B.SC., PHYSICAL EDUCATION

SYLLABUS

FROM THE ACADEMIC YEAR

2023-2024

TAMILNADU STATE COUNCIL FOR HIGHER EDUCATION, CHENNAI – 600 005

	OUTCOMES-BASED CURRICULUM FRAMEWORK GUIDELINES BASED NS FOR UNDER GRADUATE PROGRAMME
Programme:	B.Sc. PHYSICAL EDUCATION
Programme	
Code:	
Duration:	3 Years (UG)
Programme	PO1: Disciplinary knowledge: Capable of demonstrating comprehensive
Outcomes:	knowledge and understanding of one or more disciplines that form a part of an
	undergraduate Programme of study
	PO2: Communication Skills: Ability to express thoughts and ideas effectively in
	writing and orally; Communicate with others using appropriate media;
	confidently share one's views and express herself/himself; demonstrate the ability to listen carefully, read and write analytically, and present complex information in
	a clear and concise manner to different groups.
	PO3: Critical thinking: Capability to apply analytic thought to a body of
	knowledge; analyse and evaluate evidence, arguments, claims, beliefs on the basis
	of empirical evidence; identify relevant assumptions or implications; formulate
	coherent arguments; critically evaluate practices, policies and theories by
	following scientific approach to knowledge development.
	PO4: Problem solving: Capacity to extrapolate from what one has learned and
	apply their competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge; and apply one's learning to real life
	situations.
	PO5: Analytical reasoning: Ability to evaluate the reliability and relevance of
	evidence; identify logical flaws and holes in the arguments of others; analyze and
	synthesize data from a variety of sources; draw valid conclusions and support
	them with evidence and examples, and addressing opposing viewpoints.
	PO6: Research-related skills: A sense of inquiry and capability for asking
	relevant/appropriate questions, problem arising, synthesising and articulating; Ability to recognise cause-and-effect relationships, define problems, formulate
	hypotheses, test hypotheses, analyse, interpret and draw conclusions from data,
	establish hypotheses, predict cause-and-effect relationships; ability to plan,
	execute and report the results of an experiment or investigation
	PO7: Cooperation/Team work: Ability to work effectively and respectfully
	with diverse teams; facilitate cooperative or coordinated effort on the part of a
	group, and act together as a group or a team in the interests of a common cause
	and work efficiently as a member of a team
	PO8: Scientific reasoning: Ability to analyse, interpret and draw conclusions from quantitative/qualitative data; and critically evaluate ideas, evidence and
	experiences from an open-minded and reasoned perspective.
	PO9: Reflective thinking: Critical sensibility to lived experiences, with self
	awareness and reflexivity of both self and society.
	PO10 Information/digital literacy: Capability to use ICT in a variety of learning
	situations, demonstrate ability to access, evaluate, and use a variety of relevant
	information sources; and use appropriate software for analysis of data.
	PO 11 Self-directed learning: Ability to work independently, identify appropriate
	resources required for a project, and manage a project through to completion.
	PO 12 Multicultural competence: Possess knowledge of the values and beliefs of multiple cultures and a global perspective; and capability to effectively engage
	or maniple cultures and a global perspective, and capability to effectively eligage

in a multicultural society and interact respectfully with diverse groups.

PO 13: Moral and ethical awareness/reasoning: Ability toe mbrace moral/ethical values in conducting one's life, formulate a position/argument about an ethical issue from multiple perspectives, and use ethical practices in all work. Capable of demonstrating the ability to identify ethical issues related to one"s work, avoid unethical behaviour such as fabrication, falsification or misrepresentation of data or committing plagiarism, not adhering to intellectual property rights; appreciating environmental and sustainability issues; and adopting objective, unbiased and truthful actions in all aspects of work.

PO 14: Leadership readiness/qualities: Capability for mapping out the tasks of a team or an organization, and setting direction, formulating an inspiring vision, building a team who can help achieve the vision, motivating and inspiring team members to engage with that vision, and using management skills to guide people to the right destination, in a smooth and efficient way.

PO 15: Lifelong learning: Ability to acquire knowledge and skills, including "learning how to learn", that are necessary for participating in learning activities throughout life, through self-paced and self-directed learning aimed at personal development, meeting economic, social and cultural objectives, and adapting to changing trades and demands of work place through knowledge/skill development/re skilling.

Programme Specific Outcomes:

On successful completion of Bachelor of Physics with Computer Applications programme, the student should be able to:

PSO1: Disciplinary Knowledge: Understand the fundamental principles, concepts, and theories related to physics and computer science. Also, exhibit proficiency in performing experiments in the laboratory.

PSO2: Critical Thinking: Analyse complex problems, evaluate information, synthesize information, apply theoretical concepts to practical situations, identify assumptions and biases, make informed decisions and communicate effectively **PSO3:** Problem Solving: Employ theoretical concepts and critical reasoning ability with physical, mathematical and technical skills to solve problems, acquire data, analyze their physical significance and explore new design possibilities.

PSO4: Analytical & Scientific Reasoning: Apply scientific methods, collect and analyse data, test hypotheses, evaluate evidence, apply statistical techniques and use computational models.

PSO5: Research related skills: Formulate research questions, conduct literature reviews, design and execute research studies, communicate research findings and collaborate in research projects.

PSO6: Self-directed & Lifelong Learning: Set learning goals, manage their own learning, reflect on their learning, adapt to new contexts, seek out new knowledge, collaborate with others and to continuously improve their skills and knowledge, through ongoing learning and professional development, and contribute to the growth and development of their field.

PO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
PO1	✓					
PO2		✓				
PO3			✓			
PO4				✓		
PO5					✓	
PO6						✓

2. Highlights of the Revamped Curriculum:

- Student-centric, meeting the demands of industry & society, incorporating industrial components, hands-on training, skill enhancement modules, industrial project, project with viva-voce, exposure to entrepreneurial skills, training for competitive examinations, sustaining the quality of the core components and incorporating application oriented content wherever required.
- The Core subjects include latest developments in the education and scientific front, advanced programming packages allied with the discipline topics, practical training, devising statistical models and algorithms for providing solutions to industry / real life situations. The curriculum also facilitates peer learning with advanced statistical topics in the final semester, catering to the needs of stakeholders with research aptitude.
- ➤ The General Studies and Statistics based problem solving skills are included as mandatory components in the 'Training for Competitive Examinations' course at the final semester, a first of its kind.
- ➤ The curriculum is designed so as to strengthen the Industry-Academia interface and provide more job opportunities for the students.
- ➤ The Statistical Quality Control course is included to expose the students to real life problems and train the students on designing a mathematical model to provide solutions to the industrial problems.
- ➤ The Internship during the second year vacation will help the students gain valuable work experience, that connects classroom knowledge to real world experience and to narrow down and focus on the career path.
- ➤ Project with viva-voce component in the fifth semester enables the student, application of conceptual knowledge to practical situations. The state of art technologies in conducting a Explain in a scientific and systematic way and arriving at a precise solution is ensured. Such innovative provisions of the industrial training, project and internships will give students an edge over the counterparts in the job market.
- > State-of Art techniques from the streams of multi-disciplinary, cross disciplinary and inter disciplinary nature are incorporated as Elective courses, covering conventional topics to the latest DBMS and Computer software for Analytics.

Value additions in the Revamped Curriculum:

	tions in the Revamped Curric	
Semester	Newly introduced	Outcome / Benefits
	Components	
I	Foundation Course	Instil confidence among students
	To ease the transition of	Create interest for the subject
	learning from higher	Create interest for the subject
	secondary to higher	
	education, providing an	
	overview of the pedagogy of	
	learning abstract Statistics	
	and simulating	
	mathematical concepts to	
	real world.	
I, II, III,	Skill Enhancement papers	Industry ready graduates
IV	(Discipline centric /	Skilled human resource
	Generic / Entrepreneurial)	• Students are equipped with essential skills to make them
		employable
		Training on Computing / Computational skills enable
		the students gain knowledge and exposure on latest
		computational aspects
		Data analytical skills will enable students gain
		•
		internships, apprenticeships, field work involving data
		collection, compilation, analysis etc.
		• Entrepreneurial skill training will provide an
		opportunity for independent livelihood
		• Generates self – employment
		Create small scale entrepreneurs
		Training to girls leads to women empowerment
		• Discipline centric skill will improve the Technical
		knowhow of solving real life problems using ICT tools
III, IV, V	Elective papers-	Strengthening the domain knowledge
& VI	An open choice of topics	Introducing the stakeholders to the State-of Art
W VI	categorized under Generic	$_{ m I}$
	and Discipline Centric	techniques from the streams of multi-disciplinary, cross
	and Discipline Centric	disciplinary and inter disciplinary nature
		• Students are exposed to Latest topics on Computer
		Science / IT, that require strong statistical background
		• Emerging topics in higher education / industry /
		communication network / health sector etc. are
		introduced with hands-on-training, facilitates designing
		of statistical models in the respective sectors
IV	DBMS and Programming	• Exposure to industry moulds students into solution
	skill, Biostatistics,	providers
	Statistical Quality Control,	Generates Industry ready graduates
	Official Statistics,	Employment opportunities enhanced
	Operations Research	projument oppositioned eminiment
II year	Internship / Industrial	Practical training at the Industry/ Banking Sector /
Vacation	Training	Private/ Public sector organizations / Educational
activity		institutions, enable the students gain professional
section in the section is a section in the section		experience and also become responsible citizens.
		experience and also occome responsible chizens.

V Semester	Project with Viva – voce	•	Self-learning is enhanced Application of the concept to real situation is conceived resulting in tangible outcome
VI Semester	Introduction of Professional Competency component	•	Curriculum design accommodates all category of learners; 'Statistics for Advanced Explain' component will comprise of advanced topics in Statistics and allied fields, for those in the peer group / aspiring researchers; 'Training for Competitive Examinations' –caters to the needs of the aspirants towards most sought - after services of the nation viz, UPSC, ISS, CDS, NDA, Banking Services, CAT, TNPSC group services, etc.
Extra Cred For Adva degree	dits: anced Learners / Honors	•	To cater to the needs of peer learners / research aspirants

S	kills	acquired	Knowledge,	Problem	Solving,	Analytical	ability,	Professional
fı	rom the	Courses	Competency,	Profession	nal Commi	unication and	d Transfe	rrable Skill

Consolidated Semester wise and Component wise Credit distribution

Parts	Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Total Credits
Part I	3	3	3	3	-	-	12
Part II	3	3	3	3	-	-	12
Part III	13	13	13	13	22	18	92
Part IV	4	4	3	6	4	1	22
Part V	-	-	_	-	-	2	2
Total	23	23	22	25	26	21	140

*Part I. II, and Part III components will be separately taken into account for CGPA calculation and classification for the under graduate programme and the other components. IV, V have to be completed during the duration of the programme as per the norms, to be eligible for obtaining the UG degree.

	Methods of Evaluation					
	Continuous Internal Assessment Test					
Internal	Assignments	25 Marks				
Evaluation	Seminars					
	Attendance and Class Participation					
External Evaluation	End Semester Examination	75 Marks				
	Total	100 Marks				
	Methods of Assessment					
Recall (K1)	Simple definitions, MCQ, Recall steps, Concept definition	ns				
Understand/	MCQ, True/False, Short essays, Concept explanations,	Short summary or				
Comprehend (K2)	overview					
Application (K3)	Suggest idea/concept with examples, Suggest formulae, S Observe, Explain	Solve problems,				
Analyze (K4)	Problem-solving questions, Finish a procedure in many s	teps, Differentiate				
	between various ideas, Map knowledge					
Evaluate (K5)	Evaluate (K5) Longer essay/ Evaluation essay, Critique or justify with pros and cons					
Create (K6)	Check knowledge in specific or offbeat situations, Discu Presentations	ssion, Debating or				

B.Sc. PHYSICAL EDUCATION

Programme Structure

			I SEMESTER						
Part	Course	Courses	Courses Title of the Paper			Hrs./]	Max. l	Marks
	Code					Week	Int.	Ext.	Total
I	2311T	T/OL	தமிழ் இலக்கிய வரலாறு-I /other Language	T	3	6	25	75	100
II	2312E	E	General English-I	T	3	6	25	75	100
	23BPE1C1	CC- 1	Theory–I: Foundation of Physical Education and Sports	T	4	5	25	75	100
III	23BPE1C2	CC- 2	Theory - II: Anatomy and Physiology	T	4	4	25	75	100
	23BPEA1	Generic	Fitness and Wellness	T	3	3	25	75	100
	23BPEAP1	Elective (Allied)	Practical –Fitness and Wellness	P	2	2	25	75	100
IV	23BPE1S1	SEC -I	Care and Prevention of Sports Injuries	T	2	2	25	75	100
IV	23BPE1FC	FC	History and Foundation of Physical Education	T	2	2	25	75	100
			Total	-	23	30	200	600	800
		•	II SEMESTER						
I	2321T	T/OL	தமிழ் இலக்கிய வரலாறு-II /other Language-II	T	3	6	25	75	100
II	2322E	Е	General English-II	T	3	6	25	75	100
	23BPE2C1	CC-3	Organisation Administration and Methods in Physical Education	T	4	5	25	75	100
III	23BPE2C2	CC-4	Track & Field - I (Ground marking)	T	4	4	25	75	100
	23BPEA2	AL - IB	Theories of Major Games – I (Basket Ball, Volley ball & Foot ball)	T	3	3	25	75	100
	23BPEAP2	AL - IB	Practical – Respective Allied Theory Course	P	2	2	25	75	100
IV	23BPE2S1	SEC -II	Recreation	T	2	2	25	75	100
	23BPE2S2	SEC -III	Sports Journalism	T	2	2	25	75	100
			Naan Mudhalvan Course						
			Total		23	30	200	600	800

			III SEMESTER						
I	2331T	T/OL	தமிழக வரலாறும் பண்பாடும் /	T	3	6	25	75	100
			Other Languages-III						
II	2332E	Е	General English-III	Т	3	6	25	75	100
III	23BPE3C1	CC-5	Yoga Education	T	3	3	25	75	100
	23BPE3C2	CC-6	Scientific Principles	T	4	4	25	75	100
			of Sports Training	_	-			, -	
	23BPE3C3	CC-7	Test and	Т	4	4	25	75	100
			Measurement & Evaluation						
	23BPEA3	AL -IIA	Theories of Major Games-II	Т	3	3	25	75	100
			(Cricket, Hand Ball & Hockey)						
			Track Events- II (Sprint, Middle,						
			Distance, Long Distance, Relay, Hurdle)						
	23BPEAP3	AL -IIA	Practical – Respective Allied	P	2	2	25	75	100
			Theory Course						
IV	233AT/	SEC -IV	Adipadai Tamil 1/Entrepreneurship	T	2	2	25	75	100
	23BPE3S1								
			Naan Mudhalvan Course						
			Total		24	30	215	585	800
		,	IV SEMESTER						
I	2341T	T/OL	தமிழும் அறிவியலும் /Other Languages -IV	T	3	6	25	75	100
II	2342E	Е	General English – IV	Т	3	6	25	75	100
	23BPE4C1	CC-8	Exercise Physiology	Т	3	3	25	75	100
	23BPE4C2	CC-9	Theories of Major Games - III	Т	3	3	25	75	100
	23BPE4P1	CC-10	Practical –III: Major	P	3	3	25	75	100
	23D1 L-11 1	CC-10	Games (Kabbadi, Ball Badminton &	1	3	3		73	100
III			Kno-Kho) Field- III Jumping Event						
			(Long Jump, High jump, Triple Jump &						
			Pole- vault)						
	23BPEA4	AL - IIB	Sports Talent Identification	Т	3	3	25	75	100
	23BPEAP4	AL - IIB	Practical – IV – Respective Allied	P	2	2	25	75	100
			Theory Course						
	234AT/		Adipadai Tamil 2/	Т	2	2	25	75	100
IV	23BPE4S1	SEC - V	Small Business Management						
1 V	23BES4	EVS	Environmental Studies	T	2	2	25	75	100
			Naan Mudhalvan Course						
			Total		24	30	225	675	800
			V SEMESTER						
	23BPE5C1	CC-11	1	T	4	5	25	75	100
	23BPE5C2	CC-12	Sports Psychology and Sociology	T	4	5	25	75	100
III	23BPE5C3	CC-13	1 11	T	4	5	25	75	100
			Education						
	23BPE5C4	CC-14	Research and Elementary Statistics	T	4	5	25	75	100
	23BPE5E1	DSE 1	Sports Medicine and Physiotherapy	T	3	4	25	75	100
	23BPE5E2	DSE 2	Sports Nutrition	T	3	4	25	75	100
	23BVE5		Value Education	T	2	2	25	75	100
***	23BPE5I/		Internship/Industrial visit/Field Visit	PR	2		25	75	100
IV	23BPE5IV/								
	23BPE5FV		22 22 41 4						
			Naan Mudhalvan Course				605	60 -	000
	1		Total		26	30	200	600	800

			VI SEMESTER						
	23BPE6C1	CC - 15	Theory I: Sports Management	T	4	6	25	75	100
	-	CC-16	Theory II: Health Education and	T	4	6	25	75	100
	23BPE6C2		First Aid						
III		CC-17	Movement Education and	T	4	6	25	75	100
	23BPE6C3		Primary Physical Education						
		DSE	Theory III: Theories of Major	T	3	5	25	75	100
	220000001		Games - IV (Badminton, Boxing &						
	23BPE6E1		Tennis) Field Events IV -Throwing -						
			(Shot-put, Discuses, Javelin)						
		DSE	Practical IV: Theories of Major	P	3	5	25	75	100
	23BPE6EP		Games-IV(Badminton, Boxing &						
			Tennis) Field Events IV -Throwing -						
			(Shot-put, Discuses, Javelin)						
IV	23BPE6S1	PCS	Essential Reasoning and Quantitative Aptitude	T	2	2	25	75	100
	23BEA6		Extension Activity	P	1	-	25	75	100
			Naan Mudhalvan Course						
					21	30	175	525	700
			Grand	Total	141	-	1215	3585	4800

- > TOL-Tamil/Other Languages,
- ightharpoonup E English
- > CC Core course Core competency, critical thinking, analytical reasoning, research skill & teamwork
- ➤ Generic Elective (Allied)
- > SEC-Skill Enhancement Course Exposure beyond the discipline (Value Education, Entrepreneurship Course, Computer application for Science, etc.,
- > FC-Foundation Course
- > T- Theory, P-Practical

Chairperson Details: Dr.K.Usha Rani, Department of Physical Education and Health Science, Alagappa University, Karaikudi. Mobile No. 8220778095

	Semester – I						
23BPE1C1	CORE COUSE - I FOUNDATION OF PHYSICAL EDUCATION	T/P	Credi	Hour			
	AND SPORTS	T	<u>s</u> 5				
Unit-I	Meaning and Definition of Education and Physical Educatio Scope of Physical Education – Physical Training and Physical			ire and			
Unit-II	Aim and Objectives of Physical Education – Development o Cognitive, Neuro-muscular, Affective, Social, Emotional, Spin – Theories of Learning – Laws of Learning.	•		ational			
Unit-III	Scientific basis of Physical Education – Contribution of Allied Physiology, Biomechanics, Kinesiology, Sports Medicine, Ps and Computer Science.			•			
Unit-IV	History of Physical Education in Sparta and Athens – Olympic Games: Ancient, Modern – Origin – Organisation and conduct of the game – Olympic Flag, Torch, Oath, Emblem and Motto.						
Unit -V	Recent development in India: SAI, NSNIS, SNIPES,LNIPE, S Award and Scholarships: Arjuna Award, Dhronochariya Awar KhelaRatna Award – International and National Competitions SGF, RDS and BDS.	d, Raj	iv Gand	lhi			

Bucher Charles A., *Foundations of Physical Education*, St. Louis the C.V. Mosby Company, 1983. Kamlesh M.L., Physical Education: *Facts and Foundation*, New Delhi, P.B. Publications, 1988. Thirunarayanan, C. and Hariharan, S., *Analytical History of Physical Education*, Karaikudi, C.T. & S.H., Publications, 1990.

Sharma, O.P., *History of Physical Education*, New Delhi, Khel Shitya Kendra, 1998. Wakharkar D.G., *Manual of Physical Education in India*, Pearl Publications Pvt. Ltd., Bombay, 1967. Wuest, Deborah, A. and Charles A. Bucher, *Foundations of Physical Education and Sport*, New Delhi

: BL. Publication Pvt., Ltd.

Wellman and Cowell, *Philosophy and Principles of Physical Education*, A marvati: Suyog Prakasan.Jackson Sharman/ *Modern Principles of Physical Education*, New York: A.A.Barnes & Co.

Khan, Eraj Ahmed, History of Physical Education, Patna Scientific Book Co.

	Semester - I									
23BPE1C2	Core Course – I	Core Course – I T/P Credits Hours								
	ANATOMY AND PHYSIOLOGY	Y AND PHYSIOLOGY T 4 4								
Unit-I	Physiology in Physical Education – Cell – Structur	g of Anatomy and Physiology – Need and Scope of Anatomy and ogy in Physical Education – Cell – Structure and Functions – Tisuues – and Function-Muscular System – Types of Muscles: Skeletal								
Unit-II	Skeleton: Meaning and Functions – Bones: C General Features of Various Bones: Vertebral Co Ulna, Sacbula, Femer and Bones of Skill – Joints of Joints	lumn, P	elvic Bone,	Radius and						
Unit-III	Nervous System: Neuron – Central Nervous Syst Cord – Peripheral Nervous System (PNS): cranial DigestiveSystem: Structure & Functions – Digesti Functions	Nerves	and Spinal	Nerves –						
Unit-IV	Respiratory System – Respiration – Respiratory Track – Alveoli – Lungs: Structure & Functions – Gas Exchange – Vital Capacity, Circulatory System –									
Unit -V	Endocrine Glands – Functions of Endocrine Glands Thyroid, Thymus, Pancreas, Adrenal & Sex – their and regulations of body functions.		•							

Guyton A.C., 1969, Functions of the Human Body, London, W.B. Saunders Company, Dr. V. Selvam "Anatomy and Physiology" Bodinayakanur.

Dr. N.M. MUTHAYYA "Physiology" J.J. Publications, Madurai.SEELEY

et. all Anatomy and Physiology Mc Graw Hill.

Srivastava et. 1976, All, Text Book of Practical Physiology, Calcutta Scientific Book Agency,

Semester - I					
23BPE1S1	Skill Enhancement Course (SEC)	T/P	Credits	Hours	
	CARE AND PREVENTION OF SPORTS	T	2	2	
	INJURIES				
	Types of Sports and Injuries				
Unit-I	Definition and meaning of care and prevention of soft care and prevention of sports Injuries – Types of Normal curve of the spine and its utility – Kyphos posture - Kypho - lordosis, Flat back – Scoliosis knee - Bow leg - Flat foot - Causes of deviations –	Sports is - Lo: - Round	– Injuries - Po rdosis, Deviat 1 shoulders -	osture -	
	Corrective Physical Education				
Unit-II	Definition and objectives of Corrective Physical Education - Posture and body mechanics - Standards of standing posture - Values of good posture - Drawbacks and causes of bad posture - Postural tests-Examination of the spine.				
	Therapeutic Exercise				
Unit-III	Passive Exercise - Active Exercise - Assisted Exercise - Resisted exercise for Rehabilitation - Strengthening Exercise - With Equipment - Without Equipment				
Unit-IV	Massage Brief history of massage - Massage as an aid for relaxation - Points to be considered in giving massage - Physiological - Chemical - Psychological effects of massage - Indication/contra indication of massage - Classification of the manipulations used in massage and their specific uses on the human body - Stroking manipulation - Effleurage - Pressure manipulation - Petri sage Kneading (finger Kneading - circular) Ironing Skin Rolling - Percussion manipulation - Tapotement - Hacking Clapping - Beating - Pounding - Slapping - Cupping - Poking - Shaking Manipulation - Deep massage.			logical fication human tri sage cussion	
Unit -V	Sports Injuries Care and Treatment and Supp Principles pertaining to the prevention of Sports in of Exposed and unexposed injuries in sports - Principles and techniques of Strapping and Banda	njuries rinciple Short	s of apply co	ld and	

- 1. Dohenty .J. Meno.wetb, Moder D (2000)Track & Field, EngleWood Cliffs, Prentice Hal Inc. Lace, M.V.(1951) Massage and Medical Gymnastics, London: J & A Churchill Ltd. .
- 2. Mc Ooyand Young(1954) Test and Measurement, New York: Appleton century. Naro, C.L.(1967)
- 3. Manual of Massage and, Movement, London: Febra and Febra Ltd.Rathbome, J.I. (1965) Corrective Physical Education, London: W.B. Saunders &Co.
- 4. Staffordand Kelly,(1968) Preventive and Corrective Physical Education, New York. The Ronald Press Co.

FOUNDATION COURSE

	Semester - I			
23BPE1FC	HISTORY AND FOUNDATION OF	T/P	Credits	Hours
	PHYSICAL EDUCATION	T	2	2
Unit-I	HISTORY AND FOUNDATION OF PHYSIC History Of Physical Education - Ancient difference between Sparta, Athens - Olympic G - Asian Games - SAF Games, Commonwealth Y.M.C.A Sports Authority of India	t Greed ames:	ce - Introduc Ancient and	tion and Modern
Unit-II	FOUNDATION OF PHYSICAL EDUCATION Meaning, Objectives & Aims of Physical of Physical Education with general education Education to Health Education & Recreation Physical culture, Physical Training.	ıl Educ - Rela	tionship of l	Physical
Unit-III	BIOLOGICAL PRINCIPLE OF PHYSICAL EDUCATION Concept of Growth and Development - Difference between Growth and Development - Meaning and Concept of Heredity and Environment role of Heredity and Environment on Growth and Development Chronological Anatomical and Physiological Ages - Difference between			
Unit-IV	male and female structures and characteristics. PSYCHOLOGICAL BASIS OF PHYSICAL EDUCATION Psycho - Physical unity of human organism - Definition, nature an Types of Learning – Meaning and Types of Transfer of Training Importance of Transfer of Training in learning physical activities.			
Unit -V	SOCIOLOGICAL BASIS OF PHYSICAL EI Meaning and Definition of sociology Importance of Physical education and Sport Education and sports as a social Institution — culture and heritage - Meaning and types of Company of the social sport of the social	and ts in Sports	Sports Soci society -] and games	Physical enhance
Books for Re	affecting group behavior			
1. Kha 196	an, E.A. History of Physical Education, Scientific 4			
Phi	ow, H.M. Man and His Movement-Principles of I dadelphia, Lea and Febiger, 1971. Ther, C.A. Foundations of Physical Education, St.	•		
197				22.,

	Semester - II			
Course Code	Core Course – III	T/P	Credits	Hours
23BPE2C1	ORGANIZATION ADMINISTRATION AND METHODS IN PHYSICAL	Т	4	5
	EDUCATION			
Unit-I	Meaning and Importance of Organization and of Physical Education in: Schools, Colleges, Univ National Level.			
Unit-II	Facilities – Track, Play Grounds, Gymnasium, Swimming Pole – Layout o Play fields (Basketball, Kabbadi, Hockey, Volleyball, Cricket) Care and Maintenance of Play fields.			•
Unit-III	Method in Physical Education – meani Method Presentation Technique – Teaching Ai Management. Teaching of activities: Marching, Calisthen Hooks, Poles) Lezium, Folk dance – Minor Games	ds – F	Principles of the apparatus	of Class s(Wands,
Unit-IV	Teaching activities of minor games, major gam Practice, Suryanamaskar, Calisthenics, Light appa Commands, Marching.	es trac	k and field	d, Yogic
Unit -V	Tournaments – Types of Tournament, Combination Tournament, Methods of drawing Fixtures.	Knoc	k out,	League,
	·		-	

Kamlesh M.L. Scientific "Art of Teaching Physical Education" New Delhi Metropolitan 1994. Thiru. Narayanan C and Harishara Sharma "Methods in Physical Education" Karailkudi CJ and

S.H. 1989

Joseph. P.M. "Organization of Physical Education".

	Semester - II			
Corse Code	Core Course – III	T/P	Credits	Hours
23BPE2C2	Theory - TRACK & FIELD - I	T	4	4
	Track & Field - All Track and Field Events (Ground	Marki	ing)	
Unit-I	Layout of Standard Track – 400mts, Non standard marking.	d Track	z – 200mts	with all
Unit-II	Marking for sprint Event, Middle distance, Hurdle	– Men	and women	•
Unit-III	Marking for Long distance, Relay 4x100mts, 4x40 Mini marathon.	00mts,,	walking, n	narathon,
Unit-IV	Marking for Field Events – Shot put - discuss – Jar	velin –	Hammer thi	rough.
Unit -V	Marking for jumps – High Jump – Long jump – Tr	iple jun	np – Pole –	vault.

Conling David, Athletics, London, Robert Hale, 1980

Prabhakar Eric, The way to Athletic Gold, Madras East – West press Pct. Ltd., 1995

Dr.P.Mariayyah, Football, Sports Publications, Raja Street, Coimbatore.

Dr. P.Mariayyah, Kabaddi, Sports Publications, Raja Street, Coimbatore.

Dr. P.Mariayyah, Volleyball, Sports Publications, Raja Street,

Coimbatore.

Dr. P.Mariayyah, Track and Field, Sports Publications, Raja Street, Coimbatore.

Thompson Ganagon, Play Better Soccer in all colour, W.B.Saubders Company, 1972.

DHanaraj V.Hubert, Volleyball – A Modern Approach, Patiala, Sainsoris, 1991.

	Semester - II				
Course Code		T/P	Credits	Hours	
23BPE2S1	RECREATION	T	2	2	
TT *4 T	INTRODUCTION TO RECREATION				
Unit-I	Recreation: Definition, scope and significant	ice- Ph	ilosophy		
	and objective - Relationship of play, work and leisure -				
	Theories of play and recreation - Types of recre	eation -	- indoor,		
	outdoor.				
TT *4 TT	HISTORICAL DEVELOPMENT OF RECREATION				
Unit-II	Recreation - primitive culture - Greek period, Roman period and				
	ages. Development of Recreation in U.S.A - I	Recreat	ion in Ind	lia since	
	Independence				
	INFLUENCE OF RECREATION IN SOCIAL	INSTI	TUTIONS	}	
Unit-III	Various agencies which provide recreat	ion in	India. F	family,	
	Educational institutions, Community/	Cultu	ıral Re	ligious	
	organizations. Qualities & qualifications of a g	good re	ecreation 1	eader.	
	PROGRAMME PLANNINGIN RECREATION	V			
Unit-IV	General Principles of programme construction	n. Typ	es of Recr	eational	
	activities - indoor and outdoor games Arts and (Crafts.			
TI4 X7	Hobbies				
Unit -V	Introduction to hobbies. Types of hobbies-drama	ı, music	, aquatics,	dancing	
	nature study and hiking				
Dooles for Dof					

- Kelly,JR(1982). Leisure. Englwood Cliffs N.J: Prentice Hall Inc.
 Kran, R.G. (1964). Recreation and the schools. New York: Macmelon company.

 ${\it Recreation areas:} Their Design and equipments. (1958) New York: Ronal Press$

	Semester - II					
Course Code		T/P Credits H		Hours		
23BPE2S2	SPORTS JOURNALISM	T	2	2		
Unit-I	ideas - Journalism and sports Education					
Unit-II	Structure of sports Bulletin - Compiling a bulletin - Types of Bulletin - Hourly bulletinand special bulletin - External bulletins of Recreation in U.S.A - Recreation in Indi since Independence					
Unit-III	Sports as an integral part of Physical Education - Sports journalism - General news reporting and Sports reporting	organiz	ation and Sp	orts		
Unit-IV	Brief review of Olympic Games, Asian Games, Common Traditional Games.	Wealth	Games and I	ndian		
Unit -V	Mass Media in Journalism - Radio and T.V Commentary radio - Sports experts comments - Sports reviews for the Radio		_	ary onthe		

- Kelly,JR(1982).*Leisure*.EnglwoodCliffsN.J:PrenticeHallInc.
 Kran,R.G.(1964).*Recreationandtheschools*. NewYork:Macmeloncompan

Recreationareas: Their Designand equipments. (1958) New York: Ronal Press

	Semester - III				
23BPE3C1	Core Course – V	T/P	Credits	Hours	
	YOGA EDUCATION	T	3	3	
	Yoga: Meaning, Definition - Concept of Yoga -				
	Yoga – History of Yoga – Systems of yoga : Bhak				
Unit-I	Hatha yoga	-			
	Ashtanga yoga : Yama — Niyama — Asana — Pranayama — Pratyahara — Dharana — Dhayana — Samathi.				
	Asanas: Meaning and Definition - Classification of asanas: Meditative				
Unit-II	Relaxative, Cultural – Guidelines for practicing as		-	_	
	asanas and their benefits – Difference between physical exercise and yogi				
	asanas.				
	Pranayama: Meaning and Definition – Concept of	•			
	nadi – Pingala Nadi – Sushumna nadi – Controlling of breath: Puraka –				
Unit-III	Kumbhaka – Rechaka – Guidelines for practicing Pranayama – Benderal Pranayama – Types of Pranayama: Nadi Suddhi – Nadi Shodhana –				
	Bhedana – Kapalabhati – Bhastrika	Ivadi	Silouliana	Burya	
	– Sitkari – Sitali – Bhramari – Ujjayi. Bandhas: N	Meanin	g and Defir	nition –	
	Types: Jallandra – Uddiyana – Mula.	,	5 4414 2 411		
	Kriyas - Types of Kriyas - Procedures and Ben	nefits o	of: Kapalab	hati –	
	Tratakka – Neti (Jala neti, Sutra neti) – Dhauti; V	/amana	Dhauti –	Vastra	
Unit-IV	Dhauti – Nauli – Bhasti.				
CIIIt-I V	Mudra: Meaning – Types: Chin Mudra – Chinmay	a Mudi	ra – Yoga N	Iudra –	
	Brahma Mudra – Appana Mudra.				
	Meditation: Meaning and Definition - Concept o	f medi	itation – Ty	ypes of	
	meditation – Physiological benefits of meditation – yoga and competit				
Unit -V Principles of yogic Diet – Integration of Yoga with modern education					
	institutions in India and Abroad – General Yogic Sch	edule.			
) C D					

Iyengar B.K.S. (1989), Light on Yoga. London: Unwin Publishers New Delhi.

Chandrasekaran K.(1999) Sound Health through Yoga, Sedapatti: Prem Kalyan

Publicaions. Moorthy, A.M. and S. Alagesan (2004), Yoga Therapy, Coimbatore

Swami Sivananda (1983), Practical Lessons I Yoga, Shivananda Nagar : The Devine LifeSociety.

	Semester - III		Semester - III				
Course Code	Core Course – VI	T/P	Credits	Hours			
23BPE3C2	SCIENTIFIC PRINCIPLES OF SPORTS TRAINING	T	4	4			
Unit-I	Introduction–Meaning and Definition of Sports T Sports Training.	raining	- Princip	les of			
Unit-II	Training Load and Recovery – Factors of Load – Load intensity, Load Volume – judgement of Load – Relationship between Load and Adaptation Over Load.						
Unit-III	Training of Motor qualities: Strength : Forms – Means and Methods to improve strength Speed : Forms – Means and Methods to improve speed Endurance : Forms – Means and Methods to improve Endurance Flexibility : Forms – Means and Methods to improve flexibility. Coordination : Forms – Means and Methods to Improve Coordination.						
Unit-IV	Training plan – Periodisation – stages of per Periodisation – Preparatory period – Competition period – long term and shortterm plans – Cyclic pro	period	d – Transi				
Unit -V	Techniques preparation – Aims to techniques in spormethods for development of techniques in sports development. Aims of Tactics – Methods of tactical of	- stage	es of techi				

Hardayal Singh(1991) Science of sports Training, New Delhi: DVS

Publications. John Bunn, Scientific Principles of Coaching.

Miler, Fundamental of Track and Field Coaching.

	Semester - III			
Course Code	Core Course – VII	T/P	Credits	Hours
23BPE3C3	TEST AND MEASUREMENT & EVALUATION	Т	3	3
Unit-I	Meaning of Test, Measurement and Evaluation - Measurement and Evaluation - Need and Importation in Physical.	ance o	f measur	rement and
Unit-II	Classification of Test – Standardized and Teacher Ma Tests – construction of Knowledge's test and skill Test– Dutiesduring testing – Duties after Testing.			
Unit-III	Criteria of test selection – Validity, reliability, Objectivity, Norms, Administrative feasibility – Strength test – Bend Knee sit ups test. Flexibility test – Sit and reach test – Speed test – 50 mts run – Cardio respiratory Endurance – Cooper 2 minute Run /Walk test. Explosive strength test – Standing Broad Jump.			
Unit-IV	AAHPERD Youth Fitness test.JCP test Barrow motor ability testHarward step test Magaia – Kalamen power test			
	Test of Specific sport skills	1 41 11		T - 1
Unit -V	Badminton : French Short Serve Test Bas Basketball Ability test Hockey : Hendry Fri Soccer : Mc Donald Volleying Socces Miller Tennis test Volleyball : Helmen Volleyball test	edal]	Field Ho	ockey test.

Safrit Margarat J Measurement in Physical Education and Exercises Science, St Louis Times Morror Mos by college publishing.

Bosco James Measurement and Evaluation in Physical Education and Sports New Jersy Prenstice Hall in 1983.

Barry L. Johnson, Jack K. Nelson and Measurement for Evaluation in Physical education the Surject Publications.

A.K.Gupta Tests&Measurement in Physical Education sports publication New Delhi – 52

A Practical applied to measurement in Physical Education – Horold M. Borrow.

	Semester - IV				
Course Code	Core Course -VIII	T/P	Credits	Hours	
23BPE4C1	EXERCISE PHYSIOLOGY	T	3	3	
Unit-I	Metabolism and Energy Transfer :- Metabolism – Energy – Unit of measuring energy – Sources of energy – Adenosine Triphospate – Phosphagen system – Anacroble metabolism – Aerobic metabolism – Fat metabolism – protin metabolism – energy metabolism during rest, exercise and recovery – oxygen debt – oxygen deficit.				
	MORPHOLOGICAL FEATURE OF SKELETAL MUSCLE AND FUNCTION.				
Unit-II	Structure of the skeletal muscle – Chemical composition – Sliding filament theory of muscular contraction – muscle fiber types – fiber distribution and performance – A or none principle – muscle tone – Types of muscular contraction – Staircas Phenomenon or treppe – Heat production in the muscle – Residual musc soreness – Effect of Training on muscular system.			nce – All Staircase	
	RESPIRATORY SYSTEM AND EXERCISE:				
Unit-III	Mechanism of breathing – Pulmonary ventilation / minute ventilation during rest and exercise – control of ventilation – Lung volumes and capacities - Effect of exercise on Respiratory system.				
	CARDIOVASCULAR SYSTEM AND EXERCISE:				
Unit-IV	Structure properties of the heart and cardiac cycle, card exercise Stroke volume and heart rate – control of heart rate exercise on stroke volume– Blood pressure – factors affineart rate – Regulation of blood flow – effect of exercise of	ate – He fecting	eart rate re blood pres	sponseto sure and	
	EXERCISE AND ENVIRONMENT:				
Unit -V	Exercise and temperature regulations – Hot humid climate regulations in cold climates – Effect of High altitude o Physiological adaptations to altitude – Physiological conditions.	n Physi	cal perform	mance –	

William D.Mcarole. Frank.I Katch Victor.

Exercise Physiology Energy, Nutrition and Human performance Lea & Febiger Philade Richard

W.Bowers and Edward L. Fox – Sports Physiology Third Edition wm c Brown Publishers

Laurence E Morehouse Augustus T.Miller, JR Seventh Edition Physiology of Exercise The c.v. Mostly Company.

David H.Clarke Exercise Physiology prenties Hall, Inc: Englewood Cliffs, new jersey.Larry

G.Shaver Essentials of exercise Physiology surject publications.

Dr.Amrit Kumar R.Moses introduction to exercise physiology poompugar pathipagam.

Donald Health. David Reid Williams.

Man at high altitude second edition, Churchill livi gstone.

	Semester - IV			
Course Code	Core Course - IX	T/P	Credits	Hours
23BPE4C2	THEORIES OF MAJOR GAMES – III	T	3	3
	(Major Games :Kabbadi, Ball Minton, Kho-Kho)			
	FIELD – II Jumping Events (Long Jump, High Jump,			
	Triple Jump and Pole vault			
	History and development of the Field Events: Field eve		1 0	` _
Unit-I	Jump, High Jump, Triple Jump and Pole vault and Organizational set up in District, State and National and International level.			ict, State
Unit-II	Fundamental Skills – Lead-Up Games, Various Techniques – Selection of Athletes.			hletes.
Unit-III	Origin, History and development of the game Kabbadi, Ball Minton, Kho-Kho – International, National and State Level Organizations. Fundamental Skill – Lead Up Games – Various System of Play – Selection of Players.			
Unit-IV	Training: Warm-Up and Warm down — Technical Trac Coaching Program. Rules and their Interpretation — Score - Methods of Officiating - Duties of Officials.	_		_
Unit -V	Layout of Playfield with all Measurement, Facility specifications	ies and	equipment	and its

Dr. Anil Sharma, O.P. Sharma Rules of Sports, Sports Publication, 4264/3 Ansari RoadNew Delhi – 2.

Conling David, Athletics, London Robert Hale 1980

Dr. P. Mariayyah Track & Field, Sports publication, Raja St. Coimbatore

Ken O. Bosen, "Track & Field Fundamental Techniques NIS Publications, Patiala.

Doherty, J. Mennath, "Modern Track & Field", Englewood cliffs, Prentice Hall. Inc., New Jersey. Wein

Harat "The Science of Hockey" London Pelham Books, 1979

Tyson Frank "The Cricket Coaching Manual", Calcutta, Rupa & Co, 1985

	Semester - IV			
Course Code 23BPE4P1	PRACTICAL – III	T/P	Credit s	Hour s
	THEORIES OF MAJOR GAMES – III (Major Games :Kabbadi, Ball Minton, Kho-Kho) TRACK &FIELD – II Jumping Events (Long Jump, High Jump, Triple Jump and Pole vault	P	3	3

Testing on:

- 1. Fundamental Skills
- 2. Technical Play/skill
- 3. Playing Ability/ skill ability / Performance
- 4. Officiating Techniques

Scheme of Assessment:

5.	Fundamental Skill / Defensive and Offensive Skill	-	35
6.	Playing ability/Skill Ability / Performance	-	20
7.	Officiating Technique	-	10
8.	Record note	-	10
	TOTAL	_	75

Books for Reference:

Conling David, Athletics, London, Robert Hale, 1980.

Prabhakar Eric, The way to Athletic Gold, Madras East – West press Pvt. Ltd., 1995.

- Dr. P. Mariayyah, Football, Sports Publications, Raja Street, Coimbatore.
- Dr. P. Mariayyah, Kabaddi, Sports Publications, Raja Street, Coimbatore. Dr.
- P. Mariayyah, volleyball, Sports Publication, Raja Street, Coimbatore.
- Dr. P. Mariayyah, Track and Field, Sports Publications, Raja Street, Coimbatore.

Thompson William, Teaching Soccer, Delhi, Surjeet Publications 1996.

Carting Ganagon, Play Better Soccer in All Colour, W.B. Saubders Company,1972.

Dhanaraj V. Hubert, Volleyball – A Modern Approach, Patiala, Sainsoris, 1991.

Semester - V						
Course Code	Core Course – X	T/P	Credits	Hours		
23BPE5C1	SPORTS BIOMECHANICS & KINESIOLOGY	T	4	5		
	Meaning and Definition - aim, Need and Importance of Bio	-Mechan	ics in the	field of		
Unit-I	Physical education and sports – Types of motion-linear and an	ngular mo	otion – Fui	nction		
	– air and Water resistance.					
	Linear Kinematics - Distance and Displacement, Speed	*	•			
Unit-II	Acceleration and Projectile – Angular Kinematics – Angular distance and					
	Displacement, Angular speed, Velocity and acceleration.					
	Center of Gravity Equilibrium – Stages of equilibrium – Factors affecting – equilibrium.					
Unit-III	Centrifugal and Centripetal, Force-Direction-angle, Point of application – Lever –					
Unit-111	Principles and its types-Mechanical Advantage – Application of Levers in					
	Physical Education & Sports.					
Unit-IV	Inertia-Mass and Weight - Force-Factors affecting force-T	ypes of	force –			
Unit-1 v	Work, Power and Energy-Impact and Elasticity – Newton's La	aw of mo	tion.			
	Use of the above scientific principles in: Track & Field events – Running, throwing,					
Unit -V	Jumping – Basketball, football, Volleyball.					
,						

Greire millor, Paul & smith, Techniques for the analysis of Human movement lapse booksLondon 1975.

Bunn John W "Scientific Principles of coaching".

Charles "Fundamental of Sports Bio-Mechanics Techniques. Hay, James

G "The Biomechanics of Sports".

T. Mc Clurg Anderson Bio Mechanics of Human Motion.

	Semester - V							
Course Code	rse Code Core Course – XI T/P Credits Hou							
23BPE5C2	SPORTS PSYCHOLOGY & SOCIOLOGY	T	4	5				
	Meaning and Definition of Psychology and sports Psy		-					
	sports Psychology in India – Need and importance of s	sports Psy	chology in	the field				
Unit-I	Physical Education and sports.							
	Definition Motor Learning – Physical and Motor co	onsiderati	ons – Bod	y Build,				
	Height and Weight, Strength, Muscular, Endurance	e, Flexib	oility, Bala	nce Co-				
Unit-II	Ordination, Reaction time, Movement time and Reflex time Cognitive – Affeative – Psychomotor							
Unit-III	Definition of Perception – Theory of Perception Gestult Theory, Palror Theory and witkin's Theory emotional effects tension, anxiety and stress – its role in Physical education and sports.							
Unit-IV	Personality traits of sports person – composition of personality – Aggression – theories of Aggression – Psycho- regulative procedures. Autogenic training, yoga and Music's.							
Unit -V	Meaning, Nature and Scope of Sociology in Physical factors in sports – Leadership in sports spectators and Integration.							

Alderman A.B. Psychology Behavior in sports W.B. Saundar company Saundar 1974. Puni A.T. Sports Psychology Chanduga NIS. Alderman Psychology Behavior

Cratty B.J. Psychology and Physical acivity. Singer R.N. Coaching, Athletics and Physiology.

	Semester - V						
Course Code Core Course – XII T/P Credits H							
23BPE5C3	COMPUTER APPLICATION IN PHYSICAL						
	EDUCATION	T	4	5			
Unit-I	Introduction to Computer – History of Computers – Block diagram of a Computer – Input Devices, Keyboard and Monitor, Visual Display Terminal, Function Keys Numeric Key pad, Light Pen and Mouse, Bar Codes – Out put Devices, Video Display unit – Dot Matrix Printers, Line Printers.						
Unit-II	Memory, Function of Memory, Read only Memory (ROM), Random Access Memory (RAM), Floppy Disk, Magnetic tape, Hard Disk – Central Processing Unit – Important characteristics of a computer.						
Unit-III	Software and Hardware, Machine Language, Assembly Language, High Level Language, Advantages of High Level Languages, Interpreters, Operating Systems, Basic Knowledge about different Software packages(Dbase, Spread Sheet, Word Processors)						
Unit-IV	Unit-IV Applications in windows – Application and document files, M.S.Dos. Clockand Calendar, Calculator, Paint, WordPad – Working with multiple applications.						
Unit -V	Practical – Windows '98 Word PowerPoint and Excels -	- 100 Mark	S				

Cassel. P and Hart. M Windows 98, Techmedia , New Delhi, 1998

Norton. P, Complete Guide to Windows, BPB Publication, New Delhi, 1998Teach

Yourself Excel 97 for Windows, BPB Publication, New Delhi, 1998 Mastering

Power Point for Windows, BPB Publication New Delhi, 1996 Computer Basics,

BPBP Publications, New Delhi.

Computer Concepts and Facts, BPB Publication, New Delhi.Handbook

for Windows, Power Point and Excel.

National Institute for Computer Education, Chennai

	Semester - V						
Course Code	Core Course - XIII	T/P	Credits	Hours			
23BPE5C4	RESEARCH AND ELEMENTARY STATISTICS	T	4	5			
	INTRODUCTION						
Unit-I	Definition for Research – Need, importance and scope Education – Basic research – Applied research.	of resear	ch in Physi	cal			
	FORMULATION AND DEVELOPMENT OF RESI	EARCH	PROBLEM	[
Unit-II	Unit-II Location of research problem – Criteria in selecting the research problem – Hypothesis – Research proposal.						
	HISTORICAL RESEARCH						
Unit-III	Definition of Historical research – Steps in historical reseduta-primary and secondary sources of data – Historical						
Unit-IV	Definition and meaning of variables, constants, population, sample and parameter – Scales of Measurement - Nominal, Ordinal, Internal and Ratio – Definition and meaning of range, quartile deviation, mean deviation and standard Deviation – Computation of standard deviation and quartile deviation from ungrounded and grouped data- Characteristics and uses of measures of variability.						
Unit -V	Meaning and importance of percentiles – Computation of percentiles from ungrouped data and grouped and grouped data – Construction of percentiles scales – Computing percentiles in deciles and quartiles.						

References:

Clarke, David Hand Clarke H.Harrison Research process. In physical education (2nd edition) Englewood cliff, new jersey, prentice hall, Inc. 1984

Best John W.Research in Education, Englewood clifts, New jersey, prentice hall, Inc.1971

Semester - V							
Course Code	DSE	T/P	Credits	Hours			
23BPE5E1	SPORTS MEDICINE AND PHYSIOTHERAPY	T	3	4			
Unit-I	Common Athletic injuries and their treatment, Sprain, Strai Types of fracture and their treatment	n.					
Unit-II	Dislocation, Muscle cramp, Bleeding, Wound and its types, Contusion, Abrasion and Puncture wounds						
Unit-III	Meaning, Nature, Need and importance of Physiotherapy Short wave Diathermy, Microwave Diathermy, Diapulse Diathermy, Ultra Sound Waves, Infra red rays, Ultra violet rays.						
Unit-IV	Brief History of Message Classification of the Manipulatechniques and uses indication of all manipulation	ations 1	used in me	ssage the			
Unit -V	Rhumatic Conditions 1. Classification – Rhumatoid Arthritis 2. Spondylytis 3. A cute respiratory conditions 4. Chronic respiratory conditions 5. Conditions of the Nervous System. Introduction, Sign and Symptoms of neurological dis-orders likeParalegia, Hemiplegia, Cerebral Palsy.						

Thorndike, Athletic injuries.

I.B. Clayton, Text Book of Electro therapy and Action therapy. Edwin M.

Prasnet, Manual of message and Movements.

R. Foracks, Exercise Therapy.

M. V. Locs, Manual of Message.

Adish Luchwald, Physical Rehabilitation for Daily Living.

		Semester - V			
Course Code	e	DSE		Credits	Hours
23BPE5E2		SPORTS NUTRITION	T	3	4
	IN	FRODUCTION TO NUTRITION			
Unit-I	De	finition – Meaning – Need of sports Nutrition – Esserients minerals and vitamins – Water –basic four fooly recommended allowances.			
Unit-II	CARBHOHYDRATES: The nature of CHO – Kinds and sources of CHO – recommended intake of CHO – Role of carbohydrates in the body – energy sources – protein sparing – metabolic primer Fuel for the central nervous system – CHO balance in exercise – Intense exercise – moderate and prolonged exercise – effect of diet on muscle glycogen – administration of oral glucose.				
	in car	T ture of fat – kinds and sources of fat – Recommended in the body – energy sources and reserve – protection a rier and Hunger depressor – Fat Balance in Exercise – aring – Fat rich foods.	and ins	ulation –	vitamin
Unit-III	PROTEIN The nature of protein – kinds and sources of protein – recommended into protein Role of protein in the body – Protein balance in exercise – dynam proteinmetabolism – protein rich foods.				
	VITAMINS The nature of vitamins – kinds of vitamins – Role of vitamins in the body – vitamins and exercise performance – Dietary sources – RDA – Vitamins and functions – vitamins deficiency diseases – vitamin rich foods.				
IIa W	The boo	NERALS e nature of minerals – kinds and sources of minerals – dy – Minerals and exercise performance – Recommentations – deficiency – diseases – Dietary sources.			
Unit-IV	Wat wat Ath	ATER: ater in the body – water balance intake versus output – interior requirement in exercise – Dehydration – Rehydration letes – Liquid meal.		•	
	DIE	ET PLANNING FOR SPORTS PERSON:			
Unit -V	Nut	Diet planning – factors determining diet planning – The rition before exercise – pre game meal carbo-loading for rition afterexercise – electrolytes and its function – so dedium Chloride(Salt) – Electrolyte replacement.	or endu	rance exer	cise –

William D. Mc Arodle Frank I. Katch Victor L Katch Exercise Physiology Energy, Nutrition and Human performance Lea & Febiger Philadelphia

Richard W. Bowers on Edward L. Fox sports Physiology Third Edition.WM. C. Brown Publishers.

Laurence E. Morehouse Augustus T. Miller, Jr. Seventh edition Physiology of exercise. The C.V.Mosby Company.

David H. Clarke exercise Physiology prentice – Hall, Inc. Englewood Cliffs, New Jersey.

Larry G. Shaver Essentials of Exercise Physiology subject publications.

	Semester - VI					
Course Code	Core Course-15	T/P	Credits	Hours		
23BPE6C1	SPORTS MANAGEMENT	Т	4	6		
Unit-I	Unit-I Meaning and Definition of Sports management – Scope of sports management – Basic principles of sports management – Functions of sports management.					
Unit-II	Personal management: Objectives – Personal policies – Personal Recruitment - Role of Personal manager. Programme management: Importance of programme development – Factors influencing programme development – Competitive sport programs.					
Unit-III	Unit-III Sports marketing: Meaning – Factors involved in the marketing of sports – Market awareness – Developing a target market strategy – Quality and price of sportsproducts.					
Unit-IV	Supplies of sports Equipment: Guidelines for selection and supply of equipments - Equipment room, Equipment and supply manager – Guidelines forchecking, storing and issuing – Care and Maintenance of equipments.					
Unit -V	Unit -V Accounting and Budgeting – Definition and role of accounting in sport and fitness enterprise Raising of funds – Types of Budget – Budget record maintenance – The accounting system.					

Bucher A. Charles (1993) Management of Physical Education and sports (10th ed.,) St. Louis: Mobsy Publishing Company.

Chellaldurai. P(1999) Human Resource Management in sport and Recreation, Human kinetics.

Chakraborthy, Samiram (1988), Sports Management, Sports publications, New Delhi.

Lazer. W and Cultey. J Marketing Management. Boston Houghton Miffing Co.Ruben

Acosta Hernandez, Managing sport organizations, Human kinetics.

Semester - VI							
Course Code	Core Course-16	T/P	Credits	Hours			
23BPE6C2	HEALTH EDUCATION AND FIRST AID	T	4	6			
Unit-I	Meaning, Nature, Need and Scope of health Education. Factors influencing Health. Unit-I State, National and International health organization. Meaning of wellness and Health – components of Health-Physical and Mental Health. Community health Environment health, Occupational health. Personal hygiene School health programme.						
Unit-II	Communicable diseases – agent, causative organism, Incubation period-Mode of spread, sign and symptoms and preventive measure of typhoid, Cholera, Pulmonary						
Unit-III	Definition – Characterstics – Principles of Safety Education – Need for Safety Education in Physical Education. Factors affecting safety – Need and Importance of safety for preventinginjuries.						
Unit-IV	Definition and importance of first aid – first aid for Athletic injuries – sprain, strain – dislocation – cramp – fracture and its types.						
Unit -V	Sign, Symptoms and first aid for Poisoning, Drowning, Dog Bit and Burns. Types						

Mangal SK and Chandra, P.C. (1979) Health and Physical Education, Ludhiana Tandon Brothers Publication.

Neiniah (1978) School Health Education, New York: Harper and Brothers

Royappa, Daisy Joseph and Govindarajulu, JK. (1972) Safety Education First

Aid to the Injured, New Delhi: St. John Ambulance Association

School Safety Policies, Washington: America Association for Health, Physical Education and Recreation.

Florio, A.E and Stafford, G.T., (1969) Safety Education, New York: Mc Graw Hill BookCompany.

William, Evans, A, (1952) Everyday Safety, Lyons and Carnahan

Miller, David. E, (1976) Occupational Safety, Health and Fire Index, New York: Marcel DekkerInc.

Semester - VI							
Course Code	Core course- 17	T/P	Credits	Hours			
2BPE6C3	Movement Education and Primary Physical Education	T	4	6			
Unit-I	Unit-I Introduction to Movement Education Meaning, Definition, Aim, Concept and Factors of Movement Education. Movement Education - Foundation for an active lifestyle, Innovative teaching ideas for movement 15 education. Fundamental Movements – Locomotor, Non- locomotor and manipulative skills children.						
Unit-II	Structure and Methods of Movement Education Movement analysis - Body awareness, Spatial awareness, Qualities of Movement and Relationship of Movements. Methods of teaching used in movement education: Direct method, Indirect method, Limitation method.						
Unit-III	Primary Physical Education Introduction, Aims and objectives of Primary PE, Scope and selection of activity, Principles and themes, Guidelines for good practices, Learning experiences, Promoting participation and activities						
Unit-IV	Basic Structure and Terminology Atheltics, Dance, Gymnastics, Games, Outdoor adventure activities, Aquatics. Developing understanding and Appreciation.						
Unit -V	Unit -V Approaches and methodologies Variety of approaches: Direct teaching approach, Guided discovery approaches Organizing the PE lessons: Individual, peer group, team play and station teaching Approaches to activities, suggested equipments for PE						

- **1.** Polsgrove, Myles Jay, and Roch Lockyer. "Systems based model: A Holistic Approach to Developmental Movement Education." Journal of Bodywork and Movement Therapies(2018).
- **2.** Lu, Chunlei, and Amanda De Lisio. "Specifics for generalists: Teaching elementary physical education." International Electronic Journal of Elementary Education 1.3 (2017):170-187.
- **3.** Pope, Clive C., and Bevan C. Grant. "Student experiences in sport education." Waikato Journal of Education 2.1 (2017).

Semester - VI						
Course Code	DSE - 3	T/P	Credits	Hours		
23BPE6E1	THEORIES OF MAJOR GAMES -IV	T	3	5		
	(Major Games: Badminton, Boxing and Tennis)					
	FIELD – IV – Throwing (Shot Put, Discuses, Javelin)					
Unit-I	History of Field: Throws, Organizational set up in District, State and National level. Unit-I Shot Put: Fundamental skills: Grip, Placement of shot, initial stance, Glide Releasing, Reserve Hammer Throw: Initial stance – rotation – Releasing and Follow through. Javelin: Holding – Approach run – release – reverse.					
Unit-II	Fundamental Skills – Lead-Up Games, Various Techniques – Selection of Athletes.					
Unit-III	Origin History and development of the game Radminton Roying and Tennis -					
Unit-IV	Training: Warm-Up and Warm down - Technical Training - Tactical Training -					
Unit -V	Layout of Playfield with all Measurement, Facilities and equipment and its specifications					

Dr. Anil Sharma, O.P. Sharma Rules of Sports, Sports Publication, 4264/3 Ansari Road New Delhi – 2.

Conling David, Athletics, London Robert Hale 1980

Dr. P. Mariayyah Track & Field, Sports publication, Raja St. Coimbatore

Ken O. Bosen, "Track & Field Fundamental Techniques NIS Publications, Patiala.

Doherty, J. Mennath, "Modern Track & Field", Englewood cliffs, Prentice Hall. Inc., New Jersey. Wein Harat "The Science of Hockey" London Pelham Books, 1979

Tyson Frank "The Cricket Coaching Manual", Calcutta, Rupa & Co, 1985

	Semester - VI						
Course Code	DSE - 4	T/P	Credits	Hours			
23BPE6EP	PRACTICAL- IV THEORIES OF MAJOR GAMES - IV (Major Games: Badminton, Boxing and Tennis) FIELD – IV – Throwing (Shot Put, Discuses, Javelin	P	3	5			
	GAME						

General and specific conditioning exercise

Fundamental Skills

Drills for developing the skills

Team Tactics and Strategy

System of Play

Standardized skill test

Scouting of Performance

Rules

Officiating

ATHLETICS

General and specific conditioning exercise

Teaching of Skill

Practicing the Skills

Equipments

Scouting of Performance

Rules

Officiating techniques

Practicing the Skills

Equipments

Scouting of Performance

Rules

Officiating techniques

Title of the Course		ESSENTIAL REASONING AND QUANTITATIVE APTITUDE							
Paper Number		Professional Competency Skill							
Category	PCS	Year	III	Credit	S	2	Sub.	. Code	
		Semester	VI				23BPE6S1		
Instructional		Lecture	Tu	torial Lab Practi		Practi	ce	Total	
Hours per week		1	1		-			2	
Objectives of the Course		 Develop Problem solving skills for competitative examinations Understand the concepts of averages , simple interest , compound interest 							
UNIT-I:		Quantitative Aptitude: Simplifications=averages-Concepts –problem-Problems on numbers-Short cuts- concepts –Problems							
UNIT-II:		Profit and Loss –short cuts-Concepts –Problems –Time and work - Short –uts -Concepts -Problems.							
UNIT-III:		Simple interest –compound interest- Concepts- Prolems							
UNIT-IV:		Verbal Reasoning : Analogy- coding and decoding –Directions and distance –Blood Relation							
UNIT-V:		Analytical Reasoning: Data sufficiency Non-Verbal Reasoning: Analogy, Classification and series							
Skills acquired from this course		Studnets relating the concepts of compound interest and simple interest							
Recommended Text		1."Quantitative Aptitude" by R.S aggarwal ,S.Chand & Company Ltd 2007							
Website and e-Learning		https://nptel.ac.in							
Source									