




**UNIVERSITY OF SARGODHA
OFFICE OF THE REGISTRAR
(ACAD BRANCH)**

NOTIFICATION

On the recommendations of Academic Council made in its 21st (2/2024) meeting held on 07.06.2024, the Syndicate in its 67th (3/2024) meeting held on 12.07.2024 approved the revised curriculum of BS Physical Education (5th Semester Intake) for implementation w.e.f Fall 2023 (Annex-'A').


(WAQAR AHMAD)
Additional Registrar (General)

No. SU/Acad/24/771

Dated: 03.10.2024

Distribution:

- Incharge, Department of Sports Sciences
- Controller of Examinations
- Director Academics

C.C:

- Dean, Faculty of Arts & Humanities
- Director, QEC
- Additional Registrar (Affiliation & Registration)
- Secretary to the Vice-Chancellor
- PA to Registrar
- Notification File

BS PHYSICAL EDUCATION (5th Semester Intake)**Eligibility:** At least 45% marks in Graduation or equivalent - Qualify Physical Efficiency Test**Duration:** 02 Year Program (04 Semesters)**Total Credit Hours:** 66

1st Semester (5th Semester Intake)		
URCG-5111	Translation of the Holy Quran – III	0 (0-0)
COMS-5131	Sports Communication	3 (3-0)
PHYS-5161	Physics	3 (2-1)
PEDU-6414	Research Methodology in Physical Education	3 (3-0)
PEDU-6415	Science of Sports Training	3 (3-0)
PEDU-6416	Practical Athletics (Middle & Long Races)	2 (0-2)
PEDU-6417	Practical Games (Foot Ball & Basket Ball)	2 (0-2)
	Semester Total Credit Hours	16
2nd Semester (5th Semester Intake)		
STAT-5101	Introductory Statistics	3 (3-0)
PEDU-6418	Scientific Coaching	3 (3-0)
PEDU-6419	Curriculum Development in Physical Education	3 (3-0)
PEDU-6420	Sports Administration and Management	3 (3-0)
PEDU-6421	Practical Athletics (Sprint Races)	2 (0-2)
PEDU-6422	Practical Games (Table Tennis, Badminton)	2 (0-2)
	Semester Total Credit Hours	16
3rd Semester (5th Semester Intake)		
URCQ-5114	Translation of the Holy Quran- IV	0 (0-0)
PEDU- 6423	Basic Human Anatomy	3 (3-0)
PEDU-6424	Research Project / Thesis/ Internship	3 (3-0)
PEDU-6425	Science of Track & Field	3 (3-0)
PEDU-6426	Sports Psychology	3 (3-0)
PEDU-6427	Test, Measurement & Evaluation in Sports	3 (3-0)
PEDU-6428	Practical Games (Volley Ball & Hand Ball)	2 (0-2)
	Semester Total Credit Hours	17



4th Semester (5th Semester Intake)		
PEDU- 6429	Sports Nutrition	3 (3-0)
PEDU-6430	Sports Biomechanics	3 (3-0)
PEDU-6431	Theory of Games	3 (3-0)
PEDU-6432	Research Project / Thesis/ Internship	3 (3-0)
PEDU-6433	Exercise Physiology	3 (3-0)
PEDU-6434	Practical Hiking & Hill Tracking	2 (2-0)
	Semester Total Credit Hours	17
	Total Credit Hours	66

Objectives:

☞ To introduce ethics and highlight its importance, need and relevance for individual and collective life.

☞ To illuminate the students with the Quranic norms of Morality i.e. truthfulness, patience, gratitude, modesty, forgiving, hospitality etc.

☞ To familiarize the students with immoral values like falsify, arrogance, immodesty, extravagance, backbiting etc.

☞ To inculcate ethical and moral values in our youth.

☞ To develop a balanced dynamic and wholesome personality.

☞ To introduce the students to Quranic Arabic grammar in practical manner.

Contents:

اخلاک (تعارف، ضرفرت، فاهیت، اتسای، معنویت

اخلاک : حسنہ

ریائی کو نیکی سے مٹانا

نیکی کے کاموں میں مسابقت

لوگوں کے درمیانی صلح

عدیٰ قانصاگ

سچائی

ایثار

سلیم قلب

مہمانی نوازی

لغوات سے اعراض

عاجزی ف انکساری

ہ گاہ فر آواز کو پست رکھنا

چائی میں میانہ رنی

شرمگاہوں کی ❖ حفاظت

صبر

شکر

امور ❖ یں ❖ میانہ ❖ رنی

اخلاک ❖ ہی

سی

:

ظلم ❖ افر ❖ زائدی

غرفرف ❖ تکبر ❖

نفسانی ❖ خواہشاتگی ❖ پیرنی

بدگمانی ❖

جھوٹ

چغلی ❖ افر تہمت ❖

تمسخر ❖ افر شیخی ❖ خوری

لہوف ❖ لعب ❖

ریے ❖ ناموں سے ❖ پکارنا

احسائی ❖ جتانہ ❖ افر تکلیف ❖ دینا

فضوی ❖ خرچی ❖ افر حد ❖ سے ❖ بڑھنا

حد ❖ افر تنگ ❖ دنی

بے ❖ پردگی

الحجرات (هـ غ ، ٧٧ ، ٧٨ ، ٧٩ ، ٨٠ ، ٨١ ، ٨٢ ، ٨٣ ، ٨٤ ، ٨٥ ، ٨٦ ، ٨٧ ، ٨٨ ، ٨٩ ، ٩٠ ، ٩١ ، ٩٢ ، ٩٣ ، ٩٤ ، ٩٥ ، ٩٦ ، ٩٧ ، ٩٨ ، ٩٩ ، ١٠٠)

(١٠١ ، ١٠٢ ، ١٠٣ ، ١٠٤ ، ١٠٥ ، ١٠٦ ، ١٠٧ ، ١٠٨ ، ١٠٩ ، ١١٠ ، ١١١ ، ١١٢ ، ١١٣ ، ١١٤ ، ١١٥ ، ١١٦ ، ١١٧ ، ١١٨ ، ١١٩ ، ١٢٠)

الاحزاب

المحشر (هـ)

ط (١٢١)

الانعام (١٢٢ ، ١٢٣ ، ١٢٤ ، ١٢٥ ، ١٢٦ ، ١٢٧ ، ١٢٨ ، ١٢٩ ، ١٣٠ ، ١٣١ ، ١٣٢ ، ١٣٣ ، ١٣٤ ، ١٣٥ ، ١٣٦ ، ١٣٧ ، ١٣٨ ، ١٣٩ ، ١٤٠)

يوسف (١٤١)

الرعد (١٤٢ ، ١٤٣ ، ١٤٤ ، ١٤٥ ، ١٤٦ ، ١٤٧ ، ١٤٨ ، ١٤٩ ، ١٥٠)

الفجر (١٥١)

يونس (١٥٢ ، ١٥٣ ، ١٥٤ ، ١٥٥ ، ١٥٦ ، ١٥٧ ، ١٥٨ ، ١٥٩ ، ١٦٠ ، ١٦١ ، ١٦٢ ، ١٦٣ ، ١٦٤ ، ١٦٥ ، ١٦٦ ، ١٦٧ ، ١٦٨ ، ١٦٩ ، ١٧٠)

الفرقان (١٧١ ، ١٧٢ ، ١٧٣ ، ١٧٤ ، ١٧٥ ، ١٧٦ ، ١٧٧ ، ١٧٨ ، ١٧٩ ، ١٨٠)

النور (١٨١ ، ١٨٢ ، ١٨٣ ، ١٨٤ ، ١٨٥ ، ١٨٦ ، ١٨٧ ، ١٨٨ ، ١٨٩ ، ١٩٠ ، ١٩١ ، ١٩٢ ، ١٩٣ ، ١٩٤ ، ١٩٥ ، ١٩٦ ، ١٩٧ ، ١٩٨ ، ١٩٩ ، ٢٠٠)

القدر (٢٠١ ، ٢٠٢ ، ٢٠٣ ، ٢٠٤ ، ٢٠٥ ، ٢٠٦ ، ٢٠٧ ، ٢٠٨ ، ٢٠٩ ، ٢١٠)

الاسراء (٢١١ ، ٢١٢ ، ٢١٣ ، ٢١٤ ، ٢١٥ ، ٢١٦ ، ٢١٧ ، ٢١٨ ، ٢١٩ ، ٢٢٠)

الزلزل (٢٢١)

المدثر (٢٢٢ ، ٢٢٣)

المدثر (٢٢٤)

ناظر (٢٢٥)

الفتح (٢٢٦)

البلد (٢٢٧)

الزمر (٢٢٨ ، ٢٢٩)

الحجر (٩٠) (بغض)

النجم (٩٤)

الرحمن (١٠٠) (بغض)

هود (٩٠) (بغض، ١٨، ٤١، ٤٠)

الكهف (٨٠) (بغض)

الشورى (٩٠)

غافر (٨٠) (بغض، ٨٠)

الحديد (٨١) (بغض، ٨١)

مریم (بغض)

النازعات (٤٧)

التوبه (بغض، ٧٠، ٧١، ٧٢)

Sports communication and marketing offers instruction, analysis, and training in the principles and practice of public relations in sports organizations. Emphasis is on media relations and skills essential for sports communication professionals, including handling media interactions across platforms, problems, crises, and integration of positive communication strategies with strategic goals of sports organizations. After the course, students will be able to demonstrate an understanding of the basic skills necessary to effectively carry out day-to-day responsibilities in sports communications and sports information professions. Students will be able to develop contents, including effective writing, from a sports perspective and effectively integrate communications strategies with a sports organization's goals. Students will be able to distinguish between sports communication perspectives and sports journalism. Students will be able to demonstrate understanding and skills and strategies in handling negative publicity and communication crises in sports organizations. The course will train future athletes, coaches, sports executives and owners to effectively handle media interviews and use of social media to project and market sports. Students will learn basics of sports marketing, sports promotion and publicity.

Contents

1. Sports Communication and marketing
2. Importance of sports communication for players
3. Public Relations in Sports
4. PR as a management tool, stakeholders and constituents, issue management, organizational reputation
5. Forms of Writing; types of releases in sports events
6. Audience Awareness and common errors in interview skills by the players
7. Planning for sports related coverage in print, electronic and social media
8. Creation and management of social media accounts and pages related to sports
9. Strategies for sports promotion and marketing
10. Early stage of campaign development for sports promotion
11. Nature of sports related crisis; communication strategies for crisis management
12. Global mega events and expanded coverage on traditional and social media
13. Sports branding and promotion
14. Laws related to mainstream media and social media
15. Tools and techniques of trend setting on social media

Suggested Readings

1. Billings, A.C; Butterworth, M.L; & Turman, P. D. (2012). *Communication and Sport: Surveying the Field (4th ed.)*. Sage.
2. Stoldt, G.C; & Dittmore, S.W; Ross. M; & Branvold, S.E. (2021). *Sport Public Relations (3rd ed.)*. Human Kinetics.
3. Bernstein, A; & Blain, N. (eds.). (2003). *Sport, media, culture: Global and local dimensions*. Routledge.
4. Heather, L. H., & Billings, A.C. (eds.). (2010). *Examining identity in sports media*. Sage.

Physics is the science of Nature - of matter and energy in space and time. Physics is very dependent on mathematics. Models and theories in physics are expressed using mathematical equations. However, while physics uses mathematics to describe the material world, mathematics may deal with strictly abstract concepts and patterns. There is a large overlap between the two fields.

Contents

1. Vector Analysis
2. Particle Dynamics
3. Work , Power and Energy
4. System of Particles ,
5. Collisions,
6. Waves and Oscillations ,
7. Harmonic Oscillations ,
8. Waves in Physical Media, Sound Light Interface ,
9. Diffraction ,
10. Polarization .

Lab-1

Modulus of rigidity by static and dynamic method (Maxwell's needle, Bartons Apparatus).

Determination of moment of inertia of a solid/hollow cylinder and a sphere etc.

To study the conservation of energy (Hook's Law).

Recommended Texts

1. Sear and zemansky, University physics with modern Physics, 12th edi, pearson, 2008.
2. Fundamental of Physics, Jearl walker, 8th edition.
3. Physics, Resnic, Halliday, Krane, 4th edition volume 1 .

Suggested Readings

1. Giancoli, Douglas C, Physics for scientist and Engineers with modern Physics, 2nd edition, Prentice Hall Inc, 1988.
2. Beiser A, concepts of modern physics, 4th edition, McGraw-Hill Book Co, 1987.

This course is a graduate level course of M.Sc. Physical Education. This course will provide students a basic understanding of research objectives, research problems, hypothesis, design, methodologies, instrumentation, statistical procedures, analysis, precision, variables, population and sampling. Enable them to read and interpret research articles, analyse the data presented therein and discover causes and effect relationship of variables, correlation, draw general principles and scientific generalization that can be applied to the solution of a wide range of problems in sports sciences, physical education and recreation nationally and internationally. Students will learn to read and interpret existing research articles, to select appropriate methodologies for a researchable question, and conduct a literature review on a topic of their own interest. The course will also build their foundation to prepare a research proposal while discovering a research gap from available literature including selection of research methods appropriate to meet desired outcomes of their research study.

Contents

1. Introduction of Research
2. Formulation and Selection of Research Problems
3. The Hypothesis
4. Methods of Research Design
5. Experimental Research
6. Methodology
7. Data Collection
8. Data Analysis
9. The Research Report

Recommended Texts

1. Jadhav, K.G., Pagare S.B., & Singh, S.K. (2007). *Research process in physical education & sports: an introduction*. New Delhi, India: Khel Sahitya Kendra Publishers.
2. Thomas, J. R., Nelson, J. K., & Silverman, S. J. (2015). *Research methods in physical activity* (7thed.). Champaign, IL: Human Kinetics.

Suggested Readings

1. Price, M. (2013). *Lab reports and projects in sport and exercise science: A guide for students*. London, UK: Routledge.
2. Bell, J., & Waters, S. (2014). *Doing your research project: A guide for first time researchers* (6thed.). London, UK: McGraw Hill.
3. Veal, A. J., & Darcy, S. (2014). *Research methods in sport studies and sport management: A practical guide*. London, UK: Routledge.
4. Smith, M. F. (2018). *Research methods in sport* (2nded.). London, UK: Sage Publications.

This course is a graduate level course of M.Sc. Physical Education. Sports training course is designed to improve fitness level for the purpose of improving ability to perform a given sport. It includes corrective and restorative exercise, strength training, conditioning and cardiovascular training, sports specific techniques and drills, periodization, nutritional advice, mental and psychological training, and monitoring by a qualified trainer. The main aim of sports training is to improve the performance of athletes and is the most important aspect of Physical Education. The purpose of sports training is to achieve the highest possible sports result for a given individual. Training is efficient if this result is achieved with a minimal expenditure of time and energy. In accordance with the above statements, Science of Sports Training tells the reader how to achieve maximal results with minimum of effort. The purpose of athletic training is to achieve the highest possible sports result for a given individual. Training is efficient if this result is achieved with a minimal expenditure of time and energy.

Contents

1. Physical Fitness
2. Components of physical fitness
3. The Endurance Abilities
4. The Strength Abilities
5. The Speed Abilities
6. Flexibility
7. Psychological Training
8. Body Composition
9. Training Method
10. Training principles

Recommended Texts

1. Joyce, D. (2014). *High-performance training for sports* (2nded.). Champaign, IL: Human Kinetics.
2. Prentice, W. E. (2017). *Principles of athletic training: A competency-based approach* (16thed.). Vancouver, B.C: Langara College.

Suggested Readings

1. Konin, J. G., & Ray, R. (2019). *Management strategies in athletic training* (5thed.). Champaign, IL: Human Kinetics.
2. Gibson, A. L., Wagner, D. R., & Heyward, V. H. (2019). *Advanced fitness assessment and exercise prescription* (8thed.). Champaign, IL: Human Kinetics.
3. Lox, C. L., A., M. G., Gainforth, H. L., & Petruzzello, S. J. (2020). *The psychology of exercise integrating theory and practice* (5thed.). New York: Routledge

PEDU-6416 Practical Athletics (Middle & Long Distance Races) 2 (0-2)

During course students will develop their running skills as well as their knowledge of the rules equipment and central form of athletics. Compose and perform their routine. Demonstrate knowledge of the principles of particular event and races, they will also develop motor skills and gain the necessary know-how for races. The basis of the knowledge athletes and coaches develop their individual reactions to different training approaches there is adaptation and transformation when training methods are displaced and enacted by different athletes.. It also provides the range of tests and techniques for testing Physical fitness, motor abilities and specific sports skills. e.g. (Reaction time, Endurance, Muscular Strength, Flexibility, Balance, Power, Speed, Agility, Coordination, Test criteria, Methods of grading etc. This paper analyses the evolution of training methods in distance running and highlights knowing as a local enactment that involved a process of displacing and transformation the importance of the cardio-vascular functions for the improvement of resistance alongside the use of message, breathing exercises, and appropriate diet.

Contents:

1. Introduction/rules and regulations of middle and long distance races
2. General and specific warm-up and cool down exercises.
3. Races with different intensity
4. Resistance Training
5. Starting technique, acceleration and finishing technique.
6. Endurance training (aerobic, anaerobic and work capacity)
7. Strength training (absolute strength, general strength, elastic strength and strength endurance)
8. Speed training (absolute speed, speed endurance, optimal speed)
9. Multi pace training
10. Coordination exercises (agility, mobility, balance, technical execution)
11. Fartlek training
12. Power training
13. Introduction of periodization training
14. Importance of weight training
15. Specification to complete the middle and long distance races
16. Duties of officials and organizing committee

Recommended Texts

1. Konin, J. G., & Ray, R. (2019). *Management strategies in athletic training* (5thed.). Champaign, IL: Human Kinetics.
2. Cleary, M., & Flanagan, K. W. (2019). *Acute and emergency care in athletic training*. Champaign, IL, Human Kinetics.

Suggested Readings

1. Cartwright, L. A., & Peer, K. (2018). *Fundamentals of athletic training* (4thed.). kent, state university united states of america. Champaign, IL, Human Kinetics.
2. Kaufman, K. A., Glass, C. R., & Pineau, T. R. (2018). *Mindful sport performance enhancement: Mental training for athletes and coaches*. American Psychological Association.

This course will enable the students to know about the different technology being used in different games and sports along with its function for the purpose of understanding the movement, identifying the mistakes and developing the sporting skills and techniques. The student will also understand difference between the maximum, basic and absolute strength. Sports help students to develop their physical skills, get exercise, make friends, have fun, learn to play as a member of a team, learn to play fair, and improve esteem. The major objective of the course games and sports to get freedom from the stress, worries. Sports and Games are mental and physical activities and contest. Moreover, it increases the immunity of the person. As it increases the blood flow in the body and makes it adaptable for exertion. Develop knowledge and appreciation of various game forms. Analyses game structures and processes. It also develop performance competency in games through experiential learning. Explores and analyses potentially positive and negative outcomes of participating in games and sport.

Contents

1. Introduction to games
2. Passing, Accuracy, Dribbling
3. Receiving, kicking, Shooting, Penalties
4. Jogging, Throwing, Heading, Volley
5. Demonstration & Presentation of Skills
6. Coaching Skills, Conducting & Officiating Skills
7. Simple Passing, Throwing, Catching, Side Pass, Chest Pass, Tip Pass
8. Dribbling with Running, Shooting Style, Layup, Setup
9. Conduct Competition
10. Demonstration & Presentation of Skills
11. Coaching Skills
12. Conducting & Officiating Skills

Recommended Texts

1. Galat, J. (2017). *Coaching youth football*. Champaign, IL: Human Kinetics.
2. Gillett, J., & Burgos, B. (2020). *Strength training for basketball*. Champaign, IL: Human Kinetics.

Suggested Readings

1. Tod, D., & Eubank, M. (2020). *Applied sport, exercise, and performance psychology: Current approaches to helping clients*. Abingdon, Oxon: Routledge.
2. Murray, R., & Kenney, W. L. (2020). *Practical guide to exercise physiology: The science of exercise training and performance nutrition*. Champaign, IL: Human Kinetics.
3. Ehrman, J. K., Liguori, G., Magal, M., & Riebe, D. (2018). *ACSM's guidelines for exercise testing and prescription* (10thed.). Philadelphia, PA: Wolters Kluwer.

This is the general Statistics course designed for undergraduate programs of arts and social sciences. Statistics is an integral part of arts and social science research. We live in a world where there is no shortage of numerical data and there is increasing demand for people who know how to make sense of it independent of the field of work. The goal of this course is to turn the students into one of such categories. In this course, students will learn the basics of descriptive and inferential statistics and the most commonly used statistical techniques found in arts and social science research. The course is designed to give the students an in depth understanding of how these statistical techniques work but minimizing the mathematical burden on the student. While more focus will be given on the statistical analysis with the help of some statistical software SPSS, Excel etc. Moreover, the teacher will also focus on interpretation of statistical data results which are obtained from the statistical soft wares. So these activities will improve the analytical and research activities of arts and social science students.

Contents

1. Introduction to Statistics: Descriptive and Inferential Statistics, Limitations of Statistics, Scope of Statistics, Variable, Data, Types of Variable and Data, Scales of Measurements
2. Display of Data: Tabulation of Data, Graphical Display, Histogram, Bar Charts, Pie Chart, Stem and Leaf Plots
3. Measures of Central Tendency: Mean Median, Mode, Box Plot, and Application in Real Life
4. Measures of Dispersion: Range, Quartile Deviation, Mean Deviation, Variance and Standard Deviation, Coefficient of Variation, Z-score and their Application
5. Normal Distribution: Normal Distribution and its Application
6. Sampling and Sampling Distribution
7. Hypothesis Testing: z test, t-test, Chi-square test
8. Regression Analysis: Simple Linear Regression, Multiple Regressions
9. Correlation Analysis: Simple correlation, multiple correlations, partial correlation, partial correlation
10. Test of independence between qualitative variables
11. All the observational analysis will be carried out using MS Excel and SPSS

Recommended Texts

1. Mann, P.S. (2016). *Introductory statistics* (9th ed.). New York: John Wiley & Sons.
2. Weiss, N.A. (2017). *Introductory statistics* (10th ed.). England: Pearson Education.

Suggested Readings

1. Chaudhry, S. M. & Kamal, S. (2010). *Introduction to statistical theory part I &II*. Pakistan: IlmiKitabKhana.
2. Dunn, D.S. (2001). *Statistics and data analysis for the behavioural sciences*. New York: McGraw Hill
Ross, S. M. (2010). *Introductory statistics* (3rd ed.). New York: Academic Press

Sports coaching are a great way to express your passion for sport. This course offers you the opportunity to specialize in the academic study of sports coaching, gaining the qualifications and practical skills to be a successful coach. A large element of the taught content and assessment will be practical to allow you to apply theory to practice. This approach will allow you to immerse yourself in the coaching process through developing knowledge of the needs of the participants, understanding how to create an engaging learning environment and developing your ability to reflect upon your coaching experiences. Sports Coaching course aims to produce exceptional coaches who are competent, confident, and reflective, with strong practical application of scientific knowledge and theoretical frameworks. Students will have a wide range of opportunities to develop your coaching practice with an emphasis on optimal youth development. It combines a thorough understanding of sport and exercise science with knowledge of the range of roles and contexts within which a coach works. Theoretical, vocational, and practical elements are included to help students gain a comprehensive understanding of sport science, which underpins coaching practice.

Contents

1. Introduction to sports coaching
2. Teaching Methodology for a Coach
3. Role of a Coach
4. Development of Skill Analysis and Strategies
5. Periodization of Training
6. Components of Fitness
7. Coaching & Training Plans of major Games

Recommended Texts

1. Lee, S. (2015). *Coaching for performance: Realising the Olympic dream*. Place of publication not identified: Routledge.
2. Whitmore, J. (2017). *Coaching for performance: The principles and practice of coaching and leadership* (3rd ed.). London: Nicholas Brealey Publishing.

Suggested Readings

1. Bates, T. (2017). *The future coach: Creating tomorrow's soccer players today: 9 key principles for coaches from sport psychology* (7th ed.). Oakamoor, Staffordshire: Dark River.
2. Tsokaktsidis, M. (2017). *Coaching transition play full sessions from the tactics of Simeone, Guardiola, Klopp, Mourinho & Ranieri* (5th ed.). London: SoccerTutor.
3. Goubin, T. (2018). *Marcelo Bielsa: El loco enigmático* (3rd ed.). Paris: Hugo poche.
4. Murphy, J. (2020). *Power of your subconscious mind* (7th ed.). Place of publication not identified: RUPA &.

Basic considerations and issues of standards-based physical education curriculum is the Focus on essential national and state physical education content standards, components, development, implementation, management, and assessment of widely used curricula in physical education. This course is designed with the purpose to acquaint students with basic concepts, theories and types of Health & Physical Education Curriculum related to development process and strategies adopted for evaluation and changes in curriculum as required. Identify and analyse existing curricula models. Select a curriculum model consistent with educational philosophies from a variety of sources. Identify the essential components of an effective curriculum. Create and develop a physical education curriculum for students with varying levels of ability and needs, complete with implementation and assessment strategies. This course define as the process of selecting organizing, executing and evaluating learning experiences on the basis of the needs, abilities and interests of the learners and the nature of the society or community.

Contents

1. Introduction
2. Planning The Physical Education Curriculum
3. Human Resource Management
4. Curriculum Research And Change
5. Organization For Instruction
6. The Curriculum Guide
7. The Physical Education Program
8. Evaluating The Curriculum

Recommended Texts

1. Adams, M. L., Baxter, K., Booth, D., Bunds, K. S.,Giardina, M. D., Clark, M.,& McDonald, M. G. (2020). *Sport, physical culture, and the moving body: Materialisms, technologies, ecologies*. Rutgers University Press.
2. Pangrazi, R. P., &Beighle, A. (2019). *Dynamic physical education for elementary school children*. (19th Ed.). Human Kinetics Publishers.
3. Lund, J., &Tannehill, D. (2014). *Standards-based physical education curriculum development*, (3rd Ed.). Jones & Bartlett Publishers.

Suggested Readings

1. Ovens, A., Hopper, T., & Butler, J. (Eds.). (2013). *Complexity thinking in physical education: Reframing curriculum, pedagogy, and research*. Routledge.
2. Giulianotti, R. (2015). *Sport: A critical sociology*. (2nd Ed.). John Wiley & Sons.
3. Broch, T. B. (2020). *A Performative Feel for the Game*. Springer International Publishing.
4. Tischler, H. L. (2013). *Cengage advantage books: Introduction to sociology*. (11th Ed.). Cengage Learning.

This course is graduate level course of M.Sc. Physical Education. The aim of the course is to enable students to develop essential skill required in sports management and administration. In this course students will get the knowledge of management processes such as planning, directing, organizing, staffing and controlling, operations, strategies, total quality management and marketing. Students will get understanding of management and administration principles, various leadership styles and their practical applications, scope of the subject and career opportunities in various national and international sports organizations, fitness and sports industry. Students will learn structure and organizational hierarchy of various national and international sports organizations, various managerial positions and will enhance professional and communication skills to hunt appropriate job in job market effectively and efficiently. Students will be able to plan and organize sports events as a team leader and as a team member. Students will be able to apply research methods, and an understanding of the specific needs and norms of the sports organizations, fitness and sports industry.

Contents

8. Introduction to Administration and Management
9. Organization Structure and Designs
10. Human Resource Management
11. Facility Management
12. Financial Management
13. Inventory and Purchasing
14. Maintenance of Existing Facilities

Recommended Texts

1. Chelladurai, P., & Kerwin, S. (2017). *Human resource management in sport and recreation* (3rded.). Champaign, IL: Human Kinetics.
2. Hoye, R., Smith, A. C., Nicholson, M., & Stewart, B. (2018). *Sport management: principles and applications* (5thed.). London, UK: Routledge.

Suggested Readings

1. Ruta, D., & Sala, I. (2018). HRM in Sport Organizations. In, Brewster C., Cerdin JL. (eds), *HRM in Mission Driven Organizations* (pp. 183-220). London, UK: Palgrave Macmillan.
2. Gentile, D. (2019). *Athletic Administration for College, High School, Youth, and Club Sport*. Burlington, MA: Jones & Bartlett Learning.
3. Lussier, R. N., & Kimball, D. C. (2019). *Applied sport management skills*(3rded.). Champaign, IL: Human Kinetics.
4. Pedersen, P. M., & Thibault, L. (2019). *Contemporary Sport Management*(6thed.). Champaign, IL: Human Kinetics.

This course is a graduate level practical course of M.Sc. Physical Education. The course covers theoretical topics as well as practical application and skill performance of sprint race including 100m, 200m, 400m and 800m, 4 x 100m, 4 x 400m, 100m hurdle, 110m hurdle, 400m hurdles. The main focus of the practical is to enable students to design a training program for them and for other athletes with coaching perspectives, containing general and specific warm up, cool down, static and dynamic stretching exercises, and practice of technical and tactical skills to improve physical performance. It will increase students' understanding with up to date rules and regulation framed by World Athletics (International Track and Field Organization). The practical sessions enable students to identify periodization of training ranging from off season training to peak season training, division of training program to micro, mesa and macro cycles. It also familiar them with international records, events along with state of the art technology used in track and field events for continuous performance development process.

Contents

1. Introduction of Sprint Races
2. Warm up & Cool Down Methods & Techniques (General & Specific)
3. Stretching and strengthening exercise
4. Neuromuscular coordination exercises
5. Static and dynamic stretching
6. Races with different intensity
7. Improve stride length and stride frequency
8. Power training
9. Coordination exercises
10. Weight Training/ Resistance Training exercises
11. Rules and Regulation of Sprint Races
12. Duties and of officials & organizing committee
13. Demonstration and Presentation

Recommended Texts

1. Shepherd, J. (2009). *101 Youth Athletics Drills*. London, UK: A & C Black Publisher Ltd.
2. Gifford, C. (2012). *Track and field* (7thed.). Mankato, MN: Amicus.

Suggested Readings

1. American Sport Education Program (2008). *Coaching youth track & field*. Champaign, IL: Human Kinetic.
2. Husbands, C. (2013). *Training, techniques and improving performance*. Ramsbury, England: The Crowood Press.
3. Lewindon, D., & Joyce, D. (2014). *High-Performance Training for Sports*. Champaign, IL: Human Kinetics.
4. Smith, J. & Clark, J. (2018). *Speed strength: a comprehensive guide to biomechanics, demands and training methodology for linear speed*. Berkely, CA: Just Fly Sports.

The student will know the basics of Badminton and table tennis games. To acquire the basic knowledge need to analyse skills required with perspective of teaching, coaching, healthy life style, Physical fitness. This course will Develop and share among members and others education, information, and leadership skills. Encourage members to promote the active participation by all youth in fun and healthy physical activities according to their interests and abilities. The course aims to provide students with opportunities to acquire the knowledge, understanding and experience necessary to develop an appreciation of, and play, the sport of badminton and table tennis. Students will be taught the essential skills necessary to play the sport. This unit plan is an outline of our four lesson badminton and table tennis unit. Make a forehand shot, aiming for one of the hoops on the ground; the retriever will gather the birdies back to the feeder. Teacher demo first, and then students can follow along.

Contents

1. Introduction, Ready Position
2. The grip, Racket angles
3. Basic ball control, Basic strokes
4. Backhand push, Forehand drive
5. Backhand drive, Forehand push
6. Return of service
7. Footwork Patterns, Service rules
8. Duties of officials & organizing committees
9. Basic Gripping Technique. Learn how to hold your racket using the forehand and backhand grip
10. Basic Footwork. Good footwork allows good movement around the court
11. Strokes are simply your swing action to hit the shuttle Badminton Serve
12. Basic Stance, Defensive High Clear/lob
13. Drop Shots, Smashing
14. Basic Fouls of Badminton
15. Basic Trainings of Badmintons
16. Duties of officials & organizing committees

Recommended Texts

1. Wagner, H., Pfusterschmied, J., Von Duvillard, S. P., & Müller, E. (2012). *Skill-dependent proximal-to-distal sequence in team-handball throwing*. *Journal of Sports Sciences*, 30(1), 21-29
2. Azar, F. M. (2019). *Illustrated tips and tricks in sports medicine surgery* (1sted.). Philadelphia: Wolters Kluwer.

Suggested Readings

1. Joyce, D. (2014). *High-performance training for sports* (2nded.). Champaign, IL: Human Kinetics.
2. Prentice, W. E. (2017). *Principles of athletic training: A competency-based approach* (16thed.). Vancouver, B.C.: Langara College.

The purpose of this course is to aid students in acquiring a basic understanding of, and new appreciation for, the structures of the human body and their relationships using a systems-based approach. Students will be introduced to anatomic terminology in order to facilitate this understanding. Knowledge of anatomy is a fundamental component of sports coaching profession. Topics covered will include the basic organization of the body and major body systems along with the impact of diseases on certain systems. Working with topics of basic anatomical terminology to the biochemical composition of the human body, all the way into great detail of each of the major systems of the body, One of the goals of this course is to prepare students with the skills necessary to be successful in future sports science theory classes and in sports practical. The major purpose of the course is to provide the students with a comprehensive overview of normal structure and function morphology and functional anatomy of the human body.

Contents

1. Introduction to Human Anatomy
2. Bones & Joints
3. Skeletal Muscles
4. Nervous System
5. Digestive System
6. Cardiovascular System
7. Respiratory System
8. Endocrinology
9. Injuries & Rehabilitation
10. Fracture
11. Sprain
12. Muscle injuries

Recommended Texts

1. Jarmey C. (2018). *The Pocket Atlas of Human Anatomy: A Reference for Students of Physical Therapy, Medicine, Sports, and Bodywork* (2nded.). North Atlantic Books.
2. Netter, F. H.(2019). *Atlas of Human Anatomy: Netter Basic Science* (7thed.). New York:Elsevier.

Suggested Readings

1. Roberts, A. M. (2016). *The complete human body: The definitive visual guide* (2nd ed.). London: Dorling Kindersley Limited.
2. Scanlon, V. C., & Sanders, T. (2018). *Essentials of anatomy and physiology*. Philadelphia: F. A. Davis Company.
3. Patton, K. T., &Thibodeau, G. A. (2018). *Anthony's Textbook of Anatomy & Physiology*(21sted.). Wisconsin, USA: Elsevier.
4. Drake, L, Wayne, A., Mitchell, W.M. (2020). *Gray's anatomy for students* (4thed.). Philadelphia: Elsevier.

This course provides students with an introduction to the research topic, research design and methodologies in the fields of sport science, physical education and recreation. Students will learn to read and interpret existing research articles, select appropriate methodologies for a researchable question, and conduct a literature review on a topic of interest. This course will also be an introduction to preparing a research proposal including selecting research methods appropriate to meet the desired outcomes of a study. Researchers within the Physical Education Research Forum aim to engage in research that enhances our understanding of what effective teaching and learning is so that current policy, practice and professional development can be improved challenged and even transformed. This course requires the student to devise, conduct, and present a project examining an applied sports science issue. The student will be expected to work mainly independently in order to gain practical experience of topic selection, research design, data collection and data analysis. The project is submitted in APA format. Students will be encouraged to work in areas of different sports, coaching techniques and injuries prevention. During the 3rd semester the student will submit a research proposal and ethics application. The final project will be submitted towards the end of the 4th semester in APA format.

Contents

1. Introduction of Research Proposal / Thesis/ Project
2. Formulation and selecting of Research Problems
3. Selection of a topic
4. Submission of research topic
5. Changes/Corrections
6. Presentation
7. How to write an Introduction
8. Literature Review
9. Research Proposal / Synopsis Viva/ Defence

Recommended Texts

1. Grattan, C., & Jones, I. (2010). *Research methods for sports studies* (2nded.).New York:Routledge.
2. Thomas, J. (2015). *Research methods in physical activity*. Champaign, IL: Human Kinetics.
3. Casey, A. (2018). *Conducting practitioner research in physical education and youth sport: reflecting on practice*. Abingdon, Oxon: Routledge.

Suggested Readings

1. Veal, A. J. (2014). *Research methods in sport studies and sport management: A practical guide*. London: Routledge, Taylor & Francis Group.
2. Price, M. (2015). *Lab reports and projects in sport and exercise science: A guide for students*. London: Routledge.
3. Bell, J., & Waters, S. (2018). *Doing your research project: A guide for first time researchers*. London: McGraw-Hill Education.
4. Smith, M. F. (2018). *Research Methods in Sport*. London: Sage Publications.

Track and field is a sport that incorporates different types of athletic events. Track events are running events that range from short distance sprints to middle distance runs of a mile or so to long distance runs, like a 26-mile plus marathon. Field events include strength events, such as the shot put and discus, and throwing events, such as the javelin and hammer. The heptathlon and the decathlon are a combination of seven and ten events, respectively, and incorporate both track and field contests together in a quest for the highest score. The purpose of the course is to equip the students with the latest techniques and technology, rules and regulations laid down by the International Association of Athletics Federations (IAAF). Through these course students are tuned to get the required information regarding marking of the standard tracks, judgment and officiating for various Athletic Events including: Running, Jumping and Throwing.

Contents

1. Olympic Movements
2. Specification of Standard Track
3. Organization and Administration of Athletic Competition
4. Rules of Track Events
5. Jumping Events
6. Horizontal Jumps
7. Vertical Jumps
8. Throwing Events
9. Combined events competitions
10. Race Walking Events
11. Road Races
12. Cross Country, Mountain and Trail Races
13. Athletic Committees
14. Official and their duties

Recommended Texts

1. Gifford, C. (2012). *Track and field* (7thed.). Mankato, MN: Amicus.
2. Rasool, S. (2018). *Rules of track and field events* (3rded.). Lahore: Ilmi Publishers.

Suggested Readings

1. Koerner, H., & Chase, A. W. (2014). *Hal Koerner's field guide to Ultrarunning: Training for an Ultramarathon, from 50K to 100 miles and beyond* (5thed.). Boulder, CO: VeloPress.
2. Gilani, B. (2018). *Rules of track and field events* (4thed.). Lahore: Gilani Publishers.
3. Kastor, A. (2018). *Running your first marathon: The complete 20-week marathon training plan* (2nded.). Emeryville, CA: Rockridge Press.

The course is an introduction to the theoretical and practical aspects of Sports Psychology. The purpose of the course is to provide the student with the basic knowledge of psychological factors and processes that influence the individual in sports. Focus is placed on a research-to-practice orientation that is used to prepare for sports performance. The main objective of the designed content is as the bridge to meet the gap in psychological disorders and elite sports performance also inspiring the students to enhance their ability to work closely with both performers and coaches. It also focuses on teaching skills to enhance athletic performance such as goal setting, imagery and injuries rehabilitation. Moreover, helping the athletes and people to achieve their full sporting and exercise potential by solving their complex problems and working as the part of a team. This course also examines psychological theories and research and their application to the sport/physical activity-related affect, behaviours and cognitions of participants as well as the individual and environmental factors which shape these outcomes.

Contents

1. Introduction to Sports Psychology
2. Personality and sports
3. Nervous System of Human Body
4. Arousal, stress and anxiety
5. Cognitive and Behavioural Interventions for Peak Performance
6. Motivation and Performance
7. Concentration
8. Aggression in sports
9. Stress
10. Goal Setting
11. Self Confidence
12. Group Cohesion

Recommended Texts

1. Tenenbaum, G. (2015). *Applied sport psychology* (7thed.). Milton Park, Abingdon, Oxon: Routledge.
2. Weinberg, R. S., & Gould, D. (2019). *Foundations of sport and exercise psychology* (7thed.). Champaign, IL: Human Kinetics.

Suggested Readings

1. L., V. R., & Brewer, B. W. (2014). *Exploring sport and exercise psychology* (3rded.). Washington, D.C.: American Psychological Association.
2. Horn, T. S., & Smith, A. L. (2019). *Advances in sport and exercise psychology* (4thed.). Champaign, IL: Human Kinetics.
3. Tod, D., & Eubank, M. (2020). *Applied sport, exercise, and performance psychology: Current approaches to helping clients*. Abingdon, Oxon: Routledge.
4. Lox, C. L., A., M. G., Gainforth, H. L., & Petruzzello, S. J. (2020). *The psychology of exercise integrating theory and practice* (5thed.). New York: Routledge.

This course is designed to understand the fundamental and functional statistical tests, assessments, techniques, and evaluation concepts in the psychomotor, cognitive and affective domains; activities include collection and computer analysis of data in the area of Physical Education at various levels. It also provides the range of tests and techniques for testing Physical fitness, motor abilities and specific sports skills. e.g. (Reaction time, Endurance, Muscular Strength, Flexibility, Balance, Power, Speed, Agility, Coordination, Test criteria, Methods of grading etc. This course is intended to address the current practices in conducting data-based measurement and evaluation processes. Specifically, this course will examine statistical techniques necessary for manipulation and interpretation of various performance data. Descriptive statistics will be introduced and used for decision-making. The purpose of this course is to introduce students to the fundamental aspects of the measurement, analytic, and evaluative process for measuring Human Performance. The course includes both theoretical and practical applications.

Contents:

1. Introduction to Measurement and Evaluation
2. Grading in Physical Education
3. Basis of Statistics
4. Construction & Administration of a Test
5. Scales of Measurement
6. Characteristics of standard test
7. Evaluation of Aerobic Fitness or (Vo2 Max) Cardio – Vascular Fitness Aerobic Fitness
8. Measurement of Physical Fitness
9. Motor Performance Measurement
10. Evaluating Body Composition
11. Measurement of competitive sports skills
12. Measurement of Athletic skills

Recommended Texts

1. Morrow, J. R., Mood, D., Disch, J. G., & Kang, M. (2016). *Measurement and evaluation in human performance* (5thed.). Champaign, IL: Human Kinetics.
2. Lacy, A. C., & Williams, S. M. (2018). *Measurement and Evaluation in Physical Education and Exercise Science* (8thed.). New York: Routledge/Taylor & Francis Group.

Suggested Readings

1. Winnick, J. P., & Porretta, D. L. (2017). *Adapted physical education and sport* (6thed.). Champaign, IL: Human Kinetics.
2. Ehrman, J. K., Liguori, G., Magal, M., & Riebe, D. (2018). *ACSM's guidelines for exercise testing and prescription* (10thed.). Philadelphia, PA: Wolters Kluwer.
3. Gibson, A. L., Wagner, D. R., & Heyward, V. H. (2019). *Advanced fitness assessment and exercise prescription* (8thed.). Champaign, IL: Human Kinetics.

Games are essential for a good health. Therefore, all young men and women ought to play games. Those who play games frequently will maintain a good health. They can develop a muscular body. Games teach us the spirit of patience and courage. Discipline is incredibly essential not just for the progress of an individual however conjointly for the progress of the nation as a whole. Young boys and girls can even develop the standard of leadership through games. Main objective of this course seeks to emphasize the enhancement of professional abilities and skills of the students with overall leadership qualities. It also develops students' physical competence and knowledge of movement and safety and their ability to use these to perform in a wide range of activities associated with the development of an active and healthy lifestyle. At the end of course students will become more professional in various fields of physical education and sports like, teachers, coaches, match officials, psychologist and trainers etc.

Contents

- 1: Introduction to Handball, Warm up & Cool Down Methods & Techniques, Training methodology for fitness and Sports related components
- 2: Ball, Ground, equipment, Measurement & Dimensions
- 3: Ball Catching, Ball throwing, Ball Passing, Ball Dribbling Skills
- 4: Jumps Shot, Penalty Shot, Throw off, and Throw in, Offending & Defending Skills
- 5: Pivot, Goal Keeping Skills,
- 6: Coaching Skills,
- 7: Conduct the Competition among the Students Conducting & Officiating Skills
- 8: Introduction to Volley Ball Game, Warm up & Cool Down Methods &
- 9: Techniques, Training methodology for fitness and Sports related components
- 10: Arms and shoulders strengthen exercises
- 11: Serving Skills
- 12: Digging (Passing) forearms, overhead

READINGS

1. 101 Team Handball (101 Drills) Feb 2015 by Felicia Lidia Radu and Beatrice Aurelia Abalasei
2. Handball Sports Medicine: Basic Science, Injury Management and Return to Sport May 2018 by Lior Laver and Philippe Landreau
3. Volleyball Fundamentals-2nd Edition (Sports Fundamentals) Oct 2018 by Joel Dearing
4. Volleyball Drills Apr 2014 by Chris Kroeger

This course provides a scientific background of applied nutrition and sports performance. Sports Nutrition is the study of nutrition and exercise for the promotion of health, fitness and prevention from diseases. Proper nutrition is the key to optimizing health and athletic performance. This course presents guidelines for the diet needed to be ready for athletic practice and competition, and how to refuel afterwards. The course contains the principles of nutrition and reviews the role and functions of fats, proteins, carbohydrates, vitamins, minerals, body fluids, metabolism, digestion and weight management. Students will be able to learn about energy expenditure during exercise, performance enhancement recovery, and the essential elements for growth, maintenance and repair of the body's tissues. Individuals gain an understanding of exercise physiology and learn how to create a nutritional fitness plan for each sport as well as weight loss supplements and performance-enhancing drugs are also a point of emphasis. They can learn to counsel individuals and to make diet recommendations. This course explores the influence of food on each of the body's organs and impact on hormone imbalances and weight management. Furthermore, learners gain the knowledge of applying dietary changes and supplementation in common medical conditions to improve the effectiveness of conventional treatments.

Contents

1. Introduction to sports nutrition
2. Energy and metabolism
3. Energy and muscular activities
4. Carbohydrates and sports performance
5. Science of carbohydrate loading
6. Fats and sports performance
7. Proteins and sports performance
8. Vitamins
9. Minerals
10. Water and Electrolytes
11. Eating Disorders
12. Weight Management
13. Body composition
14. Practical application of nutritional plan for strength/power athletes
15. Practical application of nutritional plan for endurance /ultra-endurance athletes

Recommended Texts

1. Bean, A. (2017). *The complete guide to sports nutrition* (8thed.). London: Bloomsbury Sport, an imprint of Bloomsbury Publishing Plc.
2. Fink, H. H., & Mikesky, A. E. (2020). *Practical applications in sports nutrition* (5thed.). Burlington, MA, New Jersey: Jones & Bartlett Learning.

Suggested Readings

1. Souza, P. D. (2016). *Sports nutrition* (1sted.). New York: Syrawood Publishing House.
2. Baechle, T. R. (2016). *Essentials of strength training and conditioning* (4thed.). Champaign, IL: Human Kinetics.
3. Spano, M. A., Kruskall, L. J., & Thomas, D. T. (2018). *Nutrition for sport, exercise, and health* (3rded.). Champaign (Illinois): Human Kinetics.
4. Jeukendrup, A. E., & Gleeson, M. (2019). *Sport nutrition* (4thed.). Champaign, IL: Human Kinetics.

The course will provide the theoretical and experimental basis required for the application of biomechanics in the areas of sport and exercise. Biomechanics in Sports incorporates detailed analysis of sport movements in order to minimize the risk of injury and improve sports training equipment and techniques. Student and teachers will learn how to design a quantitative analysis, collect, analyse and interpret data obtained from the equipment associated with the measurement technique. From the analysis work of this course, student teachers will be expected to examine the relationship between performance measure and human motor system. The purpose of the course is to develop the student teacher's ability to conduct biomechanical analysis independently and to apply the knowledge in teaching and coaching as well as understanding of athletic performance through mathematical modelling, computer simulation and measurement, and enabling the learners/athletes to pursue their potential at highest level. Data will be collected and processed during laboratory sessions to examine relationships between displacement, velocity and acceleration, force, power, energy, impulse, momentum and fluid dynamics. Laboratory investigations will explore centre of mass, ground reaction forces and 2-dimensional motion analysis, qualitative and quantitative analysis of human movement.

Contents

1. Introduction to Sports Bio-Mechanics
2. Forces
3. Kinematic Concepts for Analyzing Human Motion
4. Linear Kinematics for Analyzing Human Movement
5. Kinetic Concepts for Analyzing Human Movement
6. Linear Kinetics for Analyzing Human Movement
7. Angular Kinematics of Human Movement
8. Angular Kinetics of Human Movement
9. Equilibrium and Human Movement
10. Fluid Mechanism and Human Movement
11. Mechanical Analysis of competitive Sports Techniques
12. Mechanical Analysis of Track & Field Events

Recommended Texts

1. Hall, S. J. (2019). *Basic biomechanics* (8thed.). New York, NY: McGraw-Hill Education.
2. Pangrazi, R. P., & Beighle, A. (2020). *Dynamic physical education for elementary school children* (19thed.). Champaign, IL: Human Kinetics.

Suggested Readings

1. Bartlett, R. (2014). *Introduction to sports biomechanics: Analysing human movement patterns* (3rded.). Milton Park, Abingdon, Oxon: Routledge.
2. Watkins, J. (2014). *Fundamental biomechanics of sport and exercise* (1sted.). New York: Routledge/Taylor & Francis Group.
3. Payton, C., & Burden, A. (2018). *Biomechanical evaluation of movement in sport and exercise: The British Association of Sport and Exercise Sciences guide* (3rded.). Abingdon, Oxon: Routledge.
4. McGinnis, P. M. (2020). *Biomechanics of sport and exercise* (4thed.). Champaign, IL: Human Kinetics.

This course is designed to equip the students/ learners with the updated knowledge regarding rules and regulations of various team sports as well as facility management. Play fields are dimension, judgment and officiating for different games at different levels. Another, a key component of the course is to enhance the performance of the Athletes. The ultimately purpose of the course is to provide deep knowledge about the philosophy of Rules and techniques of different games. The major concerned of this course is to provide learning experiences that will lead to the development of basic skills in team sports. In addition to skill acquisition, the course will focus on how to plan and implement the four stages of skill development in games through the use of extending, refining, and application tasks. An emphasis will be placed on the use of the game stages and movement framework as a guide for designing a variety of sports game experiences for students. Through the ages, sport has been known to affect various cultures, traditions, and values in our society the world of sport help us to gain a better understanding of our views on issues of equality, human rights, child development, standards for health and fitness, and character development, as well as many other issues.

Contents

1. Types of Tournaments
2. Round Robin (League system)
3. Elimination (knock out)
4. Combination, Consolation
5. Double elimination, Ladder
6. Pyramid, Organization and Administration
7. Planning of sports facilities, their care and maintenance
8. Playfields, Gymnasia
9. Stadia, Covered areas
10. Artificial surfaces
11. Rules and techniques of the following games and their application
12. Badminton, Basket ball
13. Cricket, Football, Hand ball
14. Hockey, tennis, Table tennis, Volley ball

Recommended Texts

1. Schott, G. (2016). *Violent games: Rules, realism, and effect* (4thed.). London: Bloomsbury.
2. Gilani, B. (2018). *Theory of Games*(3thed.). Lahore: Gilani Publishers.

Suggested Readings

1. Masterman, G. (2014). *Strategic sports event management* (3rded.). New York, NY: Routledge.
2. Anniss, M. (2016). *The impact of technology in sport* (6thed.). London: Raintree.
3. Rasool, S.(2018). *Theory of Games*(4thed.). Lahore: Ilmi Publishers.
4. Harper, J. (2020). *Sporting gender: The history, science, and stories of transgender and intersex athletes* (3rded.). London: Rowman and Littlefield.

This course provides students with an introduction to the research topic, research design and methodologies in the fields of sport science, physical education and recreation. Students will learn to read and interpret existing research articles, select appropriate methodologies for a researchable question, and conduct a literature review on a topic of interest. This course will also be an introduction to preparing a research proposal including selecting research methods appropriate to meet the desired outcomes of a study. Researchers within the Physical Education Research Forum aim to engage in research that enhances our understanding of what effective teaching and learning is so that current policy, practice and professional development can be improved challenged and even transformed. This course requires the student to devise, conduct, and present a project examining an applied sports science issue. The student will be expected to work mainly independently in order to gain practical experience of topic selection, research design, data collection and data analysis. The project is submitted in APA format. Students will be encouraged to work in areas of different sports, coaching techniques and injuries prevention. During the 3rd semester the student will submit a research proposal and ethics application. The final project will be submitted towards the end of the 4th semester in APA format.

Contents

10. Introduction of Research Proposal / Thesis/ Project
11. Formulation and selecting of Research Problems
12. Selection of a topic
13. Submission of research topic
14. Changes/Corrections
15. Presentation
16. How to write an Introduction
17. Literature Review
18. Research Proposal / Synopsis Viva/ Defence

Recommended Texts

4. Grattan, C., & Jones, I. (2010). *Research methods for sports studies* (2nded.).New York:Routledge.
5. Thomas, J. (2015). *Research methods in physical activity*. Champaign, IL: Human Kinetics.
6. Casey, A. (2018). *Conducting practitioner research in physical education and youth sport: reflecting on practice*. Abingdon, Oxon: Routledge.

Suggested Readings

5. Veal, A. J. (2014). *Research methods in sport studies and sport management: A practical guide*. London: Routledge, Taylor & Francis Group.
6. Price, M. (2015). *Lab reports and projects in sport and exercise science: A guide for students*. London: Routledge.
7. Bell, J., & Waters, S. (2018). *Doing your research project: A guide for first time researchers*. London: McGraw-Hill Education.
8. Smith, M. F. (2018). *Research Methods in Sport*. London: Sage Publications.

The purpose of this course is to increase the student's knowledge and understanding about human physiology and the adaptations that occur during exercise. Exercise physiology is a branch of physiology that deals with the functioning of the human body during exercise. An understanding of how the body responds to acute and chronic exercise is crucial for the physical educator, athletic trainer, coach, fitness expert, or exercise physiologist. Emphasis is placed on bioenergetics as well as circulatory, respiratory and neuromuscular responses to the physical stress of exercise. Also discussed are the effects of environmental factors and cryogenic aids on athletic performance. The objective of this course is for the student to gain an understanding and working knowledge of how the body responds to exercise so that they may apply this knowledge to their chosen field. Indeed, understanding the interactions of metabolism, circulation, and structural adaptations in response to exercise and training are required to be an effective teaching or health care professional. On the completion of this course students will be able to discuss Health benefits of a consistent exercise program and the health risks associated with inactivity. The students will be able to discuss how the various systems of the human body interrelate in response to exercise.

Contents

1. Introduction of Physiology
2. Bio-Energetic
3. Conditioning in Sports
4. Cardiovascular Systems
5. Respiratory System
6. Exercise and Environments
7. Doping
8. Role of I.O.C.
9. Types of doping tests
10. Prevention of doping
11. Aging Exercise and Disease Prevention
12. Aging
13. Diabetes
14. Obesity
15. Blood pressure
16. Osteoporosis

Recommended Texts

1. Ehrman, J., Gordon, P., Visich, P., & Keteyian, S. (Eds.). (2018). *Clinical Exercise Physiology* (4thed.). Champaign, IL: Human Kinetics.
2. Haff, G. G., & Dumke, C. (2018). *Laboratory Manual for Exercise Physiology* (2nded.). Champaign, IL: Human Kinetics.

Suggested Readings

1. John, P., Cedric, X., Fabio, C. (2015). *Exercise physiology*. Philadelphia, F. A. Davis Company.
2. Scott, K., Edward, T. (2015). *Exercise physiology: theory and application to fitness and performance* (10thed.). New York: McGraw-Hill publisher.
3. Kenney, W. L., Costill, D. L., & Wilmore, J. H. (2020). *Physiology of sport and exercise* (7thed.). Champaign: Human Kinetics.
4. Murray, R., & Kenney, W. L. (2020). *Practical guide to exercise physiology: The science of exercise training and performance nutrition*. Champaign, IL: Human Kinetics.

This course is designed to give the students a better understanding of the fundamental knowledge needed to enjoy hiking safely. Students will experience a lifelong activity that promotes a healthy and active lifestyle. The assumption that lifestyles formed early in life track into adulthood has been used to justify the targeting of health promotion programmes towards children and adolescents. The aim of the current study was to use data from the Northern Ireland Young Hearts Project to ascertain the extent of tracking, between adolescence and young adulthood, of physical activity, aerobic fitness, selected anthropometric variables, and diet. Tracking has been defined as the maintenance of relative position in rank of behaviour over time, such that subjects who rank highly for unfavourable risk profiles at a young age are likely to maintain their ranks through into adulthood. Although different indicators of physical activity and different methods of tracking of inactivity is less often studied. Youth resistance training: updated position statement paper from the national strength and conditioning association.

Contents

1. Introduction of Hiking & Hill Tracking
2. Fitness training for hiking
3. Personal awareness and safety when hiking (communication, emergency plans)
4. Hiking techniques (posture, overcoming obstacles, use of trekking poles)
5. Equipment and proper use
6. Apply safe hiking techniques during hiking activities
7. Maps and Navigations
8. Hiking trip planning (route selection, proper gear, clothing, footwear, first aid, food, water)
9. Alter hiking choices for special weather and physical conditions
10. Self-reflection and communication about hiking activities, routes, personal preparation, group dynamics, safety, and fitness for hiking
11. Tying Knots Skills Charts
12. Environmental awareness
13. Introduction of wildlife animals and Tracks
14. Remedies for Insect Bites and Rashes
15. Basic injury prevention and first aid (blister prevention and management)

Recommended Texts

1. Smith, S. D. (2017). *White Mountain guide: AMC's comprehensive guide to hiking trails in the White Mountain National Forest* (30th ed.). Boston: Appalachian Mountain Club Books.
2. KJ, P. (2019). *Base camp Denver: 101 hikes in Colorado's Front Range* (3rd ed.). Las Vegas, NV: Imbrifex Books.

Suggested Readings

1. Skurka, A. (2017). *The ultimate hiker's gear guide: Tools & techniques to hit the trail* (2nd ed.). Washington, D.C.: National Geographic
2. Konin, J. G., & Ray, R. (2019). *Management strategies in athletic training* (5th ed.). Champaign, IL: Human Kinetics