest and speed gain values

Picture 1 above shows that the training method of PCT is able to increase the average speed by 0.096 m/sec, which is higher than that using the SCT, i.e. -0.02 m/sec. This means that the PCT training 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 (Juares, Rave, Navaro, 2009, p.240). One way to combine the two forms of training (weight training and plyometric training) is complex training or contrast methods. According to Ebben, (2001), 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 (Evans, et al., 2000) 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 ability 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 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 group was focused more on the manipulation of functional training and the SCT group emphasized more on the manipulation of amortization. Functional training in PCT group plyometric training involves twist, rotational, lateral, and integrated 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 proprioceptively challenged (Yep, et al, 2000). Theoretically, both forms of training will increase speed.

The stretch shortening cycle is more influential with rapid movement and minimal ground contact (Komi, 2003). A decrease in contact time increases the movement strength and the stored elastic 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 resulted in greater power and muscle deployment and in turn the athlete ran faster, jumped 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 in biomechanical adaptation, physiological and neurological systems due to synchronization and coordination 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 treatment 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 outperform the less economical runners in similar actions. Physiologically, 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 used than the PCT training method, so it can provide better results. Additionally, it can be reinforced by training specifications, which refer to methods and mechanisms responsible for physiological systems in response to stress in acute and/or chronic exercises.

A similar study conducted by Tricoli et al. (2005) evaluated the effect of the eight-week training on weightlifting and plyometric training programs, 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 Tricoli et al. (2005). The increased muscle strength becomes the foundation of speed development. Stone, et al., (2002) states that squat ability > 2 times body weight is a minimum requirement to express power (vertical and horizontal). Wisløff, et al. (2004) showed that soccer players who were capable of squats $> 2 \times$ body mass are significantly faster and capable of jumping higher than those who squat $< 2 \times$ 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 Nikolic et al (2017, p.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 motion. 2) short run, 3) enough rest to minimize lactic acid levels in the blood, 4) low training volume to avoid exhaustion of the neuromuscular system, and 5) restricted repetition using

maximum intensity (Bompa, 2009; Komi., 2003). 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). Turner (2009) suggests that high loads for speed strength training (SPD-STR) should be <30% 1RM and low SPD-STR training loads> 30% 1RM. Weight training in this study used 8 RM - 4 RM (60% 1 RM - 80% 1 RM) 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 exercises 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.

Conclusion

Complex Training Manipulation (PCT and SCT) are less effective in improving speed. Based on the percentage increase value, PCT is better than SCT exercise for speed.

Suggestion

Based on the results of the study, the following suggestions are given to trainers, sports teachers or sports coaches, sports club policy makers, and other researchers: there is a

need for similar research with more trained athletes, both male and female subjects. The PCT method is an alternative training method that can be used by trainers and athletes by modifying the number of contacts as it proves to be more effective in increasing speed.

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