Course Description Form

Review the performance of higher education institutions ((review of the academic program))

(Course Description (Kinetic Analysis

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, proving whether he or she has made the most of the available learning opportunities. It must be linked to the program description.

1. Educational institution	Educational institution Faculty of Physical Education and Sports Science			
2. University Department / Center				
3. Course Name/Code	Kinetic Analysis /			
4. Programs in which he enters	s Physical Education and Sports Sciences			
5. Available Attendance Forms	s Full Time – Daily			
6. Semester / Year	First and second / 2023-2024			
7. Number of Credit Hours (Total)	2 hours per week			
8. The history of preparation of this description	2024			
9. Course Objectives				
1- Enhancing the student's ability to keep pace with the development in the field of sports movement analysis				
2- Know the appropriate analysis mechanism for sports movements				
3- Increase the student's ability to use kinetic analysis software				
4- Increase the precise observation ability imposed by the material for the kinetic analysis process				
5- Communicating the student's cognitive skills in proportion to the student's mental ability				
6- Understanding comparisons and performance advantage through the kinetic analysis process				
7- The ability to predict the level and its development by establishing the concepts of correct analysis of sports movements				
0. Learning outcomes and teaching, learning and assessment methods				
A- Knowledge and understanding				
 Building a philosophy and understanding the foundations of kinetic analysis Set goals, design kinetic analysis activities and teach lesson content 				
3- Basic principles of the analytical process of different events				

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- 4- Division of the analysis process according to the principles of movement and its motor stages
- 5- Evaluating the level of performance through skill performance analysis

B - Subject-specific skills

Adjust the software for kinetic analysis -1

The ability to achieve motor development through the process of kinetic analysis -2 The ability of educational activities that achieve an advanced level in understanding -3 .and absorbing kinetic analysis

Planning and implementing the method of operation and finding individual -4 differences between students

5- Numbers of teachers capable of analyzing movements mechanically

Teaching and learning methods

The student learned some programs for kinetic analysis -1

The use of computers continuously enhances and develops the student's learning -2 using kinetic analysis

Owning screens associated with displaying lectures in an integrated manner for all -3 classrooms, which stimulates the education process

The use of the biomechanical laboratory as part of the student's teaching the -4 method of measurement and is part of the tasks of kinetic analysis

Evaluation methods

. Daily tests with multiple-choice questions for subjects -

- Participation grades for students' challenging competition questions .

Setting grades for assigned homework in two ways, the practical part - and the theoretical part

C- Thinking skills

- Providing students with general knowledge in biomechanics and kinetic -1 analysis
- Applying the knowledge gained by students in sports training and motor -2 learning from the principle of understanding kinetic analysis
- Benefiting from what students have learned from the analysis process and its -3 implications in their graduation research

d. General and transferable skills (other skills related to employability and .(personal development

.D1- Time management to achieve the maximum benefit and the best return D2- Using the means of effective communication skills and the ability to work .together to activate the processes related to the sports field

D3- Using methods and procedures to collect, build and analyze databases using .the computer

D4- Writing and presenting reports and memoranda using modern means of . communication and technology

D5- Active participation in professional gatherings of local and national physical .education and in the wider educational field

D6- Practicing continuous learning and self-learning in the sports field and in life .in general

.D7- Leading individuals to achieve the desired goals

D8- Knowledge of one of the foreign languages to activate the work environment when needed.

11. Course Structure					
The week	Hours	Required Learning Outcomes	Name of the unit/course or topic	Method of education	Evaluation method
1	2	Learn and acquire analytical concepts	Introduction to kinetic analysis The concept and importance of kinetic analysis	Built-in presence	Oral and written participation
2	2	Learn and acquire analytical concepts	Types of kinetic analysis For biomechanical analysis of motion	Built-in presence	Oral and written participation
3	2	Learn and acquire analytical concepts	Motion and relative motion Motion phenotype	Built-in presence	Oral and written participation
4	2	Learn and acquire analytical concepts	Kinetic analysis according to the time course / regular movements and irregular movements	Built-in presence	Oral and written participation
5	2	Learn and acquire analytical concepts	Anatomical levels and axes of the human body	Built-in presence	Oral and written participation
6	2	Learn and acquire analytical concepts	Steps in kinetic analysis	Built-in presence	Oral and written participation
7	2	Learn and acquire analytical concepts	Levels of kinetic analysis	Built-in presence	Oral and written participation
8	2	Learn and acquire analytical concepts	Forces acting on motion External forces	Built-in presence	Oral and written participation
9	2	Learn and acquire analytical concepts	Internal forces	Built-in presence	Oral and written participation
10	2	Learn and acquire analytical concepts	How forces affect motion	Built-in presence	Oral and written participation
11	2	Learn and acquire analytical concepts	Some mechanical foundations and laws in the analysis of movements	Built-in presence	Oral and written participation
12	2	Learn and acquire analytical concepts	Factors that must be available before starting the kinetic analysis process	Built-in presence	Oral and written participation

	2	Learn and		Built-in	Oral and
	2			presence	written
13		acquire	Kinetic analysis steps	presence	participation
		analytical			
		concepts		D. 11/1	
	2	Learn and		Built-in	Oral and written
14		acquire	Mechanical analysis of	presence	participation
		analytical	movements		participation
		concepts			
	2	Student		Built-in	Oral and
15		Performance	Exams	presence	written
		Evaluation			participation
	2	Student		Built-in	Oral and
16		Performance	Exams	presence	written
		Evaluation			participation
	2	Learn and		Built-in	Oral and
17		acquire		presence	written
17		analytical	Observational analysis		participation
		concepts			
	2	Learn and		Built-in	Oral and
10		acquire	Programs and devices	presence	written
18		analytical	used in kinetic analysis		participation
		concepts			
	2	Learn and		Built-in	Oral and
	_	acquire	Practical applications of	presence	written
19		analytical	some kinetic analysis	Ĩ.	participation
		concepts	programs (Kinove)		
	2	Learn and		Built-in	Oral and
	-	acquire		presence	written
20		analytical	Kinove Program	1	participation
		concepts			
	2	Learn and		Built-in	Oral and
	2	acquire		presence	written
21		analytical	kinove		participation
		concepts			· ·
	2	Learn and		Built-in	Oral and
	2	acquire	How angular variables	presence	written
22		analytical	How angular variables are analyzed		participation
		concepts			
	2	Learn and		Built-in	Oral and
	2		How distances	presence	written
23		acquire analytical	How distances are analyzed	Presence	participation
		concepts	anaryzou		
	2	Learn and		Built-in	Oral and
	2			presence	written
24		acquire	How is the time variable	presence	participation
		analytical	analyzed		I FOREIT
	2	concepts		Built-in	Oral and
	2	Learn and			Oral and written
25		acquire	Secondary Exams	presence	participation
		analytical			purilipution
		concepts		D 11/1	
	2	Learn and	How to analyze and	Built-in	Oral and written
26		acquire	interpret numerical values	presence	participation
		analytical	of motor performance		purilipution
		concepts		D. 11. 1	
	2	Learn and	Magnus effect with the ball	Built-in	Oral and written
27		acquire	Uall	presence	participation
21		analytical			purificipation

		concepts			
28	2	Learn and acquire analytical concepts	Classification of motor skills in terms of motor characteristics	Built-in presence	Oral and written participation
29	2	Learn and acquire analytical concepts	The right movements in our bodies	Built-in presence	Oral and written participation
30	2	Evaluation of the student's cognitive performance	examination	Built-in presence	Oral and written participation

12. Infrastructure	
: Required readings • Basic texts • Course Books • Other	(Kinetic analysis (Najah Mahdi Shalash (Biomechanics in sports movements (Hussein Mardan Biomechanics and Sports
Special requirements (including e.g. workshops, periodicals, software, websites)	Workshop in the analysis of sports movements Workshop in modern software for kinetic analysis Kinetic analysis using ABAS software
Social services (e.g. guest lectures, vocational training and field studies)	Awareness lectures in the field of kinetic analysis

13. Acceptance		
Prerequisites	There isn't any	
Minimum number of students	150	
The largest number of students	250	

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