



COURSE DESCRIPTION

1. Program identification information

1.1 Higher education institution	National University of Science and Technology Politehnica Bucharest
1.2 Faculty	Electronics, Telecommunications and Information Technology
1.3 Department	Electronic Devices, Circuits and Architectures
1.4 Domain of studies	Electronic Engineering, Telecommunications and Information Technology
1.5 Cycle of studies	Bachelor/Undergraduate
1.6 Programme of studies	Microelectronics, Optoelectronics and Nanotechnologies

2. Date despre disciplină

2.1 Course name (ro) (en)	Educație fizică și sport 6 Physical education and sports 6						
2.2 Course Lecturer	NA						
2.3 Instructor for practical activities	Conf. Dr. Narcis Neagu						
2.4 Year of studies	3	2.5 Semester	2	2.6. Evaluation type	V	2.7 Course regime	F
2.8 Course type	C	2.9 Course code	04.C.05.L.034	2.10 Tipul de notare	Nota		

3. Total estimated time (hours per semester for academic activities)

3.1 Number of hours per week	1	Out of which: 3.2 course	0.00	3.3 seminary/laboratory	1
3.4 Total hours in the curricula	28	Out of which: 3.5 course	0	3.6 seminary/laboratory	28
Distribution of time:					hours
Study according to the manual, course support, bibliography and hand notes Supplemental documentation (library, electronic access resources, in the field, etc) Preparation for practical activities, homework, essays, portfolios, etc.					11
Tutoring					0
Examinations					0
Other activities (if any):					0
3.7 Total hours of individual study	11.00				
3.8 Total hours per semester	25				
3.9 Number of ECTS credit points	2				

4. Prerequisites (if applicable) (where applicable)

4.1 Curriculum	Not applicable
4.2 Results of learning	Not applicable

5. Necessary conditions for the optimal development of teaching activities (where applicable)



5.1 Course	Not applicable
5.2 Seminary/ Laboratory/Project	Sports field, gym equipped with equipment and materials specific to the activity, the Moodle platform and Microsoft Teams

6. General objective (*Referring to the teachers' intentions for students and to what the students will be thought during the course. It offers an idea on the position of course in the scientific domain, as well as the role it has for the study programme. The course topics, the justification of including the course in the curricula of the study programme, etc. will be described in a general manner*)

The study program is aligned with the policy and strategy of the NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY POLITEHNICA BUCHAREST, both in terms of content and structure, as well as in terms of learning outcomes and the opportunities offered to students on the labor market in the field of Business Engineering. The course meets the current requirements of economic development and evolution at the national and international level of the higher technical education system by training specialists in the field of business capable of solving problems in a knowledge-based economy. The course specifically addresses current development and evolution needs at national and international level by contributing to optimizing health; preventing the onset of global and segmental physical deficiencies; forming and maintaining correct body posture; stimulating students' interest in the systematic and independent practice of physical exercise individually and collectively on a daily or weekly basis; creating the habit of complying with sports hygiene rules and accident prevention; developing self-defense and self-improvement abilities. The general objective of the course includes: increasing physical and intellectual work capacity; harmonious development of the body; optimizing health; preventing the onset of global and segmental physical deficiencies; forming and maintaining correct body posture.

7. Competences (*Proven capacity to use knowledge, aptitudes and personal, social and/or methodological abilities in work or study situations and for personal and professional growth. They reflect the employers requirements.*)

Specific Competences	Consolidation of the basic notions from the school of running, jumping, and throwing
Transversal (General) Competences	Maintaining an optimal state of health. Acquiring running, jumping, and throwing skills executed correctly

8. Learning outcomes (*Synthetic descriptions for what a student will be capable of doing or showing at the completion of a course. The learning outcomes reflect the student's accomplishments and to a lesser extent the teachers' intentions. The learning outcomes inform the students of what is expected from them with respect to performance and to obtain the desired grades and ECTS points. They are defined in concise terms, using verbs similar to the examples below and indicate what will be required for evaluation. The learning outcomes will be formulated so that the correlation with the competences defined in section 7 is highlighted.*)



Knowledge	<p><i>The result of knowledge acquisition through learning. The knowledge represents the totality of facts, principles, theories and practices for a given work or study field. They can be theoretical and/or factual.</i></p> <p>The result of assimilating information through learning. Knowledge represents the set of facts, principles, theories, and practices related to a particular field of work or study. It can be theoretical and/or factual. · Lists the most important stages that marked the development of the field · Defines notions specific to the field · Describes/classifies notions/processes/phenomena/structures · Deepens certain notions from physical education and sports, as well as its place within the overall instructional-educational systems · Knows basic terminological notions from the practiced sports branches · Knows general rules regarding the organization of competitions · Awareness of the beneficial effects of participating in physical education and sports classes. Defining the concept of leisure and recreation</p>
Skills	<p><i>The capacity to apply the knowledge and use the know-how for completing tasks and solving problems. The skills are described as being cognitive (requiring the use of logical, intuitive and creative thinking) or practical (implying manual dexterity and the use of methods, materials, tools and instrumentation).</i></p> <p>Selects and groups relevant information in a given context · Works productively in a team · Analyzes and compares the obtained data · Acquires and improves technical elements from the practiced sport branch · Develops biomotor abilities (strength, endurance, speed, coordination, flexibility) · Develops the ability to work in a team, to respond promptly, correctly and efficiently to demands, to make quick decisions with presence of mind · Identifies solutions and develops solving plans · Argues the identified solutions/ways of solving · Understands the concept of health in the current lifestyle · Understands the importance of practicing physical exercises to maintain health and work capacity, and to combat certain diseases and deficiencies · Carries out, efficiently and effectively, the tasks for organizing and conducting sports activities</p>
Responsibility and autonomy	<p><i>The student's capacity to autonomously and responsibly apply their knowledge and skills.</i></p> <p>Selects appropriate bibliographic sources and analyzes them. · Respects the principles of academic ethics by correctly citing the bibliographic sources used. · Demonstrates receptiveness to new learning contexts. · Shows collaboration with other colleagues and teaching staff in carrying out educational activities. · Promotes moral, civic, and willpower qualities. · Promotes the spirit of fair play in human relationships. · Demonstrates autonomy in organizing the learning situation/context or the problem situation to be solved. · Demonstrates social responsibility through active involvement in student social life/involvement in events of the academic community. · Promotes/contributes with new solutions in the field of specialization to improve and optimize the quality of social life.</p>

9. Teaching techniques (Student centric techniques will be considered. The means for students to participate in defining their own study path, the identification of eventual fallbacks and the remedial measures that will be adopted in those cases will be described.)

Starting from the analysis of students' learning characteristics and their specific needs, the teaching process will explore both expository methods (lecture, presentation) and conversational-interactive methods, based on discovery learning models facilitated by direct and indirect exploration of reality (experiment, demonstration, modeling), as well as action-based methods such as exercise, practical activities, and problem solving. In teaching, verbal methods (storytelling, explanation, lecture, conversation, brainstorming, and individual study), intuitive methods (demonstration, use of iconographic materials, and observation of others' execution), and practical methods (exercising to form motor skills and abilities; exercising to develop and train motor qualities; exercising to optimize physical development; exercising to form organizational capacity; exercising to develop the ability to practice physical exercises autonomously;



exercising to develop the ability to practice physical exercises independently) will be predominantly used. Lectures will be used, based on PowerPoint presentations or various short videos that will be made available to students. The presentations use images and diagrams so that the information presented is easy to understand and assimilate. This course covers information and practical activities designed to support students in their learning efforts and in developing optimal collaborative and communication relationships within a climate conducive to discovery learning.

10. Contents

SEMINARY		
Crt. no.	Content	No. hours
1	Athletics: elements from the school of running and jumping. Gymnastics: front exercises and formations Aerobic gymnastics: sets of exercises Applied courses combined with elements of running, balance, climbing, crawling, scaling, transport; Team sports: basketball, football, volleyball Global practice of the game on reduced courts	14
	Total:	14

Bibliography:
Bibliografie: Bompă T., Teoria și metodică antrenamentului, Edit. Tana, 2008 Colibaba D. E., Praxiologie și proiectare curriculară în educație fizică și sport, Craiova, Edit. Universitaria, 2007 Epuran M. Metodologia cercetării activităților corporale. Exerciții fizice, sport, fitness, Ed. Fest, București, 2005 Tudor V., Capacitățile condiționale coordinative și intermediare, componente ale capacității motrice. Ed. RAI, București, 1999

11. Evaluation

Activity type	11.1 Evaluation criteria	11.2 Evaluation methods	11.3 Percentage of final grade
11.4 Course			
11.5 Seminary/laboratory/project	Attendance of physical education and sports classes	Ongoing assessment	80%
	Passing the control tests	Final assessment	20%
11.6 Passing conditions			
Fulfillment of the obligations characteristic of seminar/laboratory/project activities; fulfillment of the obligations characteristic of individual study activities; The result of the final evaluation in a course results from summing the points allocated to each activity within the course (points whose total is 100), and the total score is converted into a grade (from 1 to 10) by dividing by 10 and rounding (except for grade 5, which is obtained by truncation). The minimum score to pass a course is 50 points.			

12. Corroborate the content of the course with the expectations of representatives of employers and representative professional associations in the field of the program, as well as with the current state of knowledge in the scientific field approached and practices in higher education institutions in the European Higher Education Area (EHEA)

There is a close correlation between the course objectives and employer needs



Universitatea Națională de Știință și Tehnologie Politehnica București
Facultatea de Electronică, Telecomunicații și
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Date	Course lecturer	Instructor(s) for practical activities
25.09.2025	Conf. Dr. Narcis Neagu	Conf. Dr. Narcis Neagu

Date of department approval	Head of department
26.09.2025	Prof. Dr. Claudiu Dan 

Date of approval in the Faculty Council	Dean
26.09.2025	Prof. Dr. Mihnea Udrea 