SPORTS AUTHORITY OF INDIA NETAJI SUBHAS NATIONAL INSTITUTE OF SPORTS, PATIALA

<u>DIPLOMACOURSETNSPORTSCOACHING</u>

"REVISELSYLLABUS"2015–16

THEORYANDSCIENCEOFHOCKEY

1st Semester

THEORYPAPER-I

Sr.n. Tequibinghours

1 History of Hockey

80

Ancient Hockey

National History — Sr. National, Jr. National (Men & Women) Asian History — Asian Games, Asia Cup, Asian Champions Trophy (Men & Women)

International History — World Cup, Olympic Games, Champions Trophy, Commonwealth Games, Champions Challenge (Men & Women)

Structure and function of:-

- (i) FIH Executive Board, Rules Board
- (ii) A.H.F
- (iii) National Hockey Federation
- (iv) I.O.A., I.O.C., SAI, NSNIS

2 Terminology

in

Hockey

06

Rule Book Terminology Coaching Terminology

3 Facilities and Equipment management 10

- a. Developmental trends in facilities and equipment in hockey
- b. Construction, marking and maintenance of play-fields:-

- (i) Synthetic Surface
- (ii) Natural grass, Gravel grounds, and mud fields
- (iii) Indoor Hockey Halls.

4 Rules of the game and umpiring

- a. Evolution of Rules
- b. Recent amendments of Rules
- c. Interpretations of Rules
- d. Tournament Rules and regulations
 - e. Qualities and duties of Umpires
 - f. Duties of match officials

5	Physical	and	mental	abilities	of	Hockey	player:
80							

- a. Specific Motor abilities.
- b. Specific skill abilities.
- c. Psychological abilities
- d. Social abilities

6 The Coach and Coaching

- a. Philosophy of coaching
- b. Qualities of a successful coach:
 - c. Communication skills of coach
 - d. SWOT management of coach
- e. Skills of a coach
- f. Coaching Ethics

7. Organisation and management of competitions:-

- a) Qualifying and competition systems:
 - (i) Olympic games
 -) World Cups (Sr. & Jr.)
- (iii) Champions Trophy, Champions Challenge
- (iv) Regional Championships
 - (v) National Championships (Sr. & Jr.)

22

08

- b) Competition organization:-
 - (i) General Rules
 - (ii) Technical Rules.
 - (iii) Equipment and facilities.
 - (iv) Drawing of fixtures
 - (v) Functions of various committees
 - (vi) Types of tournaments:-
 - League
 - Knockout
 - Pyramid
 - League cum knockout

(vii) Seeding system

8. Methods of Teaching and Coaching 18

Class Management:- Principles, Organisations, Formations and class control

Methods :

- a) Presentation method
- b) Cooperation method
- c) Task method
- d) Faults Reasons Corrections

Total

THEORYPAPER-I

Sr.n	Taaqhias ghours			
1.	Conditioning, Warmin	ng Up and Limbering Down	10	
	(a) Meaning (b) Types			
	i) General	ii) Specific		
	(c) Principles and importance (d) Methods and Means			
	(e) Effects of warmin	ng up and conditioning		
	(f) Climatic conditions (g) Modern trends of warming up and conditioning			
2	Basic Techniques and	d their variations:		40
	a.	Definition and importance		
	b.	Scientific principles used – Motor components – Training load – Motor abilities – Training schedules		
	С.	Techniques		

- i. Dribble and Roll
- ii. Hits Straight Hit, wrong foot Hit, Reverse Hit,
 - Turn-around and Hit, Left hand reverse hit
- iii.Pushes Straight Push, Reverse Push, Wrong foot Push,

iv. Flicks -Straight Flick, Reverse Flick, Wrong foot flick.

v. Scoops -Straight Scoop, Push Scoop.

vi.Stopping and Receiving -

- În front of body
- On right side
- On left side
- Reverse stopping
- Stopping High Balls in air
- Stopping low bouncing balls
- 3. Advance Techniques:
- 20
- a) Definition and importance
- b) Applied scientific principles
- c) Technique: Slap shot, sweep shot, Low back hand reverse hit,

Left hand reverse hit, Drag flick,

- i. Dodging and its variations: elimination skills, Jink
- ii. Tackling and its variations: Interception and variations, Channeling Lunge, Flat, reverse Flat, Poke
- iii. Dodging, Popping and shooting:
- iv. Tackling, passing and clearances
- v. Anticipation and Interception
 - vi. Peripheral vision and its importance
 - -Types of vision (split, stretch etc.)

4. Passes

- 10
- a. Principles of passing
- b. Requirements of passing
- c. Types of Passes:
 - (i) Parallel pass
 - (ii) Through pass
 - (iii) Return pass/Triangular pass
 - (iv) Over head pass
 - (v) Cross pass

- (v) Back pass:
- d. Techniques of implimenting différent passes with lead-up games
- e. Application in game situations
- f. Faults Reasons Corrections

5. **Training Implications of technique: in different age groups**

- a. Surfaces and Equipment
- b. Fitness level
 - SAQ training
 - Core fitness through gym/Swiss ball training
- c. Game experience
- d. Age group
- e. Training age

6. Evaluation of skill performance: -

a. Skill tests

- SAI

- Dr. Mehrotra- Dr. Dureha

- Dr. Kasi Viswanath
- b. Functional tests
- c. Rating scales
- d. Subjective rating by experts
- e. Game reading
- f. General tests and measurements
- g. Charts, Graphs, Statistics, Records
- 7. Tactics: In relation to motor action

15

- a. Definition, Importance, Principles
- b. Types:-
- i. Individual Tactics
- ii. Group Tactics
- iii. Teams Tactics
 - c. Tactics in different game situations (set play, 23 meters

& Pieces)

8. **Principles of skill teaching, training and skill learning.**

9. Application of Mechanical principles and its application in different types of Techniques.

05

05

- Deduction of Faults
- Reasons of faults
- Rectification of faults

Total <u>110</u>

PRACTICALS.

Sr.n	Toffeinshinghours

- 1. Warming up -general and specific as per the requirements of the 35 player/teams in different situations.
- 2. Class formations, commands, class control and management, conduct of 20 calisthenics and rhythmic exercises.
- Fitness training general to develop motor abilities. Specific 45 through game exercises, circuit - training, interval training. Pressure training, interval training. Pressure training and specific fitness exercises for flexibility and suppleness.
- 4. Preparation, maintenance and marking of hockey- fields (Synthetic 20 gravel Natural grass) and the equipment.
- 5. Conduct of competitions and practical for officiating and as technical 30

delegates

- 6. Basic techniques in Hockey teaching, training and perfection for 60 performance on different surfaces with tactics.
- 7 Combination techniques in hockey teaching training and perfection 50 for performance on different surfaces. Functional skills and tactical play of skill.
- 8. Practice of teaching stages, analysis of faults and suggestive measures 35 for rectification.
- 9. Practical experience to control loads. Making judgment of symptoms 25 and signs of over-loading during training
- 10 Organisation of minor games, lead-up game, conditioned games etc. 25
- 11. Video-analysis with specific aims to develop training exercises as 16 suggestive measures to overcome the faults/weaknesses and for performance development.
- 12 Pedagogic practice-teaching, training, coaching. <u>35</u>

396

Total

2nd Semester

THEORYPAPER-i

Sr.n	Topics Teachinghours
01. 12	Talent identification and its development:
a)	Principles and procedures to select talent for Hockey (Tests and Measurements)
b)	Development of talent on long-term basis: (i) Fitness for various age groups (ii) Technique training for various age groups (iii) Tactical training for various age groups.
	c) Progressing talent into elites
d)	Monitoring of training and development.

e)	 e) Kinesiological and Biomechanical principles, improvements, development of Different muscles and remedial measures if injured. f) Psychological approach for mental toughness 					
	(-	ii) Meditation	paration for effective and competitive and ical preparation for	nxiety	ation	
02. 12	Specific	fitness	requirements	s for	players:	
a) b) c) d) e) Goal Keep	F Fitness t Fitness t	itness to play or o play with diffe o play special r	Keepar with equipment n synthetic surface erent equipments oles in set plays. ises, S.A.Q. training		s training for	
03. 15			р	rinciples of	Play:-	
a) b) c)		Principles in Principles in Principles in	Defense.			
04. Pc 15	ositional	Plays –	Functional	Training	Exercises:	
a) b) c) d) 05 30	Goal- Deep Def Mid-field Attacker	lers	Strategies	and Advance	ed tactics	
	b) Te c) Te d) M	et plays — Tactie	lefense nid-field d strategies in relat cal variations communication	ion to the game-s	situations.	

	h) i)	Pressing: Types, utility, V Hockey	difficulties & red	ucing space	
06	Syster 24	ns and	Formations	of	Play:
		- Merit & Demerit and it	ts utility in moder	n Hockey game	
	a)	5:3:2:1			
	b)	3:3:3:1:1			
	c)	4:3:3:1			
	d)	4:4:2:1			
	e)	3:2:3:2:1 with 3 high st	rikers		
07 10				Selection of	teams:
10	a) b) c) d)	Players on different po Composition of teams Specialists for set-play Team Captain			
08 10	Selection	of	team		officials:
	b) c) d) e)	Physiotherapist and Ma Sports Medicine Doctor Sports Psychologiste/ 1 Sports Scientists	mental trainer er and analyst	skill Coach	

Total <u>100</u>

THEORYPAPEK-1

Sr.n Topilsachinghours

1. Planning :

25

Principles of Planning Training cycles and their aims

Periodizetion:

Definition and aim

- (i) Types of periodisation
 - Single periodization
 - Double periodization
 - Multi periodizetion
- (ii) Periods of periodizetion
- (iii) Aims of different periods
- (iv) Load distribution in different periods
- (v) Psychological approach for periodizetion

2. Training Schedules/programmes:

- a) Training schedules for short duration coaching camps (4 to 6 weeks)
- b) Weekly training programmes
- c) Daily training programmes (lesson plans)
- d) Isolated training sessions for individuals
- e) Schedules for set-plays training.

3. **Competitions:**

12

- a) Build up competitions
- b) Decisive competitions
- c) Direct preparation for main competitions.

4. Match Plans:

Role of head coach, asstt. Coach and other support staff

- a) Warm up for starters and substitutes
- b) Pep talks before and after match
- c) Pep talks during intervals
- d) Guidance to substitutes and suspended players
- e) Coaching during game
- f) Finalisation of game strategies in consultation with captain and team officials.
- g) Improvement of match intelligence

5. Team Management in Competition:

- a) Cooperation with tournament officials/organizers
- b) Control over team players : on and off the field
- c) Cooperation with team officials
- d) Briefings to media.
- e) Team meetings all types and level

6. General Topics

- a) Specific Nutrition -- Pre game, Post game
- b) Hydration for hockey Players
- c) Injury management an important aspect of modern Hockey
- d) Hydrotherapy and its importance
 - e) Recovery- different phases of recovery before, during & after

the game

- Total <u>100</u>
- 7. Sports Marketing

a) Introduction to Sport Marketing

Definition and explanation of Sport Marketing, Marketing pioneers, unique features of Marketing.

b) Consumer Behavior

i) Sport Consumers (Professional setting, Educational setting, Recreational setting)

- ii) Internal & External Influences
- iii) Decision Making process
- iv) Customer Motives, customer satisfaction

c) Public Relations and Sponsorship:

06

12

i) Media & community Relations, Public Relations tools,
image enhancement.
ii) Sponsorship Trends, Endorsement, Planning & Sales
Process, Sales Promotions, Advertisement event promotion
Computer Application

8.

Note: There shall not be any examination for topics number 7 & 8.

2nd semester

PRACTICALS.				
Sr.n	Topillsachinghours			
1.	Warming-up-General and specific with special exercises.	35		
2.	Practical organisation of tests to measure physical, technical and	20		
	tactical abilities of players of various age groups.			
3.	Development of special physical abilities required for positions in different formations and to be effective in playing the set-plays.	35		
4.	Fitness through relays with stick and ball, tactical games, technique/skill based minor and lead-up games.	20		
5.	Functional training of all positions based on players role in different systems of play.	55		
6.	Practice of technique and tactics of set-plays corner, penalty- corner, penalty-stroke, free-hits, hit-ins, start and restart, bully etc.	45		
7.	Practice of combinations in attack, mid-field, defence and scoring successes in different systems	30		
8.	Practical training for performance development in individual tactics, group tactics, team tactics and situational (improvised) tactics.	20		
9.	Practical teaching and training of various systems of play and coaching during functioning of the formations against other systems of play- controlled game.	55		
10	Organisation of drills, minor games and 6-a side (indoor) hockey game etc.	15		
11.	Pedagogics-teaching, training and coaching.	50		

Total 380

RECOMMENDED BOOKS (HOCKEY)

- Australian Hockey Association. *Coaching Manual Level-I. Edited by M. Ryan, B. Shea,* V. Klye, I. Speding
- Australian Hockey Association. *CoachingHockey The Australian Way*, Australian Hockey Association. Denis Glencrosss
- Cyril Walter. (1989) *Hockey, The Gold Medal Way,* Tur Borren Demi Moldings Ltd., Auckland.

David Whitaker (1986). Coaching Hockey The Crowood Press.

- Dilip K.Dureha, Akhil Mehrotra (2003). *Teaching and Coaching Hockey*, Janvarin Praskashan (P) Ltd.
- Dr. Lew Hardy.(1984) *Skill Development*. The National Coaching Foundation College Close Leads, L56 3QH Leeds BM Printers Hudderstield.
- Harmik Singh, Tejinder Singh & Inderjeet Singh Gill (2002). *Teaching Manual Hockey,* Sports Authority of India.
- Hockey Association (1975). *Hockey Coaching The official Manual of the Hockey Association*, Hodder and Stoughton.
- Horst Wein (1973). The Science of Hockey, S.Chand and Company.
- Horst Wein (1981). The Advanced Science of Hockey, Pelham Books.
- Ian Taylor (1989). Behind the Mask, Macdonald Queen Anne Press, Macdonald and Co. (Pelhams) Ltd 66-73 Shoe Lane London BC4P 4AB.
- Ivan Spedding, Margaret Ryan (1985) Hockey Aussie Sports Coaching Programme, ACHPER Publication, 214 Port Road, Hindmarsh, South Australia.
- Joh Sheddan et al.(1984) *Role of the Coach*. The National Coaching Foundation College Close Leads,L56 3QH Leeds BM Printers Hudderstield.

John Cadman (1985). Hockey the skills of the game, The Crowood Press.

John Fazey. (1984) Mental Preparation for Competition, The National Coaching

Foundation College Close Leads,L56 3QH Leeds BM Printers Hudderstield.
John Fazey.(1984) Acquiring Skills. The National Coaching Foundation College Close Leads,L56 3QH Leeds BM Printers Hudderstield.
Kapoor, M.L. (1968).Romance of Hockey, Workers Printing Press.
Kathleen A. Partridge (1991). The Rebound Revolution, Lazer Dazzle.
Nevill Mirey (1986). The History of Hockey, LielineLd.
Richard Beddoes, San Fisher, Ira Gitler (1969). Hockey the Story of World's Fastest Sport, The Macmillan Company.

Recommended Web sites

http://www.fihockey.org/

www.stick2hockey.com