

CBCS Course Curriculum (Effective from Session 2022-23) [Bachelor of Technology (B.Tech. Biotechnology)]

B.Tech Biotech BBT-105 –	nnology: Semester-II Sports and Yoga
	Examination Scheme
Teaching Scheme	Audit Course
Lectures: 2 hrs/Week	AND AND CONTROL OF THE PROPERTY OF THE PROPERT
Tutorials: 0 hr/Week	The state of the s
Credits: 0	End Semester Exam – 0 marks

To make the students understand the importance of sound health and fitness principles as they relate to better health

Course Learning Outcomes:

After completing the course, the student shall be able to:

CO1: Practice Physical activities and Yoga focusing on yoga for strength, flexibility, and relaxation

UNIT-I: INTRODUCTION TO PHYSICAL EDUCATION

Meaning & definition of PhysicalEducation

Aims & Objectives of PhysicalEducation

Changing trends in PhysicalEducation

OlympicMovement

Ancient & Modern Olympics (Summer & Winter)

Olympic Symbols, Ideals, Objectives & Values

Awards and Honours in the field of Sports in India (Dronacharya Award, Arjuna Award,

Dhayanchand Award, Rajiv Gandhi KhelRatna Awardetc.)

Physical Fitness, Wellness & Lifestyle

Meaning & Importance of Physical Fitness & Wellness

Components of Physicalfitness

Components of Health related fitness

Components ofwellness

Preventing Health Threats through LifestyleChange

Concept of PositiveLifestyle Fundamentals of Anatomy & Physiology in Physical Education, Sports and Yoga

Define Anatomy, Physiology & ItsImportance

Effect of exercise on the functioning of Various Body Systems. (Circulatory System, Respiratory System,

Neuro-Muscular Systemetc.)

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UNIT-II: KINESIOLOGY, BIOMECHANICS & SPORTS

Meaning & Importance of Kinesiology & Biomechanics in Physical Edu. & Sports Newton's Law of Motion & its application in sports. Friction and its effects in Sports.

Meaning and Concept of Postures.

Causes of Bad Posture.

Advantages & disadvantages of weight training.

Concept & advantages of Correct Posture.

Common Postural Deformities - Knock Knee; Flat Foot; Round Shoulders; Lordosis, Kyphosis,

Bow Legs and Scoliosis.

Corrective Measures for Postural Deformities

Yoga

Meaning & Importance of Yoga

Elements of Yoga

Introduction - Asanas, Pranayama, Meditation & Yogic Kriyas

Yoga for concentration & related Asanas (Sukhasana; Tadasana; Padmasana& Shashankasana)

Relaxation Techniques for improving concentration - Yog-nidra

Yoga & Lifestyle

Asanas as preventive measures.

Hypertension: Tadasana, Vajrasana, PavanMuktasana, ArdhaChakrasana,

Bhujangasana, Sharasana.

Obesity: Procedure, Benefits & contraindications for Vajrasana, Hastasana, Trikonasana, Ardh

Matsyendrasana.

Back Pain: Tadasana, ArdhMatsyendrasana, Vakrasana, Shalabhasana, Bhujangasana.

Benefits Procedure,

forBhujangasana, contraindications

Paschimottasana, PavanMuktasana, Ardh Matsyendrasana.

Suggested Readings:

- Modern Trends and Physical Education by Prof. AjmerSingh.
- · Light On Yoga by B.K.S.Iyengar.
- Health and Physical Education NCERT (11th and 12thClasses)

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