PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY, SOLAPUR



NAAC Accredited-2015 'B' Grade (CGPA 2.62)

Name of the Course Syllabus:-

B.P.Ed. (Bachelor of Physical Education)

With effect from :-

June-2019

CBCS Pattern (80;20)

Objectives

- 1. To develop highly profile scholars in the Field of Physical Education.
- 2. To make perfection in competencies and skills needed to become professionals in the areas of specialization.
- 3. To be aware of emerging issues such as health, fitness, wellness and technology.
- 4. To develop the students critical mind and ability to employ reasoning, rational thinking of the problems and issues relating the field.
- 5. To provide opportunity for entrepreneurship, self expression and provide information on continued professional growth.

PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY, SOLAPUR.

SYLLABUS STRUCTURE B.P.Ed.

(Bachelor of Physical Education)
TWO YEARS PROGRAMME (FOUR SEMESTERS) (CS)
w.e.f.:- June, 2019

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 theory as well as practical courses and compulsory school internship.

1. Eligibilities of Admission

The course of study for the Bachelor of Physical Education shall be open only to those students who have passed degree examination of this university or UGC recognized any university or as per the NCTE norms and government of Maharashtra norms and as per Punyashlok Ahilyadevi Holkar Solapur University Guide Lines.

The reservation in the seats and relaxation in the qualifying marks of SC/ST/OBC/NT and other categories as per the rules of state government.

i) The candidate should be an Indian National and should have passed Bachelor's Degree in any discipline with 50 % marks* (Minimum 45%* in case of Backward Class categories belonging to the State of Maharashtra) and having at least participation in the inter-college /Inter-Zonal /district / School Competition in Sports and Games as recognized by the AIU/IOA/SGFI/Government of India.

OR

ii) The candidate should have passed Bachelor's Degree in Physical Education (BPE) with 45% marks (Minimum 40% marks in case of Backward Class Categories).

OR

iii)The Candidate should have passed Bachelor's Degree in any discipline with 45% marks* (Minimum 40% marks* in case of Backward Class Categories belonging to the State of Maharashtra) and studied Physical Education as Compulsory /Elective subject.

OR

iv) The Candidate should have passed Bachelor's Degree with 45% marks* (Minimum 40% marks* in case of Backward Class Categories belonging to the State of Maharashtra) and having participated in National /Inter-University /State Competitions or secured 1st, 2nd or 3rd position in Inter-College /Inter-Zonal /District /School Competition in Sports and Games as recognized by the AIU/IOA/SGFI/Government of India.

v) The Candidate should have passed Bachelor's Degree with participation in International Competitions or secured 1^{st} , 2^{nd} or 3^{rd} position in Inter-College /Inter-Zonal /District /School Competition in Sports and Games as recognized by the AIU/IOA/SGFI/Government of India.

OR

vi)The Candidate should have passed Bachelor's Degree with 45% marks* (Minimum 40% marks* in case of Backward Class Categories) and at least **Three years of Teaching Experience** (for Deputed in-Service Candidates i.e. Trained Physical Education Teachers/ Coaches).

The candidate belonging to SC/ST, DT/VJ, NT (A), NT (B), NT(C), NT(D), OBC and SBC categories should produce "Caste Certificate" issued by the Competent Authority and the candidates belonging to ST category should submit "Tribe Validity Certificate" issued by the Scrutiny Committee of Tribal Department along with Caste certificate. Candidates belonging to DT/VJ, NT (A), NT (B), NT(C), NT(D), OBC and SBC should submit Valid Non Creamy Layer Certificate valid upto31st March 2019 as applicable at the time of verification of Documents/Admission. Candidates belonging to SC,DT-VJ, NT-1,2,3, OBC and SBC will have to produce Caste Validity certificate. Candidates belonging to Maharashtra State belonging to above categories having Caste Certificate, Caste Validity and Non-Creamy Layer Certificate as applicable should only apply under respective category, otherwise they should apply under Open-General Category.

2. Fee

The institution shall charge only fee as prescribed by the affiliating body / State government concerned in accordance with provision of N.C.T.E. Guideline and as per University Guidance .

3. 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.

4. The CS System

All programmes shall run on Credit System (CS). 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 liberalization and globalization in higher education.

5. Course

The terms 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/ vocational training/viva / seminars/term papers/assignments/presentations/self-study etc. or a combination of some of these.

6. 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.

- a. Theory Courses
- b. Practicum's
- c. Teaching Practices

7. 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)

8. Working days

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

9. Credits

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 (lecturer 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 128 credits and for each semester, 32 credits.

10. Provision of Bonus credits Maximum 06 Credits in each Semester

Sr. No	Special Credits for Extra Co-Curricular Activities	Credit
1	Sports Achievement at State 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 games)	1
4	Blood donation / Cleanliness drive / Community Services	2
5	Mountaineering- Basic Camp, Advance Camp / Adventure Activities	2
6	Organization / Officiating- State / National level in any two games	2
7	News Reporting / Article Writing / book writing/ progress report writing	1

11. Examinations:

- a. 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.
- b. A candidate should get enrolled / registered for the first semester examination. If enrollment / registration is not possible owing to shortage of attendance beyond condo nation 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.

13. Conduct of Practical Examination

Examiners should be paid local conveyance allowance, remuneration and T.A D.A by the University.

Internal Assessment (Sessional): Practical Activities: The Award of marks shall be on the basis of regularity, initiative, learning aptitude, skill development and proficiency.

Appearance of Examination: Candidates on satisfactorily completing a semester shall apply for examination in all courses of study papers prescribed for that semester.

14. Medium of Examination

The candidates are allowed to answer the question in English / Hindi / Marathi.

Scheme of Examination:

There shall be a university examination at the end of each semester. Examination shall be as follows:

The Scheme of

- **a. Theory:** Each paper shall be valued by University appointed examiner.
- **b. Practicum:** Evaluation in the specialization (game/activity) shall be done by two examiners, one internal and one external as per the following scheme. The average of the two shall be credited.

Sr. No		External Assessment Marks	Internal Assessment Marks
1	Demonstration of skill/techniques/movements	50	10
2	Oral of Rules & Regulations	20	05
3	Officiating	10	05
	Total	80	20
c. i) Sele	ected School subject methods	40 Marks	
ii) P	hysical Education Method	40 Marks	

a) Pattern of question paper setting shall be as per NCTE/ Solapur University norms.

15. Evaluation

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	10 Marks
Seminar / Quiz	5 Marks
Assignments	5 Marks
Total	20 Marks

Attendance shall be taken as a component of continuous assessment, even though 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 20:80. The evaluation of practical work, wherever applicable, will also be based on continuous internal assessment and on the end-semester practical examination.

16. Minimum Passing Standard

The minimum passing standard for CIA (Continuous Internal Assessment) and External Examinations shall be 40% i.e. 08 marks out of 20 marks and 32 marks out of 80 marks respectively for theory courses. The minimum passing for the CIA & external examination shall be 50% i.e. 10 marks out of 20 and 40 marks out of 80 marks for the practical courses.

- i. If the student fail or absent in semester If the student is fail or absent in any theory paper or university practical exam he/she is allow to appear in semester II university examination.
- ii. **If the student who is fail or absent in semester I & II -** theory and practical will be allow to appear semester III University examination, He/ She need not to appear for Internal assessment (theory & practical) of semester I & II.
- iii. **If the student who is fail or absent in semester –I, II, III-** He / She will be given permission in semester IV University examination. He/ She should be passed sem. I,II,&III internal assessment.
- iv. **If the student who is fails or absent in semester I & II**, theory & practical will be given admission in semester III. He / She need not appear for internal assessment (theory & practical) of semester I & II.
- v. **If the student who is fail or absent in semester II & III,** in theory & practical, he/ she is eligible to take admission to the semester IV and he / she can give examination in University Theory & practical together of semester II,III & IV.

17. 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 and the members. This Committee shall solve all grievances of the students.

Choice Based Credit Semester Scheme of B.P.Ed Degree Programme

Semester - I

Part-A: Theoretical Course								
Course Code	Title of the Papers	Total Hour s	Credit	Internal Marks	External Marks	Total Mark s		
CC-101	History, Principles and foundation of Physical Education and Olympic Movement	4	4	20	80	100		
CC-102	Anatomy, Physiology Sports Medicine, Physiotherapy and 4 4 Rehabilitation		20	80	100			
CC-103	Health Education and Environmental Studies	4	4	20	80	100		
CC-104	Methods of Teaching School Subject (Any one of the following subject) Marathi, Hindi, English, History, Geography, Economics, Commerce, Agriculture, Science, Mathematics	4	4	20	80	100		
	Part -B: P	ractical Co	ourse					
PC-101	Track and Field (Runs- Short, Medium, long distance)	6	4	20	80	100		
PC-102	Gymnastics/ Aerobics	6	4	20	80	100		
PC-103	Indigenous Sports: Kabaddi / Kho-Kho /Mallkhambh / Lezim	6	4	20	80	100		
PC-104	Mass Demonstration Activities: dumbbells /Indian club / wands / hoop / Flag/ March past	6	4	20	80	100		
	Total	40	32	160	640	800		

Note: Total Number of hours required to earn 4 credits for each Theory Course are 60-65 hours per semester where as 100-110 hours for each Practicum Course.

Semester - II

Part-A: Theoretical Course							
Course Code	Title of the Papers	Total Hours	Credit	Internal Marks	External Marks	Total Mark s	
CC-201	Yoga Education	4	4	20	80	100	
CC-202	Educational Technology and Methods of Teaching in Physical Education	4	4	20	80	100	
CC-203	Organization, Administration and Sports Management	4	4	20	80	100	
CC-204	Contemporary issues in Physical Education: fitness, wellness, Sports Nutrition and Weight Management	4	4	20	80	100	
	Part -B:	Practical	Course				
PC-201	Tack and Field (Jumping Events)	6	4	20	80	100	
PC-202	Yoga/Zumba	6	4	20	80	100	
PC-203	Racket Sports: Badminton/ Table Tennis /Lawn Tennis	6	4	20	80	100	
	Part - C: 7	Teaching	Practices				
TP- 201 G.L., I.N A. Teaching Practices – School subject (05 Micro and 05 School) University Exam One Lesson B. Teaching practice Physical Lesson (05 Micro and 05 Physical) University Exam One Lesson		6	4	10	40	100	
	Total	40	32	160	640	800	

Note: Total Number of hours required to earn 4 credits for each Theory Course are 60-65 hours per semester where as 100-110 hours for each Practicum Course.

G.L: General lesson pedagogy at school.

I.N: Internship Programme.

Semester - III

Part-A: Theoretical Course							
Course Code	Title of the Papers	Total Hou rs	Credit	Internal Marks	External Marks	Total Mark s	
CC-301	Sports Training	4	4	20	80	100	
CC-302	Computer Applications in Physical Education	4	4	20	80	100	
CC-303	Sports Psychology and Sociology	4	4	20	80	100	
CC-304	Curriculum Design	4	4	20	80	100	
	Part -B: Pra	actical Co	urse		•		
PC-301	Track and Field (Throwing Events)	6	4	20	80	100	
PC-302	Combative Sports: Martial Art/Karate/Judo/Fencing /Boxing/Taekwondo/ Wrestling (Any two out of these)	6	4	20	80	100	
PC-303	Team Games: Football/Softball/Volleyball/Hand ball/Basketball (Any two of these)	6	4	20	80	100	
	Part - C: Tea	ching Pra	ctices				
TP- TP- TP- TP- TP- TP- TOTAL TEACHING Practice: (Teaching Lesson Plans for Racket Sports/Team Games/Indigenous Sports) (out of 04 lessons 02 internal and 02 external at practicing school)		6	4	20	80	100	
	Total	40	32	160	640	800	

Note: Total Number of hours required to earn 4 credits for each Theory Course are 60-65 hours per semester where as 100-110 hours for each Practicum Course.

Semester - IV

	Part-A: Theoretical Course							
Course Code	Title of the Papers	Total Hou rs	Credit	Internal Marks	External Marks	Total Marks		
CC-401	Measurement and Evaluation in Physical Education	4	4	20	80	100		
CC-402	Kinesiology and Biomechanics	4	4	20	80	100		
CC-403	Research and Statistics in Physical Education	4	4	20	80	100		
CC-404	Theory of Sports and game and their officiating and Coaching	4	4	20	80	100		
	Part -B: Pra	ctical Co	urse			L		
PC-401 P.L/I.N	Hurdles & Relays/Swimming	6	4	20	80	100		
PC-402 P.L/I.N	Baseball/Cricket/Hockey/Handball/ Netball /Table Tennis/Lawn Tennis (Any two of these)	6	4	20	80	100		
	Part - C: Teac	hing Pra	ectices		•			
TP- 401	Sports & Games specialization: Class room Teaching lessons Plans (4 lessons)	6	4	20	80	100		
TP- 402	Games specialization:		4	20	80	100		
	Total	40	32	160	640	800		
		160	128	640	2560	3200		

Note: Total Number of hours required to earn 4 credits for each Theory Course are 60-65 hours per semester where as 100-110 hours for each Practicum Course.

P.L : F	Particular	lesson	pedagogy	at school
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☐ I.N: Internship programme.

Practicum regulation scheme T.P.201, T.P. 301, T.P.401, T.P.402 will be the Internal evaluation, the Evaluation is purely based on the attendance, ability of the teacher, and competency in handling the classes (Classroom and Field Coaching, Training). It will be evaluated by the Head Master of the School, Subject Expert form the school, one faculty member from the University/Department /College. The evaluation will be done immediately after the class by the above said committee. The assessment will be done for 70 marks, in each semester as per the regulation.

Lesson:- A minimum of 30 lessons out in the school / college/ institution / department shall be conducted.

Semester	Course Code	Title of the Practical	Internal Work	Marks	External Exam	Marks
		A. Teaching Practices – School subject (05 Micro and 05 School) University Exam One Lesson	(05 Micro and 05 School)	10	1 Lesson Academic	40
II	TP 201	B. Teaching practice Physical Lesson (05 Micro and 05 Physical) University Exam One Lesson	(05 Micro and 05 Physical)	10	1 Lesson Physical	40
III	TP 301	Teaching Practice (Teaching Lesson plans for Rocket Sports / Team /Game/ Indigenous Sport)	Out of 04 lesson 2 internal and 2 external at practicing school	20	1 Lesson	80
IV	TP 401	Sports & Games specialization:- Class room Teaching lessons Plans	One for Sport 4 lesson	20	1 Lesson	80
	TP 402	Game specialization:- Coaching lesson plans	One for Game 4 lesson	20	1 Lesson	80

Structure of Examination

Semester - I

Course Code	Title of the Papers	Internal	Externa l	Total Marks					
	THEORY (400)								
CC-101	History, Principles and foundation of Physical Education and Olympic Movement	20	80	100					
CC-102	Anatomy, Physiology Sports Medicine, Physiotherapy and Rehabilitation	20	80	100					
CC-103	Health Education and Environmental Studies	20	80	100					
CC-104	Methods of Teaching School Subject (Any one of the following subject) Marathi, Hindi, English, History, Geography, Economics, Commerce, Agriculture, Science, Mathematics	20	80	100					
	PRACTICAL (400)								
PC-101	Track and Field (Runs- Sprints, Middle distance, long distance)	20	80	100					
PC-102	Gymnastics/ Aerobics	20	80	100					
PC-103	Indigenous Sports: Kabaddi / Kho-Kho /Mallkhambh / Lezim	20	80	100					
PC-104	Mass Demonstration Activities: Dumbbells /Indian club / Wands / Hoop / Flag/ March past	20	80	100					
	Total	160	640	800					

Semester - II

Course Code	Title of the Papers	Internal Marks	External Marks	Total Marks				
THEORY (400)								
CC-201	Yoga Education	20	80	100				
CC-202	Educational Technology and Methods of Teaching in Physical Education	20	80	100				
CC-203	Organization, Administration and Sports Management	20	80	100				
CC-204	Contemporary issues in Physical Education: Fitness, Wellness, Sports Nutrition and Weight Management	20	80	100				
	PRACTICAL (400)							
PC-201	Tack and Field (Jumping Events)	20	80	100				
PC-202	Yoga/Zumba	20	80	100				
PC-203	Racket Sports: Badminton/ Table Tennis /Lawn Tennis	20	80	100				
	TEACHING PRACTICE (100)							
TP-	Teaching Practices (05 lessons in class room	20	0.0	400				
201	School subject teaching and 05 lessons in outdoor activities)	20	80	100				
	Total	160	640	800				

Semester - III

Course Code	Title of the Papers	Internal	External	Total Marks				
	THEORY (400)							
CC-301	Sports Training	20	80	100				
CC-302	Computer Applications in Physical Education	20	80	100				
CC-303	Sports Psychology and Sociology	20	80	100				
CC-304	Curriculum Design	20	80	100				
	PRACTICAL (300)							
PC- 301	Tack and Field (Throwing Events)	20	80	100				
PC- 302	Combative Sports: Martial Art/Karate/Judo/Fencing/Boxing/Taekwondo/ Wrestling (Any two out of these)	20	80	100				
PC- 303	Team Games: Football/Softball/Volleyball/Handball/Basketball (Any two of these)	20	80	100				
	TEACHING PRACTICE (100)							
TP- 301	Teaching Practice: (Teaching Lesson Plans for Racket Sports/Team Games/Indigenous Sports) (out of 10 lessons 5 internal and 5 external at practicing school)	20	80	100				
	Total	160	640	800				

Semester - IV

Course Code	Title of the Papers	Internal Marks	External Marks	Total Marks	
	THEORY (400)				
CC-401	Measurement and Evaluation in Physical Education	20	80	100	
CC-402	Kinesiology and Biomechanics	20	80	100	
CC-403	Research and Statistics in Physical Education	20	80	100	
CC-404	Theory of Sports and game and their officiating and Coaching	20	80	100	
	PRACTICAL (200)				
PC-401	Hurdles & Relays/Swimming	20	80	100	
PC-402	Baseball /Handball/Netball/ Hockey /Cricket /Table Tennis/Lawn Tennis(Any two of these)	20	80	100	
TEACHING PRACTICE (200)					
TP- 401	Teaching Practices (05lessons in class room teaching and 05 lessons in outdoor activities)		80	100	
TP- 402	Game Specialization Coaching lessons: Kabbadi/Kho-Kho/Baseball/Cricket/Football/Hockey/Softball/Voball/Handball/Basketball/Netball/Badminton/Table Tennis/Lawn Tennis (Any of one out of these)		80	100	
	Total	160	640	800	

The course curriculum is of 3200 marks, Total Credits:-128

Pattern:- Two Year Semester pattern

01 Credit = 25 Marks

For Theory, 01 Credit =15 Periods For Practical, 01 Credit =24 Periods

Table -1: Semester wise distribution of hours per week

Semester	Theory	Practicum	Teaching Practice	Total
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

B.P.Ed., Programme Outline of Syllabus Semester -I

Theory Courses

Credits: Theory:- 4

CC-101 HISTORY, PRINCIPLES AND FOUNDATION OF PHYSICAL EDUCATION AND OLYMPIC MOVEMENTS

Total Theory Lectures:- 60

Unit-1: Introduction			
#	Meaning, Definition and Scope of Physical Education		
#	Aims and Objective of Physical Education		
*	Importance of Physical Education in present era.		
#	Misconceptions about physical Education.		
*	Relationship of Physical Education with General Education		
#	Physical Education in India.		
Unit-	-2 Awards in Physical Education and Sports		
<u> </u>	Padmashri , Padmabhushan & Padmavibhushan Awards		
=	Arjun Award		
*	Dhronacharya Award		
#	Rajiv Gandhi khel Ratna Award		
#	Shri Chhatrapati Award		
Unit-3: Foundation of Physical Education and Principles of Physical Education			
#	Philosophical Foundation.		
***	Idealism, Pragmatism, Naturalism, Realism, Humanism, Existentialism, and Indian		
Philo	sophy and Culture.		
=	Fitness and Wellness movement in the contemporary perspectives.		
*	Sports for all and its role the maintenance and promotion of fitness.		
Biol	logical		
	Growth and development		
	Age and gender characteristics Body Types		
	Anthropometric differences		
Psy	chological		
	Learning types, learning curve		
	Laws and principles of learning		
	Attitude, interest, cognition, emotions and sentiments		
Sociological			
	17		

	Society and culture
	Social acceptance and recognition
	Leadership
	Social integration and cohesiveness
Unit-	4: Different Olympics Games and Committees of Olympics' Games
	Significance of Olympics Ideals Olympic Rings And Flag
	The early history of the Olympic Movement
	Para Olympic Games
	Youth Olympic Games
	International Olympics Games Structure and Functions
	National Olympics Committees and their role in Olympics Movement
	Sport's for All

Reference:

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. (Maharashtra)

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Burbank, J.M. Andranovich, G.D. & Heying Boulder, C.H. (2001) Olympic dreams; the impact fo mega events on local politics; Lynne Reinner

http://www.olympic.org/olympism-in-action.

Semester -I

CC-102: ANATOMY, PHYSIOLOGY, SPORTS MEDICINE, PHYSIOTHERAPHY AND REHABILITATION

Credits: Theory:- 4 Total Theory Lectures:- 60

Unit-1: Introduction

- Brief introduction of Anatomy and Physiology.

 Need and importance of anatomy and physiology
- Meaning and definition of Sorts medicine, Physiotherapy and Rehabilitation
- Need and importance of Physiotherapy and Rehabilitation Guiding principles of Physiotherapy

Unit-2: Body Systems and Effect of Exercise on Various Systems

	small intestine
	Respiratory system – Organs of respiratory system internal and external Respiration, vital capacity, Oxygen debt and second wind.
	Circulatory system – its Organs, general circulation of blood, function of blood, Blood pressure, coagulation of Blood.
*	Muscular system – Classification, Types and Muscular contraction, Muscle fatigue, Muscle Pull, Muscle cramp.

Unit-3: Sports Medicine

- Meaning and concept of sports medicine.
- Aim and objective of sports medicine
- Common regional injuries, causes, prevention and their management –
 shoulder, elbow, wrist, knee and ankle
- Doping Types of Doping, agents, effects, dope test and sanctions.

Unit-4: Introduction

- Rehabilitation in sports Meaning, principles, means and methods
- ★ Diagnosis of injuries signs and symptoms of injuries.
- Different forms of Hydrotherapy the Thermotherapy hot and could packs, whirlpool, contrast bath, infrared, short wave diathermy and ultrasound.
- First aid meaning, Fracture, Types of Fracture, First Measure of Fracture,

 Artificial Respiration, Types and Method, Essential Material in First aid box.
 - Massage Meaning, Types of classification, general principles of massage

Reference:

D. (1979), A Christine, M.D. (1999) Physiology of Sports and Exercise, USA: Human Kinetics.

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Sharma, R.D. (1979). Health and Physical Education, Gupta Prakashan. Singh, S. (1979). Anatomy and Physiology and Heralth Education. Ropar: Jeet Publications.

Semester -I

CC-103: HEALTH EDUCATION AND ENVIRONMENTAL STUDIES

Credits : Theory:- 4 Total Theory Lectures:- 60

Unit-1: Health Education

- Concept, Dimensions, Spectrum and Determinants of Health
- Definition of Health, Health Education, Health Instruction, Health Supervision
- Aim, objective and Principles of Health Education
- Health Service and guidance instruction in personal hygiene

Unit-2: Health Problems in India

- Communicable and Non Communicable Diseases
- Obesity, Malnutrition, Adulteration in food, Environmental sanitation, Explosive Population.
- Personal and Environmental Hygiene for schools
- Bobjective of school health service, Role of health education in schools
- Health Service Care of skin, Nails, Eye health service, Nutritional service, Health appraisal, Health record, Healthful school environment, first aid and emergency care etc.,

Unit-3: Nutrition and Food

- Components of Food
- Caloric Value of Food items.
- Daily replacement of Food.
- Balanced Diet , Athlete Diet
- Under Nutrition & Malnutrition.
- **★** Food habits, constipation & indigestion.

Unit-4: Natural Resources and related environmental issues:

- Water resources, food resources and Land resources
- Definition, effects and control: measures of Air Pollution, Water Pollution, Soil Pollution, Noise Pollution, Thermal Pollution.
- Management of environment and Govt. policies, Role of Pollution Control Board.

Reference:

Agrawal, K.C. (2001). Environmental Biology, Bikaner: Nidhi Publishers Ltd.,

Frank, H.& Walter, H., (1976). Turners school health education, Saint Louis; The C.V. Mosby Company.

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.

Semester -I

cc-104: Methods of Teaching School Subject

(Any one of the following subject) Marathi, Hindi, English, History, Geography, Economics, Commerce, Agriculture, Science, Mathematics

PAPER NO. IV

METHODS OF THE SCHOOL SUBJECT

Each School Subject Credits: Theory:- 4

Total Theory Lectures:- 60

(Any one of the following school subject)

- 1) Marathi 2) Hindi
 - 3) English
- 4) History
- 5) Geography

- 6) Economic 7) Science
- 8) Commerce 9) Agricultural
- 10) Mathematics

MARATHI METHODOLOGY

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- 2) ÃÖÖ′ÖÖוÖ Ú ¾Ö ÃÖÖÓà ÉÚןÖ Ú ¾ÖָܿµÖÖÓ"µÖÖ ÖÏÃÖÖ¸Ü ÖÖ"ÖÊ ÃÖÖ¬Ö-Ö.
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- U) »ÖÊ Ö-Ö x¾Ö ÚÖÃÖ.
- **‡)** 3ÖÖÂÖ Ŏ, ŌŌŚŪŌÓŶŎ,Ũ, ŌĀĀŶŎſĸŎĖ Ŏ-Ŏ, ¿Õ¬¤Ũ»ÔĖ Ö-Ö‡.

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BOOKS RECOMMENDED:

- 1) ´Ö¸ÜÖŠÜß"ÖÊ †¬µÖÖ¯Ö-Ö ÖÏÖ.ÃÖÖÎ. Ú»µÖÖ Öß ‡Ó¤ÆÜ¸Ü Ú¸Ü.
- 2) 'Ö¸ÜÖšÜß"ÖÊ †¬µÖÖ¯Ö-Ö ÁÖß. † ÚÖÊ»Ö Ú¸Ü / ÁÖß. ¯ÖÖ™Ü Ö Ú¸Ü.

HINDI METHODOLOGY

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- 2) ÃÖÓ³ÖÖÂÖÖ |
- 3) »ÖÊ Ö-Ö-×»Ö×±Ú, ¯Ö׸Ü"ÖµÖ, ¿Öì¤Ü»ÖÊ Ö-Ö, ÆÜßÖÖ Ö¸Ü, ÁÖßÖ»ÖÊ Ö-Ö |
- 4) ¾ÖÖ"Ö-Ö-′ÖÖÎ× Ö Ú, ′ÖÖÎ-Ö, ÃÖà ′Ö, ÖÏÓ£ÖÖ»ÖµÖ ¾ÖÖ"Ö-Ö |
- 5) Ö^a ÚÖ †¬μÖÖ¯Ö-Ö |
- 6) Ö² ÚÖ †¬µÖÖÖÖ-Ö |
- 7) Ü"Ö-ÖÖ ´ÖÖÎ× Ö Ú †ÖÎÜ ×»Ö× ÖŸÖ †¬µÖÖ¯Ö-Ö |

- 8) ¾μÖÖ Ú¸Ü Ö ÚÖ †¬μÖÖ¯Ö-Ö |
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BOOKS RECOMMENDED:

- 1) ØÆÜ¤Üß †¬µÖÖ¯Ö-Ö ÖÏÖ. ²Ö. ²Öß. ÖÓכܟÖ.
- 2) ØÆÜ¤Üß †¬μÖÖ¯Ö¬Ö ¯Ö¬¤ÜŸÖß ¯ÖÏÖ. ²ÖÖ. ÃÖ. ²ÖÖʲÖÊ.
- 3) ØÆÜ¤Üß †Ö¿ÖµÖµÖÃŒŸÖ †¬µÖÖ¯Ö¬Ö ¯Ö¬¤ÜŸÖß ›ÜÖÒ. ¯ÖŠÜÖ Ö ²Öß. ²Öß. (¬ÖßÖ¬Ö ¯ÖÏ ÚÖ¿Ö¬Ö, ¯Öà ÖÊ)

ENGLISH METHODOLOGY

Syllabus:

Unit 1 A) Place of English in curriculum:

- 1) Place of English as a Foreign Language in the school curriculum, three languages formula.
- 2) Importance of English in the present set up-the role of English as an international language, as a library language as a second language in a multilingual society etc.
- 3) Correlation of English language within the subject and with other subject.

B) Aims and objectives of teaching English:

- 1) Aims and objective of teaching English as a second language.
- 2) Classroom (Instructional) objective of teaching English and their specifications English as a skill subject: developing language skills listening with comprehension speaking, reading and writing.
- 3) Objectives of the subject as given in the syllabus of Maharashtra State Board of secondary and Higher Secondary educational.

Unit 2 A) The nature of English:

- 1) The nature of English Language. Its vocabulary, structures speech, sound, stress and intonation.
- 2) Pronunciation-expected standard.
- 3) The use of phonetics.
- 4) The problem of spelling.
- 5) The principles of language study.

B) Methods, Devices and Techniques of teaching English:

- 1) Methods: Grammar translation, Direct, Dr. Vest's new structural approach Bilingual approach, electric.
- 2) Devices: Narration, Questioning, explanation, illustration, dramatization, drilling.
- 3) Techniques: Discussion, assignment, supervised study.

Unit 3 A) Learning Experiences and Teaching, Aids:

- 1) Learning Experiences, Listening with comprehension, speech practice, practice in reading aloud, silent reading, writing, recitation, using various aids and activities.
- 2) Teaching aid and instructional materials: Pictures, flashcards for reading with stress and intonation, sentence cards, projectors, guided composition, radio, T.V. linguaphone, tape recorder, language laboratories.
- 3) Co-curricular activities: Debate, language games, class magazine, collection of proverbs-idioms-poems, dramatization, Essay competition, wall news-paper etc.

B) Teaching various aspects of English:

- 1) Teaching at the initial stage.
- 2) Teaching of Prose: Textbooks, vocabulary and structures used differences between reader and text-book, supplementary readers, the use of library methods and techniques of teaching prose content.
- 3) Teaching of poetry: The place of poetry in teaching English. Objective of Teaching poetry, selection of poems, methods and techniques of teaching poetry.
- 4) Teaching of grammar: The place grammar, Formal and functional grammar, methods and technique of teaching grammar and structures.
- 5) Teaching writing: Mechanics of writing, methods of teaching script composition and correction of composition. The place of translation and paragraphs in the English teaching and their methods.
- 6) Teaching reading: Objectives and methods of teaching reading types of reading intensive, extensive reading aloud-silent reading. Developing oral skills. Pronunciation. Vowels, consonants and stress.

Unit 4 A) Evaluation:

- 1) Oral and written test, types of questions.
- 2) Unit test: concept and construction.
- 3) Diagnostic test and remedial teaching.

B) The English Teacher:

- 1) Qualification and essential qualities of a teacher English.
- 2) Professional growth of the teacher, awareness of innovative practices and their implications.
- 3) English teachers association: Need and programmes.

Practicum: (Any one of the following)

- 1) Critical study of any textbook of English.
- 2) Unit plan and unit test on any unit.
- 3) Project on a chosen theme.
- 4) Critical evaluation of any five T.V. lessons in teaching of English.
- 5) To prepare a diagnostic test on any unit in English.

Books Recommended:

1) English Methodology.

HISTORY METHODOLOGY

Unit 1 A) Place of History in curriculum:

- 1) History: Meaning and scope with special reference to modern concept to History.
- 2) Kinds of History.
- 3) Place and importance of History in the school curriculum and in human life.
- 4) Correlation: Correlation of the subject with other school subject.

B) Aims and objectives of teaching History:

- 1) Aims, objectives and values of teaching History at secondary level of education.
- 2) Instructional objectives of teaching History with their specification.
- 3) Objective of the subject as given in the present curriculum in Secondary school.

Unit 2 A) Methods, Devices and Techniques of History:

- 1) Methods: story, narration, source, project discussion dramatization, lecturer textbook, Dalton plan.
- 2) Devices Question and answer, description, dramatization, narration explanation homework, etc.
- 3) Technique : Discussion assignment, supervised study, team teaching computer programmer etc.
- 4) Maxims of teaching as applied to the teaching of History.

B) Learning Experience and Instructional Materials:

- 1) Learning experience: direct and indirect as well as verbal and non-verbal learning experience helpful in teaching of history, use of various instructional materials and activities.
- 2) Instructional materials and aids: Instructional Materials: Text Book, supplementary reading materials, workbook, general reference material, advance book on history instructional materials for teacher's such as teacher's handbook and manuals.
- 3) Teaching Aids pictures maps. Charts. Periodicals, timeline and time chart slides, filmstrips, Models, boards, projectors, radio, tape-recorder. T.V. vide motion pictures.
- 4) Co-curricular activities: importance and organization of relevant curricular and co-curricular activities such as debates, collections, excursion. Dramatization. Role of history, club exhibition, museum, visits and essay competitions.

Unit 3: Evaluation:

- 1) Evaluation procedures used in teaching and learning of history, types of examination and administration.
- 2) Unit Test: construction and administration.
- 3) Diagnostic approach and remedial teaching in History.

Unit 4: History:

- 1) Qualification and qualities of History teacher.
- 2) Professional training and growth of the teacher.
- 3) History teacher organization: its contribution to professional competencies.

Practicum: (Any one of the following)

- 1) To prepare a diagnostic test on any unit in History.
- 2) To prepare a wallpaper on any unit in History.
- 3) To organize any one co-curricular activity in school related to History teaching.
- 4) Historical tour and its report.
- 5) To prepare unit plan and written-test on any unit in History.
- 6) Project on a chosen theme.

Books Recommended:

- 1) ‡×ŸÖÆÜÖÃÖ †¬µÖÖ¯Ö¬Ö Ö¬¤ÜŸÖß ÖÏÖ. ‹ÃÖ. ‹´Ö. ןÖ¾ÖÖ¸Üß
- $2) \qquad \\ + \times \mathring{\mathsf{V}} \ddot{\mathsf{O}} \ddot{\mathcal{A}} \ddot{\mathsf{O}} \ddot$

GEOGRAPHY METHODOLOGY

Unit 1 A) Place of Geography in curriculum:

- 1) Geography: Meaning, scope, distribution and description of earth. Study of the landscape, distribution on earth. Study of causal relationship. Study of spatial relationship, earth as a home of Man, the interaction with man and his environment, etc. grammar of Geography.
- 2) The people and importance of geographical in school curriculum.
- 3) Correlation of Geography within the subject and other school subject.

B) Aims and Objectives of Teaching Geography:

- 1) Aims and objectives of teaching Geography at Secondary level of education.
- 2) Instructional objectives of teaching Geography with their specification.
- 3) Objectives of the subject as given in the present curriculum in secondary school.

Unit 2 A) Methods, Devices and techniques of teaching Geography:

- 1) Methods: Story, lecture observation, journey, object, original comparative, project and laboratory.
- 2) Devices and techniques of teaching: question-answer, description, narration explanation, discussion, map reading, map making, fieldwork, assignment, supervised study, modern trends and techniques.
- 3) Maxims of teaching as applied to the teaching of Geography.

B) Learning Experience and Instructional Materials:

- 1) Learning Experiences: Direct and Indirect as well as verbal and non verbal learning experiences helpful in teaching of Geography, use of the various instructional materials and activities.
- 2) Instructional Materials and Aids: Text books, Teachers handbook, workbook atlases, different types of maps, globe, charts, graphs, models, specimens, pictures, films, slides, filmstrips, different types of projectors epidiascope radio. Video, magazines. Newspapers. Meteorological instruments.
- 3) Co-curricular activities, Geography club, geography fair, exhibitions wallpaper, museum, visits and excursions.
- 4) Geography Room: Importance and utilization.

Unit 3: Evaluation:

- 1) Evaluation procedures used in teaching and learning of Geography, types of examination and types of questions.
- 2) Units test: construction and administration.
- 3) Diagnostic testing and remedial measures in teaching in Geography.

Unit 4: History:

- 1) Qualification and qualities of Geography teacher.
- 2) Professional growth of a Geography teacher.
- 3) Geography teacher organization and its contribution to professional competencies of the teacher.

Practicum: (Any one of the following)

- 1) To prepare a diagnostic test on any unit in Geography.
- 2) To prepare a wallpaper on any unit in Geography.
- 3) To organize any one Co-curricular activity in school related to Geography teaching.
- 4) Geographical tour and its report.
- 5) Project on a chosen theme.
- 6) To prepare unit plan and unit test on any unit in Geography.
- 7) Critical evaluation of any five T.V. lesson in Geography.

Books Recommended:

- 1) ³ÖÆ ÖÖÊ»Ö †¬µÖÖÖÖ-Ö Ö¬¤ÜŸÖß ÖÏÖ. ›Üß. ²Öß. ÖÖË ÖÃÖÊ
- 2) ³ÖÆ ÖÖÊ»Ö †¬µÖµÖ−Ö ¾Ö †¬µÖÖ¯Ö Ú ¯ÖÏÖ. ²Öß. •Öß. ²ÖÖ¯Ö™Ü
- 3) ³ÖÆ ÖÖÊ»Ö †Ö¿ÖµÖµÖÃŒŸÖ †¬µÖÖ¯Ö-Ö ›ÜÖÒ. ÃÖà ÖÏß¾Ö ÖÖʸÊÜ

ECONOMIC METHODOLOGY

Unit 1 A) Place of Economic in curriculum:

- 1) Aims and general objectives of teaching economic at secondary school level.
- 2) Objectives of the subject as given in the present school.
- 3) Instructional objectives of teaching Economic with their specification.

B) Aims and objectives of Teaching Economic:

- 1) Aims and general objectives of teaching Economics at Secondary school level.
- 2) Objectives of the subject as given in the present school curriculum.
- 3) Instructional objectives of teaching Economic with their specification.

Unit 2 A) Methods, Devices and techniques of teaching Economic:

- 1) Methods: lecture, project, survey, problem solving, discussion seminars symposium, inductive deductive, unit.
- 2) Devices and techniques of teaching: Questioning, narration, observation, Clarification, assignment, demonstration, drill etc.
- 3) Maxims of teaching as applied to the teaching of Economic.

B) Learning Experience and Instructional Materials:

- 1) Learning Experiences: Direct and Indirect as well as verbal and non-verbal learning experiences, use of instructional materials and activities teaching economics.
- 2) Instructional Materials and Aids : Text books, magazines, Newspapers. Teacher handbooks.
- 3) Co-curricular activities, Economic club, exhibitions wallpaper, talks by experts symposium etc.

Unit 3 A) Teaching of various aspects of Economic:

- 1) Economics, as an art and a science, Economical language.
- 2) Economical, writing, Historical economics, Geographical.
- 3) Economics, Business economic, National economic, Statistical.
- 4) Economics, Micro-Economic, Agro economic, Economic of the developed and underdeveloped countries.

B) Evaluation:

- 1) Evaluation procedures used in teaching and learning of Economic, types of examination and types of questions.
- 2) Units test: construction and administration.
- 3) Diagnostic approach and remedial teaching in Economic.

Unit 4: Economic Teacher:

- 1) Qualification and essential qualities economics teacher.
- 2) Professional growth of a Economic teacher.
- 3) Economic teachers association and its contribution to professional competencies of the teacher.

Practicum: (Any one of the following)

- 1) To prepare a diagnostic test on any unit in Economics.
- 2) To prepare a wallpaper on any unit in Economics.
- 3) To organize any one co-curricular activity in school related to Economics teaching.
- 4) Project on a chosen them Economics.
- 5) To prepare unit plan and unit test on any unit in Economics.

Books Recommended:

1) †£ÖÔ¿ÖÖáÖ †¬µÖÖ¯Ö−Ö ¯Ö¬¤ÜŸÖß - ¯ÖÏÖ. ÖߟÖÖ¤ÊܾÖß ¯ÖÖ™Üß»Ö.

COMMERCE METHODOLOGY

Unit 1 A) Place of Commerce in curriculum:

- 1) Commerce: importance of commerce education in school curriculum.
- 2) Place and importance of commerce education in school curriculum.
- 3) Correlation to commerce subject with other subject and within the subject.

B) Aims and objectives of Teaching Commerce:

- 1) Aims and general objectives of teaching Commerce.
- 2) Objectives of the subject as given in the present school curriculum.
- 3) Instructional objectives of teaching Commerce with their specification.

Unit 2 A) Curriculum and textbook in commerce:

- 1) Importance of curriculum and criteria of a good curriculum, Nature of the syllabus, Hierarchy and structure of the subject.
- 2) Critical study of the present courses in commerce with reference to principles of curriculum construction at secondary level.
- 3) Characteristic of a good textbooks and critical analysis of the prescribed textbook.
- 4) Content analysis: concept and process.

B) Methods, Devices and techniques of Commerce teaching:

- 1) Various approaches in teaching: Historical, seminar, project practice, Cost study.
- 2) Methods: lecture, discussion, observation (Survey) problem solving, project, Inductive deductive, demonstration. Unit text book etc.
- 3) Devices and techniques: Question answer, narration, assignment, illustration, explanation, and supervised study.
- 4) Maxims of teaching as applied to the teaching of Commerce.

Unit 3 A) Learning Experience and Instructional Materials:

- 1) Learning Experiences: Direct and Indirect as well as verbal and non-verbal learning experiences helpful in teaching of commerce. Use of instructional materials and activities.
- 2) Instructional Materials and Aids: models, pictures maps, sketches. Graphs diagrams, charts, tables, boards, newspapers. Journals. Periodicals, radio. T.V., Tape recorder, slides, filmstrips, films and various projects epode scope etc.
- 3) Co-curricular activities, Co-operative stores, school bank activity club exhibition, forum visits and excursions, symposium seminar etc.
- 4) Commerce room: need and enrichment.

B) Teaching of various aspects of Commerce:

Economic, industrial historical, statistical, agricultural-national, international commerce in under developed and developed countries.

Unit 4 A) Planning and Organization of teaching:

- 1) Year plan
- 2) Unit plan
- 3) Lesson plan
- 4) Various types of lesson as per requirement of the class.

Evaluation:

- 1) Evaluation procedures used in commerce teaching, types of examination and types of questions.
- 2) Units test: construction and administration.
- 3) Diagnostic testing and remedial instruction in teaching of commerce.

B) Commerce Teacher:

- 1) Qualification and qualities commerce teacher.
- 2) Professional training and growth of a teacher.
- 3) Commerce teachers organization and its contribution in professional development of the teacher.

Practicum: (Any one of the following)

- 1) Preparation of a diagnostic test on any unit in commerce.
- 2) Preparation of an unit plan and unit test on any unit in commerce.
- 3) Project on a chosen them.
- 4) Preparation of a wallpaper any unit in commerce.
- 5) To organize any one-curricular activity in school related to commerce teaching.

AGRICULTURE METHODOLOGY

Unit 1 A) Place of Commerce in curriculum:

- 1) Agriculture concept, meaning, nature and scope.
- 2) Place and importance of Agriculture subject in school curriculum.
- 3) Correlation to Agriculture subject with in other subject & with other school subject.

B) Aims and objectives of Teaching Agriculture:

- 1) Aims and general objectives of teaching Agriculture in secondary school.
- 2) Objectives of the subject as given in the present school curriculum.
- 3) Instructional objectives of teaching Agriculture with their specification.

Unit 2 A) Curriculum and textbook in Agriculture:

- 1) Importance of curriculum and criteria of a good curriculum, Nature of the syllabus, Hierarchy and structure of the subject.
- 2) Critical study of the present courses in Agriculture with reference to principles of curriculum construction at secondary level.
- 3) Characteristic of a good textbooks and Agriculture Teaching.
- 4) Content analysis: concept and process.

B) Methods, Devices and techniques of Agriculture teaching:

- 1) Methods: lecture, demonstration, Inductive deductive. Heuristic. Project experimental, historical.
- 2) Devices and techniques: Question answer, narration, assignment, illustration, explanation, and supervised study.
- 3) Maxims of teaching as applied to the teaching of Agriculture.

Unit 3 A) Learning Experience and Instructional Materials:

- 1) Learning Experiences: Direct and Indirect as well as verbal and non-verbal learning experiences helpful in teaching of agriculture. Use of instructional materials and activities.
- 2) Instructional Materials and Aids : need. Characteristics and uses of different charts graphs. Diagrams boards, slides, filmstrips, films, variety of project etc.
- 3) Co-curricular activities, debate exhibition, forum, club exhibition, forum, club, excursions symposium, seminars etc.

B) Teaching of various aspects of Agriculture :

- 1) Soil Tillage
- 2) Animal Husbandry
- 3) Horticulture and crop cultivation.

Unit 4 A) Planning and Organization of teaching:

- 1) Year plan
- 2) Unit plan
- 3) Lesson plan
- 4) Various types of lesson as per-requirement of the class.

Evaluation:

- 1) Evaluation procedures used in agriculture teaching, types of examination and types of questions.
- 2) Units test: construction and administration.
- 3) Diagnostic testing and remedial instruction in teaching of Agriculture.

B) Agriculture Teacher:

- 1) Qualification and qualities Agriculture teacher.
- 2) Professional growth and training of a teacher.
- 3) Agriculture teacher's organization and its contribution in professional development of the teacher.

Practicum: (Any one of the following)

- 1) Preparation of a diagnostic test on any unit in Agriculture.
- 2) Project on a chosen theme.
- 3) Preparation of a wallpaper on any unit in Agriculture.
- 4) To organize any one-curricular activity in school related to Agriculture teaching.

SCIENCE METHODOLOGY

Unit 1 A) Nature, scope, importance and Place of Science:

- A) 1) Concept, meaning, nature and scope of science.
 - 2) Place of science in Secondary school curriculum
- B) Correlation of science within the subject and with other subject.
- C) Characteristics a Good text book of Science.

B) Aims and objectives of Teaching Science:

- 1) Aims of teaching science.
- 2) Objective of teaching science as prescribed in secondary school curriculum of the Maharashtra state.
- 3) Instructional objectives of teaching at secondary level.
- 4) Teaching of science for development of scientific attitude.

Unit 2 A) Methods, Devices and techniques of Science teachings:

- 1) Methods: lecture, demonstration, Experimental, Heuristic Project.
- 2) Devices and techniques: Question Explanation, illustration, supervised study, narration, assignment, observation and dramatization.
- 3) Maxims of teaching.

B) Learning Experience, Teaching Material and support system for teaching learning.

- 1) Classification of learning experience: Direct and Indirect, Verbal and non verbal relation between learning experience and learning outcomes.
- 2) Instructional Materials and Aids: Projected aids and non projected aids i.e. charts, diagrams, models boards, graphs, slides, overhead projector, tape recorder, radio, T.V., V.C.R. and computer.
- 3) Co-curricular activities : Science club, Science museum science fair, visit aquarium, exhibitions, observation of the sky school gardening.
- 4) Science laboratory Need, design, equipments, management, safety and precaution any measures.

Unit 3 A) Planning for learning and Teaching:

1) Preparation of the year plan, unit plan & daily lesson plan.

B) Teaching of various aspects of Science:

- 1) Physics: Friction, density, specific gravity pressure, equilibrium, center of gravity, electricity.
- 2) Chemistry: Atomic and molecular weight periodic table, oxidation reduction, isotopes, bonds, chemical reactions.

3) Biology: Photosynthesis, plant system, human body system, classification of plants & animals health, hygiene and balanced food, natural cycle pollution.

Unit 4 A) Evaluation:

- 1) Examination Types of examination, types of questions.
- 2) Type of test Achievement, diagnostic test
- 3) Remedial teaching.

B) The Teacher:

- 1) Essential qualification & qualities of science teacher.
- 2) Professional growth of science teacher, science teacher organization and its role in professional development.

Books Recommended:

- 1) Kohli V.K. (1982) How to teach science Ambaly city, vivek publisher.
- 2) Das R.C. (1985) Science teaching in school, Delhi sterling publishes.
- 3) Dr. R.C. Sharma & Dr. C.S. Shukla: Modern science teaching Dhanpal Ras publishing company New Delhi.
- 4) ¯ ÖÏÖ"ÖÖμÖÔ ›ÜÖÒ. ÆÜ. ¬ÖÖ. •Ö ÖŸÖÖ¯Ö- **x**¾Ö–ÖÖ-Ö †¬μÖÖ¯Ö-Ö ¯Ö¬¤ÜŸÖß.
- 5) ὑ¤ÜŸÖ "ÖÖ. ¯Ö., ²ÖÖˤÜÖλÌÜ ÊÚ. ‹ÃÖ.- ¿ÖÖÄ¡Ö †¬μÖÖ¯Ö¬Ö ¯Ö¬¤ÜŸÖß, ¬ÖÆŸÖ¬Ö ¯ÖĬ ÚÖ¿Ö¬Ö, ¬ÖÄ ÖÊ 1980
- 6) †-ÖÖ,ÜÃÖÊ, פÜ'ÖÊ, ÖÖ™Ü Ö Ú,Ü (1974)- ¿ÖÖÃ;Ö †¬µÖÖÖÖ-Ö Ö¬¤ÜŸÖß, -ÖÆŶÖ-Ö ÖÖİ ÚÖ¿Ö-Ö, Öà ÖÊ.
- ⁷) ÖÏÖ. ÖϳÖÖ Ú¸Ü ÆÜ Úß Ö- x¾Ö–ÖÖ-ÖÖ"ÖÊ †¬μÖÖ¯Ö-Ö.
- 8) ÖÏÖ. ÊÚ. •Öß. —ÖÖÓ²Ö, ÊÜ- x¾Ö–ÖÖ-Ö x¾ÖÂÖµÖ –ÖÖ-Ö ¾Ö †¬µÖÖ-Ö -Ö ¬¤ÜŸÖß.

MATHEMATICS METHODOLOGY

Unit 1 A) Nature, scope, importance and place of Mathematics :

- A) 1) Concept, meaning, nature and scope of Mathematics
 - 2) Place of Mathematics in Secondary school curriculum
- B) Correlation of Mathematics within the subject and with other subject
- C) Characteristics a Good textbook of Mathematics.

B) Aims and objectives of Teaching Mathematics:

- 1) Aims & objectives of teaching Mathematics at secondary school.
- 2) Objective of teaching Mathematics as given in the secondary school curriculum of the Maharashtra state.
- 3) Instructional objectives of teaching Mathematics of their specification at secondary level.

Unit 2 A) Methods, Devices and techniques of Mathematics teaching:

- 1) Methods: Inductive & deductive Experimental, Analytical & synthetically, Heuristics, Discovery.
- 2) Devices and techniques: Question Explanation, illustration, supervised study, assignment, home work, oral and written drill, self study, review and revision.
- 3) Maxims of teaching as applied to teaching mathematics.

B) Learning Experience, Teaching Material and support system for teaching learning.

- 1) Classification of learning experiences: Direct and Indirect, Verbal and non verbal learning experience helpful in teaching of mathematics.
- 2) Instructional Materials and Aids: Projected aids and non projected aids i.e. charts, diagrams, models boards, slides, filmstrips, overhead projector, variety of projectors, tape recorder, radio, T.V. V.C.R. and computer.
- 3) Co-curricular activities: Mathematics club, visit, exhibitions, seminars etc.

Unit 3 A) Planning for learning and Teaching:

Preparation of the year plan, unit plan & daily lesion plan.

B) Teaching of various aspects of Mathematics:

- 1) Arithmetic's Fractions, simple & compound interest, profit & loss, percentage,
- 2) Algebra Graphs, H.C.F., L.C.M.
- 3) Geometry Three stages of teaching Geometry, Basic concepts in Geometry, plant line, angle triangle.
- 4) Trigonometry trigonometric rations, problems in height & distance.

Unit 4 A) Evaluation:

- 1) Examination Types of examination, types of question.
- 2) Type of test Speed & accuracy, Achievement, diagnostic test.
- 3) Remedial teaching.

B) The Teacher:

- 1) Essential qualification & qualities of mathematics teacher.
- 2) Professional growth of Mathematics teacher, organization and its role in professional development.

Books Recommended:

1) ¯ÖÏÖ"ÖÖμÖÔ ›ÜÖÒ. ÆÜ. −ÖÖ. •Ö ÖŸÖÖ¯Ö- Ö× ÖŸÖ †¬μÖÖ¯Ö-Ö ¯Ö¬¤ÜŸÖß.

Theory Courses

CC-201 YOGA EDUCATION

Credits: Theory:- 4 Total Theory Lectures:- 60

Unit-I: Introduction

- Meaning and Definition of Yoga
- Aims and Objectives of Yoga
- Yoga in Early Upanisads
- The Yoga Sutra; General Consideration
- Need and Importance of Yoga in Physical Education and Sports
- Role of Yoga in total health.

Unit-II: Foundation of Yoga

- 🗯 School of Yoga
- ₹ The Astanga Yoga: Yama, Niyama, Asana, Pranayama, Pratyahara, Dhyana and Samadhi
- Yoga in the Bhagavadgita Karma Yoga, Raj Yoga, Jnana Yoga and Bhakti Yoga
- Yogic Diet

Unit-III: Asanas

- Effect of Asanas and Pranayama on various systems of the body
- Classification of asanas with special reference to physical education and sports
- Influences of relaxative, meditative postures on various systems of the body
- Types of Bandhas and mudras
- Types of Pranayama
- Type of kriyas

Unit-IV: Yoga Education

- Basic, applied and action research in Yoga
- ➡ Difference between yogic practices and physical exercises
- Yoga education centers in India and abroad
- Competitions in Yogasanas
- International Yoga Day

Unit-V: Yoga Education

Suryanamaskar – Method of Suryanamaskar-Benefits

Reference:	
	Brown, F.Y. (2000) How to use yoga. Delhi: Sports publication.
□ Kaiva	Gharote, M.L. & Ganguly, H. (1988). Teaching methods for yogic practices. Lonawala llyadham.
	Shankar, G. (1998). Holistic approach of yoga. New Delhi, Aditya Publishers.
	Shekar, K.C. (2003). Yoga for health. Delhi. Khel Sahitya Kendra.

Theory Courses

CC-202: EDUCATIONAL TECHNOLOGY AND METHODS OF TEAACHING IN PHYSICAL EDUCATION

Credits : Theory:- 4 Total Theory Lectures:- 60

Unit-1: Introduction

- Education and Education Technology Meaning and Definitions.
- Types of Education Formal, Informal and Non Formal Education
- Educative Process
- Importance of Devices and Methods of Teaching
 - Leadership of Physical Education profession, Importance of Physical Education as profession, educational qualification and qualities of Physical Education teacher and opportunity to serve

4

Unit-2: Teaching Techniques

- Teaching Techniques Lecture method, Command method, Demonstration method, limitation method, project method etc.,
- Teaching Procedure Whole method, whole part whole method, part whole method.
- ₱ Presentation Technique Personal and technical preparation
- Command Meaning Types and its uses in different situations.
- Student Leadership.
- Class formation and its different types.
- 🗯 Guest speaker
- Media and Public relation.

Unit-3: Teaching Aids

- Teaching Aids Meaning, Importance and criteria for selecting teaching aids.
- Teaching aids Audio aids, Visual aids, Audio-visual aids, Verbal, Chalk board, Charts, Model, Slide and LCD projector, Motion pictures, computers, Laptops, etc
- Team, Teaching Meaning Principles and advantage of team teaching
- Difference between Teaching Methods and Teaching Aid.

Unit-4: Lesson Planning and Teaching Innovations

Lesson Planning – Meaning, Type and Principles of lesson plan.

- General and specific lesson plan.
- Micro Teaching Meaning, Types and steps of micro teaching Simulation
- Teaching Meaning, Types and steps of simulation teaching.

□ Sons.	Bhardwaj, A (2003) New media of educational planning. New Delhi, Sarup and
□ Doab	Bhatia, and Bhatia, (1959) The principles and methods of teaching New Delhi: a House.
□ Publi	Kochar, S.K. (1982) Methods and techniques of teaching. New Delhi Sterling shers Pvt. Ltd.,
_ techn	Sampath, K. Panniselvam, A & Santhasnam, S (1981) Introduction to educational ology New Delhi Sterling Publishers Pvt Ltd.,
П	Walia, I.S (1999) Principles and methods of education, Jullandhar: Paul Publishers.

Theory Courses

CC-203: ORGANZATON, ADMINISTRATION AND SPORTS MANAGEMENT

Credits: Theory:- 4 Total Theory Lectures:- 60

Unit-1: Introduction

- Meaning and importance of Organization and Administration in physical education
- Brief introduction of Sports Management (Meaning, Definition, purpose and scope)
- Essential skills of Sports Management.
- gualification and Responsibilities of Physical Education teacher and pupil leader
- Planning and basic principles of Planning.
- Program planning: Meaning, Importance, Principles of program planning in physical education.

Unit-2: Office Management, Record, Register & Budget

- Office Management: Meaning, definition, functions and kinds of office management.
- Records and Registers: Maintenance of attendance Register, stock register, cash register, physical efficiency record, Medical examination record.
- Budget: Meaning, Importance of Budget making.
- Criteria of a good Budget, Sources of Income, Expenditure, Preparation of Budget.
- Principles and Steps of Budgeting.

Unit-3: Facilities, & Time - Table Management

- Facilities and equipment management; Types of facilities: Infrastructure-indoor, out door, academic & administrative blocks, research wing, library etc.
- Care of school building, Gymnasium, Swimming pool, Play fields, Play grounds.
- **Equipment:** need, importance, purchase, care and maintenance.
- ➡ Time Table Management: Meaning, Need, Importance and Factors affecting time table.
- Sports Management system in schools, colleges and Universities.

Unit-4: Competition Organization

- Importance of Tournament.
- # Types of Tournament and its organization structure Knock-out Tournaments, League or Round Robin Tournaments, Combination Tournament and challenge Tournament.
- Organization structure of Athletic Meet.
- Sports Event Intramurals & Extramural Tournament planning.
- Leadership in Physical Education and Sports.

□ Man	Broyles, F.J. & Rober, H.D. (1979) Administration of Sports, Athletic programme: A agerial Approach New York: Prentice hall Inc.
St. L	Bucher, C.A. (1983). Administration of Physical Education and Athletic Programme. ouis: The C.V. Hosby Co.
phy:	Earl, Z, & Gary, W.B. (1963) Management competency development in sports and sical education. Philadelphia: W. Lea and Febiger.
Lon	Kozman, H.C. Cassidly, R & Jackson, C (1960). Methods in Physical Education. don: W.B. Saunders Co.
□ Dep	Pandey, L.K. (1977). Methods in Physical Education. Delhi: Metropolitan Book o.
□ Phv:	Voltmer, E.F. & Esslinger, A.A (1979). The organization and administration of sical Education. New York: Prentice Hall Inc.

Theory Courses

CC-204: CONTEMPORARY ISSUES IN PHYSICAL EDUCATION: FITNESS AND WELLNESS, SPORTS NUTRITION AND WEIGHT MANAGEMENT

Credits : Theory:- 4 Total Theory Lectures:- 60

Unit-1: Concept of Physical Education and Fitness

- Definition and meaning of fitness and Wellness.
- Fitness Types of Fitness and Components of Fitness.
- Dimensions of Wellness.
- Importance and Scope of fitness and wellness.
- Physical Activity and Health Benefits.

Unit-2: Principles of Exercise Program

- Means of Fitness development aerobic and anaerobic exercises.
- **Exercises** and Heart rate Zones for various aerobic exercise intensities.
- Concept of free weight Vs Machine, Sets and Repetition etc.
- Concept of designing different fitness training program for different age groups.

Unit-3: Nutrition and Weight Management

- Concept of BMI (Body mass index), Obesity and its hazard, Myth of Sport reduction, Dieting versus exercise for weight control, Common Myths about weight Loss.
- Health Risks Associated with Obesity, Obesity Causes and Solutions for Overcoming Obesity.
- Nutrition Daily calories intake and expenditure, Determination of desirable body weight.
- ₩ Weight management program for sporty child, Role of diet and exercise in weight management, Design diet

Unit-4: Open Gym – concept, need and importance, equipments and its benefits Different sports clubs - need and importance of sports club- Swimming, Gymnasium, Weight Lifting, Yoga, Aerobics, Zumba and benefits for health

] 2034.	Bessesen, D.H. (2008) Update on obesity. J Clin Endocrinol Metab.93(6), 2027-
_	Butryn, M.L. Phelan, S., & Hill, J. O. (2007). Consistent Self-Monitoring of weight: a omponent of successful weight loss maintenance. Obesity (Silver Spring). 15(12), 3096.

Giam, C.K & The, K.C. (1994), Sport medicine exercise and fitness. Singapore; P	'.G.	
Medical Book.		
Mcglynn, G., (1993) Dynamics of fitness. Madison; W.C.B. Brown. Sharkey, B.J.		
(1990) Physiology of fitness, Human Kinetics Book		

PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY, SOLAPUR



NAAC Accredited-2015 'B' Grade (CGPA 2.62)

Name of the Course Syllabus:-

B.P.Ed. II Year (Bachelor of Physical Education)

With effect from :-

June-2020

CBCS Pattern (80;20)

Theory Courses

CC-301: SPORTS TRAINING

Credits: Theory:- 4 Total Theory Lectures:- 60

Unit-1: Introduction to Sports Training

- Meaning and Definition of Sports Training.
- Aim and Objective of Sports Training.
- Principles of Sports Training.
- System of Sports Training Basic Performance, Good Performance and High Performance Training.

Unit-2: Training Components

- ★ Strength Means and Methods of Strength Development
- Speed Means and Methods of Speed Development
- Endurance Means and Methods of Endurance Development.
- Coordination Means and Methods of coordination Development.
- Flexibility Means and Methods of Flexibility Development.

Unit-3: Training Process

- Training Load Definition and Types of Training Load.
- Principles of Intensity and Volume of Stimulus.
- Tactical Training Meaning and Methods of Tactical Training.

Unit-4: Training Programming and Planning

- Periodization Meaning and types of Periodization.
- Aim and Content of Periods Preparatory, Competition, Transitional etc.
- Planning Training session.
- Talent Identification and Development.
- # Types of Training- Weight training, Interval training, Circuit training, Fartlek training

	Dick, W.F. (1980). Sports training principles. London: Lepus Books.
	Jensen, R.C. & Fisher, A.G. (1979). Scientific basis of athletic conditioning.
Philac	delphia : Lea and Fibiger, 2 nd Edn.
	Matvyew, L.P. (1981) Fundamental of sports training. Moscow: Progress Publishers.
	Singh, H. (1984) Sports training, general theory and methods, Patials: NSNIS.
	Uppal, A.K., (1999) Sports Training. New Delhi: Friends Publication.

Theory Courses

CC-302: COMPUTER APPLICATIONS IN PHYSICAL EDUCATION

Credits: Theory:- 4 Total Theory Lectures:- 60

Unit-1: Introduction to Computer

- *Meaning, need and importance of information and communication technology (ICT). Application of Computers in Physical Education.
- Components of computer, input and output device.
- Application software used in Physical Education and Sports.

Unit-2: MS Word

- Introduction to MS Word.
- Creating, saving and opening a document
- Formatting, Editing features Drawing table.
- Page setup, paragraph alignment, spelling and grammar check printing option, inserting page number, graph, footnote and notes.

Unit-3: MS Excel

- Introduction to MS Excel.
- Creating, saving and opening the spreadsheet
- Creating formulas
- Format and editing features adjusting columns width and row height understanding charts.

Unit-4: MS Power Point

- Introduction to MS Power Point.
- Creating saving and opening a appt. file
- Format and editing features slide show, design, inserting slide number.
- Picture graph table.
- Preparation of Power point presentations.

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	Milke, M(2007). Absolute beginner's guide to computer basics, Pearson Education
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	Sinha, P.K. & Sinha, P. (n.d.) Computer fundamentals. 4 th edition, BPB Pblication.

Theory Courses

CC-303: SPORTS PSYCHOLOGY AND SOCIOLOGY

Credits: Theory:- 4 **Total Theory Lectures:- 60**

Unit-1: Introduction

Meaning, Importance and scope of Educational and Sports Psychology.

General Characteristics of Various Stages of growth and development.

Types and nature of individual differences; Factors responsible Heredity and environment.

Psycho-sociological aspects of Human behavior in relation to physical education and sports.

Unit-2: Sports Psychology

Kinds of Learning

Conditional learning

Trial and error

Imitation

Insight

Law of readiness

Law of Exercise

Law of Effect

Learning curve and transfer of training in physical education.

Personality – Meaning, Factors of personality, personality and physical

education – sports performance

Motivation – Meaning, Nature and Types of motivation, Factors influencing motivation, Motivation and sports performance

Aggression and Sports, Meaning and nature of anxiety, Kinds of anxiety. Meaning and nature of stress; Types of stress, Anxiety, Stress, Arousal

effects on sports performance.

Unit-3: Relation between Social Science and Physical Education

Definition of socialization.

Socialization through Physical Education and Sports

- Festivals and Physical Education.
- Group dynamic

National integration through Physical Education and Sports

Unit-4: Sports Culture: Meaning and Importance:

Features of sports culture.

亲亲 Importance of sports culture.

Effects of sports culture on people life style.

Social recognition

Customs, Folkway, Traditions, their influence on behavior pattern. 5.6 Social Values and Development of different traits ideas.

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	Blair, J. & Simpson, R. (1962). Educational psychology, New York: McMillan Co.,
	Cratty, B.J. (1968) Psychology and physical activity. Eaglewood Cliffs. Prentice Hall.
□ Metro	Kamlesh, M.L. (1998) Psychology in physical education and sport. New Delhi; opolitan Book Co.,
□ Addis	Loy, J.W., Kenyon, G.S. & McPherson, B.D. (1978). Sport and social system. London: son Wesley Publishing Company Inc.
□ Philac	Loy, J.W., Kenyon, G.S. & McPherson, B.D. (1981). Sports culture and society. delphia: Lea & Febiger.
	Mathus, S.S., (1962). Education Psychology. Agra. Vinod Pustak Mandir.
	Skinner, C.E. (1984). Education Psychology. New Delhi: Prentice Hall of India.
□ Publis	William, F.O & Meyer, F.N. (1979) A handbook of sociology. New Delhi Eurasia shing House Pvt Ltd.,

Theory Courses

CC-304: CURRICULUM DESIGN

Credits: Theory:- 4 Total Theory Lectures:- 60

Unit-1: Modern concept of the curriculum

- Definition, meaning and concept of curriculum.
- Need and importance of curriculum, and curriculum development, the role of the teacher in curriculum development.
- Factors affecting curriculum Social factors Personnel qualifications Climatic consideration Equipment and facilities Time suitability of hours.

Unit-2: Basic Principles for curriculum development in physical education; contest (selection and expansion)

- Basic Principles of curriculum development.
- steps in curriculum construction.- Formulating aim and objectives.-Selecting curriculum and integration of content.-the organization of integration of content.-Preparing instructional materials evolution of curriculum.

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

- Old and new concepts of curriculum.
- Curriculum Design, Meaning, Importance and factors affecting curriculum design.
- National and Professional policies, Research finding.
- Role of Teachers.

Unit-4: Under - graduate preparation of professional preparation.

- Areas of Health education, Physical education and Recreation.
- Curriculum design-Experience of Education, Field and Laboratory.
- Teaching practice.
- Professional Competencies to be developed Facilities

□ Phila	Barrow, H.M. (1983) Man and movement: principles of Physical education, delphia Lea and Febiger.
□ Comp	Bucher, C.A. (1986) Foundation of Physical Education: St. Louis: The C.V. Mosby & pany.
□ Harp	Cassidy, R. (1986) Curriculum development in physical education, New York: er & Company.
□ Engle	Cowell, C.C. & Hazelton, H.W. (1965). Curriculum designs in physical education. ewood Cliffs: N.J. prentice Hall Inc.
□ N.J. p	Larson. L.A (n.d.) Curriculum foundation in physical education. Englewood Cliffs: rentice Hall Inc.
□ planr	Underwood, G.L. (1983). The physical Education curriculum in secondary school: ning and implementation, England Taylor and Francis Ltd.,
□ N.J. p	Willgoose, C.E. (1979) Curriculum in physical education, 3 rd Ed., Englewood Cliffs: rentice Hall Inc.

Semester -IV

Theory Courses

CC-401: MEASUREMENT AND EVLUATION IN PHYSICAL EDUCATION

Credits : Theory:- 4 Total Theory Lectures:- 60

Unit-1: Introduction to Test & Measurement & Evaluation

- Meaning of Test and Measurement & Evaluation in Physical Education.
- Need & Importance of Test & Measurement & Evaluation in Physical Education.
- Principles of Evaluation.

Unit-2: Criteria; Classification and Administration of test

- Criteria of good test.
- Criteria of tests, scientific authenticity (reliability, objectivity, validity)
- Type and classification of Test.
- # Administration of test, advance preparation Duties during testing Duties after testing.

Unit-3: Physical Fitness Tests

- AAHPER youth Fitness Test.
- National Physical Fitness Test
- Indiana Motor Fitness Test
- U.S Army Physical Fitness Test

Unit-4: Sports Skill Tests

- Lockhart and McPherson Badminton test
- Johnson basketball test
- McDonald soccer test
- S.A.I Volleyball test
- SAI Hockey test

$\hfill\Box$ Bangsbo, J. (1994). Fitness training in football: A scientific approach. Bagsvaerd, Denmar; Ho+Storm.
Barron, H.M. & Mchee, R. (1977) A Practical approach to measurement in physical education. Philadelphia: Lea and Febiger.
☐ Kansal, D.K. (1966). Test and measurement in sports and physical education. New Delhi. D.V.S. Publications.
☐ Mathews, D.K. (1973) Measurement in physical education, Philadelphia: W.B. Sounder Company.
Pheasant, S. (1966). Body space: anthropometry, ergonomics and design of work. Taylor & Francis, New York.
Phillips, D.A. & Hornak, J.E. (1979) Measurement and evaluation in physical education. New York: New York: John Willey and sons.
Sodhi, H.S. & Sidhu L.S. (1984) Physique and selection of sports a anthropometric

Semester -IV

Theory Courses

CC-402: KINESIOLOGY AND BIOMECHANICS

Credits: Theory:- 4 Total Theory Lectures:- 60

Unit-1: Introduction to Kinesiology and Sports Biomechanics

- ★ Meaning and Definition of Kinesiology and Sports Biomechanics
- Importance of Kinesiology and Sports Biomechanics to Physical Education Teacher, Athletes and Sports Coaches.
- Terminology of Fundamental Movements.
- # Fundamental concepts of following terms Axes and Planes, centre of Gravity, Equilibrium, Line of Gravity.

Unit-2: Fundamental Concept of Anatomy and Physiology

- Classification of Joints and Muscles.
- Types of Muscle Contractions.
- Posture Meaning, Types and Importance of good posture.

Unit-3: Mechanical Concepts

- Force Meaning, definition, types and its applications to sports activities.
- Lever Meaning, definition, types and its application to human body.
- Newton's Laws of Motion Meaning, definition and its application to sports activities.
- Projectile Factors influencing projectile trajectory.

Unit-4: Kinematics and Kinetics of Human Movement

- Linear Kinematics Distance and Displacement, speed and velocity, Acceleration.
- Angular kinematics Angular Distance and Displacement, Angular Speed and velocity, Angular Acceleration.
- Linear Kinetics Inertia, Mass, Momentum, Friction.
- Angular Kinetics Moment of inertia, Couple, Stability.

□ Hall l	Bunn, J.W. (1972) Scientific principles of coaching. Englewood Cliffs, N.J. Prentice inc.
Engle	Hay, J.G. & Reid, J.G. (1982) The anatomical and mechanical basis of human motion. ewood Cliffs, N.J. prentice Hall Inc.
Cliffs	Hay, J.G. & Reid, J.G. (1988). Anatomy mechanics and human motion. Englewood, N.J. prentice Hall Inc.
pren	Hay, J.G. (1970). The biomechanics of sports techniques. Englewood Cliffs, N.J. tice Hall Inc.
pren	Simonian, C. (1911) Fundamentals of sport biomechanics. Englewood Cliffs, N.J. tice Hall Inc.
	Deshpande, S.H. (1955) Manav Kriya Vigyan (Hindi), H.V.P. Mandal, Amravati.

Semester -IV

Theory Courses

CC-403: RESEARCH AND STATISTICS IN PHYSICAL EDUCATION

Credits : Theory:- 4 Total Theory Lectures:- 60

Unit-1: Introduction to Research

- Definition of Research
- Need and importance of Research in Physical Education and Sports.
- Scope of Research in Physical Education & Sports.

Classification of Research.

Unit-2: Research Method and Tools

Historical, Experimental, Survey, Case study

Tools of data collection in research, Questionnaire, Interview, Observation etc. Concept of population and sample and its types.

Unit-3: Basic of Statistical Analysis

- Statistics: Meaning Definition, Nature and Importance.
- Graphical Presentation of Class Distribution: Histogram, Frequency Polygon, Frequency Curve. Cumulative Frequency Polygon, Ogive, Pie Diagram.

Unit-4: Statistical Model in Physical Education and Sports

- ★ Measure of Central Tendency: Mean, Median and Mode-Meaning Definition, Importance, Advantages, Disadvantages and Calculation from Group and Ungrouped data.
- Measures of Variability: Meaning, importance, computing from group and ungroup data.
- ⇒ Percentiles and Quartiles: Meaning importance, computing from group and ungroup data.

	Best, J.W. (1963). Research in education. U.S.A: Prentice Hall.
□ 5 th e	Bompa, T.O. & Haff, G.G. (2009) Periodization: theory and methodology of training d. Champaign, IL: Human Kinetics.
□ Chan	Brown, L.E. & Ferrigno. V.A. (2005). Training for speed agility and quickness, 2^{nd} ed. ipaign, IL: Human Kinetics.
□ Quicl	Brown, L.E. &Miller, J., (2005) How the training work. In Training speed, Agility, and kness. Brown, L.E. &Ferrigno, V.A &Ferrigno, VA., eds. Human Kinetics.
□ Louis	Carl, E.K., & Daniel, D.A (1969). Modern principles of athletes training. St. Louis. St. 3's Mosby Company.
□ cliffs,	Clark, H.H & Clark, D.H (1975) Research process in Physical Education. Englewood New Jersey: Prentice Hall, Inc.
and S	Garrett, H.E (1981) Statistics in psychology and education. New Yord: Vakilsfeffer Simon Ltd.,
the h	Oyster, C.K., Hanten, W.P., & Llorens, L.A (1987) Introduction to research: A guide for ealth science professional Landon J.B Lippincott Company.
□ Chan	Thomas, J.R. & Nelson J.K (2005) Research method in physical activity. USA ipaign, IL Human Kinetics Books
activ	Thomas, J.R. & Nelson J.K & Silverman, S.J (2011) Research method in physical ity. USA Champaign, IL Human Kinetics Books
	Uppal, A.K (1990) Physical Fitness: how to develop. New Delhi: Friends Publication.
	Verma LP (2000). A text book on sports statistics Gwalior. Venus Publications

Semester -IV

Theory Courses

CC-404: THEORY OF SPORTS AND GAMES, OFFICIATING AND COACHING Credits: Theory:- 4 Total Theory Lectures:- 60

Unit-1: Introduction of Officiating and coaching

- Concept, Importance and principles of officiating and coaching.
- Philosophy of officiating and coaching.
- Duties of coach in general, pre, during and post game.
- Responsibilities of a coach on and off the field.
- Officiating systems of Sports and Games- positioning, filling of score sheet and hand signals

Unit-2: Qualities and Qualifications of Coach and Official

- 🗯 Qualities and qualification of coach and official.
- General rules of games and sports.
- Eligibility rules of intercollegiate and inter-university tournaments, preparation of bills related to sports and tournament.
- Integrity and values of sports.
- Need and importance of Coaching camp

Unit-3: Theory of Sports and Games

★ General Introduction of specialized games and sports-

(Athletics, Gymnastic, Kabaddi, Kho-Kho, Basketball, Volleyball, Football, Softball, Baseball, Hockey, Wrestling, Cricket, Badminton, Tennis, and Yoga)

Each game or sports to be dealt under the following heads.

- History and development of the Game of Sports
- Ground preparation, dimensions and marking.
- Standard equipment and their specifications
- Ethics of sports and sportsmanship.

Unit-4: Advance Training (for particular specialized Games or Sports)

- Concept of Conditioning and warming up.
- Role of weight training in games and sports.
- Teaching of fundamental skill & their mastery (technique, tactic and different phases of skill acquisition).
- Recreational and Lead up games.
- Strategy Offence and defense, Principles of offence and defense.
- Selection of team

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

Part-B

Practical Courses

Semester - I

PC - 101

Track and Field:

Running Event:

Starting techniques: Standing start, Crouch start and its variations, Proper use of blocks.

Finishing Techniques: Run, Through, Forward lunging, Shoulder Shrug. Ground Marking, Rules and Officiating.

- Fundamental Skills Starting, Clearance and Landing Techniques.
- Ground marking and Officiating.

PC - 102

Gymnastics: Floor Exercise

Forward Roll, Backward Roll, Sideward Roll, different kinds of scales, Leg Split, Bridge, Dancing steps, Head stand, Jumps – leap scissors leap. Vaulting Horse.

Approach Run, Take off from the beat board, Cat Vault, Squat Vault.

PC - 102/401

Swimming: Fundamental Skills

Entry into the pool.

Developing water balance and

confidence. Water fear removing drills.

Floating – Mushroom and Jelly fish etc.

Gliding with and without kickboard.

Introduction of various strokes.

Body Position, Leg, Kick, Arm pull, Breathing and Co ordination.

Start and turns of concerned strokes.

Rules of Competitive swimming-officials and their duties, pool specifications, seeding heats and finals, Rules of the races.

PC - 102

Aerobics: Introduction of Aerobics

Rhythmic Aerobics – dance Low impact aerobics

High impact aerobics

Aerobics kick boxing

Postures - Warm up and cool down

THR Zone – Being successful in exercise and adaptation to aerobic workout.

PC - 103

Kabaddi: Fundamental Skills

Skills in Raiding – Touching with hand, various kicks, crossing of baulk line, Crossing of Bonus line, luring the opponent to catch, Pursuing.

Skills of Holding the Raider – Various formations, Catching from particular position, Different catches, Luring the raider to take particular position so as to facilitate catching, catching formations and techniques.

Additional skills in raiding-Bringing the antis in to particular position, Escaping from various holds, Techniques of escaping from chain formation, Combined formations in offence and defense.

PC - 103

Kho-Kho:

General skills of the game-Running, chasing, Dodging, Faking etc.,

Skills in chasing – Correct Kho, Moving on the lanes, Pursuing the runner, Tapping the inactive runner, Tapping the runner on heels, Tapping on the pole, Diving, Judgment in giving Kho, Rectification of Foul.

Skills in Running-Zig zag running, Single and double chain, Ring play, Rolling in the sides, Dodging which facing and on the back, fakes on the pole, fake legs, body arm etc., Combination of different skills.

Ground Marking.

Rules and their interpretations and duties officials.

PC - 103 Malkhamb

Malkhamb: Salaami, Hold, Saadiudi, Bagaludi, Dashrang udi, Bagli udi, Suidora, Phirki, Padmasana, T Balance, Pataka, Landing.

Rope Malkhamb-Salaami, Padmasana Chadh, Katibandh 1-2, Sadiadhi, Rikebpakkad, Rikebpagniadhi, Nakkikasadhi, Kamaradhi, Nakkikasadhi, Urubandhtedhi, Sadibagli, Do hatibagli, Kamarbandhbagli, nakkikasbagli, Dashrang, Hanuman pakad, Gurupakkad, various padmasana, Landing.

PC - 104 Light Apparatus:

Lathi – Two counts exercises, Four Count exercises, eight count exercises, sixteen count exercises.

Ghati Lezuim – AathAawaaz, Bethakawaaz, AagePaon, Aagekadam, Do Pherawaaz, Chau pherawaaz, Kadamtaal, Pavitra, Uchhakpavitra, Kadampavitra.

Hindustani Lezuim – Char Awaaz, EkJagah, AantiLagaav, Pavitra, Do Rukh, Chau Rukh, Chau rukhbethak, Momiya.

Mass P.T. Exercises – Two count, four count and eight count exercises. Drill and Marching.

PC - 104

Dumbbells / Wands/Hoop/Indian clubs/Flag: Fundamentals Skills

Apparatus/Light apparatus Grip.

Attention with apparatus/Light apparatus.

Stand – at – ease with apparatus/light apparatus.

Exercise with verbal command, drum, whistle and music-Two count, Four count, Eight count and Sixteen count.

Standing Exercise.

Jumping Exercise.

Moving Exercise.

Combination of above all

Semester - II

PC - 201

Track and Field:

Athletics: Jumping Events

High Jump (Straddle

Roll). Approach Run.

Take off.

Clearance over the bar.

Landing

Long Jump, Triple Jump, Pole Vault.

PC - 202

Gymnastics:

Parallel Bar:

Mount from one bar.

Straddle walking on parallel bars. Single and double step walk

Perfect swing.

Shoulder stand on one bar and roll forward.

Roll side

Shoulder stand

Front on back vault to the side (dismount)

Horizontal / Single Bar:

Grip

Swings

Fundamental Elements

Dismount

Uneven Parallal Bar:

Grip

Swings

Fundamental Elements

Dismount

PC - 202

Yoga:

Sury Namaskara,

Pranayam

Corrective

Asanas Kriyas

Asanas

□ Sitting

□ Standing

☐ Lying Prone Position.

☐ Lying Spine Position.

PC - 203

Badminton: Fundamental Skills

Racket parts, Racket rips, Shuttle Grips.

The basic stances.

The basic stokes – Serves, Forehand-overhead and underarm, Backhand-overhead and underarm

Drill and lead up games.

Types of games-Singles, doubles, including mixed doubles.

Rules and their interpretations and duties of officials.

PC - 203

Table Tennis: Fundamental Skills

The Grip – The Tennis Grip, Pen Holder Grip.

Service - Forehand, Backhand, Side Spin, High Toss.

Strokes-Push, Chop, Drive, Half Volley, Smash, Drop-shot, Balloon, Flick Shit, Loop Drive.

Stance and Ready position and foot work.

Rules and their interpretations and duties of officials.

PC - 203 / 402

Lawn Tennis: Fundamental Skills

Grip – Eastern Forehand grip and Backhand grip, Western grip, Continental grip, Chopper grip.

Stance and Footwork.

Basic Ground Stokes-Forehand Drive, Backhand drive.

Basic Service.

Basic Volley

Over-head Volley.

Chop

Tactics-Defensive, attacking in game

Rules and their interpretations and duties of officials.

Semester - III

PC - 301

Track and Field (Throwing Events):

Discus Throw, Javelin, Hammer Throw, Shot-Put.

Basic Skills and techniques of the Throwing events.

Ground Marking / Sector Marking

Interpretation of Rules and Officiating.

Grip.

Stance.

Release.

Reserve (Follow through action).

Rules and their interpretations and duties of officials.

PC - 302

Boxing: Fundamentals Skills

Player stance.

Stance - Right hand stance, left hand stance.

Footwork - Attack, defense.

Punches – Jab, Cross, hook, upper cut, combinations.

Defense slip – bob and weave, parry block, cover up, clinch, counter attack.

Tactics – Toe to toe, counter attack, fighting in close, feinting.

Rules and their interpretations and duties of officials.

PC - 302

Martial Arts /karate: Fundamentals Skills

Player stance – walking, hand positions, front – leaning, side-fighting.

Hand Techniques – Punches (form of a punch, straight punch, and reverse punch), Blocks (eight basic).

Leg Techniques – Snap kicks, stretching straight leg, thrust kicks, sidekicks, round house.

Forms - The first cause Katas.

Self Defense – against punches, grabs and strikes, against basic weapons (knife, club sticks).

Sparing – One step for middle punch, high punch and groin punch. (Defended by appropriate block from eight basic blocks).

Rules and their interpretations and duties of officials.

PC - 302

Taekwondo: Fundamentals Skills

Player stance – walking, walking, extending walking, L stance, cat stance.

Fundamental Skills – Sitting stance punch, single punch, double punch, triple punch.

Punching Skill from sparing position – front – first punch, rear first punch, double punch, and four combination punch.

Foot Techniques (Balgisul) – standing kick (soseochagi), Reverse turning kick (AP chagi), Arc kick (BandalChagi), Side kick, (YeopChagi), Turning kick (DollyoChagi), Back kick (Twit Chagi), Reverse, turning kick (BandaeDollyoChagi), Jump kick (TwimyoChagi).

Poomase (Forms) – Jang, Yi Jang, Sam Jang, Sa Jang, O Jan, Yook Jang, Chil Jang, Pal Jang (Fundamental Movement – eye control, concentration of spirit, speed control, strength control, flexibility balance, variety in techniques).

Sparring (Kyorugi) – one Step Sparing (hand techniques, foot techniques, self defense techniques, combination kicks), Free Sparing.

Board Breaking (Kyokpa) – eye control, balance, power control, speed, point of attack.

Rules and their interpretations and duties of officials.

PC - 302

Judo: Fundamentals Skills

Rei (Salutation) – Ritsurei (Salutation in standing position), Zarai (Salutation in the sitting position).

Kumi kata (Methods of holding judo costume) Shisei (Posture in Judo)

Kuzushi (Act of disturbing the opponent posture) Tsuduri and kake (Preparatory action for attack) Ukemi (Break Fall) – UrhiroUkemi (Rear break Fall), Yoko Ukemi (Side Break Fall), Mae Ukemi (Front Break Fall).

Shin Tai (Advance or retreat foot movement) – Suri-ashi (Gliding foot), Twugi-ashi(Following footsteps), Ayumi-ashi waling steps.

Tai Sabaki (Management of the body).

Nage Waze (Throwing techniques)- HizaGuruma (Knee wheel), Sesae Twurikomiashi (Drawing ankle throw), De ashihari (Advance foot sweep), O Goshi (Major Joinm), SeoNage (Shoulder throw).

Katamawaze (Grappling techniques) – Kesagatame (Scaff hold), Kata gatame (Shoulder hold), Kamil shihogatama (Locking of upper four quarters), Method of escaping from each hold.

PC - 302

Wrestling: Fundamentals Skills

Take downs, Leg tackles, Arm drag.

Counters for take downs, Cross face, Whizzer series.

Escapes from under – sit-out turn in tripped.

Counters for escapes from under-Basic control back drop, Counters for stand up.

Pinning combination-Nelson series (Half Nelson and Bar arm), Leg lift series, leg cradle series, Reverse double bar arm, chicken wing and half Nelson.

Escapes from pining: Wing lock series, Double arm lock roll, Cridge.

Standing Wrestling-Head under arm series, whizzer series

Reference positions.

PC - 302

Fencing: Fundamentals Skills

Basic Stance-on-guard position (feet and legs)

Footwork-advance, retire, lunge, Step-lunge.

Grip – hold a foil correctly, Etiquette – salute and handshake to coaches and partners.

Hit a target (glove, mask, person) at riposte distance.

Lunge from an on-guard position.

Attack – simple attacks from sixty – direct, disengage, double attack, compound attacks high line – one two and cut over disengage, Cut – over attack, Low line attacks.

Semi circular parries – octave and septime.

Understand the layout of a piste.

Compound or successive parries.

Lateral parry and direct riposte.

Fence a bout – judges etc. salutes and handshakes.

Rules and their interpretations and duties of officials.

PC - 303

Football: Fundamentals Skills

Kicks-Inside kick, Instep kick, Outer instep kick, lofted kick.

Trapping-trapping rolling the ball, trapping bouncing ball with sole Dribbling-With instep, inside and outer instep of the foot.

Heading-From standing, running and jumping.

Throw in

Feinting-With the lower limb and upper part of the body.

Tackling-Simple tackling, Slide tackling.

Goal Keeping-Collection of balls, Ball clearance-kicking, throwing and deflecting.

PC - 303

Softball: Fundamentals Skills

Catching: one handed, two handed, with feet grounded, in flight.

Throwing (different passes and their uses): one handed passes(shoulder, high shoulder, underarm, bounce, lob); two handed passes (push, overhead, bounce).

Footwork; landing on one foot; landing on two feet; pivot; running pass. Shooting; one hand; two hands; forward step shot; backward step shot.

Techniques of getting free; dodge and sprint; sudden sprint; sprint and stop; sprinting with change of speed.

Defending: marking the player; marking the ball; blocking; inside the circle; outside the circle (that is, defending the circle edge against the pass in).

Intercepting: pass; shot. The toss-up

Role of individual players.

Rules and their interpretations and duties of officials.

PC - 303

Volleyball: Fundamentals Skills

Players Stance-Receiving the ball and passing to the team mates, The Volley (Over head pass),

The Dig (Under hand pass).

Service-Under Arm Service, Side Arm Service, Tennis Service, Round Arm Service. Rules and their interpretations and duties of officials.

PC - 303

Handball: Fundamentals Skills

Catching, Throwing, Ball Control, Goal Throws-Jump Shot, Dive Shot, Reverse Shot, Dribbling-High and Low, Attack and Counter Attack, Simple Counter Attack, Counter Attack from two wings and centre, Blocking, Goal Keeping, Defense. Rules and their interpretations and duties of officials.

PC - 303

Basketball: Fundamentals Skills

Player stance and ball handling.

Passing-Two Hand chest pass, Two hand Bounce Pass, One Hand Base ball pass, Side Arm Pass, Over Head pass, Hook Pass.

Receiving-Two Hand receiving, One hand receiving, Receiving in stationary position, Receiving while jumping, Receiving while running.

Dribbling-How to start dribble, How to drop dribble, High Dribble, Low dribble, Reverse, dribble, Rolling dribble.

Shooting-Layup shot and its variations, one hand set shot, One hand jump shot, Hook shot, Free throw.

Individual Defensive-Guarding the man with the ball and without the ball. Pivoting.

Rules and their interpretations and duties of the officials.

SEMESTER IV

PC-401 Hurdles

Ground Marking.

Interpretation of Rules and Officiating.

PC-401 Relays: Fundamental Skills

Various patterns of Baton Exchange. Understanding of Relay Zones.

Ground Marking.

Interpretation of Rules and Officiating.

PC - 402

Hockey: Fundamentals Skills

Player stance & Grip.

Rolling the ball.

Dribbling

Push

Stopping

Hit

Flick

Scoop

Passing-Forward pass, square pass, triangular pass, diagonal pass, return pass.

Reverse hit.
Dodging
Goal keeping-Hand defense, foot defense.
Positional play in attack and defense.
Rules and their interpretations and duties of officials. Ground Marking.

PC - 402

Base Ball: Fundamentals Skills

Player Stance – walking extending walking, L stance, cat stance. Grip – standard grip, choke grip,

Batting – swing and bunt.

Pitching

Baseball: slider, fast pitch, curve ball, drop ball, rise ball, change up, knuckle ball, screw ball,

Softball: windmill, sling shot,

Starting position: wind up, set.

Fielding:

☐ Catching basics to catch fly hits, rolling hits,

☐ Throwing: over arm, side arm.

Base running

Base running: single, double, triple, home run,

☐ Sliding: bent leg slide, hook slide, head first slide.

Rules and their interpretations and duties of officials.

PC-402

П

Netball: Fundamentals Skills

Catching: one handed, two handed with feet grounded, in flight.

Throwing (different passes and their uses): one handed passes (shoulder, high shoulder, underarm, bounce, lob); two handed passes (push, overhead, bounce).

Footwork: landing on one foot; landing on two feet; pivot; running pass.

Shooting: one hand; two hands; forward step shot; backward step shot.

Techniques of getting free: dodge and sprint; sudden sprint; sprint and stop; sprinting with change of speed.

Defending: marking the player; marking the ball; blocking; inside the circle; outside the circle (that is, defending the circle edge against the pass in).

Intercepting: pass; shot. The toss-up

Role of individual players

Rules and their interpretations and duties of officials.

PC-402

Cricket: Fundamentals Skills

Batting-Forward and backward defensive stroke. Bowling-Simple bowling techniques.

Fielding-Defensive and offensive fielding. Catching-High catching and Slip catching Stopping and throwing techniques.

Wicket keeping techniques.

TC - 201 Teaching Practices:

10 teaching Practice lessons out of which 5 lessons in class-room situation and 5 lessons for out-door activities within premises on the students of B.P.Ed., course

TC - 301 Teaching Practices:

10 teaching lesson plans for Racket Sport/Team Games/Indigenous Sports out of which 5 lessons internal and 5 lessons external at school.

TC - 401 Sports Specialization: Track and field / Gymnastics / Swimming

(4 internal lesson at practicing school and 1 final external lesson on the students of practicing school as a sports specialization of any discipline mentioned above).

TC - 402 Games Specialization:

Kabaddi, Kho-Kho, Base ball, Football, Hockey, Softball, Volleyball, Handball, Basketball, Netball, , Cricket, Badminton, Table Tennis, Lawn Tennis.

(4 internal lesson at practicing school and I final external lesson on the students of practicing school as a games specialization of any discipline mentioned above).

Note: Where ever details of any activities are not mentioned, it is expected to elaborate

skills by the competent bodies of local Universities / autonomous colleges.

Structure of Question Paper B.P.Ed. Effect from June 2019

Total Marks 80

Question No. 1		Choose the correct alternative	10
	1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
Question No.2		Answer the following question	
	A		10
	В		10
Question No.3		Answer the following question (any one)	15
	1		
	2		
Question No.4		Answer the following question (any one)	15
	1		
	2		
Question No.5		Write short notes (any four)	20
	1		
	2		
	3		
	4		
	5		