UNIVERSITY OF KALYANI



CBCS CURRICULUM FOR THREE YEARS UNDER-GRADUATE COURSE IN PHYSICAL EDUCATION (GENERAL)

WITH EFFECT FROM THE ACADEMIC SESSION 2018-19

INTRODUCTION:

The University Grants Commission (UGC) has taken various measures by means of formulating regulations and guidelines and updating them, in order to improve the higher education system and maintain minimum standards and quality across the Higher Educational Institutions in India. The various steps that the UGC has initiated are all targeted towards bringing equity, efficiency and excellence in the Higher Education System of country. These steps include introduction of innovation and improvements in curriculum structure and content, the teaching-learning process, the examination and evaluation systems, along with governance and other matters. The introduction of Choice Based Credit System is one such attempt towards improvement and bringing in uniformity of system with diversity of courses across all higher education institutes in the country. The CBCS provides an opportunity for the students to choose courses from the prescribed courses comprising of core, elective, skill enhancement or ability enhancement courses. The courses shall be evaluated following the grading system, is considered to be better than conventional marks system. This will make it possible for the students to move across institutions within India to begin with and across countries for studying courses of their choice. The uniform grading system shall also prove to be helpful in assessment of the performance of the candidates in the context of employment.

Outline of the Choice Based Credit System being introduced:

1. Core Course (CC): A course, which should compulsorily be studied by a candidate as a core requirement is termed as a Core course.

2. Elective Course: Generally a course which can be chosen from a pool of courses and which may be very specific or specialized or advanced or supportive to the discipline/ subject of study or which provides an extended scope or which enables an exposure to some other discipline/subject/domain or nurtures the student's proficiency/skill is termed as an Elective Course.

2.1 **Discipline Specific Elective Course (DSEC):** Elective courses that are offered by the main discipline/subject of study is referred to as Discipline Specific Elective. The University/Institute may also offer discipline related Elective courses of interdisciplinary nature (to be offered by main discipline/subject of study).

2.2 Generic Elective Course (GEC): An elective course chosen generally from an unrelated discipline/subject, with an intention to seek exposure is called a Generic Elective.

3. Ability Enhancement Courses/ Skill Enhancement Courses:

3.1 Ability Enhancement Compulsory Course (AECC): Ability enhancement courses are the courses based upon the content that leads to Knowledge enhancement. They (i) Environmental Science, (ii) English Communication) are mandatory for all disciplines.

3.2 **Skill Enhancement Course (SEC):** These courses may be chosen from a pool of courses designed to provide value-based and/or skill-based instruction.

B.A./B.SC. PROGRAM IN PHYSICAL EDUCATION

A. TOTAL Number of courses in UG-CBCS (B.A./B.Sc. Program in Physical Education):

Types of	Core	Elective course	Irse Ability Enhncemnt Course		nnt Course	T
course	course (CC)	Discipline specific elective course (DSE)	Generic elective course(GE)	Ability Enhancmnt compulsory course(AECC)	Skill Enhancmnt course (SEC)	T A L
No. of course	12	6(BSc)/4(BA/B.Com)	2((BA/B.Com)	2	2	24
Credit/course	6	6	6	2	2	120

TABLE-1: DETAILS OF COURSES OF (B.A./B.Sc. Program in Physical Education) UNDER CBCS :

S. No.	Particulars of Course	Credi	t Point		
1.	Core Course: 14 Papers	Theory + Practicl	Theory + Tutoril		
1.A.	Core Course: Theory (12 papers)	12x4 = 48	12x5 = 60		
1.B.	Core Course (Practical/Tutorial)*(12 papers)	12x2 = 24	12x1 = 12		
2.	Elective Courses: (6 papers)				
<i>A.</i>	DSE (6 papers for B.Sc./ 4 papers for B.A. & B.Com.)	6x4 = 24	4x5 = 20		
В.	DSE(Pract./ Tutor.)* (6 papers for B.Sc./4 for B.A. &B.Com.)	6x2 = 12	4x1 = 4		
С.	GE (Interdisciplinary) (2 papers for B.A. & B.Com.)		2x5 = 10		
D.	GE (Pract./Tutor.)* (4 papers) (2 papers for B.A. & B.Com.)		2x1 = 2		
#Opti	onal Dissertation/ Project Work in place of one DSE paper (6 credits) in 6 th seme	ester		
3. Abilit	y Enhancement Courses				
<i>A.</i>	AECC(2 papers of 2 credits each)				
	ENVS, English Communication / MIL	2x2 = 4	2x2 = 4		
В.	Skill Enhancement Course(SEC)				
	(4 papers of 2 credits each)	4x2 = 8	4x2 = 8		
	Total Credit:	120	120		
## Wherever there is a practical, there will be no tutorial and vice- versa.					

TABLE-2: SEMESTER WISE DISTRIBUTION OF COURSES & CREDITS IN (B.A./B.Sc. Program in Physical Education):

(D.A./D.SC. 110grain in 1 hysical Education).								
Courses/ (Credits)	Sem-I	Sem-II	Sem-III	Sem-IV	Sem-V	Sem-Vi	Total No. of Courses	Total credit
CC-1,2 6)	2(1A,2A)	2 1B,2B)	2 (1C,2C)	2 (1D,2D)			8	48
Language	1	1	1	1				
CC - 1,2 (6)	(L1-1)	(L ₂ -1)	(L1-2)	(L ₂ -2)			4	24
DSE (6)	-	-	-	-	2(1A,2A)	2 (1B,2B)	4	24
GE (6)					1(GE-1)	1(GE-2)	2	12
AECC (2)	1	1					2	04
SEC (2)			1	1	1	1	4	08
Total No. of Courses/ Sem.	4	4	4	4	4	4	24	
Total Credit /Semester	20	20	20	20	20	20		120

B.A./B.Sc. Program in Physical Education

1st Semester

Course		Course			
Code	Course Title	Туре	LTP	Credit	Marks
CC1A	Foundation and History of Physical Education	Core course	4-0-2	6	75
CC2A	Discipline-2 (Core-1) other than Physical Education	Core course		6	75
CC (Language)	Language 1A / L1-1	Core course Language	5-1-0	6	75
AECC 1	Environmental Studies	AECC-1 compulsory	2-0-0	2	50
		SEMESTER TO	OTAL	20	275

B.A./B.Sc. Program in Physical Education

Course LTP Credit **Course Title Course Type** Marks Code Management of Physical Education CC1B Core course 4-0-2 75 6 and Sports Discipline-2(Core-2) other than CC2B 75 Core course 6 Physical Education Core course CC(Language) Language 2A/ L2-1 5-1-0 6 75 Language AECC-2 communicative ENG or MIL AECC-2 2-0-0 2 50 Compulsory SEMESTER TOTAL 20 275

2nd Semester

B.A./B.Sc. Program in Physical Education

<u> 3rd Semester</u>

Course		Course			
Code	Course Title	Туре	LTP	Credit	Marks
CC1C	Anatomy, Physiology and Exercise Physiology	Core course	4-0-2	6	75
CC2C	Discipline-2 (Core-3) other than Physical Education	Core course		6	75
CC		Core course			
(Language)	Language 1B/L1-2	Language	5-1-0	6	75
SEC (1)	Track and Field	SEC	0-0-2	2	50
		SEMESTER T	OTAL	20	275

B.A./B.Sc. Program in Physical Education

4th Semester

Course		Course			
Code	Course Title	Туре	LTP	Credit	Marks
CC1D	Health Education, Physical Fitness and Wellness	Core course	4-0-2	6	75
CC2D	Discipline-2 (Core-4) other than Physical education	Core course		6	75
CC		Core course			
(Language)	Language 2B/ L2-2	Language	5-1-0	6	75
SEC (2)	Gymnastics and Yoga	SEC	0-0-2	2	50
		SEMESTER TOTAL		20	275

B.A./B.Sc. Program in Physical Education

5th Semester

Course		Course			
Code	Course Title	Туре	LTP	Credit	Marks
DSE 1	DSE (Any one from Discipline-1 and any one from Discipline-2)				
	Discipline-1 (any one)	DSE		6	75
	Tests, Measurements and Evaluation in Physical Education		4-0-2		
	Sports Training		4-0-2		
	Discipline-2(Other than physical Education)			6	75
	1		5-0-1		
	2		5-0-1		
GE 1	GE -1 (for the students other than Phy. Edn.)	GE		6	75
	Modern trends in Physical Education and Sports Sciences		6-0-0		
SEC 3	SEC 3	SEC		2	50
	Indian Games (any one)- Kabaddi / Kho- Kho And Racket Sports (Any one)- Badminton/ Table Tennis		0-0-2		
		SEMESTER 7	TOTAL	20	275

B.A./B.Sc. Program in Physical Education

6th Semester

Course		Course			
Code	Course Title	Туре	LTP	Credit	Marks
DSE 2	DSE (Any one from Discipline-1 and any one from Discipline-2)				
	Discipline-1(Any one)	DSE		6	75
	Psychology in Physical Education and Sports		4-0-2		
	Project work		2-0-4		
	Discipline-2(Other than physical Education)			6	75
	1		5-0-1		
	2		5-0-1		
GE 2	GE 2 (for the students other than Phy. Edn.)	GE		6	75
	Health Education and Tests & Measurements in Physical Education		6-0-0		
			4-0-2		
SEC 4	SEC4	SEC		2	50
	Ball Games (any two) Football/Handball/Basketball/ Volleyball/ Netball/ Throwball		0-0-2		
		SEMESTER	TOTAL	20	275

CORE PAPER-1: Foundation and History of Physical Education

Course Code- CC1A

Total number of classes - 60

Unit-I: Introduction

- 1.1. Meaning and definition of Physical Education.
- 1.2. Aim and objectives of Physical Education.
- 1.3. Misconcepts and Modern concept of Physical Education.
- 1.4. Importance of Physical Education in modern society.

Unit- II: Biological and Sociological Foundations of Physical Education

- Biological Foundation- Meaning and definition of growth and development. Factors affecting 2.1. growth and development. Differences of growth and development. Principles of growth and development.
- 2.2. Age- Chronological age, anatomical age, physiological age and mental age.
- 2.3. Sociological Foundation- Meaning and definition of Sociology, Society, Socialization and Physical Education.
- 2.4. Role of games and sports in National and International harmony.

Unit- III: History of Physical Education

- 3.1 Historical development of Physical Education and Sports in India- Pre-Independence period and Post-Independence period.
- 3.2 Olympic Movement- Ancient and Modern Olympic Games.
- 3.3 Brief historical background of Asian Games, Commonwealth Games and SAF Games.
- 3.4 National Sports Awards- Arjuna Award, Rajiv Gandhi Khel Ratna Award, Dronacharya Award and Dhyanchand Award

Unit- IV: Yoga Education

- 4.1 Meaning and definition of the term Yoga, types, aim, objectives and importance of Yoga.
- 4.2 History of Yoga.
- 4.3 Astanga Yoga
- 4.4 Hatha Yoga

FIELD PRACTICAL

- 1. Learn and demonstrate the technique of Suryanamaskar.
- 2. Development of physical fitness through Callisthenics and Aerobic activities (Any one). REFERENCES
- 1. Graham, G. (2001) Teaching Children Physical Education: Becoming a Master Teacher. Human Kinetics, Champaign, Illinois, USA.
- 2. Kamlesh, M.L. & Singh, M.K. (2006) Physical Education (Naveen Publication).
- Lau, S.K. (1999) Great Indian Players, New Delhi, Sports. 3.
- 4. Lumpkin, A. (2007) Introduction to Physical Education, Exercise Science and Sports Studies, McGraw Hill, New York, USA.
- 5. Siedentop, D. (2004) Introduction to Physical Education, Fitness and Sport, McGraw Hill Companies Inc., New York, USA.
- Shaffer, D.R. (2002) Development Psychology: Childhood and Adolescence. Thomson, Sydney, Australia. 6.
- 7. Shukla, (2000) Mother on Education, National Council of Teacher Education, New Delhi. Singh, A. et al. (2000) Essential of Physical Education, Kalyani Publishers, Ludhiana, Punjab. 8.
- 9 Wuest, D.A. & C.A. Bucher (2006) Foundation of Physical Education, Exercise Science, and Sports. McGraw Hill Companies Inc.; New York, USA.

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CORE PAPER- 2: Management of Physical Education and Sports Course Code- CC1B Total number of classes - 60

Unit-I: Introduction

- 1.1. Concept and definition of Sports Management.
- 1.2. Importance of Sports Management.
- 1.3. Principles of Sports Management.
- 1.4. Sports Manager and his Duties.

Unit- II: Tournaments

- Tournaments: Meaning and definition and types of tournaments (Knock-out, League, 2.1. Combination, Challenge).
- 2.2. Procedure of drawing fixture.
- 2.3. Methods of organizing Annual Athletic Meet and Play Day.
- 2.4. Methods of organization of Intramural and Extramural competition.

Unit- III: Facilities and Equipments

- 3.1 Method of Standard Athletic Track marking.
- 3.2 Care and maintenance of play ground and gymnasium.
- 3.3 Importance, care and maintenance of sports equipments.
 - 3.4 Time Table: Meaning, importance and factors affecting school's Physical Education Time Table.

Unit- IV: Leadership

- 4.1. Meaning and definition of leadership.
- 4.2. Qualities of good leader in Physical Education.
- 4.3. Types of Leadership
- 4.4. Principles of leadership activities.

FIELD PRACTICAL

Lay out, knowledge and Officiating ability-

- 1. Track and Field events (any one).
- 2. Games: Football, Kabaddi, Kho-Kho and Volleyball (any one).

REFERENCES

- Broyles, F. J. & Rober, H. D. (1979). Administration of sports, Athletic programme: A Managerial Approach. New York: Prentice hall Inc.
- 1. 2. 3. Bucher, C. A. (1983). Administration of Physical Education and Athletic programme.St. Lolis: The C.V. Hosby Co.
- Kozman, H.C. Cassidly, R. & Jackson, C. (1960). Methods in Physical Education. London: W.B. Saunders Co.
- 4. 5. Pandy, L.K. (1977). Methods in Physical Education. Delhe: Metropolitan Book Depo.
- Sharma, V.M. & Tiwari, R.H.: (1979). Teaching Methods in Physical Education. Amaravati: Shakti Publication.
- 6. Thomas, J. P.(1967). Organization & administration of Physical Education. Madras: Gyanodayal Press.
- 7. Tirunarayanan, C. & Hariharan, S. (1969). Methods in Physical Education. Karaikudi: South India
- Press.
- 8. Voltmer, E. F. & Esslinger, A. A. (1979). The organization and administration of Physical Education. New York: Prentice Hall Inc.
- 9. Singh, A. et al. (2010) Essential of Physical Education. Kalyayani Publishers.

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CORE PAPER- 3: Anatomy, Physiology and Exercise Physiology Course Code- CC1C Total number of classes - 60

Unit- I: Introduction

- 1.1. Meaning and definition of Anatomy, Physiology and Exercise Physiology.
- 1.2. Importance of Anatomy, Physiology and Exercise Physiology in Physical Education.
- Human Cell- Structure and function. 1.3.
- 1.4. Tissue-Types and functions.

Unit- II: Musculo-skeletal System

2.1. Skeletal System- Structure of Skeletal System. Classification and location of bones and joints. Anatomical differences between male and female.

2.1. Muscular System- Types of Muscles. Location, Structure and function

of Skeletal muscle.

- 2.3. Types of muscular contraction.
- 2.4. Effect of exercise and training on muscular system.

Unit- III: Circulatory System

- 3.1 Blood- Composition and function.
- 3.2 Heart- Structure and functions. Mechanism of blood circulation through heart.
- 3.3 Blood Pressure, Athletic Heart and Bradycardia.
- 3.4 Effect of exercise and training on circulatory system.

Unit- IV: Respiratory System

- 4.1 Structure and function of Respiratory organs.
- 4.2 Mechanism of Respiration.
- 4.3 Vital Capacity, O₂ Debt and Second Wind.
- 4.4 Effect of exercise and training on respiratory system.

LAB PRACTICAL

- 1. Assessments of BMI and WHR (Waist-to-hip ratio).
- 2. Assessment of Heart rate, Blood Pressure, Respiratory Rate, and Pick Flow Rate (any two).

REFERENCES

- Amrit Kumar, R, Moses. (1995). Introduction to Exercise Physiology. Madras: Poompugar Pathipagam. 1.
- Clarke, D.H. (1975). Exercise Physiology. New Jersey: Prentice Hall Inc., Englewood Cliffs.
- 2. 3. 4.
- David, L Costill. (2004). Physiology of Sports and Exercise. Human Kinetics. Fox, E.L., and Mathews, D.K. (1981). The Physiological Basis of Physical Education and Athletics. Philadelphia: Sanders College
- Publishing. Guyton, A.C. (1976). Textbook of Medical Physiology. Philadelphia: W.B. Sanders co. Richard, W. Bowers. (1989). Sports Physiology. 5. WMC: Brown Publishers.
- Sandhya Tiwaji. (1999). Exercise Physiology. Sports Publishers.
- 6. 7. Shaver, L. (1981). Essentials of Exercise Physiology. New Delhi: Subject Publications.
- 8. Vincent, T. Murche. (2007). Elementary Physiology. Hyderabad: Sports Publication.

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^{9.} William, D. Mc Aradle. (1996). Exercise Physiology, Energy, Nutrition and Human Performance. Philadelphia: Lippincott Williams and Wilkins Company.

Track and Field Course code: SEC 1

1. Track Events

- 1.1. Starting Techniques: Standing start and Crouch start (its variations) use of Starting Block.
- 1.2. Acceleration with proper running techniques.
- 1.3. Finishing technique: Run Through, Forward Lunging and Shoulder Shrug.
- 1.4. Relay Race: Starting, Baton Holding/Carrying, Baton Exchange in between zone, and Finishing.

2. Field events (any two)

- 2.1. Long Jump: Approach Run, Take-off, Flight in the air (Hang Style/Hitch Kick) and Landing.
- 2.2. High jump: Approach Run, Take-off, Bar Clearance (Straddle) and Landing.
- 2.3. Shot put: Holding the Shot, Placement, Initial Stance, Glide, Delivery Stance and Recovery (Perry O'Brien Technique).
- 2.4. Discus Throw: Holding the Discus, Initial Stance, Primary Swing, Turn, Release and Recovery (Rotation in the circle).
- 2.5. Javelin Throw: Grip, Carry, Release and Recovery (3/5 Impulse stride).

CORE PAPER- 4: Health Education, Physical Fitness and Wellness Course Code- CC1D Total number of classes - 60

Unit- I: Introduction

- 1.1. Concept, definition and dimension of Health.
- 1.2. Definition, aim, objectives and principles of Health Education.
- 1.3. Activities of Health Agencies- World Health Organization (WHO), United Nations Educational Scientific and Cultural Organization (UNESCO) and United Nations International Children's Emergency Fund (UNICEF).
- 1.4. School Health Program- Health Service, Health Instruction, Health Supervision, Personal Hygiene and Health Record.

Unit- II: Health Problems in India- Prevention and Control

- 2.1. Communicable Diseases- Malaria, Dengue, Chicken Pox and Diarrhoea.
- 2.2. Non-communicable Diseases- Obesity, Diabetes and Asthma.
- 2.3. Nutrition- Nutritional requirements for daily living. Preparation of Balance Diet chart. Health disorders due to deficiency of Protein, Vitamins and Minerals.
- 2.4. Postural deformities- Causes and corrective exercise of Kyphosis, Lordosis, Scoliosis, Bow-Legs, Knock Knees and Flat Foot.

Unit- III: Physical Fitness and Wellness

- 3.1 Physical Fitness- Meaning, definition and Importance of Physical Fitness.
- 3.2 Components of Physical Fitness- Health and Performance related Physical Fitness.
- 3.3 Concept of Wellness. Relationship between Physical activities and Wellness.
- 3.4 Ageing- Physical activities and its importance.

Unit- IV: Health and First-aid Management

- 4.1 First aid- Meaning, definition, importance and golden rules of First-aid.
- 4.2 Concept of sports injuries- Sprain, Strain, Wound, Facture and Dislocation.
- 4.3 Management of sports injuries through the application of Hydro-therapy and Thermotherapy.
- 4.4 Management of sports injuries through the application of Exercise and Massage therapy.

LAB PRACTICAL

- 1. First-aid Practical- Triangular Bandage: Slings (Arm Sling, Collar & Cuff Sling), Roller Bandages: Simple Spiral, Reverse Spiral, Figure of Eight, Spica splint
- 2. Practical knowledge on application of Hydro-therapy and Thermo-therapy.

REFERENCES

- 1. Bucher, Charles A. "Administration of Health and Physical Education Programme".
- 2. 3. Delbert, Oberteuffer, et. al." The School Health Education". Ghosh, B.N. "Treaties of Hygiene and Public Health"
- Hanlon, John J. "Principles of Public Health Administration" 2003.
- Turner, C.E. "The School Health and Health Education". Moss et. al. "Health Education" (National Education Association of U.T.A.). Nemir A. The School Health Education" (Harber and Brothers, New York).
- 4. 5. 6. 7. 8.
- Nutrition Encyclopedia, edited by Delores C.S. James, The Gale Group, Inc.

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Gymnastics and Yoga

Course code: SEC 2

GYMNASTICS

1. Compulsory

- 1.1. Forward Roll
- 1.2. T-Balance
- 1.3. Forward Roll with Split leg
- 1.4. Backward Roll
- 1.5. Cart-Wheel

[Note: Perform the above Gymnastic skills continuously in the same sequence]

2. Optional (any two)

- 2.1. Dive and Forward Roll
- 2.2. Hand Spring
- 2.3. Head Spring
- 2.4. Neck Spring
- 2.5. Hand Stand and Forward Roll
- 2.6. Summersault

YOGA

3. Asanas

3.1. Standing Posture

- 3.1.1. Ardhachandrasana
- 3.1.2. Brikshasana
- 3.1.3. Padahastasana

3.2. Sitting Posture

- 3.2.1. Ardhakurmasana
- 3.2.2. Paschimottanasana
- 3.2.3. Gomukhasana

3.3. Supine Posture

- 3.3.1. Setubandhasana
- 3.3.2. Halasana
- 3.3.3. Matsyasana

[Note: One Asana is compulsory from each Posture]

4. Pranayama (any two)

- 4.1. Kapalbhati
- 4.2. Bhramri
- 4.3. Anulam Vilom.

3.4 Prone Posture

- 3.4.1 Bhujangasana
- 3.4.2 Salvasana
- 3.4.3 Dhanurasana

3.5 Inverted Posture

- 3.5.1 Sarbangasana
- 3.5.2 Shirsasana
- 3.5.3 Bhagrasana

Tests, Measurement and Evaluation in Physical Education **Course code: DSE 1A**

Total number of classes - 60

Unit-I: Introduction

- Concept of test, measurement & Evaluation. 1.1.
- 1.2. Criteria of good test.
- 1.3. Principles of Evaluation.
- 1.4. Importance of Test, Measurement and Evaluation in Physical Education and Sports.

Unit- II: Measurement of Body Compositions and Somatotype Assessment LH - 18

- 2.1. Body Mass Index (BMI)- Concept and method of measurement.
- 2.2. Body Fat- Concept and method of measurement.
- 2.3. Lean Body Mass (LBM)- Concept and method of measurement.
- 2.4. Somatotype- Concept and method of measurement.

Unit- III: Fitness Test

- 3.1 Kraus-Weber Muscular Strength Test
- 3.2 **AAHPER Health Related Fitness Test**
- 3.3 Queens College Step Test
- 3.4 J.C.R. Test

Unit- IV: Sports Skill Test

- Lockhart and McPherson Badminton Skill Test 4.1
- 4.2 Johnson Basketball Test Battery
- 4.3 McDonald Soccer Test
- 4.4 Brady Volleyball Test

LAB & FIELD PRACTICAL

- 1. Assessment of somatotype and % body fat (any one).
- 2. Assessment of AAHPER Youth Fitness Test and Queens College Step Test (any one).

REFERENCES

- Authors Guide (2013) ACSM's Health Related Physical Fitness Assessment Manual, USA: ACSM Publications. 1.
- Collins, R.D., & Hodges P.B. (2001) A Comprehensive Guide to Sports Skills Tests and Measurement (2nd edition) Lanham: Scarecrow Press. 2.
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Sports Training Course code: DSE 1A Total number of alaccos 10

	<u>10tal humber of classes – 00</u>	
Unit- I:	Introduction	LH - 12
1.1.	Meaning and definition of Sports Training.	
1.2.	Aim and characteristics of Sports Training.	
1.3.	Principles of Sports Training.	
1.4.	Importance of Sports Training.	
Unit- II:	Methods of Training and Conditioning in Sports	LH - 18
2.1.	Warming up and Cooling down- Meaning, types and methods.	
2.2.	Conditioning- Concept of Conditioning and its principles.	
2.3.	Training Methods- Circuit Training, Interval Training, Weight Training.	
2.4.	Periodisation- Meaning, types, aim and contents of different periods.	
Unit- III	: Training Load and Adaptation	LH - 18
3.1	Training Load- Meaning, definition, types and factors of training load.	
3.2	Components of training load.	
3.3	Over Load- Meaning, causes, symptoms and tackling of over load.	
3.4	Adaptation- Meaning and conditions of adaptation, Supercompensation	
Unit- IV	: Training Techniques	LH - 12
4.1	Strength- Means and methods of strength development.	
4.2	Speed- Means and methods of speed development.	
4.3	Endurance- Means and methods of endurance development.	
4.4	Flexibility- Means and methods of flexibility development.	
FIELD I	PRACTICAL	

- 1. Practical Experience of Weight Training and Circuit Training (any one).
- 2. Measurement of Speed, Strength (Grip/Leg), Explosive Strength (Leg) and Flexibility (any two).

REFERENCES

- 1.

- 2. 3. 4. 5. 6. 7. 8. 9.

- Bunn, J.N. (1998) Scientific Principles of Coaching, New Jersey Engle Wood Cliffs, Prentice Hall Inc. Cart, E. Klafs &Daniel, D. Arnheim (1999) Modern Principles of Athletic Training St. Louis C. V. Mosphy Company. Daniel, D. Arnheim (1991) Principles of Athletic Training, St. Luis, Mosby Year Book. David R. Mottram (1996) Drugs in Sport, School of Pharmacy, Liverpool: John Moore University. Gary, T. Moran (1997) Cross Training for Sports, Canada : Human Kinetics Hardayal. Singh (1991) Science of Sports Training, New Delhi, DVS Publications. Jensen, C.R. & Fisher A.G. (2000) Scientific Basic of Athletic Conditioning, Philadelphia. Ronald, P. Pfeiffer (1998) Concepts of Athletics Training 2nd Edition, London: Jones and Bartlett Publications. Yograj Thani (2003), Sports Training, Delhi : Sports Publications

Modern Trends and Practices in Physical Education Exercise Sciences (For the students other than Physical Education) **Course code: GE1** Total number of classes - 60

Unit-I: Introduction

- Meaning, definition and importance of physical Education and Sports. 1.1.
- 1.2. Aims, objectives and scope of Physical Education.
- 1.3. Types of sports and their utility in Health and Fitness.
- 1.4. Meaning, definition and importance of Physical fitness and Motor fitness. Difference between physical fitness and motor fitness. Components of Physical fitness.

Unit- II: Biological, Psychological and Sociological Foundations of Physical Education LH - 18

- Biological Foundation- Meaning and definition of growth and development. Factors affecting 2.1. growth and development. Differences of growth and development. Principles of growth and development.
- Meaning and definition of Psychology. Importance of Psychology in Physical Education. 2.2. Psychological factors effecting in Physical Activity and Sports.
- 2.3. Sociological Foundation- Meaning and definition of Sociology. Social values and their Importance. Socialization through Sports
- 2.4. Role of games and sports in National Integration and International Understanding.

Unit- III: History of Physical Education

- 3.1 Historical development of Physical Education and Sports in India- Pre-Independence period and Post-Independence period.
- 3.2 Ancient Olympic Games
- 3.3 Modern Olympic Games.
- 3.4 Asian Games and Commonwealth Games

Unit- IV: Exercise Sciences

- Meaning, definition and importance Exercise and Exercise Physiology. 4.1
- 4.2 Effects of short and long term exercise on Muscular systems.
- 4.3 Effects of short and long term exercise on Circulatory System.
- 4.4 Effects of short and long term exercise on Respiratory System.

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LH - 12

LH - 12

Indian Games and Racket Sports Course Code: SEC 3

KABADDI

A. Fundamental skills

- 1. Skills in Raiding: Touching with hands, Use of leg-toe touch, squat leg thrust, side kick, mule kick, arrow fly kick, crossing of baulk line. Crossing of Bonus line.
- 2. Skills of holding the raider: Various formations, catching from particular position, different catches, catching formation and techniques.
- 3. Additional skills in raiding: Escaping from various holds, techniques of escaping from chain formation, offense and defence.
- 4. Game practice with application of Rules and Regulations.

B. Rules and their interpretations and duties of the officials.

OR

KHO-KHO

A. Fundamental skills

- Skills in Chasing: Sit on the box (Parallel & Bullet toe method), Get up from the box (Proximal & Distyal foot method), Give Kho (Simple, Early, Late & Judgment), Pole Turn, Pole Dive, Tapping, Hammering, Rectification of foul.
- 2. Skills in running: Chain Play, Ring play and Chain & Ring mixed play.
- 3. Game practice with application of Rules and Regulations.

B. Rules and their interpretations and duties of the officials.

AND

BADMINTON

A. Fundamental skills

- 1. Basic Knowledge: Various parts of the Racket and Grip.
- 2. Service: Short service, Long service, Long-high service.
- 3. Shots: Over head shot, Defensive clear shot, Attacking clear shot, Drop shot, Net shot, Smash.
- 4. Game practice with application of Rules and Regulations.
- B. Rules and their interpretations and duties of the officials.

OR

TABLE TENNIS

A. Fundamental skills

- 1. Basic Knowledge: Various parts of the Racket and Grip (Shake Hand & Pen Hold Grip).
- 2. Stance: Alternate & Parallel.
- 3. Push and Service: Backhand & Forehand.
- 4. Chop: Backhand & Forehand.
- 5. Receive: Push and Chop with both Backhand & Forehand.
- 6. Game practice with application of Rules and Regulations.
- B. Rules and their interpretations and duties of the officials.

Psychology in Physical Education and Sports Course Code- DSE 1B

Total number of classes - 60

Unit-I: Introduction

LH - 12

LH - 18

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- 1.1. Meaning and definition Psychology.
- 1.2. Importance and scope of Psychology.
- 1.3. Meaning and definition of Sports Psychology.
- 1.4. Need for knowledge of Sports Psychology in the field of Physical Education.

Unit-II: Learning

- 2.1. Meaning and definition of learning.
- 2.2. Theories and Laws of learning.
- 2.3. Learning curve: Meaning and Types.
- 2.4. Transfer of learning- Meaning, definition and types. Factors affecting transfer of learning.

Unit- III: Psychological Factors

- Motivation- Meaning, definition, types and importance of Motivation in Physical 3.1 Education and Sports.
- Emotion- Meaning, definition, types and importance of Emotion in Physical Education 3.2 and Sports.
- 3.3 Personality- Meaning, definition and types. Personality traits.
- 3.4 Role of physical activities in the development of personality.

Unit- IV: Stress and Anxiety

- Stress- Meaning, definition and types of Stress. 4.1
- 4.2 Causes of Stress.
- 4.3 Anxiety- Meaning, definition and types of Anxiety.
- 4.4 Management of Stress and Anxiety through physical activity and sports.

LAB PRACTICAL

- 1. Assessment of Personality, Stress and Anxiety (any one)
- 2. Measurement of Reaction Time, Depth Perception and Mirror Drawing (any one).

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Whiting, K, Karman, Hendry L.B & Jones M.G. (1999) Personality and Performance in Physical Education and Sports. London: Hendry Kimpton Publishers.

Dissertation/ Project Course Code- DSE 1B

- 1.1 Subjects: Physical Fitness Components, Body composition and Somatotype, Educational Tour, Leadership Camp, Non-communicable diseases, Organization of Games & Sports.
- 1.2 Project Report Format:
 - Introduction
 - Procedure
 - Results
 - Conclusions
 - Recommendations
 - References

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SEMESTER-6

Health Education and Tests & Measurements in Physical Education

(For the students other than Physical Education) **Course Code: GE-2** Total number of classes - 60

Unit- I: Introduction

- 1.1. Concept, definition and dimension of Health.
- 1.2. Definition, aim, objectives and principles of Health Education.
- 1.3. Health Agencies- World Health Organization (WHO), United Nations Educational Scientific and Cultural Organization (UNESCO), United Nations International Children's Emergency Fund (UNICEF).
- Nutrition- Nutritional requirements for daily living. Preparation of Balance Diet chart. Health 1.4. disorders due to deficiency of Protein, Vitamins and Minerals.

Unit- II: Health and First-aid Managements

- 2.1. First aid- Meaning, definition, importance and golden rules of First-aid.
- 2.2. Concept of sports injuries- Sprain, Strain, Wound, Facture and Dislocation.
- 2.3. Postural deformities- Causes and corrective exercise of Kyphosis, Lordosis, Scoliosis, Bowlegs, Knock Knees and Flat Foot.
- 2.4. Hypo-kinetic Diseases and Physical Activities- Obesity, Diabetes and Asthma.

Unit- III: Mesasurement of Body Compositions and Somatotype Assessmen LH - 12 3.1 Body Mass

Index (BMI)- Concept and method of measurement.

- 3.2 Body Fat- Concept and method of measurement.
- 3.3 Lean Body Mass (LBM)- Concept and method of measurement.
- 3.4 Somatotype- Concept and method of Assessment

Unit- IV: Fitness Test

- 4.1 Kraus-Weber Muscular Strength Test
- 4.2 AAHPER Health related Fitness Test
- 4.3 Queens College Step Test
- 4.4 J.C.R. Test

REFERENCES

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LH - 18

LH - 18

BALL GAMES (Any two) Course code: SEC4

FOOTBALL

A. Fundamental Skills

- 1. Kicking: Kicking the ball with inside of the foot, Kicking the ball with Full Instep of the foot, Kicking the ball with Inner Instep of the foot, Kicking the ball with Outer Instep of the foot and Lofted Kick.
- 2. Trapping: Trapping- the Rolling ball, and the Bouncing ball with sole of the foot.
- 3. Dribbling: Dribbling the ball with Instep of the foot, Dribbling the ball with Inner and Outer Instep of the foot.
- 4. Heading: In standing, running and jumping condition.
- 5. Throw-in: Standing throw-in and Running throw-in.
- 6. Feinting: With the lower limb and upper part of the body.
- 7. Tackling: Simple Tackling, Slide Tackling.
- 8. Goal Keeping: Collection of Ball, Ball clearance- kicking, throwing and deflecting.
- 9. Game practice with application of Rules and Regulations.
- B. Rules and their interpretation and duties of officials.

HANDBALL

A. Fundamental Skills

- 1. Catching, Throwing and Ball control,
- 2. Goal Throws: Jump shot, Center shot, Dive shot, Reverse shot.
- 3. Dribbling: High and low.
- 4. Attack and counter attack, simple counter attack, counter attack from two wings and center.
- 5. Blocking, GoalKeeping and Defensive skills.
- 6. Game practice with application of Rules and Regulations.
- **B.** Rules and their interpretation and duties of officials.

BASKETBALL

A. Fundamental Skills

- 1. Passing: Two hand Chest Pass, Two hands Bounce Pass, One hand Baseball Pass, Side arm Pass, Overhead Pass, Hook Pass.
- 2. Receiving: Two hand receiving, One hand receiving, Receiving in stationary position, Receiving while Jumping and Receiving while Running.
- 3. Dribbling: How to start dribble, drop dribble, High Dribble, Low Dribble, Reverse Dribble, Rolling Dribble.
- 4. Shooting: Lay-up shot and its variations, One hand set shot, Two hands jump shot, Hook shot, Free Throw.
- 5. Rebounding: Defensive rebound and Offensive rebound.
- 6. Individual Defence: Guarding the player with the ball and without the ball, Pivoting.
- 7. Game practice with application of Rules and Regulations.
- B. Rules and their interpretation and duties of officials.

VOLLEYBALL

A. Fundamental skills

- 1. Service: Under arm service, Side arm service, Tennis service, Floating service.
- 2. Pass: Under arm pass, Over head pass.
- 3. Spiking and Blocking.
- 4. Game practice with application of Rules and Regulations.
- **B.** Rules and their interpretation and duties of officials.

NETBALL

A. Fundamental skills

- 1. Catching: one handed, two handed, with feet grounded and in flight.
- 2. Throwing (Different passes and their uses): One hand passes (shoulder, high shoulder, underarm, bounce, lob), two hand passes (Push, overhead and bounce).
- 3. Footwork: Landing on one foot, landing on two feet, Pivot, Running pass.
- 4. Shooting: One hand, forward step shot, and backward step shot.
- 5. Techniques of free dodge and sprint, sudden sprint, sprint and stop, sprinting with change at speed.
- 6. Defending: Marking the player, marking the ball, blocking, inside the circle, outside the circle. Defending the circle edge against the passing.
- 7. Intercepting: Pass and shot.
- 8. Game practice with application of Rules and Regulations.
- **B.** Rules and their interpretation and duties of officials.

THROWBALL

Fundamental skills:

Overhand service, Side arm service, two hand catching, one hand overhead return, side arm return.

Rules and their interpretations and duties of officials.