





PROCEEDINGS

4th National Conference on Physical Education & Sports Sciences

(Under the Aegis of Ministry of Youth Affairs & Sports)

9-10 February 2018, New Delhi

Organized by
Physical Education Foundation of India

INDEX

	University Sports for Olympic Medal / Dr. Gurdeep Singh			
	Science Of Sports Training / Dr. A. K. Uppal	17		
٠	What Makes A Fastest Runner: A Structural & Functional Insight? / Dr Meesen Dhingra, Ms. Jyotsna Aggarwala	29		
٠	Vision 2020: Third Force And Sports Psycholgy / Prof. Pratap Singh Tiwari	34		
	Peack Performance In Spor / Dr.R. Thirumalaisamy	31		
٠				
٠	Professional And Academic Development In Physical Education & Sports Sciences To Be Skilled India - A Vision Document 2018 / Dr. Dhananjoy Shaw	4:		
٠	Mensal Toughness - A Psychological Tool For Transforming Setbacks Into Successes / Prof. (Mrs.). Vasanthi Kadhiravan	55		
	Marathon Running And Health Benefits / Dr. George Abraham	62		
*	Compression Of Will To Win Between Different Colleges And Different Universities	66		
	Male Football Players / Dr. S. N. Singh, Dr. Kuldeep Malik			
	An Analysis On The Role Of Aerodynamics On Swing Bowling In Cricket / Dr. Rajkumar G. Karve	71		
	Sports Tourism in Hadoti Region: Way Forward Opportunities and Challenges /	74		
	Dr. Amukrati Sharma, Dr. Vijay Singh	70		
	Swimming: As Physical Activity For Better Lifestyle Management /	79		
	De Rakesh Gupta, Ms. Meenakshi Pahuja	87		
•	Performance Analysis: Essential Tool for Peak Performance / Dr. Umesh J. Rathi	90		
*	Effect Of Diabetes On The Lifestyle Of Patients Suffering From Diabetes /	90		
	Dr. Veshbeer Singh, Dr. Chetan Sharma	93		
	Effect of Aerobic Exercises on selected Physiological Variables of College Students /	,,		
	De Showkat Hussain	96		
*	Actions to be adopted by government and people to attain Olympic Medals / Dr. Yogesh Kumar	99		
•	Relationship Between Aerobic Fitness And Heart Rate Recovery Followed By Maximal			
	Anaerobic Exercise In Combative Sports / Dr. Neha	102		
	Health Fitness And Wellness And Their Process Of Development / Dr Lokendra Pal Singh Chauhan	106		
*	Technology As A Modern Tool In Sports / Dr. Yeshwant V. Patil	110		
	Comparison of kicking leg's mechanics of instep kick between male and female soccer players of			
	Bangladesh / Shaybal Chanda, Prof. Sumanta Kumar Mondal	113		
*	Talent Identification - Procedure and Process of Nurturing / Dr. Anil Deshmukh	125		
	Correspondence between Health, Fitness and Wellness / Dr. Anil Vaidya	128		

-	Displace Displace Dr. Divakar Ruikar	131
•	Sports Sponsorships Approaches in the Digital Age / Dr. Divakar Ruikar Physical Inactivity: Fourth Greatest Risk Factor For Poor Health / Dr. Madhusudan Marwal	134
•	Physical Inactivity: Fourth Greatest Risk Factor For Fool Health Br. Matthews / Dr. Nitin Deulkar	137
•	Adapted Physical Education: A Specially Designed Physical Education Programs / Dr. Nitin Deulkar	140
•	Sports tourism: A Fast Growing Niche in the Tourism Market Today / Dr. Sagar P. Narkhede	143
1	Sports Science for Sports Performance Enhancement / Dr. Santosh Tayade	145
٠	Survey Of Physical Education In Today's Schools / Dr. Dilip Malekar	
•	Potential of India As A Sports Tourism Destination / Dr. Kalyan Maldhure	148
•	Psychology In Sports / Dr. Kishor Tayade	151
٠	To Battle Occupational Stress - Need Of Great Importance In The Present Indian /	
	Dr. Pramod N. Humbad	154
•	The Importance of Health & Wellness for Healthy Living / Dr. Shyam Kela	162
	Feedback On Performance Of Serving And Reception Skills In Volleyball / Prof. Bajirao Ingole	165
•	Social Impacts of Sport Tourism Events / Prof. Atul Patil	169
•	Sports Tourism Enhance Sports Destination Development / Prof. Avinash Vitthalrao Kharat	172
•	Quality Physical Education: Characteristics & Components / Prof. Balasaheb Paul	175
	The Importance of Wellness for succeed in life / Prof. Pankaj Sharma	178
	Fitness for Good Health / Prof. Sarjerao Rambhau Wagh	181
	A Study On Relationship Between Self Confidence, Socio-Economic Status And Physical Fitness	101
	Components Among Gulbarga District Men Cricket Players / Mallikarjun Sharanappa	184
	A Therotical Study On Self-Confidence In Sports / Sanjeevkumar Appe, Dr. N.G. Kannur	189
	 A Study On The Influence Of Self Confidence And Achievement Motivation On The Performance Of Women Athletes / Shankar Sure, Naghabhushan L Awarad 	
	 A Comparative Study On Motor Fitness Among Senior And Junior Basketball Players Of Gulbarga District / Chandrakant Shiroli, Vijay Kumar 	195
	A Comparative Study On The Mcdonald Soccer Skill Test Performance Of Biadr And Kalaburagi	201
	District Men Inter-Collegiate Football Players / Jaiprakash Samuel, Dr. Girwalkar Sunita S	204
	A Therotical Study On The Role And Importance Of Psychology In Basketball Game / Dr. Shivakumar	204
	An Investigation On Specific Motor Fitness And Physiological Variables Of Bowlers &	207
	Batsman Of Goa State / Chandu G. Lamani, Dr. Pratap Singh Tiwari	211
	 A Therotical Study On Physical Education And Sports In India: A Women's Perspective / 	211
	Dr. Prasannakumar Shivasharanappa, Dr. Rajanna	216
	A Therotical Study On The Role Of Yoga In Sports / Dr. Rajanna	220
	An Analysis On Great Indian Cricketer Babaji Palwankar Baloo And His Performances	
	Pradeep Kumar U, Dr. Pratap Singh Tiwari	223
	 An Analysis On The Sportsman Personality Of Dronacharya Awardee Sri. N. Lingappa Through Opinions Of Relatives, Friends, Colleagues And His Contributions To Indian Athletics 	
	Vacrachlumar R. Viianur Dr. Pratan Sinah Tiwari	

SPORTS SCIENCE FOR SPORTS PERFORMANCE ENHANCEMENT

Dr. Santosh Tayade*

ABSTRACT

This paper will seek to provide a comprehensive description of Sports Sciences. The main focus of this paper is how Sport science focus on the scientific testing of athletes during off season, pre-season and competition season. This paper will discuss how sports sciences cover a broad range of fields including human physiology, psychology and biomechanics, and their relationship to sports performance, health and well-being.

Key words: Sports Science, Sports Performance.

INTRODUCTION

Sports Science is a very wide field of academics which is slowly coming into prominence in India and abroad. Sports Science is a wide topic on sports dealing with the theories and principles to do sports and exercise in the most scientific way. This field of studies is growing every day and it makes way to a career in fitness, leisure related industries, healthcare and pharmaceuticals.

Sports Science is a broad field of study that includes training modalities for improved performance; development of methods that allow athletes to train at higher intensities, more efficiently, and without injury; and the development of equipment or gear that improves performance.

Importance of Sports Science:-

The importance of sport science is the prediction of an individual's ability relating to the sporting world, the individualization of training programs according to specific needs and to identify possible strengths, weaknesses and prevent future injuries.

Sport science focus on the scientific testing of athletes during off season, pre-season and competition season. Fitness components that are focused upon include the following: Aerobic capacity, anaerobic capacity, Muscle power, strength, endurance, Agility and Speed. Sport specific tests are used, areas of concern are identified and worked upon, fitness levels are monitored and recovery techniques are incorporated.

The relationships between science and sport :-

Sport science is concerned with applying the study of movement/science to sporting activities. The main purpose of sport science is to assist an athlete in maximizing his potential with the least possible risk of injury. The relationships between sport sciences and sports are complex and changeable, and it is not clear how they reciprocally influence each other.

^{*}Director of Physical Education & Sports, Shri Ganesh Kala Mahavidyalaya, Kumbhari, Akola, Maharashtra







4h NATIONAL CONFERENCE ON PHYSICAL EDUCATION & SPORTS SCIENCES

(Under the Aegis of Ministry of Youth Affairs and Sports)

VISION & MISSION OLYMPICS 2020

Organized by
Physical Education Foundation of India

Certificate of Attendance

THIS IS TO CERTIFY THAT

Prof. /Dr. /Mr. / Ms. e. Sa	ntosh T	ayade	
From Shri Ganesh	Kala N	ahavidyalay.	a Kumbhari

has participated in the 4th National Conference on Physical Education & Sports Sciences on 09 – 10 February 2018 at Convention Center, NDMC, Sansad Marg, New Delhi.

Rahul Kothari (President-PEFI) Dr. A. K. Uppal (Chairmen) Dr. Piyush Jain (Organizing Secretary)

244 NCPESS/2018/A/