

AC – 20/05/2025

Item No. – 8.47 (N) Sem III& IV 1(b)

As Per NEP 2020

University of Mumbai



Syllabus for CC

Ad- hoc Board of Studies in N.C.C./N.S.S./Sports Co-Curricular

UG First Year Programme – CC- Sports

Semester	III & IV	
Title of Paper	Sem	Credits
Introduction to Sports Training & Tests and Measurement	III	2
Advanced Sports Training and Performance Evaluation	IV	2
From the Academic Year		2025-26

Course (Optional): Introduction to Sports, Physical Literacy, Health & Fitness and Yog

CBCS (Choice Based Credit System)

Second Year- Semester III

Course Structure

Semester	Paper	Title of Paper	No of lecture (Theory)	Internal Evaluation (IE)	End Semester Evaluation	Total Marks	Credits
Third	CC	Introduction to Sports Training & Tests and Measurement	30	20	30	50	02
Total	-	-	30	20	30	50	02

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Semester III

(w.e.f. June, 2025)

Sub:- Introduction to Sports Training & Tests and Measurement

Preamble:

Sports play a vital role in fostering physical fitness, mental resilience, and holistic well-being. Understanding the intricacies of sports training and the science of test and measurement is essential for optimizing athletic performance and personal growth. Sports training encompasses systematic methods to enhance physical capabilities, skill development, and strategic planning, while test and measurement provide the tools to evaluate fitness levels, track progress, and refine training protocols. Together, these disciplines empower individuals to achieve their full potential, making them indispensable components of modern sports science and athletic excellence.

Aims and Objectives

Sports Training

- To understand the foundation and principles of sports training.
- To study various training methods and their applications.
- To explore the process of designing personalized and professional training plans.
- To analyze the role of training in achieving peak performance.

Tests and Measurement in Sports

- To understand the significance of test and measurement in sports.
- To learn about various types of tests and their applications.
- To comprehend the criteria for good testing and measurement methods.
- To explore the use of test and measurement data for performance analysis and improvement.

Learning Outcomes

Sports Training

The course will enable the learner to:

- Understand and apply the principles of sports training.
- Identify and differentiate between various training methods.
- Develop effective exercise plans and training schedules.
- Evaluate the impact of training on performance enhancement.

Tests and Measurement in Sports

The course will enable the learner to:

- Identify and explain the importance of test and measurement in sports.
- Apply various skill, fitness, and psychological tests.
- Evaluate test results to assess fitness and performance levels.
- Utilize test data to design targeted training and rehabilitation programs

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Semester – III

(w.e.f. June, 2025)

Sub:- Introduction to Sports Training & Tests and Measurement

Credits: 02

Lectures: 30

Marks:50

Module No.	Unit No	Title of the Unit	No. of Lectures	No. of Credits
1	I	<i>Introduction to Sports Training</i> Meaning, Definition, and Components/Elements of Sports Training • Meaning • Definition • Components/Elements	2	1
	II	Principles of Sport Training • FITT Principle (Frequency, Intensity, Time, Type) • Specificity • Progression • Overload • Reversibility • Tedium	5	
	III	Types of Training Methods • Interval Training • Fartlek Training • Continuous Training • Weight Training • Circuit Training • Plyometric Training • Flexibility Training	5	
	IV	Basic Guidelines for Designing Exercise Plans and Training Schedules • Current Health Status • Medical History • Level of Fitness • Training Load • Periodisation • Holistic/Integrated Approach • Person-Centred Approach • Training Intensity	3	
		Total	15	1

Sub:- Introduction to Sports Training & Tests and Measurement

Credits: 02

Lectures: 30

Marks:50

Module No.	Unit No	Title of the Unit	No. of Lectures	No. of Credits
2		<i>Test and Measurement in Sports</i>		
	I	Meaning and Importance of Test and Measurement in Sports • Meaning & Importance	1	1
	II	Criteria of a Good Test • Validity • Reliability • Objectivity • Feasibility	2	
	III	Types of Tests Skill Tests • Wall Volley Test • Basketball Free Throw Test • Badminton Short Serve Test Fitness Tests • Cooper's 12-Minute Run/Walk Test • Sit and Reach Flexibility Test • Push-Up Test Psychological Tests • Sport Motivation Scale (SMS) • Competitive State Anxiety Inventory (CSAI-2) • Mental Toughness Questionnaire (MTQ)	6	
	IV	Methods of Measurement • Anthropometric Measurements • Motor Fitness Measurements • Physiological Measurements	3	
	V	Applications of Test and Measurement in Sports Talent Identification • Performance Analysis • Designing Training Programs • Injury Prevention and Rehabilitation	3	
		Total	15	1

Scheme of Evaluation -

The Scheme of Examination shall be of 50 marks. It will be divided into Internal Evaluation

(20 marks) and Semester End Examination (30 Marks).

Semester III (50 Marks - 2 Credits)**Internal Evaluation (20 Marks)**

Sr. No.	Particulars	Marks
1	Presentation OR Project OR Assignment	15
2	Participation in Workshop / Conference / Seminar / Fitness or Sports Activity (as decided by the Sports Incharge) OR Participation in Online Workshop / Conference / Seminar / Fitness or Sports related course (as decided by the Sports Incharge) OR Field Visit / Sports Events OR Attendance of Sports Practice Sessions	5

Semester End Examination (30 Marks)

Question No.	Particulars	Marks
1 to 30	Objective Type Questions (All Units) Each question will carry one mark	30
Total		30

References –

1. "Science and Practice of Strength Training" - Vladimir M. Zatsiorsky and William J. Kraemer
2. "Essentials of Strength Training and Conditioning" - National Strength and Conditioning Association (NSCA)
3. "Principles and Practice of Resistance Training" - Michael H. Stone, Meg Stone, and William A. Sands
4. "Periodization Training for Sports" - Tudor O. Bompa and Carlo A. Buzzichelli
5. "High-Performance Training for Sports" - David Joyce and Daniel Lewindon
6. "Tests and Measurements in Sports and Physical Education" - Dr. A.K. Uppal and Dr. G.P. Gautam
7. "Measurement by the Physical Educator: Why and How" - David K. Miller and Harold M. Barrow
8. "Kinanthropometry and Exercise Physiology Laboratory Manual" - Roger Eston and Thomas Reilly
9. "Evaluation of Human Work" - John R. Wilson and NIGEL CORLETT
10. "Advanced Fitness Assessment and Exercise Prescription" - Vivian H. Heyward and Ann L. Gibson

**UNIVERSITY OF MUMBAI
SYLABUS FOR (NEP-2020)**

CO-CURRICULAR COURSE IN SPORTS

Introduction to Sports, Physical Literacy, Health and Fitness and Yog

SEMESTER IV

(Syllabus to be implemented from, June 2025 onwards)

Course (Optional): Introduction to Sports, Physical Literacy, Health & Fitness and Yog**CBCS (Choice Based Credit System)
Second Year- Semester IV
Course Structure**

Semester	Paper	Title of Paper	No of lecture (Theory)	Internal Evaluation (IE)	End Semester Evaluation	Total Marks	Credits
Fourth	CC	Advanced Sports Training and Performance Evaluation	30	20	30	50	02
Total	-	-	30	20	30	50	02

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Semester IV

(w.e.f. June, 2025)

Sub:- Advanced Sports Training and Performance Evaluation

Preamble:

In an era where fitness and sports are pivotal to the holistic development of individuals, an understanding of sports training and performance evaluation is essential. This course bridges the gap between theoretical knowledge and its practical application in sports and fitness domains. Students will gain hands-on experience in training methodologies, measurement techniques, and assessment strategies to excel in their chosen field of sports and fitness.

Objectives of the Course:

- To impart practical skills in sports training and evaluation techniques.
- To encourage participation in various sports and fitness activities.
- To develop a scientific approach to training and performance assessment.
- To enhance organizational and leadership skills through event planning and volunteering.
- To foster a deeper understanding of training intensity, recovery, and testing protocols.

Program Outcomes:

By the end of the program, students will:

- Gain practical knowledge of sports training principles and methods.
- Develop the ability to conduct, evaluate, and interpret various fitness and skill-based tests.
- Learn to design and implement personalized and professional training programs.
- Acquire experience in organizing and volunteering in sports and fitness events.
- Understand the role of psychological, fitness, and skill tests in enhancing performance.

UNIVERSITY OF MUMBAI**Semester – IV****(w.e.f. June, 2025)****Sub:- Advanced Sports Training and Performance Evaluation****Credits: 02****Practical Lectures: 60****Marks:50**

Module No.	Unit No	Title of the Unit	No. of Practical hours	No. of Credits
1	I	Advanced Sports Training		
	I	Fundamentals of Sports Training • Warm-ups and cool-downs	10	
	II	• Fitness training (strength, endurance, flexibility) • Group activities and game practice	15	
	III	Training Methods Practical Sessions • Interval and circuit training sessions (Time, Type) • Plyometric and weight training demonstrations • Fartlek & Continuous training sessions • Flexibility training session Basic Guidelines for Designing Exercise Plans and Training Schedules (Practically to be done by the students on peer groups formed by the Sports Incharge) • Current Health Status • Medical History • Level of Fitness • Training Load • Periodisation • Holistic/Integrated Approach • Person-Centred Approach • Training Intensity	5	1
		Total	30	1

UNIVERSITY OF MUMBAI**Semester – IV****(w.e.f. June, 2025)****Sub:- Advanced Sports Training and Performance Evaluation****Credits: 02****Practical Lectures: 60****Marks:50**

Module No.	Unit No	Title of the Unit	No. of Practical hours	No. of Credits
1	I	Performance Evaluation in Sports	10	
		Practical sessions of Fitness & Skill testing (To be conducted by Coach/Fitness Instructor/Sports In charge/Any other P.E. Expert appointed by the College)		
	II	• Practical demonstrations of fitness tests (e.g., Cooper's test, 12-minute run, flexibility tests) • Basic skill tests/modified skills tests for popular sports in the college campus.	15	
	III	Practical sessions of Fitness & Skill testing • Practical Testing Sessions • Skill-based tests: Dribbling, agility, passing (e.g., basketball, football) • Fitness tests: Speed, strength, and endurance measurements • Psychological Tests - Conducting motivation and stress assessments • Conduct of the above mentioned tests by students on the peer groups formed by Sports Incharge/ Sports Director of the college / Students Sport coordinator • Testing of the students must be held under the observation of Coach/ Fitness Instructor/ Sports In charge/Any other P.E. Expert appointed by the College Evaluation of the tests • Date analysis and reporting • Interpretation of test results • Writing of practical reports • Conclusion and recommendation	5	1
		Total	30	1

Scheme of Evaluation -

The Scheme of Examination shall be of 50 marks. It will be divided into Internal Evaluation (20 marks) and Semester End Examination (30 Marks).

Semester IV (50 Marks - 2 Credits) Internal Evaluation (20 Marks)

Sr. No.	Particulars	Marks
1	Conduct of the practical test and demonstration	15
2	Attendance of all practical sessions conducted for Sports Training and performance evaluation/ Sports practice training session conducted by the college	5

Semester End Examination (30 Marks)

Evaluation type	Particulars	Marks
VIVA	Viva on Advanced Sports training & testing methods and evaluation protocols	20
Submission of report	Submission of psychological or fitness testing reports	10
Total		30*

***Note - OR**

- Participation in Sports Competitions Conducted by University of Mumbai Sports Department
(Students who have represented Mumbai University or College at Intercollegiate / Inter Zonal / West Zone Inter University / All Indi Inter University/ International tournament)
- Students who have represented in the above mentioned competitions should be exempted from VIVA & submission of report and should be evaluated on the basis of his/ her performance in the above mentioned competitions.

References -

1. Singh, Hardayal. *Science of Sports Training*. DVS Publication.
2. Bompa, Tudor. *Periodization: Theory and Methodology of Training*. Human Kinetics.
3. Sharma, J. P. *Principles of Sports Training*. Friends Publications.
4. Matveyev, L. P. *Fundamentals of Sports Training*. Progress Publishers.
5. Cooper, Kenneth H. *The Aerobics Program for Total Well-Being*. Bantam Books.
6. Clarke, Harrison. *Application of Measurement to Health and Physical Education*. Prentice Hall.
7. Fox, Edward L., and Donald K. Mathews. *The Physiological Basis of Physical Education and Athletics*. Saunders College Publishing.
8. Barrow, Harold M., and McGee, Rosemary. *A Practical Approach to Measurement in Physical Education*. Lea & Febiger.
9. Shephard, Roy J. *Fitness and Health*. Human Kinetics.
10. Verma, J. P. *A Textbook on Sports Statistics and Measurement*. Sports Publications.

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