

[DEGREE PROGRAMMES](#)[BOLOGNA](#)[THE INSTITUTION](#)[INFO FOR STUDENTS](#)You are here : [Home](#) [Bachelor's Degree \(First Cycle\)](#) [Physics](#) [Physics of Sports And Games](#) **[Course Information](#)**

## Course Information

### COURSE INFORMATION

Course Title	Code	Semester	L+U Hour	Credits	ECTS
Physics of Sports And Games	FİZ301	5. Semester	3 + 0	3.0	7.0

<b>Prerequisites</b>	None
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<b>Language of Instruction</b>	English
<b>Course Level</b>	Bachelor's Degree (First Cycle)
<b>Course Type</b>	Elective
<b>Mode of delivery</b>	Face to face
<b>Course Coordinator</b>	Assoc. Prof. Dr. Kıvanç SEL
<b>Instructors</b>	
<b>Assistants</b>	
<b>Course Objectives</b>	The aim of this course is to help students learn the physics of sports and games.
<b>Course Content</b>	History of sport and game physics, bowling, basketball, football, baseball, walking, running, marathon, athleticism, tennis, bicycling, swimming, Karate, sailing
<b>Course Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1) Apply the basic science knowledge.</li> <li>2) Define the physics of sports and games.</li> <li>3) Associate the obtained information with sports</li> <li>4) Relate the law's of motion with sports.</li> <li>5) Solve the basic dynamic problems of sports</li> </ol>

### WEEKLY COURSE CONTENT

Week	Topics	Teaching and Learning Methods and Techniques	Study Materials
1. Week	Introduction	Lecture and recitation	
2. Week	History of sport and game physics	Lecture and recitation	
3. Week	Bowling	Lecture and recitation	
4. Week	Basketball	Lecture, recitation and homework	
5. Week	Football	Lecture and recitation	

### Quick Access

### Physics

- Qualification Awarded
- Level of Qualification
- Qualification Requirements and Regulations
- Specific Admission Requirements
- Recognition of Prior Learning
- Profile of the Program
- Program Key Learning Outcomes
- Occupational Profile of Graduates
- Access to Further Studies
- Course Structure & Credits
- Exam Regulations & Assessment & Grading
- Graduation Requirements
- Mode of Study
- Programme Director(or Equivalent)
- Evaluation Questionnaire
- TYYÇ

### Course Information

- Course Information
- Weekly Course Content
- Resources
- Course Category
- CONTRIBUTION OF COURSE LEARNING OUTCOMES TO PROGRAMME OUTCOMES
- ECTS credits and course workload

6. Week	Baseball	Lecture and recitation	
7. Week	Walking	Lecture and recitation	
8. Week	Midterm Exam	Written exam	
9. Week	Running	Lecture and recitation	
10. Week	Marathon	Lecture and recitation	
11. Week	Athleticism	Lecture and recitation	
12. Week	Tennis	Lecture and recitation	
13. Week	Bicycling	Lecture, recitation and homework	
14. Week	Swimming and sailing	Lecture and recitation	
15. Week	Karate	Lecture and recitation	
16. Week	Final Exam	Written exam	

## RESOURCES

Recommended Sources
'The Physics of Sports' A.Armenti, American Inst. of Physics, ISBN-10: 0883189461 (ISBN-13: 978-0883189467 ) 1992
'Football Physics: The Science of the Game', T. Gay, B. Belichick, Rodale Books, ISBN-10: 157954911X (ISBN-13: 978-1579549114), 2004
'Gold Medal Physics: The Science of Sports', John Eric Goff, The Johns Hopkins University Pres, ISBN-10: 0801893224, (ISBN-13: 978-0801893223), 2009

## ASSESSMENT

Measurement and Evaluation Methods and Techniques
Written exam, homework and presentations. (60% Final, 30% midterm, 10% homework and presentation)

## COURSE CATEGORY

Course Category	Percentage
Core Courses	% 70
Support Courses	% 30

## CONTRIBUTION OF COURSE LEARNING OUTCOMES TO PROGRAMME OUTCOMES

Programme Outcomes	Contribution Level	DK1	DK2	DK3	DK4	DK5
<u>PY1</u>	5	5	5	5	5	5
<u>PY2</u>	5	5	5	5	5	5
<u>PY3</u>	5	5	5	5	5	5
<u>PY4</u>	2	2	2	2	2	2
<u>PY5</u>	4	4	4	4	4	4
<u>PY6</u>	5	5	5	5	5	5
<u>PY7</u>	2	2	2	2	2	2

<u>PY8</u>	1	1	1	1	1	1
<u>PY9</u>	3	3	3	3	3	3
<u>PY10</u>	3	3	3	3	3	3
<u>PY11</u>	4	4	4	4	4	4
<u>PY12</u>	3	3	3	3	3	3
<u>PY13</u>	4	4	4	4	4	4
<u>PY14</u>	3	3	3	3	3	3
<u>PY15</u>	5	5	5	5	5	5

\*DK = Course's Contribution.

	0	1	2	3	4	5
<b>Level of contribution</b>	None	Very Low	Low	Fair	High	Very High

## ECTS CREDITS AND COURSE WORKLOAD

Event	Quantity	Duration (Hour)	Total Workload (Hour)
Class Hours (14 weeks)	14	3	42
Final Exam Preparation	1	28	28
Mid Term Exam Preparation	1	27	27
Further Study	14	3	42
Final Exam	1	2	2
Mid Term Exam 1	1	2	2
Assignment 1	1	18	18
Assignment 2	1	18	18
<b>Total Workload</b>			179
<b>Total Workload / 25.5 (s)</b>			7.02
<b>ECTS Credit of the Course</b>			7