# B.P.ED SYLLABUS

Belongs to Dr. Paparo Mondal.

# CURRICULUM FRAMEWORK: TWO-YEAR B. P. ED. PROGRAMME

Revised Curriculum as per the NCTE New Regulations 2014 for two Year B.P.Ed. Programme as adopted in the Workshop Organised by the Deptt. of Physical Education, Jadavpur University held on 15<sup>th</sup> to 17<sup>th</sup> June, 2016 in collaboration with the West Bengal Committee of the Institutes of Physical Education (WBCIPE), West Bengal University of Teachers' Training, Education Planning and Administration (WBUTTEPA) and the Department of Higher education Govt. of West Bengal.

# GUIDELINES OF REGULATIONS AND MODEL SYLLABUS STRUCTURE FOR B. P. ED. TWO YEARS PROGRAMME (FOUR SEMESTERS) (CBCS)

(If the University or affiliating body is following choice based credit system, (CBCS) as approved and Circulated by the UGC, the credit hours given in the following curriculum framework need to be considered along with the hours of teaching mentioned for each paper/activity/course)

(If the University or affiliating body is yet to adopt CBCS, only the hours of teaching mentioned for each paper/activity/course will be considered, the credit in teaching hours may be ignored)

Preamble: Bachelor of Physical Education (B. P. Ed.) two years (Four Semesters Choice Based Credit System) programme is a professional programme meant for preparing teachers of physical education in classes VI to X and for conducting physical education and sports activities in classes XI and XII.

B. P. Ed. programme shall be designed to integrate the study of childhood, social context of Physical Education, subject knowledge, pedagogical knowledge, aim of Physical Education and communication skills. The programme comprises of compulsory and optional theory as well as practical courses and compulsory school internship.

# R. B. P. Ed. 1. Eligibility

Intake, Eligibility and Admission Procedure as per the NCTE norms and standards

# R. B.P.Ed. 2. Duration:

The B. P. Ed programme shall be of a duration of two academic years, that is, four semesters. However, the students shall be permitted to complete the programme requirements within a maximum of three years from the date of admission to the programme. R. B.P.Ed. 3. The CBCS System:

All Programmes shall run on Choice Based Credit System (CBCS). It is an instructional package developed to suit the needs of students, to keep pace with the developments in higher education and the quality assurance expected of it in the light of

### R. B.P.Ed 4. Course:

The term course usually referred to, as 'papers' is a component of a programme. All courses need not carry the same weight. The courses should define learning objectives and learning outcomes. A course may be designed to comprise Lectures/ tutorials/laboratory work/ field work/ outreach activities/ project work/ vocational training/viva/ seminars/ term papers/assignments/ presentations/ self-study etc. or a combination of some of these.

# R. B.P.Ed. 5. Courses of Programme:

The B.P.Ed. Programme consists of a number of courses, the term 'Course' applied to indicate a logical part of subject matter of the programme and is invariably equivalent to the subject matter of a "paper" in the conventional sense. The following are the various categories of courses suggested for the B.P.Ed. Programme.

# Theory:

**Core Course:** 

**Elective Course:** 

Practicum:

**Teaching** 

**Practices:** 

#### R. B.P.Ed.6. Semesters:

An academic year is divided into two semesters. Each semester will consist of 17-20 weeks of academic work equivalent to 100 actual teaching days. The odd semester may be scheduled from May/June to November/ December and even semester from November / December to May/June. The institution shall work for a minimum of 36 working hours in a week (five or six days a week).

# R. B.P.Ed.7. Working days:

There shall be at least 200 working days per year exclusive of admission and examination processes etc.

# R. B.P.Ed 8. Credits:

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The term 'Credit' refers to a unit by which the programme is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or one and half / two hours of practical work/field work per week. The term 'Credit' refers to the weight given to a course, usually in relation to the instructional hours assigned to it. The total minimum credits, required for completing a B.P.Ed. Programme is 90 credits and for each semester 20 credits

# Provision of Bonus Credits Maximum 06 Credits in each Semester

Sr. No.	Special Credits for Extra Co-curricular Activities	Credit
1	Sports Achievement at Stale level Competition (Medal Winner)	1
	Sports Achievement National level Competition (Medal Winner)	2
	Sports participation International level Competition	4
2	Inter Uni. Participation (Any one game)	2
3	Inter College Participation (min. two game)	1
4	National Cadet Corps / National Service Scheme	2
5	Blood donation / Cleanliness drive / Community services /	2
6	Mountaineering - Basic Camp, Advance Camp / Adventure Activities	2
7	Organization / Officiating – State / National level in any two game	2
8	News Reposting / Article Writing / book writing / progress report writing	1
9	Educational Excursion	4
10	Annual Camp	4
11	Outreach Activities	4
12	Research Project	4

Students can earn maximum 06 Bonus credits in each semester by his/her participation in the above mentioned activities duly certified by the Head of the institution / Department. This Bonus credit will be used only to compensate loss of credits in academic activities.

# **B.P.Ed. 9. Examinations:**

- I. There would be automatic progression/promotion at the end of BPED (or equivalent) First Semester/Second Semester/Third Semester irrespective of marks obtained in the previous semester examinations subject to the eligibility conditions.
- II. There shall be examinations at the end of each semester, for first semester in the month of November /December: for second semester in the month of May / June. A candidate who does not pass the examination in any course(s) shall be permitted to appear in such failed course(s) in the subsequent examinations to be held in November /December or May / June.
- III. A candidate should get enrolled /registered for the first semester examination. If enrollment/registration is not possible owing to shortage of attendance beyond condonation limit / rules prescribed OR belated joining OR on medical grounds, such candidates are not permitted to proceed to the next semester. Such candidates shall redo the semester in the subsequent term of that semester as a regular student; however, a student of first semester shall be admitted in the second semester, if he/she has successfully kept the term in first semester.

IV. A Supplementary Examination for courses/papers in BPED 3<sup>rd</sup> & 4<sup>th</sup> semesters shall be held one month after publication of the Final semester result in each year. Only those students who have passed in all papers in the first, second semesters but have failed in any course(s)/paper(s) in the third and fourth semesters shall be entitled to take the Supplementary Examination. This shall count as an additional chance for such students over and above that prescribed in Regulation 10.

# R. B.P.Ed 10 Condonation:

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Students must have 75% of attendance in each course for appearing the examination. Students who have 74% to 65% of attendance shall apply for condonation in the prescribed form with the prescribed fee. Students who have 64% to 50% of attendance shall apply for Condonation in prescribed form with the prescribed fee along with the Medical Certificate. Students who have below 50% of attendance are not eligible to appear for the examination.

# R. B.P.Ed 11. Pattern of Question Papers:

Question Papers shall have five questions corresponding to four units of each theory course.

B.P.Ed.: Format of Question Paper for 4 Units.

Each question paper shall have five questions. The pattern will be as follows:

Question No.	Description	Marks
1	Answer in detail (Long Question)	
	Or Answer in detail (Long Question) (Form Unit 1)	15
2	Answer in detail (Long Question)	
	Or	15
	Answer in detail (Long Question)	13
	(Form Unit 2)	
3	Answer in detail (Long Question)	
	Or	15
	Answer in detail (Long Question)	13
	(Form Unit 3)	
4	Write short notes: any two out of four	15
	(Form Unit 4)	13
5	M.C.Q. Type Questions (10 out of 12 Que.)	1.0
	(3 Questions, from each unit)	10
	Total	70

# R. B.P.Ed. 12. Evaluation:

The performance of a student in each course is evaluated in terms of percentage of marks with a provision for conversion to grade point. Evaluation for each course shall be done by a continuous internal assessment (CIA) by the concerned course teacher as well as by end semester examination and will be consolidated at the end of course. The components for continuous internal assessment are;

One Test	15 Marks
Seminar / Quiz	5 Marks
Assignments	5 Marks
Attendance	5 Marks
Total	30 Marks

Attendance shall be taken as a component of continuous assessment, although the students should have minimum 75% attendance in each course. In addition to continuous evaluation component, the end semester examination, which will be written type examination of at least 3 hours duration, would also form an integral component of the evaluation. The ratio of marks to be allotted to continuous internal assessment and to end semester examination is 30:70. The evaluation of practical work, wherever applicable, will also be based on continuous internal assessment and on an end-semester practical examination.

# R. B.P.Ed. 13. Minimum Passing Standard:

The minimum passing standard for CIA (Continuous Internal Assessment) and External Examinations shall be 40%, i.e. 12 marks out of 30 marks and 28 marks out of 70 marks respectively for theory courses. The minimum passing for both CIA & external examination shall be 50%, i.e. 15 marks out of 30 and 35 marks out of 70 marks for the practical courses. Students who having failed to pass in CIA (Continuous Internal Assessment) or External Examinations or both in any semester, has to appear in the subsequent next year Examination.

# R. B.P.Ed 14. Grading:

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Once the marks of the CIA (Continues Internal Assessment) and SEA (Semester end Assessment) for each of the courses are available, both (CIA and SEA) will be added. The marks thus obtained for each of the courses will then be graded as per details provided in R. B.P.Ed. 17 from the first semester onwards the average performance within any semester from the first semester is indicated by Semester Grade Point Average (SGPA) while continuous performance (including the performance of the previous semesters also) starting from the first semester is indicated by Cumulative Grade Point Average (CGPA). These two are calculated by the following formula:

$$1111 = \frac{\sum_{i=1}^{t} 1_{i} 1_{i}}{\sum_{i=1}^{t} 1_{i}}$$

$$1111 = \frac{\sum_{11111111}^{1} 1111_{1}}{1}$$

Where Ci is the Credit earned for the course is in any semester; Gi is the Grade point obtained by the student for the course i and n number of courses obtained in that semester;  $1111_1$  is SGPA of semester j and N number of semester. Thus CGPA is average of SGPA of all the semesters starting from the first semester to the current semester.

# R. B.P.Ed. 15. Classification of Final Results:

For the purpose of declaring a candidate to have qualified for the Degree of Bachelor of Physical Education in the First class / Second class / Pass class or First class with Distinction, the

Marks and the corresponding CGPA earned by the candidate in Core Courses will be the criterion. It is further provided that the candidate should have scored the First / Second Class separately in both the grand total and end Semester (External) examinations.

Percentage	Classification of final result	
70 & above	First Class with Distinction	
60-69.99	First Class	
50-59.99	Second Class	
40-49.99	Pass Class	_
Below 40	Fail	

# R. B.P.Ed.16. Award of the B.P.Ed. Degree:

A candidate shall be eligible for the award of the degree of the B.P.Ed. only if he/she has earned the minimum required credit including Bonus Credits of the programme prescribed above.

### R. B.P.Ed.17. Letter Grades and Grade Points:

- Two methods-relative grading or absolute grading- have been in vogue for awarding grades in a course. The relative grading is based on the distribution (usually normal distribution) of marks obtained by all the students in the course and the grades are awarded based on a cut-off mark or percentile. Under the absolute grading, the marks are converted to grades based on pre-determined class intervals. To implement the following grading system, the colleges and universities can use any one of the above methods.
- The grades for each course would be decided on the basis of the percentage marks obtained at the end-semester external and internal examinations as per following table:

Percentage	Grade Point	Grade	Description
85 & above	10.0	О	Outstanding
70-84.99	8.49	A+	Excellent
60-69.99	6.99	A	Very Good
55-59.99	5.99	B+	Good
50-54.99	5.49	В	Above Average
40-49.99	4.99	С	Average
Below 40	0.0	F	Fail/ Dropped
	0	AB	Absent

For Practical Papers, there will be no grade as 'C' & Pass Marks is 50%

#### R. B.P.Ed.18. Grade Point Calculation

Calculation of Semester Grade Point Average (SGPA) and Credit Grade

Point (CGP) and declaration of class for B. P. Ed. Programme.

The credit grade points are to be calculated on the following basis:

$$1111 = \frac{\sum_{i=1}^{t} 1_{i} 1_{i}}{\sum_{i=1}^{t} 1_{i}}$$

Example - I

Marks obtained by Student in course CC101 = 5/100

Percentage of marks = 65 %

Grade from the conversion table is = A

Grade Point = 6.0 + 5 (0.99/9.99)

$$= 6.0 + 5x0.$$

$$= 6.0 + 0.5$$

J

 $= 6.0 + 5 \times 0.1$ 

=6.5

The Course Credits = 04

Credits Grade Point (CGP) =  $6.5 \times 04 = 26$ 

The semester grade point average (SGPA) will be calculated as a weighted average of all the grade point of the semester courses. That is Semester grade point average (SGPA) = (sum of grade points of all eight courses of the semester) / total credit of the semester as per example given below:

# **SEMESTER-1**

Courses No.	Credit	Marks out o f 100 (%)	Grade	Grade Point	Credit Grade point
CC-101	4	65	Α	6.5	26
CC-102	4	60	А	6	24
CC-103	4	62	Α	6.2	24.8
EC-101/EC-102	4	57	B+	5.7	22.8
PC-101	4	55	B+	5.5	22
PC-102	4	72	A+	7.2	28.8
PC-103	4	66	A	6.6	26.4
PC - 104	4	72	A+	7.2	28.8
	32				203.6

# **Examples: Conversion of marks into grade points**

CC-101 
$$65 = 60 + 5 = 6.0 + 5 \times (0.99 / 9.99) = 6.0 + 5 \times 0.1 = 6.0 + 0.5 = 6.5$$
  
CC-102  $60 = 6.0$ 

CC-103 
$$62 = 60 + 2 = 6.0 + 2 \times (0.99/9.99) = 6.0 + 2 \times 0.1 = 6.0 + 0.2 = 6.2$$
  
EC-101/EC-102  $57 = 55 + 2 = 5.5 + 2 \times (0.49 / 4.99) = 5.5 + 2 \times 0.1 = 5.5 + 0.2 = 5.7$   
PC-101  $55 = 5.5$ 

**PC-102** 
$$72 = 70 + 2 = 7.0 + 2 \times (1.49 - 14.99) = 7.0 + 2 \times 0.1 = 7.0 + 0.2 = 7.2$$
  
**PC-103**  $66 = 60 + 6 = 6.0 + 6 \times (0.99 + 9.99) = 6.0 + 6 \times 0.1 = 6.0 + 0.6 = 6.6$   
**PC-104**  $72 = 70 + 2 = 7.0 + 2 \times (1.49 + 14.99) = 7.0 + 2 \times 0.1 = 7.0 + 0.2 = 7.5$ 

SEMESTER GRADE POINT AVERAGE (SGPA) = Total Credit Grade Points

= 203.6 / 32 = 6.3625

SGPA Sem. 1 = 6.3625

At the end of Semester-1

Total SGPA = 6.3625

Cumulative Grade Point Average (CGPA) = 6.3625/1 = 6.362

CGPA = 6.66875, Grade = A, Class = First Class

#### **SEMESTER-2**

Courses No.	Credit	Marks out o f 100 (%)	Grade	Grade Point	Credit Grade point
CC-201	4	76	A+	7.6	30.4
CC-202	4	64	А	6.4	25.6
CC-203	4	59	B+	5.9	23.6
EC-201/EC-202	4	80	A+	8	32
PC-201	4	49	С	4.9	19.6
PC-202	4	64	А	6.4	25.6
PC-203	4	55	B+	5.5	22
TP - 201	4	72	A+	7.2	28.8
	32				207.6

SGPA Sem. II = 6.4875

At the end of Semester-2

Total SGPA for two Semesters = 12.85

Cumulative Grade Point Average (CGPA) = 12.85/2 = 6.425

CGPA = 6.66875, Grade = A, Class = First Class

### **SEMESTER-3**

Courses No.	Credit	Marks out o f 100 (%)	Grade	Grade Point	Credit Grade point
CC-301	4	64	А	6.4	25.6
CC-302	4	64	Α	6.4	25.6
CC-303	4	59	B+	5.9	23.6
EC-301/EC-302	4	81	Α+	8.1	32.4
PC-301	4	49	С	4.9	19.6
PC-302	4	64	А	6.4	25.6
PC-303	4	68	А	6.8	27.2
TP - 301	4	75	A+	7.5	30
	32				209.6

SGPA Sem. III = 6.55

At the end of Semester-3

Total SGPA for three Semesters = 19.4

Cumulative Grade Point Average (CGPA) = 19.4/3 = 6.466667

CGPA = 6.66875, Grade = A, Class = First Class

# **SEMESTER-4**

Courses No.	Credit	Marks out o f 100 (%)	Grade	Grade Point	Credit Grade point
CC-401	4	83	A+	8.3	33.2
CC-402	4	76	A+	7.6	30.4
CC-403	4	59	B+	5.9	23.6
EC-401/EC-402	4	81	A+	8.1	32.4
PC-401	4	49	С	4.9	19.6
PC-402	4	78	A+	7.8	31.2
TP-401	4	81	A+	8.1	32.4
TP-402	4	75	A+	7.5	30
	32				232.8

SGPA Sem. IV = 7.275

At the end of Semester-4

Total SGPA for all the four semesters = 26.675

Cumulative Grade Point Average (CGPA) = 26.675 / 4 = 6.66875

CGPA = 6.66875, Grade = A, Class = First Class

#### Note:

- (1) SGPA is calculated only if the candidate passes in all the courses i.e. get minimum C grade in all the courses.
- (2) CGPA is calculated only when the candidate passes in all the courses of all the previous and current semesters.
- (3) The cumulative grade point average will be calculated as the average of the SGPA of all the semesters continuously, as shown above.
- (4) For the award of the class, CGPA shall be calculated on the basis of:
  - (a) Marks of each Semester End Assesment And
- (b) Marks of each Semester Continuous Internal Assessment for each course. The final Class for B.P.Ed. Degree shall be awarded on the basis of last CGPA (grade) from all the one to four semester examinations.

# R. B.P.Ed.19. Grievance Redressal Committee:

The college/department shall form a Grievance Redressal Committee for each course in each college/department with the course teacher / Principal / Director and the HOD of the faculty as the members. This Committee shall solve all grievances of the students.

# R. B.P.Ed.20. Revision of Syllabi:

- 1. Syllabi of every course should be revised according to the NCTE.
- 2. Revised Syllabi of each semester should be implemented in a sequential way.
- 3. In courses, where units / topics related to governmental provisions, regulations or laws, that change to accommodate the latest developments, changes or corrections are to be made consequentially as recommended by the Academic Council

- 4. All formalities for revisions in the syllabi should be completed before the end of the semester for implementation of the revised syllabi in the next academic year.
- 5. During every revision, up to twenty percent of the syllabi of each course should be changed so as to ensure the appearance of the students who have studied the old (unrevised) syllabi without any difficulties in the examinations of revised syllabi.
- 6. In case, the syllabus of any course is carried forward without any revision, it shall also be counted as revised in the revised syllabi.

Semester - I

	Part A: Theore	tical Cour	rse	<u>,</u>	<del>,</del>	
Course Code	Title of the Papers	Total Hours	Credit	Internal Marks	External Marks	Total Marks
<del>_</del>	Core Co	ourse			<u> </u>	
CC-101	History, Principle and Foundation of Mysical Education Olympic Movement	4 AKB +AG	4	`_30	129	100
CC-102	Anatomy and Physiology	Uneet.	4	,30	120	100
CC-103	Health Education and Environmental Studies	AP4~	4	<b>-3</b> 0	70	100
	Elective Cour	se (Anyon	e)			
EC-101	Physical Literacy through  Movement Education  Officiating and Coaching	4	4	<b>.3</b> 0	120	100
	Part-B Pract	tical Cour	se	<u> </u>		1
PC-101	Track and Field: All Running Events - 60 Running Broad Jump & Triple Jump- 40	AGO	4	30	Lot	100
PC-102	Swimming or Gymnastics	ALLO V	4	30	40	100
PC-103	March Past - 20  Mass Demonstration Activities:  Dumbbells/ Wands/ Hoop/ Umbrella/ Tipri/Bratachari/ Malkhamb/ Lezium/Callisthenics (Any two)- 10+10=20 Indigenous Sports; Kabaddi and Kho-kho 30+30=60	?	4	30	70	100
PC-104	Yoga- 40) Weight training- 30 ) Aerobics- 30 )	? 6	4	30	70	100
	Total	40	32	240	560	800

Semester - II

	Part A: Theoret	ical Cou	rse			
Course Code	Title of the Papers	Total Hours	Credit	Internal Marks	External Marks	Total Marks
	Core Co	urse				
CC-201	Yoga Education 🗙	4	4	30	70	100
CC-202	Educational Technology and Methods of Teaching in Physical Education	4	4	30	70	100
CC-203	Organization and Administration	4	4	<b>√</b> 30	<b>▶</b> 70	100
	Elective Cour	se (Any o	ne)	.1		
EC-201	Contemporary issues in physical education, fitness and wellness  Sports Nutrition and Weight Management	4	4	30	70) Se 1)	100
· ·	Part-B Prac	tical Cou	rse			
PC-201	Track and Field (Jumping Events & Throwing events)	6	4	30	70	100
PC-202	Gymnastics/ Swimming	6	4	30	70	100
PC-203	Team Games: Football, Netball, Volleyball, Handball (any three) (3x25=75) Racket Sports: Badminton/ Table Tennis/ Squash/ Tennis (any one) (1x25=25)	6	4	30	70	100
	Part – C Tea	ching Pra	actices			
TP-201	Teaching Practices (04lessons in class room teaching and 04 lessons in outdoor activities)	6	4	30	70	100
	Total	40	32	240	) 560	0 800

# Semester - III

	Semester	***				
	Part A: Theore	etical Cour	se			
Course Code	Title of the Papers	Total Hours	Credit	Internal Marks	External Marks	Total Marks
	Core C	ourse	<u>_</u>		<u> </u>	
CC 301	AH Sports Training	/ 4 AG	4	30	1-70	100
EC-302	Gomputer Applications in Physical Education and Sports Science	V pM	4	30	70	100
	Sports Psychology and Sociology in Rhysical Education and Sports	MB4?	4	) BO	70	100
	Elective Cou		ne)			
FC-301	Sports Medicine, Physiotherapy and Rehabilitation	Puneet	4	30-	70	100
EC-302	Curriculum Design			1		
	Part-B Pra	ctical Cou	rse			
PC-301	Combative Sports:  Karate/ Judo/ Fencing/ Boxing/ Tackwondo/ Wrestling/Lathi (Any two out of these) (50+50)	6	4	30	170	100
TP-302	Teaching Practice:	· 6	4	130	70	100
TP-303	Sports Specialization-I: Coaching lesson plan	- 6	4	30	20	100
TP-304	Teaching Practice: Yoga/Weight Training or Aerobics	6	4	مهتر	C70-	100
	Total	-40	32	240	560	800

#### Semester - IV

	Part A: Theoretic	al Cours	e		<u> </u>	
Course Code	Title of the Papers	Total Hours	Credit	Internal Marks	External Marks	Total Marks
	Core Cour	se				
CC- 401	Measurement and Evaluation in Physical Education	4	4	30	70	100
CC- 402	Kinesiology and Biomechanics	4	4	30	70	100
CC- 403	Research and Statistics in Physical 4 4 30 70 Education		70	100		
	Elective Course (	Anyone)		·		
EC- 401 EC-	Theory of sports and game X Sports Management	4	4	30	70	100
402	Part-B Practical	Course				
PC- 401	Games Specialization-II: Evaluation of Performance Ability (To select one activity except Track & Field /Gymnastics/Swimming)	6	4	30	70	100
PC- 402	Adventure activity/Outdoor activity: Camping/Trekking/Hiking/Rock- climbing/Artificial Climbing etc. (50 marks) Lab-based Practical on Physical and Physiological/Psychological/Biomechanical measures (Total Internal and Final curriculum will be framed by concerned University/Department (50 marks)	6	4	50+50		100
PC- 403	Team Games: Cricket, Basketball, Hockey, Softball, Baseball, Throwball (Any four) 25 marks for each activity	6	4	30	70	100
PC- 404	AAHPERD Youth Fitness Test (50 marks) Sports Specific Fitness Test (50 marks)	6	4	30	70	100
	Total	40	32	240	560	800
	Grand Total (SEM I+II+III+IV)	160	128	960	2240	3200

# Semester-I

# **Theory Courses**

# CC-101 IIISTORY, PRINCIPLES AND FOUNDATION OF PHYSICAL EDUCATION & OLYMPIC MOVEMENT

# UNIT-1:Introduction to the Concept of Physical Education

- 1.1 Meaning, Definition, Misconceptions and Scope of Physical Education.
- 1.2 Aims and Objective of Physical Education.
- 1.3 Relationship of Physical Education with General Education, Need for Physical Education in Modern society.
- 1.4 Physical Education as an Art and Science.

# UNIT-2: History of Development of Physical Education

- 2.1 History of the development of Physical Education during pre-independence period.
- 2.2 Post-Independence Period Physical Education in India with reference to development of Physical education in West Bengal.
- 2.3 Contribution of Akhras, Vyayamshalas & YMCA.
- 2.4 Contribution of Eminent Physical Educationists: J.B. Basedow, J.F. Gustmuth, F.L.Jahn, Franz Natchtegall, Niles Bukh, P.H.Ling. H.C.Buck, James Buchanan, P.M. Joshep, Rabindranath Tagore, Swami Vivekananda, Rishi Aurobindo.

# UNIT-3: Foundation & Principles of Physical Education

3.1 Philosophical foundation:

Idealism, Realism, Pragmatism and Naturalism in Physical Education.

3.2 Biological Principles:

Change of locomotion from Biped to Quadruped position – Advantages and Disadvantages. - Age & Gender Characteristics, Body type, Fitness and wellness movement in the contemporary perspectives.

3.3 Psychological principles:

Psychological factors affecting sports performance, Growth and Development – meaning, difference and principles.

3.4 Sociological principles:

Socialization through Physical Education, social integration and cohesiveness, National & International integration through sports.

# **UNIT-4: Olympic Movement**

- 4.1 The history of ancient Olympic movement.
- 4.2 The significant stages in the development of the modern Olympic movement, Philosophy of Olympic movement
- 4.3 Significance of Olympic Ideals, Olympic Rings, Olympic Flag, Olympic Oath.
- 4.4 International Olympic Committee Structure and Functions, National Olympic committees and their role in Olympic movement, Types of Olympic Games.

- 1. **Bucher, C. A. (n.d.)** Foundation of physical education. St. Louis: The C.V. Mosby Co. Deshpande, S. H. (2014). Physical Education in Ancient India. Amravati: Degree college of Physical education.
- 2. Mohan, V. M. (1969). Principles of physical education. Delhi: Metropolitan Book Dep. Nixon, E. E. & Cozen, F.W. (1969). An introduction to physical education. Philadelphia: W.B. Saunders Co.
- Obertuffer, (1970). Delbert physical education. New York: Harper & Brothers Publisher. Sharman, J. R. (1964). Introduction to physical education. New York: A.S. Barnes & Co.
- 4. William, J. F. (1964). The principles of physical education. Philadelphia. W.B. Saunders Co.

# CC-102

# Anatomy and Physiology

# UNIT-1: Introduction of the Human Body

- 1.1 Organization of the human body and Brief introduction of Anatomy Physiology in the field of Physical Education and Sports
- 1.2 Cell-structure and functions of cells
- 1.3 Tissue- Types of tissue and their functions
- 4.4 Skeletal System- Bones of the human body-axial and appendicular skeleton. Classification and functions of bone Anatomical sex difference. Brief description of Joints.

# UNIT-2: System I

- 2.1 Muscular system- Types of muscle and functions-Structure of skeletal muscle, Major muscles of shoulder, hip and knee joint
- 2.2 Digestive system: The alimentary cannel /G.I.tract, Accessory glands and digestive juices - Brief outline of process of carbohydrate, fat and protein digestion
- 2.3 Energy metabolism: Brief discussion on energy metabolism, Fuel for muscular work
- 2.4 Circulatory System: Function of circulatory system. Composition and function of blood, Heart- location and structure, pulmonary circulation, Systemic circulation. Cardiac cycle, Blood pressure, Blood group, Blood coagulation. Blood and immunity.

# UNIT-3: System II

- 3.1 Respiratory system: Organs of respiration, meaning internal and external respiration. mechanism of respiration,
- 3.2 Excretory system: Structure and function of kidney, urine formation
- 3.3 Endocrine system: Location, secretion and functions of different endocrine glands
- 3.4 Nervous system: organization, central nervous system- Brain, spinal cord, autonomic nervous system. Concept of nerve- muscle physiology: Neuromuscular junction and transmission.

# **UNIT-4: Effect of Exercise on Different System**

- 4.1 Exercise-Concept and type
- J 4.2 Types of muscular contraction. Effect of exercise on muscular system
- 4.2 Types of muscular contraction. Effect of exercise on circulatory system- Heart rate, stroke volume, cardiac output,
- 4.4 Effect of exercise on respiratory system- Tidal volume, respiratory rate, pulmonary ventilation, oxygen uptake, oxygen debt or EPOC (Excess Post exercise oxygen

#### References:

- Gupta, A. P. (2010). Anatomy and physiology. Agra: Sumit Prakashan.
- Gupta, A. P. (2010). Anatomy and physiology, right.

  Gupta, M. and Gupta, M. C. (1980). Body and anatomical science. Delhi: Swaran Printing Press.
- Guyton, A.C. (1996). Textbook of Medical Physiology, 9th edition. Philadelphia: W.B. 3. Guyton, A.C. (1990). Textbook of interiors 1. Specifical Publication W.B. Saunders Co. Lamb, G. S. Karpovich, P. V. (n.d.). Philosophy of muscular activity. London: W.B. Saunders Co. Lamb, G. S.
- (1982). Essentials of exercise physiology. Delhi: Surject Publication. Moorthy, A.M. (2014). Anatomy physiology and health education. Karaikudi: MadalayamPub. Moorthy, A.M. (2014). Anatomy physiology and health cauchy Morehouse, L. E. & Miller, J. (1967). Physiology of exercise. St. Louis: The C.V. Mosby Co. Pearce,
- Sharma, R. D. (1979). Health and physical education, Gupta Prakashan.
- 9. Singh, S. (1979). Anatomy of physiology and health education. Ropar: Jeet Publications.



#### Health Education and Environmental Studies CC-103

# **UNIT-1: Health Education**

- 1.1 Concept, Dimensions, Spectrum and Determinants of Health.
- 1.2 Definition of Health, Health Education, Aims, objectives and principles of Health Education
- 1.3 Personal Hygiene: Care of eye, ear, skin and hair.
- 1.4 School Health Program: Health service, Health instruction, Health supervision, health appraisal and Health record.

# UNIT-2: Health Problems in India- Prevention and Control

- 2.1 Communicable diseases: Malaria, Dengue, Dysentery, Cough and cold, chicken pox.
- 2.2 Non-Communicable diseases: Obesity, Diabetes, Hyper Tension, Cancer.
- 2.3 Nutritional Disorder: Mother-child Health Care, Explosive Population, Food Adulteration, First-Aid and emergency care.
- 2.4 Postural Deformities

# **UNIT-3: Environmental Studies**

- 3.1 Historical Background and concept of Environmental Studies
- 3.2 Definition, scope, need and importance of Environmental Studies
- 3.3 Recycling of wastes, plastic recycling and probation of plastic bag/cover
- 3.4 Role of School in Environmental conservation and sustainable development.

# UNIT- 4: Natural Resources and Related Environmental Issues

- 4.1 Water resources, food resources and Land resources.
- 4.2 Definition, effects and control measures of air pollution, water pollution, soil pollution, Noise pollution and thermal pollution.
- 4.3 Management of environment and Govt. Policies- role of Pollution Control Board
- 4.4 Celebration of various days in relation with environment

- 1. Agrawal, K.C. (2001). Environmental biology. Bikaner: Nidhi publishers Ltd.
- 2. Frank, H. & Walter, H., (1976). Turners school health education. Saint Louis: The C.V. Mosby Company.
- 3. Nemir, A. (n.d.). The school health education. New York: Harber and Brothers. Odum, E.P. (1971). Fundamental of ecology. U.S.A.: W.B. Saunders Co.

# EC-101 Physical Literacy through Movement Education (Elective)

# UNIT-1: Introduction to Movement Education and Physical Literacy

- 1.1 Definition, Meaning & Importance of Movement Education.
- 1.2 Definition, Meaning & Importance of Physical Literacy.
- 1.3 Concept of developmentally Appropriate Physical Activities.
- 1.4 Standards based Physical Education Curriculum (NASPE Standards).

#### UNIT-2: Motor Skill & Movement Pattern

- 2.1 Classification of Motor Skills: Fundamental (Locomotor, Nonlocomotor, Body Management Skill), Specialized (Manipulative, Rhythmic Movement, Game & Sport Skills).
- 2.2 Skill Themes Approach and Development of Skill Themes: Traveling, Chasing, fleeing, dodging, jumping, landing, transferring body weight, striking, kicking, throwing and catching.
- 2.3 Introduction to Movement Concepts, Development of Movement Concepts: Space Awareness, Effort Concepts, Relationships.
- 2.4 Long Term Athlete Development (LTAD)

# IINIT-3: Participation in Physical Activity and Personal & Social Development

- 3.1 Personal Development: Self-concept, Cognitive Functioning and Motivational outcomes
- 3.2 Social Development: Altruism, Controlling Aggression, Cooperation, Group development.
- 3.3 United Nations and other organizations using Sport and Traditional Sports for Social
- 3.4 Sport for Development: Sport for Education, Economic, Gender, Health and Peace.

# UNIT- 4: Pedagogical Models for Physical Literacy & Movement Education

- 4.1 Need for child centered teaching models.
- 4.2 Teaching Games for Understanding (TGFU) model: Invasion Games, Net/Wall Games, Striking/Fielding Games, Target Games
- 4.3 Education through Movement (ETM) program
- 4.4 Coaching life skills through sport

#### References:

- 1. Abels, K. & Bridges, J. M. (2010) Teaching Movement Education: Foundations for active lifestyles.
- Human Kineucs
  Graham, G., Holt, Shirley & Parker, Melissa (1993) Children Moving. A Reflective Approach to Teaching Physical Education with Movement Analysis, Wheel 3rd Edition, Mayfield Publishing Company.
- Teaching Physical Education with Provenient Analysis, American Physical Education Curriculum

  Lund, J & Tannehill & Lund, Jacalyn (2010) Standards-Based Physical Education Curriculum
- Development, 2nd Edition. Jones & Dariett Learning.

  4. Frank, A. M (2003) Sports and Education: A Reference Handbook (Contemporary Education Issues),
- ABC-CLIO.
  Ciccomascolo, L. E. & Sullivan, E. C. (2013) The Dimensions of Physical Education. Jones &Barlett
- Learning.

  6. Pangrazi, R. P. (1998) Dynamic Physical Education for Elementary School Children. 12th Edition.
- Allyn& Bacon.

  7. Griffin, L. & Butler, J. (2005) Teaching Games for Understanding: Theory, Research, and Practice.
- Coalter, F. (2013) Sport for Development: What game are we playing? Routledge

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# Officiating And Coaching (Elective)

# UNIT - 1: Introduction of Officiating and Coaching

- 1.1 Concept of Officiating and Coaching
- 1.2 Importance and principles of Officiating
- 1.3 Relation of official and coach with management, players and spectators
- 1.4 Measures of improving the standards of Officiating and Coaching

# UNIT - 2: Coach as a Mentor

EC 102

- 2.1 Duties of coach in general, pre, during and post-game.
- 2.2 Philosophy of coaching.
- 2.3 Responsibilities of a coach on and off the field
- 2.4 Psychology of competition and coaching

# UNIT – 3; Duties of Official

- 3.1 Duties of official in general, pre, during and post-game.
- 3.2 Philosophy of Officiating
- 3.3 Mechanics of officiating Position, singles and movement etc.
- 3.4 Ethics of officiating

# UNIT - 4: Qualities and Qualification of Coach and Official

- 4.1 Qualities and Qualification of coach and official
- 4.2 General rules of game and sports
- 4.3 Eligibility rules of inter-collegiate and inter-university tournaments, preparation of TA,DA bills
- 4.4 Integrity and values of sports

#### **Reference Books:**

- 1. Bunn, J. W. (1968). The art of officiating sports. Englewood cliffs N.J. Prentice Hall.
- 2. Bunn, J. W. (1972). Scientific principles of coaching. Englewood cliffs N. J. Prentice
- 3. Hall. Dyson, G. H. (1963). The mechanics of athletics. London: University of London
- 4. Press Ltd. Dyson, G. H. (1963). The mechanics of Athletics. London: University of London Press Ltd.
- 5. Lawther, J.D. (1965). Psychology of coaching. New York: Pre. Hall.
- 6. Singer, R. N. (1972). Coaching, athletic &psychology. New York: M.C. Graw Hill.

# Semester-II

# **Theory Courses**

# **CC-201 YOGA EDUCATION**

#### UNIT -1: Introduction of Yoga

- 1.1 Meaning and Definition of Yoga
- 1.2 Aim and Objectives of Yoga
- 1.3 History and Philosophical aspects of Yoga
- 1.4 Need and Importance of Yoga in Physical Education and Sports

# UNIT -2: Methods of Yoga

- 2.1 KarmaYoga, JnanaYoga, BhaktiYoga and Raja Yoga
- 2.2 Steps of Hatha Yoga
- 2.3 Steps of AstangaYoga
- 2.4 Steps of yogic teaching method

# UNIT -3: Effects of Yogic Practices

- 3.1 Effect of kriyas on human body and mind
- 3.2 Effects of asanas on human body and mind
- 3.3 Effects of pranayamas on human body and mind
- 3.4 Effect of meditation on human body and mind

# UNIT-4: Modern Trends in Yoga

- 4.1 Mission and vision of AYUSH
- 4.2 Status of yoga studies in India and abroad
- 4.3 Yoga as education
- 4.4 Yoga as a therapy

# Reference Books:

- . 1. Brown, F.Y. (2000). Howtouseyoga. Delhi: Sports Publication.
- 2. Gharote, M.L. &Ganguly, H, (1988). Teaching methods for yogic practices. Lonawala: Kaixydahmoe.
- 3. Rajjan,S.M.(1985). Yogastrentheningofrelexationforsportsman. New Delhi: Allied Publis hers.
- Shankar, G. (1998). Holistic approach of yoga. New Delhi: Aditya Publishers. Shekar, K.C. (2003). Yoga for health. Delhi: KhelSahitya Kendra.

# CC – 202 Educational technology and methods of teaching in physical education

# UNIT – 1: Introduction

- 1.1 Education and education technology- meaning and definitions
- 1.2 Types of education Formal, Informal and non-formal education
- 1.3 Educative Processes
- 1.4 Importance of device and methods of teaching and class management

# **UNIT – 2: Teaching Technique**

- 2.1 Teaching Techniques Lecture Method, Command Method, Demonstration Method, Imitation Method, Project Method etc.; Teaching procedure Whole method, Whole part- whole method, Part- whole method
- 2.2 Presentation technique personal and technical preparation and presentation
- 2.3 Verbal Non-verbal communication technique
- 2.4 Details of three fundamental methods meaning, types and its uses in different situation

# **UNIT - 3: Teaching Aids and Competition**

- 3.1 Teaching Aids meaning importance and its criteria for selecting teaching aids. Community Aids, Co-curricular Aids
- 3.2 Type of Teaching Aids Audio aids, Visual Aids, Audio-visual Aids
- 3.3 Meaning, Principles and advantages of team teaching
- → 3.4 Group Competition, Intramural and extramural Competition

# **UNIT – 4: Learning Designing and Teaching Innovations**

- 4.1 Meaning, Types and Principle of Learning designing
- 4.2 General and Specific Learning designing. Simulation Teaching meaning, types and steps of Simulation Teaching
- 4.3 Meaning, Types and Steps of Micro and Macro Teaching.
- 4.4 Classification of students

- 1. Bhardwaj, A. (2003). New media of Educational Planning. New Delhi: Sarup of sons.
- 2. Bhatia & Bhatia, (1959). The Principle and Methods of Teaching. New Delhi: Doaba House.
- 3. Kochar, S.K. (1982). Methods and Technique of Teaching. New Delhi: Sterling Publishers Pvt. Ltd.
- 4. Sampath, K., Pannirselvam, A. &Santhanam, S. (1981). Introduction to educational technology. New Delhi: Sterling Publishers Pvt. Ltd.
- 5. Wlia, J.S. (1999). Priciples and Methods of Education. Jullandhar: Paul Publishers.

# CC – 203 Organization and Administration

# UNIT - 1: Introduction to Organization and Administration

- 1.1 Meaning Definition, and Importance of organization and Administration in Physical Education
- 1.2 Meaning, Definition and Importance of Planning
- 1.3 Basic principles of Planning
- 1.4 Functions of organization and Administration

# UNIT - 2: Office and Time-Table Management

- 2.1 Meaning Definition, and Functions of Office Management
- 2.2 Kinds of office Management
- 2.3 Maintenance of different types of Register
- 2.4 Time-Table Management: Meaning, need and Importance

# UNIT - 3: Management of Sports Facility

- 3.1 Types of facilities: Infrastructure -Indoor, Outdoor
- 3.2 Facility Management: Equipment Store Room, Gymnasium, Swimming pool, Play ground
- 3.3 Equipment: Need, Importance, Procedure of purchase, Care and Maintenance
- 3.4 Physical efficiency Record, Medical examination Record

# UNIT - 4: Tournament

- 4.1 Importance of Tournament
- 4.2 Types of Tournament and its organizational structure
- 4.3 Organizational structure of athletic meet
- 4.4 Sports Event, Intramural and Extramural Tournament Planning

#### References:

- 1. Broyles, F. J. &Rober, H. D. (1979). Administration of sports, Athletic programme: A Managerial Approach. New York: Prentice hall Inc.
- 2. Bucher, C. A. (1983). Administration of Physical Education and Athletic programme.St.Lolis: The C.V. Hosby Co.
- 3. Kozman, H.C. Cassidly, R. & Jackson, C. (1960). Methods in Physical Education. London: W.B. Saunders Co.
- 4. Pandy, L.K. (1977). Methods in Physical Education. Delhe: Metropolitan Book Depo

# EC 201 CONTEMPORARY ISSUES IN PHYSICAL EDUCATION(Elective)

# UNIT - 1: Concept of Fitness

- 1.1 Meaning and Definition of Fitness
- 1.2 Type of fitness
- 1.3 Definition and component of physical fitness
- 1.4 Changing concept of physical fitness

# UNIT - 2: Concept of Wellness and Lifestyle

- 2.1 Concept and dimensions of wellness
- 2.2 Cyber culture and modern life style
- 2.3 Diseases due to lifestyle Their prevention and management through physical activities
- 2.4 Construction of Wellness profile

# UNIT - 3: Principle of Exercise Programme

- 3.1 Means of fitness development aerobic and anaerobic exercises
- 3.2 Principle of obesity control and weight management
- 3.3 Concept of sets, repetition, volume, intensity, density of exercise
- 3.4 Concept of designing different fitness training programme for different age group

# UNIT - 4: Safety Education and Fitness Promotion

- 4.1 Definition and need of Safety Education
- 4.2 Determination of desirable body weight
- 4.3 Health drinks and sports drinks- their need and importance
- 4.4 Common injuries and their management

- 1. Difiore, J.(1998). Complete guide to postnatal fitness. London: A & C Black,.
- 2. Giam, C.K & The, K.C. (1994). Sport medicine exercise and fitness. Singapore: P.G. Medical Book.
- 3. Mcglynn, G., (1993). Dynamics of fitness. Madison: W.C.B Brown. Sharkey, B. J.(1990). Physiology of fitness, Human Kinetics Book.

# EC- 202 Sports Nutrition and Weight Management (Elective)

# UNIT-1: Introduction to Nutrition

- 1.1 Meaning and definition of Nutrition and sports nutrition
- 1.2 Guidelines of basic nutrition
- 1.3 Role of nutrition in sports
- 1.4 Factors for developing a nutritional plan

# **UNIT-2: Nutrients**

- 2.1 Macro Nutrients- Carbohydrate, protein, fat Meaning, Sources and functions
- 2.2 Micro Nutrients- Vitamins, minerals, water meaning, Sources, classification and functions
- 2.3 Role of carbohydrate, fat and protein during exercise
- 2.4 Role of hydration during exercise and water balance.

# UNIT-3: Nutrition and Weight Management

- 3.1 Meaning and concept of weight management in modern era. Factors affecting weight management and values of weight management
- 3.2 Concept of B.M.I.(Body Mass Index) and Obesity
- 3.3 Obesity and its hazards, Myth of Spot reduction, dieting versus exercise for weight control, Common Myths about weight loss
- 3.4 Health risks associated with Obesity Causes and solution for overcoming obesity

# UNIT-4: Steps of Planning of Weight Management

- 4.1 Nutrition Daily calorie intake and expenditure.
- 4.2 Balance diet and athletic diet
- 4.3 Role of diet and exercise in weight management
- 4.4 Weight management programme for sporty child, Design diet and exercise schedule for weight gain and loss.

#### References:

- 1. Bessesen, D. H. (2008). Update on obesity. J ClinEndocrinolMetab.93(6), 2027-2034.
- 2. Butryn, M.L., Phelan, S., &Hill, J. O.(2007). Consistent self-monitoring of weight: a key component of successful weight loss maintenance. Obesity (Silver Spring). 15(12), 3091-3096.
- 3. Chu, S.Y. & Kim, L. J. (2007). Maternal obesity and risk of stillbirth: a metaanalysis. Am J ObstetGynecol, 197(3), 223-228.
- 4. DeMaria, E. J. (2007). Bariatric surgery for morbid obesity. N Engl J Med,356(21), 2176-2183.
- 5. Dixon, J.B., O'Brien, P.E., Playfair, J. (n.d.). Adjustable gastric banding and conventional therapy for type 2 diabetes: a randomized controlled trial. JAMA. 299(3), 316-323.

# Semester – III

# Theory Courses

# CC - 301

# **Sports Training**

# **UNIT - 1: Introduction to Sports Training**

- 1.1 Meaning and Definition of Sports Training and Sports Coaching
- 1.2 Aim and Objectives of Sports Training
- 1.3 Principles of Sports Training and qualification and duties of sports trainer
- 1.4 Components of games and sports training (Motor fitness components Technique, Tactics and Strategical approach, Psychological components facilities and infrastructure)

# UNIT - 1: Process of development of motor fitness component

- 2.1 Strength- Means and method of Strength development
- 2.2 Speed Means and method of Speed development
- 2.3 Endurance- Means and method of Endurance development
- 2.4 Power and Balance Means and method of Power and Balance development

# UNIT - 1: Training load, load dynamics and Training processes

- 3.1 Concept definition and types of training load
- 3.2 Components of training load
- 3.3 Concept of load dynamics and its principles
- 3.4 Technical and Tactical training- Meaning, Importance and methods.

# UNIT - 1:Programme, planning and system of sports training

- 4.1 Periodization- Meaning, definition and types. Aims, Objectives and Content of different periods- Preparatory, Competition and Transition.
- 4.2 Planning-Training session for Micro, Meso and Macro cycles.
- 4.3 Systems of Sports Training- Basic Performance, Good Performance and High Performance.
- 4.4 Talent identification. Meaning of Flexibility and coordinative ability and their role in High Performance

- 1. Dick, W. F. (1980). Sports training principles. London: Lepus Books.
- 2. Harre, D.(1982). Principles of sports training. Berlin: Sporulated.
- 3. Jensen, R. C.& Fisher, A.G. (1979). Scientific basis of athletic conditioning. Philadelphia: Lea and Fibiger, 2ndEdn.
- 4. Matvyew, L.P. (1981). Fundamental of sports training. Moscow: Progress Publishers.
- 5. Singh, H. (1984). Sports training, general theory and methods. Patials: NSNIS.
- 6. Uppal, A.K., (1999). Sports Training. New Delhi: Friends Publication.

# CC-302 Computer Applications in Physical Education and Sports Science

# UNIT – 1: Introduction to Computer Application

- 1.1 Components of computer-input and output unit, storage unit, CPU, ALU, control unit.
- 1.2 Starting & quitting windows, setting display, time & date, managing files and folders.
- 1.3 Meaning, need and importance of information and communication technology (ICT).
- 1.4 Application of computer and computer software in Physical Education and Sports

# UNIT - 2: Word

- 2.1 Introduction to word
- 2.2 Creating, saving and opening a document
- 2.3 Formatting & editing features, drawing table and graphs, page setup, paragraph alignment, spelling and grammar check, bullets and numbering, page number, header and footer, footnote and endnotes, mail merge, printing option and hyperlink.
- 2.4 Preparation of word document

# UNIT - 3: Excel

- 3.1 Introduction to Excel
- 3.2 Creating, saving and opening spreadsheet
- 3.3 Format and editing features, adjusting columns width and row height, Creating formulas, short and filter, inserting graph and pictures, printing option
- 3.4 Preparation of Excel worksheet

# UNIT - 4: Power Point

- 4.1 Introduction to Power Point
- 4.2 Creating, saving and opening a ppt file
- 4.3 Format and editing features, slide show, design, inserting slide number, picture. graph, table, hyperlink and graphics.
- 4.4 Preparation of Power Point Presentation

# References:

- 1. Irtegov, D. (2004). Operating system fundamentals. Firewall Media.
- 2. Marilyn, M.& Roberta, B.(n.d.). Computers in your future. 2nd edition, India: Prentice
- 3. Milke, M.(2007). Absolute beginner's guide to computer basics. Pearson Education
- 4. Sinha, P. K. &Sinha, P. (n.d.). Computer fundamentals. 4th edition, BPB Publication.

# Psychology and Sociology in Physical Education and Sports CC - 303

# UNIT - 1: Introduction to Psychology and Sociology

- 1.1 Meaning, Importance and scope of Sports Psychology and Sociology.
- 1.2 Biological Basis of Human Behaviour
- 1.3 Individual Differences Heredity and Environment
- 1.4 Psycho-social aspects of Human behavior in relation to Physical Education and Sports

# UNIT - 2: Learning, Maturity and Growth & Development

- 2.1 Learning-Definition, Types and Laws of Learning. Theories of Learning. Factors affecting Learning, Transfer of Learning. Learning Curve - Stagnation in learning.
- 2.2 Growth and Development Stages of Development, need of Physical Activity
- 2.3 Personality Meaning and definition of personality, characteristics of personality. Dimensionofpersonality.PersonalityandSportsperformance.
- 2.4 Mental Aspects Attention, Interest, Motivation, Aggression, Emotion, Anxiety.

# **UNIT - 3: Social Science and Physical Education**

- 3.1 Orthodoxy, customs, Tradition and PhysicalEducation.
- 3.2 Importance of Festivals in physical Education.
- 3.3 Theories of Play, SocializationthroughPhysicalEducation.
- 3.4 SocialGrouplifeSocialconglomeration—Socialgroup,Primary groupandRemotegroup.

# UNIT - 4: Culture and Physical Education

- 4.1 Features of culture, Importance of culture
- 4.2 Importance of sports in modern society
- 4.3 Effects of culture on people lifestyle.
- 4.4 Different methods of studying (Observation/ Inspection method Questionnaire method, Interview method.)

# Suggested Readings

- 1. B. J. Cratty. Psychology of Contemporary sports Champaign: Human Kinetics Publishers,
- 2. John M. Silva & Roberts.Psychological Foundations of Sport. Champaign: Human Kinetics Publishers.
- 3. Diane Gills, Psychological Dynamics of sports. Champaign: Human Kinetics Publishers.
- 4. Cox, Sports Psychology. Champaign: Human Kinetics Publishers.
- 5. Richard M. Sumin, "Psychology in Sports, Methods & Application. New Delhi: Surject Publication.

# EC-301 Sports Medicine, Physiotherapy and Rehabilitation (Elective)

# **UNIT-1: Sports Medicine**

- 1.1 Meaning and concept of sports medicine, Aim and objectives of sports medicine.
- 1.2 Development of sports medicine as discipline –aspect of sports medicine
- 1.3 Common regional injuries and their management- shoulder, elbow, wrist knee and ankle -signs, symptoms and diagnosis of injuries
- 1.4 Concept of doping and doping agents banded by WADA

# UNIT-2: Physiotherapy

- 2.1 Brief introduction of Physiotherapy
- 2.2 Need and importance of Physiotherapy
- 2.3 Different types of therapeutic modalities (cryotherapy, superficial thermo therapy, penetrating thermotherapy, Electrical stimulation)
- 2.4 Guiding principles of therapeutic modalities

# UNIT-3: Athletic Care and Massage

- 3.1 Prevention of athletic injuries steps of prevention –pre-participation evaluation Warm up and conditioning.
- 3.2 Emergency care in athletics and First aid Meaning and principles First aid care for I) Loss of consciousness II) control of building III) Drowning and basic life support.
- 3.3 Protective and supportive equipment: Taping, Bandaging, padding and orthotics.
- 3.4 Massage: Classification general principles, indication and contraindication.

# UNIT -4: Rehabilitations

- 4.1 Concept and goal of rehabilitation
- 4.2 Principle of therapeutic exercises -Classification, uses of
- 4.3 Passive movement and active movement
- 4.4 Mobility exercise

# References:

- 1. Christine, M. D., (1999). Physiology of sports and exercise.USA: Human Kinetics.
- 2. Conley, M. (2000). Bioenergetics of exercise training. In T.R. Baechle, & R.W. Earle. (Eds.), Essentials of Strength Training and Conditioning (pp. 73-90). Champaign, IL: Human Kinetics.
- 3. David, R. M. (2005). Drugs in sports, (4th Ed). Routledge Taylor and Francis Group.
- 4. Hunter, M. D. (1979). A dictionary for physical educators. In H. M. Borrow & R. McGee, (Eds.), A Practical approach to measurement in Physical Education (pp. 573-74). Philadelphia: Lea & Febiger.

# EC-302

# **CURRICULUM DESIGN (Elective)**

# UNIT-1: Modern concept of the curriculum

- 1.1 Need and importance of curriculum, Need and importance of curriculum development, the role of the teacher in curriculum development.
- 1.2 Factors affecting curriculum- Social factors- Personnel qualifications-Climatic consideration
- 1.3 Equipment and facilities-Time suitability of hours.
- 1.4 National and Professional policies, Research finding

# UNIT-2: Basic Guideline for curriculum construction; contest (selection and expansion).

- 2.1 Focalization, Socialization
- 2.2 Individualization
- 2.3 Sequence and operation
- 2.4 Steps in curriculum construction.

# UNIT-3: Curriculum-Old and new concepts, Mechanics of curriculum planning.

- 3.1 Basic principles of curriculum construction.
- 3.2 Curriculum Design, Meaning, Importance and factors affecting curriculum design.
- 3.3 Principles of Curriculum design according to the needs of the students and state and national level policies.
- 3.4 Role of Teachers

# UNIT-4: Under-graduate preparation of professional preparation.

- 4.1 Areas of Health education, Physical education and Recreation.
- 4.2 Curriculum design- Experience of Education, Field and Laboratory.
- 4.3 Teaching practice.
- 4.4 Professional Competencies to be developed-Facilities and special resources for library, laboratory and other facilities.

- 1. Barrow, H. M. (1983). Man and movement: principles of physical education. Philadelphia: Lea and Febiger.
- 2. Bucher, C. A. (1986). Foundation of physical education: St. Louis: The C. V. Mosby & Company.
- 3. Cassidy, R. (1986). Curriculum development in physical education. New York: Harper & Company.
- 4. Cowell, C.C. & Hazelton, H.W. (1965). Curriculum designs in physical education.Englewood Cliffs: N.J. prentice Hall Inc.
- 5. Larson, L.A. (n.d.). Curriculum foundation in physical education. Englewood Cliffs: N.J. Prentice Hall Inc.
- 6. Underwood, G. L. (1983). The physical education curriculum in secondary school: planning and implementation. England: Taylor and Francis Ltd.
- 7. Willgoose, C.E. (1979). Curriculum in physical education. 3rd Ed. Englewood Cliffs. N.J. Prentice Hall, Inc.

# Semester – IV

# **Theory Courses**

# CC-401 Measurement and Evaluation in Physical Education

# UNIT- 1: Introduction to Test, Measurement & Evaluation

- 1.1 Meaning of Test, Measurement & Evaluation in Physical education
- 1.2 Need, Importance of Test, Measurement & Evaluation in Physical Education
- 1.3 Application of Test, Measurement & Evaluation in Physical Education
- 1.4 Principles of Evaluation

# UNIT - 2: Criteria, Classification and Administration of Test

- 2.1 Criteria of a good Test and Scientific authenticity (reliability, objectivity, validity and availability of norms)
- 2.2 Types of Test
- 2.3 Difference between Physical Fitness Test, Motor Fitness test, and Sports Skill Test
- 2.4 Administration of test- Advance preparation, Duties during test and after test.

# UNIT- 3: Physical Fitness; Motor Fitness and Cardio-respiratory Tests

- 3.1 AAHPER Youth Fitness Test
- 3.2 AAHPERD Health Related Physical Fitness Test
- 3.3 Indiana Motor Fitness Test and JCR test
- 3.4 Harvard Step test and Tattle pulse ratio test

# **UNIT- 4: Sports Skill Tests**

- 4.1 Mitchei's modification of McDonald Soccer Test
- 4.2 Johnson Basketball Test
- 4.3 Lockhart and McPherson Badminton Test
- 4.4 Russel-Lange Volleyball Test
- 4.5 Schmithal-French Field Hockey Test

#### References:

- Bangsbo, J. (1994). Fitness training in football: A scientific approach. Bagsvaerd, Denmark: Ho+Storm.
- 2. Barron, H. M., &Mchee, R. (1997). A practical approach to measurement in physical education. Philadelphia: Lea and Febiger.
- 3. Barron, H.M. &Mchee, R. (1997). A Practical approach to measurement in physical education. Philadelphia: Lea and Febiger.
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  Phillips, D. A., &Hornak, J. E. (1979). Measurement and evaluation in physical education.
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# CC-402

# Kinesiology and Biomechanics

# UNIT - 1: Introduction to Kinesiology and Sports Biomechanics

- 1.1 Meaning and Definition of Kinesiology, Biomechanics and Sports Biomechanics
- 1.2 Importance and Scope of Kinesiology and Sports Biomechanics in Physical Education and Sports Science
- 1.3 Terminology of Fundamental Movements
- 1.4 Fundamental Concepts of Following Terms Axes and Planes, Centre of Gravity, Line of Gravity, Scalars and Vectors Quantities, Equilibrium.

# UNIT – 2: Kinesiological Aspects of Human Movement

- 2.1 Classification of Joints and Muscles, Name of the Major Superficial Muscles, movements around the joints
- 2.2 Types of Muscle Contractions
- .2.3 Posture Meaning, Types and Importance of Good Posture.
- 2.4 Fundamental Concepts of Following Terms- Angle of Pull. All or None Law, ReciprocalInnervations

# **IJNIT – 3: Mechanical Concepts**

- 3.1 Force Meaning, Definition, Types, Units and its Application to Sports Activities
- 3.2 Lever Meaning, Definition, Types and Body Lever. Wheel, Axel and Pulley.
- 3.3 Motion Concept, Types and its Application to Sports Activities. Newton's Laws of Motion
- 3.4 Projectile Motion Concept, Types, Principles and Factors Influencing Projectile Motion.

# UNIT - 4: Kinematics and Kinetics of Human Movement

- 4.1 Linear Kinematics Distance and Displacement, Speed and Velocity, Acceleration
- 4.2 Angular kinematics Angular Distance and Displacement, Angular Speed and velocity, Angular Acceleration.
- 4.3 Linear Kinetics Inertia, Mass, Momentum, Impulse, Friction.
- 4.4 Angular Kinetics Moment of Inertia, Couple, Stability.

- 1. Bunn, J. W. (1972). Scientific principles of coaching. Englewood Cliffs, N.J. Prentice HallInc.
- 2. Hay, J. G. & Reid, J. G.(1982). The anatomical and mechanical basis of human motion. Englewood Cliffs, N.J.: prentice Hall Inc.
- 3. Hay, J. G. & Reid, J. G. (1988). Anatomy, mechanics and human motion. Englewood Cliffs, N.J.: prentice Hall Inc.
- 4. Hay, J. G. (1970). The biomechanics of sports techniques. Englewood Cliffs, N.J.: PrenticeHall, Inc.
- 5. Simonian, C.(1911). Fundamentals of sport biomechanics. Englewood Cliffs, N.J.: PrenticeHall Inc.
- 6. Hall, J.S. (1991). Basic Biomechanics. The McGraw-Hill Companies, Inc. First Edition 1991, Brown and Benchmark Publishers.

#### Research and Statistics in Physical Education CC - 403

# UNIT-1: Introduction to Research

- 1.1 Definition of Research, Need and importance of Research in Physical Education and
- 1.2 Scope of Research in Physical Education & Sports.
- 1.3 Classification of Research
- 1.4 Research Problem, Quality of a good researcher

# UNIT -2: Research Proposal and Project Report

- 2.1 Need for surveying related literature and Literature Sources
- 2.2 Research Proposal- Meaning and Significance of Research Proposal.
- 2.3 Preparation of a Project proposal and Project report.
- 2.4 Methods of Collection of data

# **UNIT-3: Basics of Statistical Analysis**

- 3.1 Statistics: Meaning, Definition, Nature and Importance
- 3.2 Class Intervals: Raw Score, Continuous and Discrete Series
- 3.3 Frequency and Frequency Distribution, Construction of Frequency Distribution Tables
- 3.4 Graphical Presentation of Data: Histogram, Frequency Polygon, Frequency Curve.

# UNIT-4: Statistical Models in Physical Education and Sports

- 4.1 Measures of Central Tendency: Mean, Median and Mode:
- 4.2 Definition, Importance, Advantages, Disadvantages and Calculation from Group and Ungrouped data
- 4.3 Measures of Variability: Meaning, importance, computing from group and ungroup
- 4.4 Percentiles and Quartiles: Meaning, importance, computing from group and ungroup data

#### References:

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- Oyster, C. K., Hanten, W. P., &Llorens, L. A. (1987). Introduction to research: A guide for the health
- Thomas, J.R., & Nelson J.K. (2005). Research method in physical activity. U.S.A: Champaign, IL:
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  10. Thomas, J.R., Nelson, J.K. & Silverman, S.J. (2011). Research method in physical activity.U.S.A: Uppal, A. K. (1990). Physical fitness: how to develop. New Delhi: Friends Publication.
- 12. Verma, J. P. (2000). A text book on sports statistics. Gwalior: Venus Publications.

# EC-401 Theory of Sports and Games (Elective)

# UNIT – 1: Introduction

- 1.1 General Introduction of specialized game and sports: Athletics, Badminton, Basketball, Volleyball, Cricket, Football, Gymnastics, Hockey, Hand ball, Kabaddi, Kho-Kho, Tennis, Yoga. Each Game or sportsto be dealt under the following heads: history and development of the game and of sports(any two)
- 1.2 Ground preparation, dimension and marking
- 1.3 Standard equipment and their specification
- 1.4 Ethics of sports and sportsmanship

# UNIT - 2: Scientific principles of coaching (particular sports and game specific)

- 2.1 Motion- Types of motion and displacement, Acceleration, distance and Newton's Laws of motion.
- 2.2 Force- Friction, Centripetal and Centrifugal force, principles of force.
- 2.3 Equilibrium and lever: Their types
- 2.4 Sports training- Aims, Principles and characteristics. Training load- Component, principles of load, over load (Causes and symptoms), Crest load, Maximum and Sub maximum load.

# UNIT - 3: Physical fitness components: (Particular sports and games specific)

- 3.1 Definition and types of speed, Strength and endurance.
- 3.2 Flexibility and its types.
- 3.3 Coordinative ability and its types
- 3.4 Training methods: Development of Components of Physical fitness and motor fitness through following training methods (Continuous method, Interval method, Circuit method, Fartlek and Weight Training)

# UNIT - 4: Conditioning Exercise and warming up

- 4.1 Concept and conditioning of warming up
- 4.2 Role of weight training in games and sports
- 4.3 Teaching of fundamental skill and their mastery(Technique, Tactics and different phases of skill acquisition). Recreational and lead up games
- 4.4 Strategy- Offence and defense, Principles of offense and defense.

- 1. Bunn, J. W. (1968). The art of officiating sports. Englewood cliffs N.J. Prentice Hall.
- 2. Bunn, J. W. (1972). Scientific principles of coaching. Englewood cliffs N. J. Prentice Hall.
- 3. Dyson, G. H. (1963). The mechanics of athletics. London: University of London Press Ltd.
- 4. Lawther, J.D. (1965). Psychology of coaching. New York: Pre. Hall.
- 5. Singer, R. N. (1972). Coaching, athletic &psychology.New York: M.C. Graw Hill.

# EC-402 Sports Management (Elective)

# UNIT - 1: Introduction to Sports Management

- 1.1 Nature, Scope and Purpose of Sports Management
- 1.2 Steps and Principles of Sports Management
- 1.3 Qualities and Competencies require for the Sports Manager
- 1.4 Event Management in Physical Education and Sports

# UNIT - 2: Development of Leadership Qualities

- 2.1 Meaning and Definition of Leadership
- 2.2 Forms of Leadership- Autocratic, Laissez-faire, Democratic, Benevolent Dictator
- 2.3 Qualities of administrative Leader
- 2.4 Preparation of administrative Leader

# UNIT - 3: Sports Management in Different Agencies

- 3.1 Sports Management in schools, Colleges and Universities
- 3.2 Factors affecting planning
- 3.3 Planning a school or college sports programme
- 3.4 Controlling a school, college and University sports programme- Developing Performance standard, establishing a reporting system, Evaluation

# UNIT - 4: Financial Management in Physical Education

- 4.1 Financial Management in Physical Education and Sports in different Institutions
- 4.2 Budget-Meaning, Importance, Criteria of preparing a good Budget
- 4.3 Steps of Budget making
- 4.4 Principles of Budgeting

#### References:

- 1. Ashton, D. (1968). Administration of physical education for women. New York: The Ronal Press Cl.
- 2. Bucher, C.A. Administration of physical education and athletic programme. 7th Edition, St.Louis: The C.V. Mosby Co.
- 3. Daughtrey, G. & Woods, J.B. (1976). Physical education and intramural programmes, organisation and administration. Philadelphia U.S.A.: W.B. Sounders Cp.
- 4. Earl, F. Z, & Gary, W. B. (1963). Management competency development in sports and physical education. Philadelphia: W. Lea and Febiger.

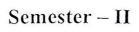


# Part – B Practical Courses

# Semester – I

Course	PAPER TITLE		Marks	
Code		Internal	External	Credit
PC-101	Track and Field	30	70	4
1.1	Dunning Events: Starting techniques: Standing	20		
1.1	Running Events: Starting techniques: Standing start, Crouch start and its variations, Proper use	20		
	of blocks.			
	Finishing Techniques: Run Through, Forward			
	lunging, Shoulder Shrug			
	Marking, Rules and Officiating	20		
1.2	Hurdles: Fundamental Skills- Starting,	20		
1.2	Clearance and Landing Techniques.			
	Types of Hurdles, Marking and Officiating.			
1.3	Relay: Baton Exchange for different distances,	20		
	Understanding of Relay Zones, Marking and			
1.4	interpretation of rules and officiating	20+20		
1.4	Jumping: Running Broad Jump and Triple Jump	20+20		
	Approach Run, Take-off, Flight and Landing			<del> </del>
PC-102	Gymnastics or Swimming	30	70	4
2.1	Gymnastics: Floor Exercise, Forward Roll,			
	Backward Roll, Hand stand, Cart Wheel, Leg			
	Split, Different dancing steps (Combination)			
	Table Vault: Approach Run, Take off from the			
	beat board, Cat Vault, Squat Vault.			
	Men: Parallel bar, Horizontal bar/Roman rings,			
	Rhythmic Gymnastics, Pyramid (Pair, Trio,			
	Quadrates, Penthats) Women: Uneven bars, Balance Beam, Rhythmic			
	Gymnastics, Pyramid (Pair, Trio, Quadrates,			
	Penthats)			
2.2	Swimming: Floating, Gliding, Leg Action, Arm		N.	
	action, Breathing technique			
	Introduction of various strokes: Front crawl,			
	Back crawl, Butterfly, Brest Stroke: Starting			
	Technique and entry into water			
anthon was superior of the angles of the	Medley, Life Savings			
PC-103	March Past and Mass Demonstration Activities			4
100	The contract of the contract o			1
3.1	Dumbbells/ Wands/ Hoop/ Umbrella/ Tipri/	20.4(10.10)		
	Bratachari/Malkhamb/Lezium/Callisthenics	20+(10+10)		
	Bratachari/Malkhamb/Lezium/Callisthenics (Any two of nine)	20+(10+10)		
	Bratachari/Malkhamb/Lezium/Callisthenics	20+(10+10) 30 + 30		

PC-104		40	4
4.1	Yoga: Surya Namaskar and Pranayam Sitting Position: Paschimottanasana, Gomukhasana, Ustrasana, Arda-maschandrasan Halasana, Salvasana, Sarvangasana, Chakrasana Vrikshasana, Padahastasana, Trikonasana, Utkatasana		
4.2	Weight Training: Crouch Sitting Position, Different types of grip, Standing with weight, Dead lift Curling: Two arm dumbbell curling, Barbell curling, Front Curling, Reverse Curling Dumbbell and Barbell press, Front and back press, Bench press (Incline & Decline) Squat: Front and back squat	30	
4.3	Aerobics: Low impact core moves - 1. March, 2. Side to side, 3. Double side to side, 4.grapevine, 5. Knee up, 6. Leg curl, 7. Toe touch, 8. Side lunge, 9. Back lunge, 10. Kick front, 11. Kick side, 12. Heel to raft, 13. 'E' shape, 14.'v' shape 15. Introduction of Bench Exercise	30	



Corse	Paper title		Marks	
Code		Internal	External	Credit
PC-	Track and Field	30	70	4
201	Jumping: High Jump- Approach run, Take off,			
	Bar clearance, Landing			
	Or Pole vault: Approach, Planting, Riding, Bar			
	clearance, Landing			
	Throwing Events: Putting the shot, Discus, Javelin			
PC-	Gymnastics/Swimming:	30	70	4
202	Gymnastics: Floor Exercise, Forward Roll,	·		
	Backward Roll, Hand stand, Cart Wheel, Leg Split,			
	Different dancing steps (Combination)			
	Table Vault: Approach Run, Take off from the			
	beat board, Cat Vault, Squat Vault.  Men: Parallel bars, Horizontal bar/Roman rings,			
	Rhythmic Gymnastics, Pyramid (Pair, Trio,			
	Quadrates, Penthats)			
	Women: Uneven bars, Balance Beam, Rhythmic			
	Gymnastics, Pyramid (Pair, Trio, Quadrates,			
	Penthats)			
	Swimming: Floating, Gliding, Leg Action, Arm			
	action, Breathing technique		1	
	Introduction of various strokes: Front crawl, Back			
	crawl, Butterfly, Brest Stroke: Starting Technique	100		
	and entry into water Medley, Life Savings			
PC-	Team Games: Football, Netball, Volleyball,	30	70	4
203	Handball (Any three) (3x25 marks)			
	Racket Sports: Table Tennis, Badminton, Tennis,			
	Squash (Any one)-(1x25 marks)			
TP-	Class room teaching (Micro Teaching): 4 lessons- 2		70	4
201	from Physical Education field and 2 from other	1		
	School Subjects-Best of 3 will be internally	1		
	evaluated and 1 final lesson will be externally			
	evaluated (50 marks)			
	Outdoor teaching (2 Campus and 2 off-campus): 4			
	lessons- 2 from Indigenous games and 2 from other			
	games-Best of 3 will be internally evaluated and 1			
	final lesson will be externally evaluated (50 marks)			

# SEMESTER - III

Course	COURSE TITLE		Marks	
Code		Internal	External	Credit
PC-301	Combative Sports: Karate, Judo, Fencing, Boxing,	30	7.0	4
	Taekwondo, Wrestling, Lathi (Any two out of these)			
	(50+50 marks)			
TP-302	Teaching Practice: Racket sports-4 lessons- Best of 3 will	30	70	4
	be internally evaluated and 1 final lesson will be			
-	externally evaluated	7402		
	Team games-4 lessons- Best of 3 will be internally			
	evaluated and 1 final lesson will be externally evaluated			
	(50+50 marks)			-
TP-303	Sports Specialization-I: Coaching lesson plan: (Any one	30	70	4
	activity from Track & Field/Gymnastics/Swimming)	1.11		
	Note book (Internal), 1 lesson internal & 1 lesson external		11	
	(60 for lesson and 10 for viva), Internal- 20 for lesson and			
707D 204	10 for Note book)	20	70	1
TP-304	Teaching Practice: Yoga/Weight Training or Aerobics	30	70	4
	Yoga-4 lessons in School Situation- Best of 3 will be		* 1	
	internally evaluated and 1 final lesson will be externally		-0	
	evaluated.			
	Weight Training or Aerobics- 4 lessons in School	- 3		
	Situation- Best of 3 will be internally evaluated and 1			
	final lesson will be externally evaluated (50+50 marks)			

# SEMESTER-IV

Course	PAPER TITLE		Marks	
Code		Internal	External	Credit
PC-401	Games Specialization-II: Evaluation of Performance Ability (To select one activity except Track & Field/Gymnastics/Swimming)	30	70	4
PC-402	Adventure activity/Outdoor activity (50 marks): Camping/Trekking/Hiking/Rock-climbing/Artificial Climbing etc. Lab-based Practical on Physical and Physiological/Psychological/Biomechanical measures (Total Internal and Final curriculum will be framed by concerned University/Department (50 marks)	50	)+50	4
PC-403	Team Games: Cricket, Basketball, Hockey, Softball, Baseball, Throwball (Any four)-25 marks for each activity	30 70	)	4
PC-404	AAHPERD Youth fitness Test (50 marks) Sports Specific Fitness Test (50 marks)	30 70	)	4

Table – 1: Semester wise distribution of hours per week

Semester	Theory	Practicum	Teaching	Total
		e e	practice	40
I	16	24	00	40
II	16	18	06	40
III	16	18	06	40
IV	. 16	12	12	40
Total	64	72	24	160

Table – 2: Number of credits per semester

Semester	Theory	Practicum	Teaching practice	Total
I	16	16	00	32
II	16	12	04	32
III	16	12	04	32
IV	16	08	08	32
Total	64	48	16	128