

**Program Name: Diploma in Engineering** 

Level: Diploma Branch:All

Course / Subject Code: DI01000041

Course / Subject Name: Sports & Yoga

Diploma Programme in which this course is offered	Semester in which offered
All Branch	First

### 1. RATIONALE

Physical activity is vital to the holistic development of students, fostering their physical, social and emotional health. Sports and Yoga are essential part of our life for good health and peace of mind. Yoga is considered itself as a sport which plays through your own physical ability. Yoga provides you all the benefits that you are willing to have from generic sports like badminton, football, cricket, etc. Yoga is the application of physical postures, control of breath, purification and relaxation of mind / body and spiritual principles aimed at bringing greater unity and balance to the mind and body. The use of breathing techniques known as *Pranayama* enables a person to focus on breath and helps to calm and still the mind and cultivate concentration ability. *Pranayama* can also help to energise and revitalize the body.

### 2. COMPETENCY

The purpose of this course is to help the student to attain the following industry identified competency through various teaching learning experiences:

• Apply sports and yoga activities to keep the body physically and mentally fit.

### 3. COURSE OUTCOMES (COs)

The practical exercises, the underpinning knowledge and the relevant soft skills associated with the identified competency are to be developed in the student for the following Course Outcomes (COs) achievement:

- a) Practice physical activities and yoga for strength, flexibility and relaxation.
- b) Use techniques for increasing concentration and decreasing anxiety for stronger academic performance.
- c) Perform yoga exercises in various combination and forms.
- d) Improve personal fitness through participation in sports and yoga activities.
- e) Follow sound nutritional practices for maintaining good health and physical performance.

# OLOGO CALUMNERSITY

# **GUJARAT TECHNOLOGICAL UNIVERSITY**

**Program Name: Diploma in Engineering** 

Level: Diploma Branch: All

Course / Subject Code: DI01000041 Course / Subject Name: Sports & Yoga

### 4. TEACHING AND EXAMINATION SCHEME

	ching Sche	me	Total Credits L+T+ (PR/2)	Assessment Pattern and Marks			Total		
					Theory		Tutorial / F	Practical	Marks
L	Т	PR	С	ESE (E)	PA / CA (M)	PA/CA (I)	ESE (V)		
0	0	2	0	0	0	50	0	50	

### 5. SUGGESTED PRACTICAL EXERCISES

The following practical outcomes (PrOs) are the sub-components of the COs. Some of the **PrOs** marked '\*' are compulsory, as they are crucial for that particular CO at the 'Precision Level' of Dave's Taxonomy related to 'Psychomotor Domain'.

Sr.No	Practical Outcomes (PrOs)	Unit No.	Approx. Hrs. required
1.	Perform following Yoga Asanas under the guidance of yoga trainer :-  • Surya Namesake (Sun Salutation)  • Tadasana (Mountain pose)  • Vrikshasana (Tree pose)  • Vajrasan (Hand under foot pose)  • Pada-hastasana (Hand under foot pose)  • Ushtrasana (Camel pose)  • Dhanurashana.(Bow Pose)  • Bhjangasana (Snake pose)  • Halasana (Plough pose)  • Shavasana/Yoga Nidra  • Bhastrikai pranayama  • Kapalbhati Pranayam  • Anulom Vilom pranayama  • Bhramari Pranayam	III	12*
2.	Participate in any sports activities of your choice :  • Indoor sports/games (Badminton, Chess, Carrom, Table Tennis)  • Outdoor sports/games (Cricket, Kabaddi, , Volley ball, Basketball, Football, Hockey)	IV	14
3.	Prepare report on any sports events including associated rules, playground specification, rules for judgment, etc.)	IV	04



**Program Name: Diploma in Engineering** 

Level: Diploma Branch:All

Course / Subject Code: DI01000041 Course / Subject Name: Sports & Yoga

	Total	30

<u>Note</u> More **Practical Exercises** can be designed and offered by the respective course teacher to develop the industry relevant skills/outcomes to match the COs. The above table is only a suggestive list.

i. The following are some **sample** 'Process' and 'Product' related skills (more may be added/deleted depending on the course) that occur in the above listed **Practical Exercises** of this course required which are embedded in the COs and ultimately the competency.

Sr. No.	Sample Performance Indicators for the PrOs	Weightage in %
	-Not applicable-	Nil

## 6. MAJOR EQUIPMENT/ INSTRUMENTS REQUIRED

The major equipment with broad specifications for the PrOs is a guide to procure them by the administrators to usher in uniformity of practical's in all institutions across the state.

Sr. No.	Equipment Name with Broad Specifications	PrO. No.
1	.Yoga Mats/	
	BlanketsStraps	
	Block	
	S	
	Bolste	
	rs	
	Chairs	
	Meditation cushions	
	Eye pillows (tissues or washable cloth to cover	1
	them)Mat cleaning wipes	
	Strong floorings	
	Temperature control, fans, portable heaters (if needed)	
	Chime, bells, or gong (for bringing people out of corpse pose, or	
	silent meditation)	
	Essential oil	
	diffuserYoga CD's	
	CD player	
	Lighting system that allows for dimming	
	Effective sound system	
	Salt lamp – they purify air and look lovely	
	Sandbags	
2	Sports and games accessories as per the decision of college.	
		2

### 7. AFFECTIVE DOMAIN OUTCOMES



**Program Name: Diploma in Engineering** 

Level: Diploma Branch:All

Course / Subject Code: DI01000041

Course / Subject Name: Sports & Yoga

The following *sample* Affective Domain Outcomes (ADOs) are embedded in many of the above-mentioned COs and PrOs. More could be added to fulfill the development of this course competency.

- a) Follow safe practices.
- b) Practice good housekeeping.
- c) Demonstrate working as a leader/a team member.
- d) Maintain tools/accessories/ equipment.
- e) Follow ethical practices.

The ADOs are best developed through the laboratory/field-based exercises. Moreover, the level of achievement of the ADOs according to Krathwohl's 'Affective Domain Taxonomy' should gradually increase as planned below:

- i. 'Valuing Level' in 1st year
- ii. 'Organization Level' in 2<sup>nd</sup> year.
- iii. 'Characterization Level' in 3<sup>rd</sup> year.

### 8. UNDERPINNING THEORY

The major underpinning theory is given below based on the higher level UOs of *Revised Bloom's taxonomy* that are formulated for development of the COs and competency. If required, more such UOs could be included by the course teacher to focus on attainment of cOs and competency.

Unit	<b>Unit Outcomes (UOs)</b>	Topics and Sub-topics
	(4 to 6 UOs at different	
	levels)	
Unit – I	1a. Explain importance	1.1 Aims & Objectives of
	ofphysical education.	PhysicalEducation
Introduction to	1b. Describe importance	1.2 Changing trends in Physical Education
Physical	ofPhysical Fitness &	1.3 Meaning & Importance of
fitness	Wellness	PhysicalFitness & Wellness
	1c. Explain the	1.4 Components of Physical fitness
	componentsof	1.5 Components of health related fitness
	physical fitness.	1.6 Components of wellness
	1d. Demonstrate healthy life	1.7 Preventing health threats through
	style.	lifestyle change
	1e. Prevent health threats by	1.8 Concept of positive lifestyle
	Changing life style.	v

# TOLOGO CANTINUERSITY CANTINUER

# **GUJARAT TECHNOLOGICAL UNIVERSITY**

**Program Name: Diploma in Engineering** 

Level: Diploma
Branch: All

Course / Subject Code: DI01000041 Course / Subject Name: Sports & Yoga

TT 14 TT	0 F 1 ' ' C	24 4 4 1 11 11
Unit – II	2a. Explain importance of	2.1 Anatomy, physiology and its
	anatomy and	importance.
<b>Fundamentals of</b>	<u>.</u>	2.2 Effect of exercise on various body
Anatomy &		system i.e. circulatory system,
Physiology in	exercise in various	respiratory system, neuro- muscular
sports & yoga	bodysystems.	system
	2c. Describe concept of	2.3 Concept and advantages of correct
	correct posture.	posture.
	2e. Explain corrective	2.4 Posture deformities and corrective
	Measures for	Measures.
	posture	
	deformities.	
Unit- III	3.1 Explain	3.1 Meaning & Importance of Yoga
	importance of	Asanas, Pranayama & Meditation
Yoga &	yoga.	3.2 Yoga & related Asanas -
Pranayama	3.2 Perform various	Sukhasana, Tadasana, Padmasana
•	pranayama for	& Shashankasana
	increasing	3.3 Relaxation techniques for improving
	concentration.	concentration - Yog-Nidra
	3.3 Use meditation and othe	er
	relaxation techniques	
	forimproving	
	concentration.	
Unit- IV	4.1 Describe various	4.1 Warming up and limbering down
	warmingexercises.	exercises
Sports/	4.2 Select any game/sports	4.2 Tournaments- Knock out, League/
games	of your choice.	Round Robin & combination
guines	4.3 Explain latest rules of	4.3 Following sub topics related to any one
	anygame/sports.	Game/Sport of choice of student out of:
	4.4 Describe	Badminton, Chess, Carrom, Table
	specifications of play	Tennis, Cricket, and Kabaddi, Volley
	fields and related	ball, Basketball, Football, Hockey, etc.
	sports equipment.	4.4 History of the Game/Sport.
	sports equipment.	4.5 Latest General Rules of the
		Game/Sport.
		4.6 Specifications of Play Fields
		andRelated Sports Equipment.
		4.7 Effect of anxiety & fear on sports
		Performance.
		2 01101111111001



**Program Name: Diploma in Engineering** 

Level: Diploma Branch:All

Course / Subject Code: DI01000041

Course / Subject Name: Sports & Yoga

### 9. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit	Unit	Teaching	Distribution of Theory Marks			
No.	Title	/Practical	R	U	A	Total
		Hours	Leve	Leve	Leve	Marks
			l	l	l	
I	Introduction to Physical fitness					
II	Fundamentals of Anatomy &					
	Physiology in sports & yoga	- Not Applicable -				
III	Yoga & Pranayama					
IV	Sports/games					
	Total					

**Legends:** R=Remember, U=Understand, A=Apply and above (Revised Bloom's taxonomy)

### 10. SUGGESTED STUDENT ACTIVITIES

Other than the classroom and laboratory learning, following are the suggested student-related *co-curricular* activities which can be undertaken to accelerate the attainment of the various outcomes in this course: Students should perform following activities in group and prepare reports of about 5 pages for each activity. They should also collect/record physical evidences for their (student's) portfolio which may be useful for their placement interviews:

- a) Prepare a list of specifications for various tools/equipment/machines used in gymnasium/indoor sports complex.
- b) Undertake a market survey of local dealers for procurement of sports items/ equipment/machines.
- c) Visit the sports shop and collect all relevant information about any sport item and submit the detailed report.
- d) Download video clips showing correct practices for yogasanas, pranayam and any sports/games.
- e) Prepare a chart showing different types of yogasanas.
- f) Prepare a chart showing different types of pranayama.
- g) Prepare a chart showing the field details of any sports/games.

### 11. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES (if any)

These are sample strategies, which the teacher can use to accelerate the attainment of the various outcomes in this course:

- a) Massive open online courses (*MOOCs*) may be used to teach various topics/subtopics.
- b) About 20% of the topics/sub-topics which are relatively simpler or descriptive in nature is to be given to the students for self-learning, but to be assessed using different assessment methods.
- c) With respect to *section No.10*, teachers need to ensure to create opportunities and provisions for *co-curricular activities*.
- f) Arrange visit to nearby yoga center and sports complex and use of videos/animations for



**Program Name: Diploma in Engineering** 

**Level: Diploma** Branch: All

Course / Subject Code: DI01000041

Course / Subject Name: Sports & Yoga

understanding various steps, processes related to the activities.

### SUGGESTED MICRO-PROJECTS: ----**12**.

### 13. SUGGESTED LEARNING RESOURCES

S.	Title of Book	Author	Publication with place,
No.			yearand ISBN
1	Modern Trends and Physical	Ajmer Singh	Kalyani Publication, New Delhi
	Education class 11 & class 12		ISBN: 9789327264319
2	Light on Yoga	B.K.S.	Thomson's Publication, New
		Iyengar	DelhiISBN: 8172235011
3	Health and Physical Education	V.K.Sharma	NCERT Books; Class11,12
			Saraswati House
			Publication, New Delhi
4.	Yoga and Stress Management	Acharya	Fingerprint Publishing
		Yatendra	ISBN: 938905303X
5.	Patanjali Yoga Sutras	Swami	Fingerprint
		Vivekananda	PublishingISBN:
			9389567351
6.	Pranayama Rahasya	Ramdev	Patanjali-Divya
			Prakashan,Haridar
			ISBN: 978-
			8189235017
7.	Yoga its Philosophy & Practice	Ramdev	Divya Prakash an, Haridwar

## **SOFTWARE/LEARNING WEBSITES**

https://youtu.be/dAqQqmaI9vY https://youtu.be/c8hjhRqIwHE https://youtu.be/MrR04m1zoJ8 https://youtu.be/P-jwGj7YqNM https://youtu.be/3p4r\_ad2Y7g https://youtu.be/mndOIVCwFss https://youtu.be/J68MR3dBzto