

University of Split Faculty of Kinesiology

CURRICULUM 2017

Postgraduate University (Doctoral) Study of Kinesiology University of Split Faculty of Kinesiology

CURRICULUM

Postgraduate University (Doctoral) Study of Kinesiology

2016/2017

Split, 2017

Contents

1. LIST OF COMPULSORY AND ELECTIVE COURSES	4
1.1. Semester I	4
1.2. Semester II	5
1.3. Semester III	7
2. SYLLABI OF COMPULSORY AND ELECTIVE COURSES	8
2.1. Compulsory courses	8
RESEARCH METHODOLOGY IN KINESIOLOGY	8
QUANTITATIVE METHODS AND KINESIOMETRY	11
SYSTEMS OF SCIENTIFIC RESEARCH IN APPLIED KINESIOLOGY	13
RESEARCH OF ANTHROPOLOGICAL STATUS IN KINESIOLOGY	16
2.2. Elective courses	19
2.2.1. Semester I	19
MOTOR LEARNING AND MOTOR SKILLS	19
REGULARITIES OF DEVELOPMENTAL PROCESSES IN KINESIOLOGY	21
KINESIOLOGY OF EDUCATION	24
PHYSICS OF SPORTS.	27
ACUTE INJURIES OF SOFT TISSUE IN ATHLETES	29
APPLIED MEDICINE IN KINESIOLOGY AND SPORT	31
MATRIX ALGEBRA OF MULTIVARIATE STATISTICAL METHODS	34
PLANNING AND WRITING A RESEARCH PAPER	36
2.2.2. Semester II	38
KINESIOLOGICAL AND ANTHROPOLOGICAL ANALYSIS OF COMBAT SPORTS	38
LINEAR ALGEBRA	40
RESEARCH IN KINESIOLOICAL EDUCATION	42
EVALUATION IN KINESIOLOGICAL EDUCATION	44
KINESIOLOGICAL AND ANTHROPOLOGICAL ANALYSIS IN KINESIOLOGICAL EDUCATION	47
ADAPTED PHYSICAL ACTIVITIES AND SPORT	50
KINESIOLOGICAL AND ANTHROPOLOGICAL ANALYSIS OF SPORTS	52
KINESIOLOGICAL AND ANTHROPOLOGICAL ANALYSIS OF DANCES	55
MODELS OF SELECTION AND ORIENTATION IN KINESIOLOGY	57
SELECTED CHAPTERS ON BIOLOGICAL PSYCHOLOGY AND NEUROSCIENCE	60
MEDICAL DIAGNOSTIC METHODS IN KINESIOLOGY AND SPORT	62
INTEGRATION OF SCIENCE AND ELITE SPORT	64
SELECTED CHAPTERS ON QUANTITATIVE METHODS	66

2.2	.3. Semester III	68
•	KINESIOLOGY IN ARMED FORCES	68
•	KINESIOLOGY OF EDUCATION OF PRESCHOOL, YOUNGER, MIDDLE AND OLDER SCHOOL AGE.	71
•	TRANSFORMATIONAL EFFECTS OF KINESITHERAPEUTIC PROCEDURES	73
•	KINEMATIC ANALYSIS OF KINESIOLOGICAL ACTIVITIES	75
•	EXPERT SYSTEMS IN SPORT	77
•	DIAGNOSTICS AND METHODOLOGY IN KINESIOLOGICAL RECREATION AND	
	FITNESS	79
•	SELECTED CHAPTERS ON DEVELOPMENTAL PSYCHOLOGY	81
•	NEUROPHYSIOLOGICAL BASIS OF MOVEMENT	83

1. LIST OF COMPULSORY AND ELECTIVE COURSES

1.1. Semester I

COMPULSORY COURSES						
Teachers	Course	Code	Sem	ECTS	Hours	
Professor Josip Babin, PhD Professor Zoran Grgantov, PhD Assistant Professor Dražen Čular, PhD Assistant Professor Mirjana Milić, PhD Johnny Padulo, PhD	RESEARCH METHODOLOGY IN KINESIOLOGY	MZIK	1	6	25	
Professor Nenad Rogulj, PhD Associate Professor Jelena Paušić, PhD Assistant Professor Igor Jelaska, PhD	QUANTITATIVE METHODS AND KINESIOMETRY	КМК	1	6	25	

ELECTIVE COURSES						
Teachers	Course	Code	Sem	ECTS	Hours	
Professor Đurđica Miletić, PhD	MOTOR LEARNING AND MOTOR SKILLS	MUMZ	1	3	10	
Professor Nebojša Zagorac, PhD	REGULARITIES OF DEVELOPMENTAL PROCESSES IN KINESIOLOGY	ZRK	1	3	10	
Professor Emeritus Vladimir Findak, PhD	KINESIOLOGY OF EDUCATION	KED	1	3	10	
Professor Mile Dželalija, PhD	PHYSICS OF SPORTS	FSK	1	3	10	
Professor Ljerka Ostojić, PhD Professor Zdenko Ostojić, PhD	ACUTE INJURIES OF SOFT TISSUE IN ATHLETES	AOM	1	3	10	
Assistant Professor Vladimir Ivančev, PhD Assistant Professor Tomislav Franić, PhD	APPLIED MEDICINE IN KINESIOLOGY AND SPORT	PMKS	1	3	10	
Assistant Professor Igor Jelaska, PhD	MATRIX ALGEBRA OF MULTIVARIATE STATISTICAL METHODS	MMSM	1	3	10	
Professor Matko Marušić, PhD	PLANNING AND WRITING A RESEARCH PAPER	PPZR	1	3	10	

NOTICE: Students choose one elective course for the first semester.

1.2. Semester II

COMPULSORY COURSES					
Teachers	Course	Code	Sem	ECTS	Hours
Professor Josip Babin, PhD Professor Zoran Grgantov, PhD Professor Nebojša Zagorac, PhD Associate Professor Tonči Bavčević, PhD Associate Professor Jelena Paušić, PhD Assistant Professor Boris Milavić, PhD Assistant Professor Mirjana Milić, PhD	SYSTEMS OF SCIENTIFIC RESEARCH IN APPLIED KINESIOLOGY	SZPK	2	7	30

	ELECTIVE COURSES						
Teachers	Course	Code	Sem	ECTS	Hours		
Professor Saša Krstulović, PhD Assistant Professor Hrvoje Karninčić, PhD	KINESIOLOGICAL AND ANTHROPOLOGICAL ANALYSIS OF COMBAT SPORTS	КААВ	2	4	10		
Professor Damir Vukičević, PhD	LINEAR ALGEBRA	LAG	2	4	10		
Associate Professor Tonči Bavčević, PhD	RESEARCH IN KINESIOLOICAL EDUCATION	TUSE	2	4	10		
Professor Josip Babin, PhD Assistant Professor Lidija Vlahović, PhD	EVALUATION IN KINESIOLOGICAL EDUCATION	VKED	2	4	10		
Professor Josip Babin, PhD Associate Professor Tonči Bavčević, PhD	KINESIOLOGICAL AND ANTHROPOLOGICAL ANALYSIS IN KINESIOLOGICAL EDUCATION	KAAE	2	4	10		
Associate Professor Jelena Paušić, PhD	ADAPTED PHYSICAL ACTIVITIES AND SPORT	PTAS	2	4	10		
Professor Nenad Rogulj, PhD	KINESIOLOGICAL AND ANTHROPOLOGICAL ANALYSIS OF SPORTS	KAAS	2	4	10		
Professor Đurđica Miletić, PhD	KINESIOLOGICAL AND ANTHROPOLOGICAL ANALYSIS OF DANCES	КААР	2	4	10		
Professor Nebojša Zagorac, PhD	MODELS OF SELECTION AND ORIENTATION IN KINESIOLOGY	MSOK	2	4	10		
Associate Professor Goran Kardum, PhD Assistant Professor Andreja Bubić, PhD	SELECTED CHAPTERS ON BIOLOGICAL PSYCHOLOGY AND NEUROSCIENCE	NZK	2	4	10		

Associate Professor Marko Erceg, PhD Assistant Professor Vladimir Ivančev, PhD	MEDICAL DIAGNOSTIC METHODS IN KINESIOLOGY AND SPORT	MDKS	2	4	10
Assistant Professor Mario Tomljanović, PhD Assistant Professor Ana Kezić, PhD	INTEGRATION OF SCIENCE AND ELITE SPORT	IZVS	2	4	10
Assistant Professor Igor Jelaska, PhD	SELECTED CHAPTERS ON QUANTITATIVE METHODS	ОРКМ	2	4	10

NOTICE: Students choose two elective courses for the second semester.

1.3. Semester III

COMPULSORY COURSES						
Teachers	Course	Code	Sem	ECTS	Hours	
Professor Đurđica Miletić, PhD Professor Saša Krstulović, PhD Associate Professor Sunčica Delaš-Kalinski, PhD Associate Professor Marko Erceg, PhD Associate Professor Frane Žuvela, PhD Assistant Professor Ana Kezić, PhD	RESEARCH OF ANTHROPOLOGICAL STATUS IN KINESIOLOGY	IAS	3	7	30	

ELECTIVE COURSES						
Teachers	Course	Code	Sem	ECTS	Hours	
Professor Boris Maleš, PhD Assistant Professor Boris Milavić, PhD	KINESIOLOGY IN ARMED FORCES	KOS	3	3	10	
Professor Ivan Prskalo, PhD	KINESIOLOGY OF EDUCATION OF PRESCHOOL, YOUNGER, MIDDLE AND OLDER SCHOOL AGE	EDD	3	3	10	
Associate Professor Jelena Paušić, PhD	TRANSFORMATIONAL EFFECTS OF KINESITHERAPEUTIC PROCEDURES	ТUКР	3	3	10	
Professor Vladan Papić, PhD	KINEMATIC ANALYSIS OF KINESIOLOGICAL ACTIVITIES	ККА	3	3	10	
Professor Nenad Rogulj, PhD Professor Vladan Papić, PhD	EXPERT SYSTEMS IN SPORT	ESK	3	3	10	
Assistant Professor Dražen Čular, PhD Assistant Professor Vladimir Ivančev, PhD	DIAGNOSTICS AND METHODOLOGY IN KINESIOLOGICAL RECREATION AND FITNESS	DKRF	3	3	10	
Associate Professor Goran Kardum, PhD Assistant Professor Ina Reić Ercegovac, PhD	SELECTED CHAPTERS ON DEVELOPMENTAL PSYCHOLOGY	PRZP	3	3	10	
Professor Slobodan Jarić, PhD	NEUROPHYSIOLOGICAL BASIS OF MOVEMENT	NOUP	3	3	10	

NOTICE: Students choose one elective course for the third semester.

2. SYLLABI ON COMPULSORY AND ELECTIVE COURSES

2.1. Compulsory courses

TITLE OF COURSE	RESEARCH METHODOLOGY I	N KINESIOLOGY						
Code	MZIK Year of study 1							
Course teacher/s	Josip Babin, PhD Full Professor Tenure Zoran Grgantov, PhD Full Professor Dražen Čular, PhD Assistant Professor Mirjana Milić, PhD Assistant Professor Johnny Padulo, PhD	ull Professor Tenure oran Grgantov, PhD ull Professor ražen Čular, PhD Credit value (ECTS) 6 ssistant Professor lirjana Milić, PhD ssistant Professor						
Associate teachers		Instruction form (number of hours per semester)	L 25	S 0	E O	F		
Course status	compulsory course	Percentage of e-learning application	I	209	%			
	COURS	E DESCRIPTION						
Course objectives	To acquire competencies nece in the area of kinesiology.	essary for development and p	presentation	n of res	search de	esigns		
Course enrolment requirements and entry competencies required for the course	defined by the Regulations on University of Split	defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split						
Learning outcomes expected at the course level (4 to 10 learning outcomes)	 (apparatuses) in research to critically read, evaluate to compare different type to develop a research des to understand ethical state 	 to critically evaluate a possibility of application of modern diagnostic devices (apparatuses) in research from the area of kinesiology to critically read, evaluate and organise the existing literature to compare different types of research from the area of kinesiology to develop a research design from the area of kinesiology to understand ethical standards in scientific research 						
		Content			Numb hou			
Course content	1.Introduction; Course requirements; Postpositivist, constructive, transformative and pragmatic assumptions; Tradition of research; Nature of research; Non-scientific and scientific problem solving methods							
broken down in detail	1 2 1 IVDES OF RESEARCH. INTRODUCTION TO RESEARCH process							
by weekly class schedule	3. Strategies of literature search, Formulating the research problem and hypothesis							
	4. analyses	dents, instruments, procedur	es, design a	ind	2			
	5. Functional diagnostics				4			
	6. Neuromuscular diagno				4			
	7. Review (evaluation) o							

	8.	Ethical issue	s in scien	tific research					2
	9. Suggestions of research topics; Doctoral dissertation topic proposal						al	2	
	10.	Writing and	-				Its presentation		2
			NUM	ber of teachi	ng r	nours - 101/	AL		25
	☑ lect ☑ sem □ exe	inars and wor	rkshops	۵	□ n	ndependent nultimedia aboratory	assignments		
Forms of instruction:	☑ part	□ on line in entirely □ partial e-learning □ field work							
Student responsibilities	Studyi Within	ng, which enti	itles stude udents ar	ents for a sign e required to	natu	ire to the co	n Study Program urse. ent a seminar ess		
Screening student work (specify the	Class a	ittendance	1	Research		1	Practical training	g	
proportion of ECTS credits for each	Experi	mental work	1	Report					
activity so that the	Essay			Seminar ess	ау	2			
total number of ECTS credits is equal to the	Tests			Oral exam		1			
ECTS value of the course):	Writte	n exam		Project					
Grading and evaluating student work in class and at the final exam	 well as preparation and development of a seminary essay, its presentation and the final oral exam. <i>Final grade shall include the following components:</i> preparation and development of a seminar essay – 30% presentation of the seminar essay – 30% oral exam – 40% 								
Required literature			Tit	le			Number of copies in the libraries		ailability via ther media
(available in the library and via other media)	1. Thomas, J.R., Silverman, S., & Nelson, J. (2015). <i>Research Methods in Physical Activity</i> (7th ed.). 5 mod Human kinetics.					odle.kifst.hr			
incula)	2.	, Qualitative	, quantit	2014). Rese ative, and n). Thousand O	nixe	ed methods		moc	odle.kifst.hr
Optional literature	 approaches (4th ed.). Thousand Oaks, CA: Sage. Atkinson, G., & Nevill, A.M. (2001). Selected issues in the design and analysis of sport performance research. <i>Journal of Sports Sciences, 19</i>, 811-827. Gilbert, D.W., & Trudel, P. (2004). Analysis of Coaching Science Research Published From 1970-2001. <i>Research Quarterly for Exercise and Sport 75</i> (4), 388-399. Gratton, C., & Jones, I. (2004). <i>Research Methods for Sport Studies</i>. New York: Routledge. Hopkins, G.W. (2000). Measures of Reliability in Sports Medicine and Science. <i>Sports Med, 30</i> (1), 1-15. Kriemler, S., Meyer, U., Martin, E., van Sluijs, E.M.F, Andersen, L.B, & Martin, B.W. (2011). Effect of school-based interventions on physical activity and fitness in children and adolescents: A review of reviews and systematic update. <i>British Journal of Sports Medicine, 45</i> (11), 923-30. 								

	 Munroe-Chandler, K.J. (2005). A Discussion on Qualitative Research in Physical Activity. <i>Athletic Insight, 7</i> (1), 67-81. Padulo, J., Chamari, K., & Ardigo L.P. (2014) Walking and running on treadmill: The standard chriteria for kinematics studies. <i>Muscles, ligaments and tendons journal</i> <i>4</i> (2), 159-162. Padulo. J., Oliva, F., Frizziero, A., & Maffulli, N. (2016). Basic principles and recommendations in clinical and field Science Research: Update 2016. <i>Muscles,</i> <i>Ligaments and Tendons Journal, 6</i> (1), 1-5. Winter, M.E., & Fowler, N. (2009). Exercise defined and quantified according to the Système International d'Unités. <i>Journal of Sports Sciences, 27</i> (5), 447-460. Winter, M.E (2012). Calibration and verification of instruments. <i>Journal of Sports</i> <i>Sciences, 30</i> (12), 1197-1198. <i>other scientific papers from the relevant databases in kinesiology</i>
Quality assurance methods that ensure the acquisition of exit competencies	questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split
Language/s of the course	Croatian English

TITLE OF COURSE	QUAN	NTITATIVE METHODS A		METRY				
Code	KMK		Year of stu			1		
Course teacher/s	Jelaska Full Pr PhD Associ	Assistant Professor Igor Jelaska, PhD Full Professor Nenad Rogulj, PhD Associate Professor Jelena Paušić, PhD						
Associate teachers	Instruction form (number of hours per semester) 25 0					E O	F	
Course status	compu	ulsory course	Percentag applicatio	e of e-learning n		209	%	
		COURS	E DESCRIPT	ION				
Course objectives		uire competencies nece cesses of scientific resea	-	•	aluation	of statistio	cal proce	dures
Course enrolment requirements and entry competencies required for the course		d by the Regulations on rsity of Split	Postgradua	ate Doctoral Study	y of the F	aculty of	Kinesiolo	οgγ,
Learning outcomes expected at the course level (4 to 10 learning outcomes)	 to to to to ki to 	ing outcomes apply different statistic argument application of compare different type develop and test psych nesiology develop research desig present research desig	of adequate es of resear oometrically gn in the are	statistical proced ch in the area of k new measuring i ea of kinesiology	lures inesiolog nstrumei	nts in the		
			Сог	ntent			Numb	
	1.	Introduction to metho operations of linear al		analysis, Basic ter	minology	and	2	
	2.	t-test, ANOVA, MANO	VA				4	
Course content	3.	Discriminant analysis	cion orali				4	
broken down in detail	4. 5.	Factor analysis, Regre Canonical correlation	-				4	
by weekly class	J.	Kinesiometry (basic te			levelopm	ent of a		
schedule	6.	measuring instrument reliability, objectivene	, determini	ng metric charact	eristics,		3	
	7.	Nonparametric metho					3	
	8.	Qualitative research n					2	
		Numl	per of teach	iing hours - TOTA	L		25	
Forms of instruction:	☑ lectures ☑ independent assignments ☑ seminars and workshops □ multimedia □ exercises □ laboratory □ on line in entirely ☑ work with mentor ☑ partial e-learning □							
	\Box field	□ field work						

Student responsibilities	Studying, which enti Within the exam, stu	Class attendance is mandatory according to Regulations on Study Programmes and Studying, which entitles students for a signature to the course. Within the exam, students are required to write and present a seminar essay on a given topic and pass the oral exam.						
Screening student work (specify the	Class attendance	1	Research	1	Practical trainin	g		
proportion of ECTS	Experimental work	1	Report					
credits for each activity so that the	Essay		Seminar essay	2				
total number of ECTS credits is equal to the	Tests		Oral exam	1				
ECTS value of the course):	Written exam		Project					
Grading and evaluating student work in class and at the final exam	well as preparation a oral exam. <i>Final grade shall inc.</i> – preparation – presentatio	rocedure of evaluation includes student activities during classes, extra-curricular work i ell as preparation and development of a seminary essay, its presentation and the final ral exam.						
		Tit	tle		Number of copies in the libraries	Availability via other media		
Required literature (available in the library and via other	1. Thomas, J.R <i>Research M</i> Human kine	lethods i		moodle.kifst.hr				
media)	2. Vincent, W kinesiology		5	moodle.kifst.hr				
	3. Dizdar, D. (2	2006). <i>K</i> i	vantitativne meto	ode. Zagreb:	1			
Optional literature	 Kineziološki fakultet Sveučilišta u Zagrebu. Mendenhall, W., & Sincich, T. (1988). Statistics for the Engineering and Compute Sciences. San Francisco: Dellen Publishing Company and Collier MacMillan Publishers. Sharma, S. (1996). Applied Multivariate Techniques. New York: Wiley & Sons, Inc. Viskić-Štalec, N. (1997). Osnove statistike i kineziometrije. In D. Milanović (Ed.), Priručnik za sportske trenere (pp. 303-356). Zagreb: Fakultet za fizičku kulturu. • other scientific papers from the relevant databases in kinesiology 					lacMillan 'iley & Sons, Inc. 1ilanović (Ed.), zičku kulturu.		
Quality assurance methods that ensure the acquisition of exit competencies	•	questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split						
	Croatian English							

TITLE OF COURSE	SYSTEMS OF SCIENTIFIC RESE	EARCH IN APPLIED KINESIOLO)GY						
Code	SZPK	Year of study		1					
Course teacher/s	Josip Babin, PhD Full Professor Zoran Grgantov, PhD Full Professor Nebojša Zagorac, PhD Full Professor Tonči Bavčević, PhD Associate Professor Jelena Paušić, PhD Associate Professor Boris Milavić, PhD Assistant Professor Mirjana Milić, PhD Assistant Professor		7						
Associate teachers		Instruction form (number of hours per semester)	L S 30 0	E O	F				
Course status	compulsory course	Percentage of e-learning application	2	0%					
	COURS	SE DESCRIPTION							
Course objectives Course enrolment requirements and entry competencies required for the course	Acquiring competencies neces the areas of applied kinesiolog research findings. defined by the Regulations on University of Split	gy as well as for development	of a scientific p	aper and					
Learning outcomes expected at the course level (4 to 10 learning outcomes)	 to evaluate different type to create independently a to organise and implemen to apply ethical standards to develop a scientific page 	es of research from the area o a research plan in the area of nt a research procedure s in different types of scientifi per from the area of kinesiolo	f applied kinesi applied kinesic c research gy	ology blogy	 to critically analyse a possibility of research in the area of applied kinesiology to evaluate different types of research from the area of applied kinesiology to create independently a research plan in the area of applied kinesiology to organise and implement a research procedure to apply ethical standards in different types of scientific research to develop a scientific paper from the area of kinesiology 				
	1 Cosishistorial and	Content		Numb	urs				
	Sociohistorical process Bhilosophical research	ses in sport studies		hou 1	urs				
	2. Philosophical research	ses in sport studies n in physical activity		ho o 1 1	urs				
Course content broken down in	2.Philosophical research3.Research synthesis (m4.Data collection (quest personal interviews, n	ses in sport studies n in physical activity neta-analysis) ionnaires, electronic surveys, normative surveys)	-	hou 1 1 3 2	urs				
	 Philosophical research Research synthesis (m Data collection (quest personal interviews, n Other descriptive rese analyses, activity analyses 	ses in sport studies n in physical activity neta-analysis) ionnaires, electronic surveys,	al research, case	hou 1 1 3 2	urs } !				
broken down in detail by weekly class	 Philosophical research Research synthesis (m Data collection (quest personal interviews, n Other descriptive rese analyses, activity analyses 	ses in sport studies n in physical activity neta-analysis) ionnaires, electronic surveys, normative surveys) earch methods (developmenta ysis, observation method, und correlational research)	al research, case	1 1 3 2	urs }				
broken down in detail by weekly class	 Philosophical research Research synthesis (m Data collection (quest personal interviews, n Other descriptive rese analyses, activity analyresearch techniques, o Epidemiology research 	ses in sport studies n in physical activity neta-analysis) ionnaires, electronic surveys, normative surveys) earch methods (developmenta ysis, observation method, und correlational research)	al research, case		urs - - - - - - - - - - - - -				
broken down in detail by weekly class	 Philosophical research Research synthesis (m Data collection (quest personal interviews, n Other descriptive rese analyses, activity analyresearch techniques, o Epidemiology research 	ses in sport studies n in physical activity neta-analysis) cionnaires, electronic surveys, normative surveys) earch methods (developmenta ysis, observation method, und correlational research) h of physical activity	al research, case		urs				

		Num	per of teachin	g hours - TOTA	\L	30
Forms of instruction:	 ✓ lectures ✓ seminars and worl □ exercises □ on line in entirely ✓ partial e-learning □ field work 	kshops	assignments entor			
Student responsibilities	Class attendance is m Studying, which entit Within the exam, stu	Class attendance is mandatory according to Regulations on Study Programmes and Studying, which entitles students for a signature to the course. Within the exam, students are required to write and present a seminar essay on a giver topic and pass the oral exam.				
Screening student work (specify the	Class attendance	1	Research	1	Practical trainin	g
proportion of ECTS	Experimental work	2	Report			
credits for each activity so that the	Essay		Seminar essay	2		
total number of ECTS credits is equal to the	Tests		Oral exam	1		
ECTS value of the course):	Written exam		Project			
Grading and evaluating student work in class and at the final exam		l ude the f and deve n of the s	ollowing com	ponents: seminar essay		and the final
Required literature (available in the		Titl	e		Number of copies in the libraries	Availability via other media
, library and via other media)	Research M	ethods in		son, J. (2015). <i>ivity</i> (7th ed.).		moodle.kifst.hr
Optional literature	 Human kinetics. Babin, J., Bavčević, T. & Prskalo, I. (2010). Comparative analysis of the specially programmed kinesiological activity on motor area structural changes of male pupils aged 6 to 8. <i>Odgojne znanosti, 12</i> (1), 79-96. Bavčević, T. (2016). Interpersonal Communication in Education – Analysis and Systematisation of Research Directions. <i>Croatian Journal of Education, 18</i> (4), 1201-1233. Bishop, D. (2008). An Applied Research Model for the Sport Sciences. <i>Sports Med 38</i> (3), 253-263 Woods, D.M, Agarwal, S. Jones, D., Young, B., & Sutton, A. (2005). Synthesising qualitative and quantitative evidence: a review of possible methods. <i>Journal of Health Services Research & Policy, 10</i> (1), 45–53. Kolar, P. (2014). <i>Clinical rehabilitation</i>. Alena Kobesová. Tenenbaum, G., Eklund, R.C., & Kamata, A. (2012). <i>Measurement in Sport and Exercise Psychology</i>. Champaign, USA: Human Kinetics. 					ges of male Analysis and <i>ition, 18</i> (4), ces. <i>Sports Med,</i> Synthesising ds. <i>Journal of</i> <i>in Sport and</i>
	* other scient	ijit pupel			ses in kinesiolog	y

Quality assurance	questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of
methods that ensure	Kinesiology, University of Split
the acquisition of exit	
competencies	
Language/s of the	Croatian
course	English

TITLE OF COURSE	RESEARCH OF ANTHROPOLO	GICAL STATUS IN KINESIOLO	GY			
Code	IAS	Year of study		2		
Course teacher/s	Durđica Miletić, PhD Full Professor Tenure Saša Krstulović, PhD Full Professor Sunčica Delaš Kalinski, PhD Associate Professor Marko Erceg, PhD Associate Professor Frane Žuvela, PhD Associate Professor Ana Kezić, PhD Assistant Professor					
Associate teachers		Instruction form (number	L	S	E	F
		of hours per semester)	30	0	0	
Course status	compulsory course	Percentage of e-learning application		20	%	
	COURS	E DESCRIPTION				
Course objectives Course enrolment requirements and entry competencies required for the course	To acquire competencies necessary for development and presentation of research papers from the area of anthropological status in kinesiology. defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split					
Learning outcomes expected at the course level (4 to 10 learning outcomes)	 kinesiology to develop experimental anthropological status in to carry out research fror to analyse and interpret r 	n the area of anthropological results obtained from anthrop emented research in given ti	entation in status in pological	n the are kinesiol	ea of ogy	iology
		Content			Numbe hou	
	1. Generally on character combat sports	ristics of scientific research in	the area	of	1	
Course contract		esearch in combat sports			1	
Course content broken down in detail	3. Characteristics of more combat sports	ea of	2			
by weekly class schedule	4. Valorisation of scientif	ts	2			
Schedule	5. Assessment of previou sports games	is research on anthropologica	al status ir	n	3	
	6. Presenting conducted sports games	research on anthropological	status in		3	
	7. Studying the process of status	f motor learning within the a	inthropolo	ogical	2	

	Assessment	of previou	us research oi	n ar	nthronologi	cal status in	
8.		•			itin opoio6i		2
9.	Valorisation	of scientif	fic research ir	ו at	hletics		2
10.							4
11.	1. Anthropological status research in preschool children						2
12.	Anthropological status research in children of early school age						3
13.	Developmen	t of evalu	ation criteria	for	motor skill	S	3
		Numb	er of teaching	g ho	ours - TOTA	L	30
						assignments	
		rkshops					
	-			⊻ w	ork with m	entor	
	-						
		mandator	v according +		egulations	on Study Drogram	mesand
Study Withii	ing, which ent n the exam, st	itles stude udents ar	ents for a sigr e required to	natu	ire to the co	ourse.	
Class a	attendance	1	Research		2	Practical training	g
Exper	imental work		Report				
Essay			Seminar essay 2				
Tests			Oral exam 2				
Writte	en exam		Project				
well a oral e	s preparation xam. grade shall inc preparation presentatic	and devel c <i>lude the j</i> n and dev on of the s	lopment of a following con relopment of	sen mpc a se	ninary essay onents: eminar essa	, its presentatior	
						Number of	Availability via
						copies in the libraries	Availability via other media
1	Research N	1ethods ii					moodle.kifst.hr
2	. Lecture ma	terials.					moodle.kifst.hr
2	Science Pul Pulkkinen, <i>application</i> Baily, R., Co	olishers In W.J. (200 <i>for traini</i> ollins, D., I	nc. 1). <i>The sport : ng.</i> Ontario C Ford, P., Mac	<i>scie</i> Cana Nar	<i>nce of elite</i> ada: Pulkint nara, A., To	<i>judo athletes: A i</i> ics Inc. ms, M., & Pearce	review & , G. (2010).
	9. 10. 11. 12. 13. □	Physical cond 9. Valorisation 10. Anthropolog 11. Anthropolog 12. Anthropolog 13. Developmen □ □ <td< td=""><td>9. Valorisation of scientif 10. Anthropological status 11. Anthropological status 12. Anthropological status 13. Development of evalu 13. Development of evalu 13. Development of evalu 14. Anthropological status 13. Development of evalu 14. Anthropological status 13. Development of evalu 14. Anthropological status 13. Development of evalu 13. Development of evalu 14. Anthropological status 15. Seminars and workshops □ exercises □ □ on line in entirely ☑ partial e-learning □ field work Class attendance is mandator Studying, which entitles study Within the exam, students ar Class attendance 1 Experimental work □ Essay □ Tests □ Written exam □ Procedure of evaluation inclue well as preparation and deve □ preparation</td><td>physical conditioning of athletes 9. Valorisation of scientific research in 10. Anthropological status research in 11. Anthropological status research in 12. Anthropological status research in 13. Development of evaluation criteria ☑ Interin evaluation criteria ☑ Development of evaluation criteria ☑ Interin entirely ☑ partial e-learning ☐ field work Class attendance is mandatory according to Studying, which entitles students for a sign Within the exam, students are required to topic and pass the oral exam. Class attendance 1 Experimental work Report Essay Seminar essa Tests Oral exam Written exam Project Procedure of evaluation includes student a well as preparation and development of a oral exam. Final grade shall include the following contarion of the seminar essature oral exam. Final grade shall include the seminar essature oral exam. I. Thomas, J.R., Silverman, S., & Ne Research Methods in Physical Action Human kinetics.</td><td>physical conditioning of athletes 9. Valorisation of scientific research in atti 10. Anthropological status research in prei 11. Anthropological status research in chil 13. Development of evaluation criteria for 13. Development of evaluation criteria for 14. Anthropological status research in chil 13. Development of evaluation criteria for 14. Mumber of teaching ho 15. exercises 16. nine in entirely 17. partial e-learning 17. field work Class attendance is mandatory according to R Studying, which entitles students for a signatu Within the exam, students are required to writ topic and pass the oral exam. Class attendance 1 Research Experimental work Report Essay Seminar essay Tests Oral exam Written exam Project Procedure of evaluation includes student active well as preparation and development of a sen oral exam – 40% 1. Thomas, J.R., Silverman, S.,</td><td>physical conditioning of athletes 9. Valorisation of scientific research in aesthetic sport 10. Anthropological status research in preschool child 11. Anthropological status research in children of earl 13. Development of evaluation criteria for motor skill 11. Anthropological status research in children of earl 13. Development of evaluation criteria for motor skill 14. Number of teaching hours - TOTA 15. Development of evaluation criteria for motor skill 16. Number of teaching hours - TOTA 17. Development of evaluation criteria for motor skill 18. Number of teaching hours - TOTA 19. Development of evaluation criteria for motor skill 10. Independent 11. Seminar sand workshops 12. field work Class attendance is mandatory according to Regulations of Studying, which entitles students for a signature to the co Within the exam, students are required to write and prestopic and pass the oral exam. 2 Class attendance 1 Research 2 Experimental work Report 2 Essay Seminar essay 2</td><td>physical conditioning of athletes 9. Valorisation of scientific research in athletics 10. Anthropological status research in preschool children 12. Anthropological status research in children of early school age 13. Development of evaluation criteria for motor skills Image: School status research in children of early school age 13. Development of evaluation criteria for motor skills Image: School status research in children of early school age 13. Development of evaluation criteria for motor skills Image: School status research in children of early school age 13. Development of evaluation criteria for motor skills Image: School scho</td></td<>	9. Valorisation of scientif 10. Anthropological status 11. Anthropological status 12. Anthropological status 13. Development of evalu 13. Development of evalu 13. Development of evalu 14. Anthropological status 13. Development of evalu 14. Anthropological status 13. Development of evalu 14. Anthropological status 13. Development of evalu 13. Development of evalu 14. Anthropological status 15. Seminars and workshops □ exercises □ □ on line in entirely ☑ partial e-learning □ field work Class attendance is mandator Studying, which entitles study Within the exam, students ar Class attendance 1 Experimental work □ Essay □ Tests □ Written exam □ Procedure of evaluation inclue well as preparation and deve □ preparation	physical conditioning of athletes 9. Valorisation of scientific research in 10. Anthropological status research in 11. Anthropological status research in 12. Anthropological status research in 13. Development of evaluation criteria ☑ Interin evaluation criteria ☑ Development of evaluation criteria ☑ Interin entirely ☑ partial e-learning ☐ field work Class attendance is mandatory according to Studying, which entitles students for a sign Within the exam, students are required to topic and pass the oral exam. Class attendance 1 Experimental work Report Essay Seminar essa Tests Oral exam Written exam Project Procedure of evaluation includes student a well as preparation and development of a oral exam. Final grade shall include the following contarion of the seminar essature oral exam. Final grade shall include the seminar essature oral exam. I. Thomas, J.R., Silverman, S., & Ne Research Methods in Physical Action Human kinetics.	physical conditioning of athletes 9. Valorisation of scientific research in atti 10. Anthropological status research in prei 11. Anthropological status research in chil 13. Development of evaluation criteria for 13. Development of evaluation criteria for 14. Anthropological status research in chil 13. Development of evaluation criteria for 14. Mumber of teaching ho 15. exercises 16. nine in entirely 17. partial e-learning 17. field work Class attendance is mandatory according to R Studying, which entitles students for a signatu Within the exam, students are required to writ topic and pass the oral exam. Class attendance 1 Research Experimental work Report Essay Seminar essay Tests Oral exam Written exam Project Procedure of evaluation includes student active well as preparation and development of a sen oral exam – 40% 1. Thomas, J.R., Silverman, S.,	physical conditioning of athletes 9. Valorisation of scientific research in aesthetic sport 10. Anthropological status research in preschool child 11. Anthropological status research in children of earl 13. Development of evaluation criteria for motor skill 11. Anthropological status research in children of earl 13. Development of evaluation criteria for motor skill 14. Number of teaching hours - TOTA 15. Development of evaluation criteria for motor skill 16. Number of teaching hours - TOTA 17. Development of evaluation criteria for motor skill 18. Number of teaching hours - TOTA 19. Development of evaluation criteria for motor skill 10. Independent 11. Seminar sand workshops 12. field work Class attendance is mandatory according to Regulations of Studying, which entitles students for a signature to the co Within the exam, students are required to write and prestopic and pass the oral exam. 2 Class attendance 1 Research 2 Experimental work Report 2 Essay Seminar essay 2	physical conditioning of athletes 9. Valorisation of scientific research in athletics 10. Anthropological status research in preschool children 12. Anthropological status research in children of early school age 13. Development of evaluation criteria for motor skills Image: School status research in children of early school age 13. Development of evaluation criteria for motor skills Image: School status research in children of early school age 13. Development of evaluation criteria for motor skills Image: School status research in children of early school age 13. Development of evaluation criteria for motor skills Image: School scho

	 4. Malina, R.M., Baxter-Jones, A., Armstrong, N., Beunen, G., Caine, D., Daly, R., & Russell, K. (2013). Role of intensive training in the growth and maturation of artistic gymnasts. <i>Sports Medicine, 43,</i> 783-802. * other scientific papers from the relevant databases in kinesiology
Quality assurance	questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of
methods that ensure	Kinesiology, University of Split
the acquisition of exit	
competencies	
Language/s of the	Croatian
course	English

2.2. Elective courses

2.2.1. Semester I

TITLE OF COURSE	MOTOR LEARNING AND MOTOR SKILLS							
Code	MUM	Z	Year of st	Jdy		1	-	
Course teacher/s		ca Miletić, PhD ofessor Tenure	Credit val	ue (ECTS)		3	5	
Associate teachers				n form (number ver semester)	L 10	S	E	F
Course status	elective course Percentage of e-learning 209							<u> </u>
		COURS	E DESCRIP					
Course objectives		quire competencies nece ocess of motor learning.		evelopment and e	evaluatio	n of new	procedu	res in
Course enrolment requirements and entry competencies required for the course		ed by the Regulations on rsity of Split	Postgradu	ate Doctoral Stud	y of the F	aculty of	Kinesiol	Эgy,
Learning outcomes expected at the course level (4 to 10 learning outcomes)	- to - to - to - to sł	 Learning outcomes to analyse approaches to teaching motor skilla to compare different types of research in the area of kinesiology to analyse the feedback on information about motor learning to develop and evaluate measuring instruments for assessment of the level of motor skilla to analyse relevant research from the area of motor learning and motor skills 					otor	
			Con	tent			Numb	
	1.	Phylogenetic and onto Hierarchies and taxonc of motor programme; kinesiology of motor le	omy of the Application	movement; Theor	ries of for	mation	3	
Course content broken down in detail	2.	Analyses of the feedback in motor learning (performance					2	
by weekly class schedule	3.	Kinesiological procedur measuring instruments Analyses of relevant re	s for assess	ment of the level	of moto	r skills;	3	
	 Design of a problem, objective and work methods for a scientific seminar essay in development of new procedures and the process motor learning 					2		
		Numb	er of teach	ing hours - TOTAI	L		10	
Forms of instruction:	☑ lectures ☑ independent assignments ☑ seminars and workshops □ multimedia □ exercises □ laboratory							

Student responsibilities	 □ on line in entirely ☑ partial e-learning □ field work □ Class attendance is mandatory according to Regulations on Study Programmes and Studying, which entitles students for a signature to the course. Within the exam, students are required to write and present a seminar essay on a give 						
responsibilities	topic and pass the oral exam.						
Screening student work (specify the	Class attendance 0.2 Research 0.3 Practical training						
proportion of ECTS	Experimental work	0.5	Report				
credits for each activity so that the	Essay		Seminar essay	/ 1			
total number of ECTS credits is equal to the	Tests		Oral exam	0.5			
ECTS value of the course):	Written exam		Project	0.5			
Grading and evaluating student work in class and at the final exam	 well as preparation and development of a seminary essay, its presentation and the final oral exam. <i>Final grade shall include the following components:</i> preparation and development of a seminar essay – 30% presentation of the seminar essay – 30% oral exam – 40% 						
	-		seminar essay –	- 30%			
Required literature	-			- 30%	Number of copies in the libraries	Availability via other media	
(available in the library and via other	 – oral exam – 1. Coker, C.A 	- 40% Tit	tle Motor Learning		Number of copies in the libraries	-	
(available in the	 – oral exam – 1. Coker, C.A for Practiti 2. Schmidt, 	- 40% Ti , (2013). <i>ioners</i> . H R.A., &	tle	g and Contro 015). Motor	Number of copies in the libraries	-	
(available in the library and via other	 oral exam - Coker, C.A for Practiti Schmidt, Learning a Schmidt, I emphasis. Schmidt, R Kinetics. 	- 40% Tin , (2013). ioners. H R.A., & nd Perfo. R.A., & Human H R.A., & W	tle <i>Motor Learning</i> H Publishers. Lee, T.D. (2 <i>rmace.</i> Human H Lee, T.D. (2009 Kinetics. Vrisberg, C.A. (2010)	g and Contro 015). Motor Kinetics. 5). Motor cc 000). Motor I	Number of copies in the libraries / 1 1 m 1 ontrol and learne	other media ing: a behaviour formance. Human	
(available in the library and via other media) Optional literature Quality assurance	 oral exam - Coker, C.A for Practiti Schmidt, Learning a Schmidt, I emphasis. Schmidt, R Kinetics. other scien questionnaire of the 	- 40% Tit (2013). ioners. H R.A., & nd Perfo R.A., & Human H R.A., & W tific pape	tle Motor Learning H Publishers. Lee, T.D. (2 rmace. Human H Lee, T.D. (2009 Kinetics. Vrisberg, C.A. (2009) ters from the relation tee for Quality A	g and Contro 015). Motor Kinetics. 5). Motor cc 000). Motor l evant databa	Number of copies in the libraries 1 1 1 ontrol and learna learning and perf	other media ing: a behaviour formance. Human	
(available in the library and via other media) Optional literature	 oral exam - Coker, C.A for Practiti Schmidt, Learning a Schmidt, I emphasis. Schmidt, R Kinetics. * other scien 	- 40% Tit (2013). ioners. H R.A., & nd Perfo R.A., & Human H R.A., & W tific pape	tle Motor Learning H Publishers. Lee, T.D. (2 rmace. Human H Lee, T.D. (2009 Kinetics. Vrisberg, C.A. (2009) ters from the relation tee for Quality A	g and Contro 015). Motor Kinetics. 5). Motor cc 000). Motor l evant databa	Number of copies in the libraries 1 1 1 ontrol and learna learning and perf	other media ing: a behaviour formance. Human	
(available in the library and via other media) Optional literature Quality assurance methods that ensure the acquisition of exit	 oral exam - Coker, C.A for Practiti Schmidt, Learning a Schmidt, I emphasis. Schmidt, R Kinetics. other scien questionnaire of the 	- 40% Tit (2013). ioners. H R.A., & nd Perfo R.A., & Human H R.A., & W tific pape	tle Motor Learning H Publishers. Lee, T.D. (2 rmace. Human H Lee, T.D. (2009 Kinetics. Vrisberg, C.A. (2009) ters from the relation tee for Quality A	g and Contro 015). Motor Kinetics. 5). Motor cc 000). Motor l evant databa	Number of copies in the libraries 1 1 1 ontrol and learna learning and perf	other media ing: a behaviour formance. Human	

TITLE OF COURSE	REGULARITIES OF DEVELO	PMENTAL PROCESSES IN KINE	REGULARITIES OF DEVELOPMENTAL PROCESSES IN KINESIOLOGY					
Code	ZRK	Year of study	1					
Course teacher/s	Nebojša Zagorac, PhD Full Professor	Credit value (ECTS)	3					
Associate teachers		Instruction form (number of hours per semester)	L S 10 0	E O	F			
Course status	elective course	%						
	COUR	application RSE DESCRIPTION						
Course objectives		ecessary for understanding and	d analysis of deve	lopmenta	al			
Course enrolment requirements and entry competencies required for the course	defined by the Regulations University of Split	on Postgraduate Doctoral Stuc	ly of the Faculty c	f Kinesio	logy,			
Learning outcomes expected at the course level (4 to 10 learning outcomes)	 to analyse adaptation of to evaluate transforma to evaluate and direct s set transformational go 	 to analyse developmental characteristics in children to analyse adaptation characteristics of children on applied primary stimulus systems to evaluate transformational procedures to evaluate and direct subjects towards activities/programmes according to previously set transformational goals to identify and develop developmental processes in certain areas of applied 						
	-	Content oment trends; intercorrelation osocial factors; environmental		Numb				
	2 Regularities on some	e system elements of human d es, or stages of human develo	-	1	L			
Course content broken down in detail	3 Variability of some e	elements of human developmently dosed kinesiological proces	ent under the	1	L			
by weekly class		es of anthropological developr		1	L			
schedule		process of anthropological de		1				
		omposing features of develop		1	L			
	7. developmental proc	or, physiological and psycholog	gical	1	L			
	Relations of morpho	ological, motor, physiological, c ental processes and kinesiologi	-	2	2			
		mber of teaching hours - TOTA		1	0			
				•				
Forms of instruction:	 ✓ lectures ✓ seminars and workshops □ exercises □ on line in entirely ✓ partial e-learning 	☑ independent a □ multimedia □ laboratory ☑ work with me						
Student	☐ field work Class attendance is mandatory according to Regulations on Study Programmes and Studying, which entitles students for a signature to the course.							

	Within the exam, st topic and pass the o		-	ite and pre	sent a seminar es	ssay on a given
Screening student	Class attendance	0.5	Research	0.5	Practical training	20
work (specify the proportion of ECTS credits for each	Experimental work		Report			
activity so that the	Essay		Seminar essay	1		
total number of ECTS credits is equal to the	Tests		Oral exam	1		
ECTS value of the course):	Written exam		Project			
Grading and evaluating student work in class and at the final exam		and deve clude the on and de on of the	elopment of a ser	ninary essa onents: eminar essa	y, its presentatio	
		Ti	tle		Number of copies in the libraries	Availability via other media
	 Fajgelj, S., Structure of Matrices. of 	of Raven'		moodle.kifst.hr		
Required literature	 Katić, R., B impact of l motoricity Antropol, 3 		moodle.kifst.hr			
(available in the library and via other media)	3. Bala, G., Ja relations b characteris children. C	etween r stics and		moodle.kifst.hr		
	4. Bala, G., & in testing i children. C	Katić, R. ntegrateo		moodle.kifst.hr		
	anthropon cognitive f the time o	· · · · · · · · · · · · · · · · · · ·				
	difference Krajina. <i>Co</i>	s in morp Il Antrop	hological dimens ol, 33 (1), 131-13	ions in twe 8.	-	ren from Imotska
	characteris	stics and		of sprint an	elopment of bior d throw in boys a	
Optional literature	3. Katić, R., R motor and	etelj, E., I specific i	Milat, S., Ivanišev	ić, S., & Gu r athletics i	delj, I. (2008). De n elementary sch -1147.	
	4. Zagorac, N Biomotor (I., Retelj, Character	E., Babić, V., Bavè ristics and Sprint	čević, T., & and Throw	Katić, R. (2008). D Athletic Abilities	-
	 Year-Old Girls. <i>Coll Antropol, 32</i> (3), 843-850. 5. Models of developmental processes in kinesiology – formation of anthropological complexes, Split, 2016. Scientific book. 					

	* other scientific papers from the relevant databases in kinesiology
Quality assurance	questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of
methods that ensure	Kinesiology, University of Split
the acquisition of exit	
competencies	
Language/s of the	Croatian
course	English

TITLE OF COURSE	KINESIOLOGY OF EDUCATIO)N					
Code	KED	Year of study		1			
Course teacher/s	Vladimir Findak, PhD Professor Emeritus	Credit value (ECTS)	3				
Associate teachers		Instruction form (number of hours per semester)	L 10	S 0	E O	F	
Course status	elective course	Percentage of e-learning 20%					
	COUR	SE DESCRIPTION	ļ				
Course objectives		cessary for understanding ont ends and social aspects of kine	-			ell as	
Course enrolment requirements and entry competencies required for the course Learning outcomes	University of Split	n Postgraduate Doctoral Stud			⁻ Kinesiol	эgy,	
expected at the course level (4 to 10 learning outcomes)	 to analyse trends in the to analyse programmes 	area of kinesiology in education in kinesiological education nesiological education in differ	on		;		
		Content					
	1. Theoretical determin	2					
	2. Trends in kinesiology	2					
	3. Relation of kinesiolog Basic determinants o	1					
C	4. process of physical ac youth	1					
Course content broken down in detail by weekly class	5. Kinesiological culture in primary schools and differential programmes						
schedule	6. Kinesiological education i healthcare, free time, sport and preparation for urgent situations						
	 Kinesiological education as an integrative part of the working programme in kindergartens, charity and similar organisations, governmental and non-governmental institutions as well as in private entrepreneurship 						
	8. Role of kinesiologists	in educational system			1		
	Number of teaching hours - TOTAL					D	
Forms of instruction:	 ✓ lectures ✓ seminars and workshops □ exercises □ on line in entirely ✓ partial e-learning □ field work 	 ✓ independent a □ multimedia □ laboratory ✓ work with me 		nts			
Student responsibilities	Class attendance is mandato Studying, which entitles stud	ry according to Regulations of lents for a signature to the course of th	urse.			ven	

Screening student	Class attendance	1	Research		Practical trainin	g					
work (specify the proportion of ECTS	Experimental work		Report								
credits for each	Essay		Seminar essay	1							
activity so that the total number of ECTS	Tests		Oral exam	1							
credits is equal to the	1535			1							
ECTS value of the course):	Written exam		Project								
Grading and evaluating student work in class and at the final exam	well as preparation oral exam. Final grade shall ind – preparatio – presentatio	 al grade shall include the following components: preparation and development of a seminar essay – 40% presentation of the seminar essay – 30% oral exam – 30% 									
Required literature (available in the		Tit			Number of copies in the libraries	Availability via other media					
library and via other media)	Education	ıl researc approach	Christensen, h: quantitative, es (6th ed.). Thc lications.	, qualitative	2 1	moodle.kifst.hr					
Optional literature	 programs: 22-49. 8. Findak, V. (Education, 9. Findak, V. (Journal of I 10. Findak, V. (and health metodika u 450. 11. Findak, V., kinesiologi FIEP Europ Their Empl Faculty of I Education 12. McEvoy, E. teacher ed education, 13. Standal, O. Physical Ed QUEST, 65 * other scient 	Key factor 2016). Kir 18 (Sp.Ed 2011). Kir Education, 2009). Kir educatior predškols Prskalo, I. cal educat ean Congr oyability i Physical Ec and Sports , MacPhai ucators: A 51, 162-1 F., & Moe ucation To (2), 220-2	rs. Journal of Phy nesiology Educat No.1), 279-291 nesiological preve , 13 (4), 71-86. nesiological para n for the 21st ce skom odgoju, šk , & Babin, J. (20 cion of younger ress Physical Edu n Europe" (pp. 5 ducation and Sp s, Federation Inf I, A., & Heikinar 25-year scopin 81. c, V.F. (2013). Re eacher Educatio 40.	ysical Educa tion – Preser vention in th adigm of the ntury. <i>Meto</i> olskoj i visok 07). Models school age p ucation and 531-538). Bra ort, Slovak S ternationale o-Johansson g review of l flective Prace	nt and Future. <i>Cri</i> e field of educati curriculum in the <i>dika, časopis za t</i> <i>coškolskoj izobraz</i> of work and effic upils. Proceeding sport "Teachers' atislava: Comeniu cientific Society f d' Education Phy a, P. (2015). Physi iterature. <i>Teachi</i> ctice in Physical E of the Literature	and Dance, 65 (7), oatian Journal of on. Croatian e field of physical eeoriju i praksu zbi, 10 (2), 438- ciency in gs book of the 4th Preparation and us University, for Physical vsique (FIEP). ical education ng and teacher ducation and Since 1995.					
Quality assurance methods that ensure the acquisition of exit competencies	questionnaire of the Kinesiology, Univers		-	ssurance an	d Improvement o	of the Faculty of					

Language/s of the	Croatian
course	English

TITLE OF COURSE	PHYSICS OF SPORT									
Code	FSK		Year of stud	у		1				
Course teacher/s	Mile Dželalija, PhD Full Professor Tenure	e	Credit value	(ECTS)		3				
Associate teachers			Instruction f of hours per	orm (number semester)	L 10	S O	E O	F		
Course status	elective course			of e-learning	20%					
		COURS	SE DESCRIPTIO	DN						
Course objectives	To acquire competer to create and impler	ncies nec	essary for ana	lyses of physic	-	-		es and		
Course enrolment requirements and entry competencies required for the course	defined by the Regul University of Split	efined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, niversity of Split								
Learning outcomes expected at the course level (4 to 10 learning outcomes)	 to develop mod 	 to apply physical laws on different sports activities to develop models of the selected example of a sports activity and its simulation 								
Course content broken down in detail by weekly class schedule	2.Examples of Examples of activities.3.Examples of activities.4.Physical mode5.Fundamenta6.Visualisation	forces an application dels of sel l of progr of simula and impli	d moment of on of physical lected sports a ramming and ated sports ac ementation of	d thermodyna forces in sport laws on differ activities. performance c	surements	ons.	Numb hou 2 1 1 1 2 1 1 1 2 2 1 0 1 0			
Forms of instruction:	☑ lectures ☑ independent as ☑ seminars and workshops □ multimedia □ exercises □ laboratory □ on line in entirely ☑ work with ment ☑ partial e-learning □ field work					nts				
Student responsibilities	Class attendance is r Studying, which enti Within the exam, stu topic and pass the o	tles stude idents ar	ents for a signate required to v	ature to the co	ourse.	-		ven		
Screening student work (specify the	Class attendance Experimental work	0,5	Research Report	0,5	Practical	training				
proportion of ECTS credits for each	Essay		Seminar essa	ıy 1						
activity so that the	Tests		Oral exam							

credits is equal to the ECTS value of the course):	Written exam	Project	0,5							
Grading and evaluating student work in class and at the final exam	well as preparation oral exam. Final grade shall inc – preparation – presentatic	 rocedure of evaluation includes student activities during classes, extra-curricular work as rell as preparation and development of a seminary essay, its presentation and the final ral exam. inal grade shall include the following components: preparation and development of a seminar essay – 30% presentation of the seminar essay – 30% oral exam – 40% 								
Required literature		Title		Number of copies in the libraries	Availability via other media					
(available in the library and via other	 Dželalija, N Splitu. 	1. (2006). Fizika športa. S		moodle.kifst.hr						
media)	4. McGinnis, P.M. (2013). <i>Biomechanics of Sport</i> and Exercises (3rd ed.). Human Kinetics. moodle.kifst.hr									
Optional literature	ed.). John V	 Nigg, B.M., & Herzog, W. (2007). Biomechanics of the Musculo-skeletal system (3rd ed.). John Wiley & Sons. 								
Quality assurance	•	e Committee for Quality A	ssurance and	l Improvement o	of the Faculty of					
methods that ensure the acquisition of exit competencies	Kinesiology, Univers	ity of Split								
Language/s of the course	Croatian English									

TITLE OF COURSE	ACUTE INJURIES OF SOFT TIS	SUE IN ATHLETES									
Code	AOM	Year of study		1							
Course teacher/s	Ljerka ostojić, PhD Full Professor Tenure Zdenko Ostojić, PhD Full Professor Tenure	Credit value (ECTS)		3							
Associate teachers		Instruction form (nur of hours per semeste		S 0	E O	F					
Course status	elective course Percentage of e-learning 20%										
	COURS	COURSE DESCRIPTION									
Course objectives	To acquire competencies nece soft tissue in athletes.	essary for recognition,	care and preve	ntion of a	acute inju	uries of					
Course enrolment requirements and entry competencies required for the course	defined by the Regulations on University of Split	defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, Jniversity of Split									
Learning outcomes expected at the course level (4 to 10 learning outcomes)	 Learning outcomes to critically evaluate safe to critically read, evaluate apply gained knowledge i to successfully write and of sport injuries of soft tis to compare different type on more quality care of a o understand ethical stan to present a research des as project team member training process and from 	e and organise the exis n practice publish an original scie sue based on persona es of research in sport thletes dards of scientific rese ign in front of the com or a principal investiga	ting literature a entific paper on l, research-base traumatology a earch mittee in the ti tor, to develop	methods d methods and includ me allott	of preve ds le their re ed c research	o ention esults h of a					
		Content			Numb hou	urs					
Course content	1. Sports injuries Causes of pain in a hip 2. developmental diseas area				2						
broken down in detail by weekly class schedule	Acute injuries of hip jo3.femoris; Acute injuriesacute care and prevention	s of the back of hamst tion	rings thigh; De	tection,	2						
	Injuries of knee and sh4. prevention; Cartilage iperspective	•			2						
	Numl	per of teaching hours	TOTAL		10	D					
Forms of instruction:	 ✓ lectures ✓ seminars and workshops □ exercises □ on line in entirely ✓ partial e-learning 	□ multime □ laborate		ents							

	□ field work									
Student responsibilities	Class attendance is mandatory according to Regulations on Study Programmes and Studying, which entitles students for a signature to the course. Within the exam, students are required to write and present a seminar essay on a given copic and pass the oral exam.									
Screening student	Class attendance	0.5	Research	1	Practical training	g				
work (specify the proportion of ECTS	Experimental wor	< 1	Report							
credits for each activity so that the	Essay		Seminar essay	1						
total number of ECTS	Tests		Oral exam	0.5						
credits is equal to the ECTS value of the course):	Written exam		Project							
Grading and evaluating student work in class and at the final exam	well as preparatio oral exam. Final grade shall i – preparati – presenta	 becedure of evaluation includes student activities during classes, extra-curricular work as a preparation and development of a seminary essay, its presentation and the final al exam. becedure shall include the following components: preparation and development of a seminar essay – 30% presentation of the seminar essay – 30% oral exam – 40% 								
Required literature		Tit	Number of copies in the libraries	Availability via other media						
(available in the library and via other media)	 Schwellnus, M.P. (Ed.). (2009). The Encyclopaedia of Sports Medicine: An IOC Medical Commission Publication, The Olympic Textbook of Medicine in Sport (Vol. 14). John Wiley & Sons. 									
Optional literature	treatmen 269. 2. Cotorro, a screening 582-582. 3. Ganz, R., Femoroad <i>orthopae</i> 4. Menge, T after hip players. 7 5. Kerkhoffs C.N. (201 <i>Surgery</i> , 5 6. McSweer (2012). H <i>Radiologi</i> 7. Kary, J.M contusior 8. Brittberg,	t. Journal c A.R., Philip in elite yo Parvizi, J., I cetabular in dics and re J., Briggs, arthroscop The America , G.M., van 3). Diagnos Sports Trau iey, S.E., Na ip and groi sts Journal (2010). Di ns. Current M., Imhof	of the American A pon, M., Briggs, k uth tennis player Beck, M., Leunig, mpingement: a c lated research, 4 K.K., & Philippon y for femoroacet an journal of spon Es, N., Wieldraa is and prognosis matology, Arthro araghi, A., Salone n pain in the pro , 63 (2), 87-99. agnosis and man reviews in muscu	Academy of Academy of C., Boykin, F rs. British jc M., Nötzli, ause for os 17, 112-12 , M.J. (2016 cabular imp rts medicin ijer, T., Sien of acute ha oscopy, 21 en, D., Theo fessional at agement o uloskeletal & Mandelb	5). Predictors of le ingement in profe <i>e, 44</i> (9), 2286-22 revelt, I.N., Ekstran amstring injuries in	eons, 7 (4), 262- D. (2014). Hip edicine, 48 (7), K.A. (2003). hip. <i>Clinical</i> ngth of career essional hockey 91. nd, J., & van Dijk, n athletes. <i>Knee</i> White, L.M. <i>issociation of</i> ns and 26-31.				

	 10. Engebretsen, L., Soligard, T., Steffen, K., Alonso, J.M., Aubry, M., Budgett, R., & Palmer-Green, D. (2013). Sports injuries and illnesses during the London Summer Olympic Games 2012. <i>British journal of sports medicine</i>, <i>47</i> (7), 407-414. * other scientific papers from the relevant databases in kinesiology
Quality assurance	questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of
methods that ensure	Kinesiology, University of Split
the acquisition of exit	
competencies	
Language/s of the	Croatian
course	English

TITLE OF COURSE	APPL	IED MEDICINE IN KINESI	IOLOGY AND	SPORT					
Code	PMKS		Year of stud	of study 1					
Course teacher/s	Ivanče	ant Professor Vladimir ev, PhD ant Professor Tomislav 5, PhD	Credit value	e (ECTS)	3				
Associate teachers			Instruction of hours per	form (number r semester)	L S E 10 0				
Course status	electiv	ve course	Percentage of e-learning 20%						
		COURS	E DESCRIPTIO	ON	-				
Course objectives		quire competencies nece disciplinary team of heal	-	-		-	esearch		
Course enrolment requirements and entry competencies required for the course		fined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, niversity of Split							
Learning outcomes expected at the course level (4 to 10 learning outcomes)	- tc sc - tc pa - tc pa - tc sa	 to develop a research project with multidisciplinary medical/kinesiological participation to understand fundamental ethical standards of research with man at its centre 							
			Conte	ent			Numbe hour	-	
	1.	Current medical areas syndrome	of interest in	contemporary	sport – o	vertrain	2		
Course content	2.	Physical health of athle	etes				2		
broken down in detail by weekly class	3.	Acute medical areas of specialisation of childre		ontemporary sp	ort – ear	ly	2		
schedule	4.	Acute medical areas of weight manipulation	f interest in c	ontemporary sp	ort – boo	ły	2		
	5.	Student presentation of selected topics upon an insight in contemporary scientific literature					2		
		concemporary selentin	ic illerature						
				ng hours - TOTAI			10		
				ng hours - TOTAI	-		10		
Forms of instruction:	☑ lect ☑ sen □ exe □ on I ☑ par	Numb tures ninars and workshops	er of teachin	g hours - TOTAI ☑ independent a ☑ multimedia ☑ laboratory ☑ work with me	assignme	nts	10		

	Within the exam, stu topic and pass the o		e required to wri	ite and pres	ent a seminar es	say on a given			
Screening student work <i>(specify the</i>	Class attendance	1	Research	0.5	Practical trainin	g			
proportion of ECTS	Experimental work		Report						
credits for each activity so that the	Essay		Seminar essay	0.5					
total number of ECTS credits is equal to the	Tests		Oral exam	0.5					
ECTS value of the course):	Written exam		Project	0.5					
Grading and evaluating student work in class and at the final exam	well as preparation a oral exam. <i>Final grade shall inc</i> – preparation – presentatio	 al grade shall include the following components: preparation and development of a seminar essay – 35% presentation of the seminar essay – 35% oral exam – 30% 							
Required literature		Tit	le	Number of copies in the libraries	Availability via other media				
(available in the library and via other media)	 Heimer, S., Čajavec, R., et al. (2006). <i>Medicina</i> sporta. Zagreb: Kineziološi fakultet Sveučilišta u Zagrebu. Wilmore, Costill, Kenney (2008). <i>Physiology of</i> 								
Optional literature	 Pećina, M., Sindromi pr Mueller-Wo McNally, S., injuries in s bjsports-20 Brenner, J.S adolescent Reardon, C. 961-980. Medicinski 	 Sport and Exercise (4th ed.). Human Kinetics. Pećina, M., Bojanić, I., Dubravčić Šimunjak, S., Janković, S., & Ribarić, G. (1992 Sindromi prenaprezanja sustava za kretanje. Zagreb: Globus. Mueller-Wohlfahrt, H.W., Haensel, L., Mithoefer, K., Ekstrand, J., English, B., McNally, S., & Blottner, D. (2012). Terminology and classification of muscle injuries in sport: a consensus statement. <i>British journal of sports medicine</i>, bjsports-2012. Brenner, J.S. (2007). Overuse injuries, overtraining, and burnout in child and adolescent athletes. <i>Pediatrics</i>, 119 (6), 1242-1245. Reardon, C.L., & Factor, R.M. (2010). Sport psychiatry. <i>Sports Medicine</i>, 40 (1: 961-980. Medicinski kodeks olimpijskog pokreta, Lausanne 2009. 							
Quality assurance methods that ensure the acquisition of exit competencies	questionnaire of the Kinesiology, Univers		-	ssurance and	d Improvement o	of the Faculty of			
Language/s of the course	Croatian English								

TITLE OF COURSE	MATE	RIX ALGEBRA OF MU	ILTIVARIAT	E STATISTICAL N	NETHOD	S			
Code	MMSN	1	Year of stu	ıdy	1				
Course teacher/s	-	aska, PhD nt Professor	Credit valu	ie (ECTS)					
Associate teachers				n form (number er semester)	L 10	S	E O	F	
Course status	elective	e course	Percentag applicatio	e of e-learning 1	20%				
		COUR	SE DESCRIPT						
Course objectives	-	uire competencies nec ures for processes of r	-	-	ndament	al metho	dological		
Course enrolment requirements and entry competencies required for the course		efined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, niversity of Split							
Learning outcomes expected at the course level (4 to 10 learning outcomes)	 to frc to to to kir to 	to critically assess a possibility of application of linear algebra techniques in research from the area of kinesiology to develop and calculate individually elementary matrices notations to apply adequate matrix methods during the process of multivariate analyses to compare different linear algebra approaches in research from the area of kinesiology to develop a research design in matrix models and methods to present a research design in front of a committee in the time allotted							
		Content					Numb		
	1.	Necessity of knowing Matrix vs. scalar algeb	-	ora in kinesiologio	al resear	ch,	2		
Course content	2.	Addition, subtraction, of a matrix by a numb	, multiplicat	on, exponentiatio	on, multij	olication	2		
broken down in detail by weekly class	3.	Functions with matric transposition.	ces: trace, de	eterminant, range	, inverse	,	2		
schedule	4.	Matrix equation, Eige	envalues and	eigenvectors.			2		
	5.	Application of matrix scalar formulas in ma	trix algebra				2		
		matrix notations in so		ing hours - TOTA	•		10		
		Num		ing nours - TOTA	L			,	
Forms of instruction:	☑ sem □ exer □ <i>on li</i>	☑ lectures ☑ independent assignments ☑ seminars and workshops □ multimedia □ exercises □ laboratory □ on line in entirely ☑ work with mentor ☑ partial e-learning ☑							
Student responsibilities	Class a Studyir Within	ttendance is mandator ng, which entitles stude the exam, students ar nd pass the oral exam.	ents for a sig	nature to the cou	irse.			'en	

Screening student work (specify the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course):	Class attendance	0.5	Research	0.5	Practical training					
				0.5		5				
	Experimental work	0.5	Report							
	Essay		Seminar essay	0.5						
	Tests		Oral exam	0.5						
	Written exam		Project	0.5						
Grading and evaluating student work in class and at the final exam	 Procedure of evaluation includes student activities during classes, extra-curricular work as well as preparation and development of a seminary essay, its presentation and the final oral exam. Final grade shall include the following components: preparation and development of a seminar essay – 30% presentation of the seminar essay – 30% oral exam – 40% 									
Required literature (available in the	Title				Number of	Availability via				
(available in the		Tit	le		copies in the libraries	other media				
-		2006). Kv	le vantitativne mete Sveučilišta u Zag	-	libraries	-				
(available in the library and via other	Kineziološk 1. Bronson, R. McGraw-Hi 2. Horvatić, K. 3. Kovačić, Z.J fakultet. 4. Lattin, J., Do Thomson Lo	2006). <i>Kw</i> i fakultet D. (1989) Il Book Co (2004). <i>L</i> . (1994). <i>I</i> ouglas, C. earning.	vantitativne meta Sveučilišta u Zag Matrix Operati Ompany. inearna algebra Multivariaciona , & Green, P. (20	grebu ons, Schaum . Zagreb: Go analiza. Univ 103). Analyzi	libraries 1 n's Outline Series.	other media New York: du: Ekonomski bata.				
(available in the library and via other media)	Kineziološk 1. Bronson, R. McGraw-Hi 2. Horvatić, K. 3. Kovačić, Z.J fakultet. 4. Lattin, J., Do Thomson Lo	2006). <i>Kv</i> i fakultet D. (1989) Il Book Co (2004). <i>L</i> (2004). <i>I</i> . (1994). <i>I</i> ouglas, C. earning. tific pape	vantitativne meta Sveučilišta u Zag Matrix Operati ompany. inearna algebra Multivariaciona , & Green, P. (20 ers from the rele	grebu ons, Schaum . Zagreb: Go analiza. Univ 003). Analyzi vant databa	libraries 1 1 Iden Marketing. Verzitet u Beogra ng Multivariate D	other media New York: du: Ekonomski vata.				
(available in the library and via other media) Optional literature	Kineziološk 1. Bronson, R. McGraw-Hi 2. Horvatić, K. 3. Kovačić, Z.J fakultet. 4. Lattin, J., Do Thomson Lo * other scien	2006). <i>Kv</i> i fakultet D. (1989) Il Book Cc (2004). <i>L</i> . (1994). <i>I</i> ouglas, C. earning. tific pape	vantitativne meta Sveučilišta u Zag . Matrix Operati ompany. .inearna algebra Multivariaciona , & Green, P. (20 ers from the rele	grebu ons, Schaum . Zagreb: Go analiza. Univ 003). Analyzi vant databa	libraries 1 1 Iden Marketing. Verzitet u Beogra ng Multivariate D	other media New York: du: Ekonomski vata.				
(available in the library and via other media) Optional literature Quality assurance methods that ensure the acquisition of exit	Kineziološk 1. Bronson, R. McGraw-Hi 2. Horvatić, K. 3. Kovačić, Z.J fakultet. 4. Lattin, J., Du Thomson Lu * other scien questionnaire of the	2006). <i>Kv</i> i fakultet D. (1989) Il Book Cc (2004). <i>L</i> . (1994). <i>I</i> ouglas, C. earning. tific pape	vantitativne meta Sveučilišta u Zag . Matrix Operati ompany. .inearna algebra Multivariaciona , & Green, P. (20 ers from the rele	grebu ons, Schaum . Zagreb: Go analiza. Univ 003). Analyzi vant databa	libraries 1 1 Iden Marketing. Verzitet u Beogra ng Multivariate D	other media New York: du: Ekonomski vata.				
(available in the library and via other media) Optional literature Quality assurance methods that ensure the acquisition of exit competencies	Kineziološk 1. Bronson, R. McGraw-Hi 2. Horvatić, K. 3. Kovačić, Z.J fakultet. 4. Lattin, J., Do Thomson Lo * other scien questionnaire of the Kinesiology, Univers	2006). <i>Kv</i> i fakultet D. (1989) Il Book Cc (2004). <i>L</i> . (1994). <i>I</i> ouglas, C. earning. tific pape	vantitativne meta Sveučilišta u Zag . Matrix Operati ompany. .inearna algebra Multivariaciona , & Green, P. (20 ers from the rele	grebu ons, Schaum . Zagreb: Go analiza. Univ 003). Analyzi vant databa	libraries 1 1 Iden Marketing. Verzitet u Beogra ng Multivariate D	other media New York: du: Ekonomski vata.				
(available in the library and via other media) Optional literature Quality assurance methods that ensure the acquisition of exit	Kineziološk 1. Bronson, R. McGraw-Hi 2. Horvatić, K. 3. Kovačić, Z.J fakultet. 4. Lattin, J., Du Thomson Lu * other scien questionnaire of the	2006). <i>Kv</i> i fakultet D. (1989) Il Book Cc (2004). <i>L</i> . (1994). <i>I</i> ouglas, C. earning. tific pape	vantitativne meta Sveučilišta u Zag . Matrix Operati ompany. .inearna algebra Multivariaciona , & Green, P. (20 ers from the rele	grebu ons, Schaum . Zagreb: Go analiza. Univ 003). Analyzi vant databa	libraries 1 1 Iden Marketing. Verzitet u Beogra ng Multivariate D	other media New York: du: Ekonomski vata.				
TITLE OF COURSE	PLANNING AND W	RITING A	RESEARCH PA	PER						
--	--	--	--	---	-------------------	-----------	---	---------	--	--
Code	PPZR		Year of stud	у		1				
Course teacher/s	Matko Marušić, PhD Full Professor Tenur		Credit value	(ECTS)		3				
Associate teachers			Instruction f of hours per	orm (number semester)	L 10	S	E	F		
Course status	elective course		Percentage application	of e-learning		209	%			
	L	COUR	SE DESCRIPTIO	DN						
Course objectives	To acquire compete in the area of kinesio		essary for writ	ing a research	ı plan and	writing a	research	n paper		
Course enrolment requirements and entry competencies required for the course	defined by the Regu University of Split	lations or	n Postgraduate	e Doctoral Stu	dy of the F	aculty of	Kinesiol	ogy,		
Learning outcomes expected at the course level (4 to 10 learning outcomes)	 to choose an ad to define streng to develop a res to apply critical 	- to choose a type of research according to the (individual) hypothesis								
Course content broken down in detail by weekly class schedule	 Research da Writing a res 	earch stu tabases a search pa tting and	Conto irst died, sample a ind research p per, systemat formatting (20 ber of teachin	ind outcome r aper organisat ic reviewing, S) points)	tion TROBE, CC		Numb hou 22 22 22 22 22 22 20 20 20 20 20 20 20			
Forms of instruction:	□ exercises	☑ seminars and workshops □ multimedia □ exercises □ laboratory □ on line in entirely ☑ work with me ☑ partial e-learning □								
Student responsibilities	Class attendance is r Studying, which enti Within the exam, stu topic and pass the o	itles stude udents ar	ents for a sign re required to	ature to the co	ourse.	-		/en		
Screening student	Class attendance	0.5	Research		Practical	training				
			<u> </u>			5				
work (specify the proportion of ECTS	Experimental work		Report							
work (specify the	Experimental work Essay		Report Seminar essa	iy 0,5						

credits is equal to the ECTS value of the course):	Written exam	1	Project								
Grading and evaluating student work in class and at the final exam	well as preparation oral exam. Final grade shall inc – preparation – presentation – written examples	 al grade shall include the following components: preparation and development of a seminar essay – 20% presentation of the seminar essay – 20% written exam – 30% oral exam – 30% 									
Required literature (available in the	Title Number of copies in the libraries Other media										
library and via other media)			2013). Uvod u zn ed.). Zagreb:								
Optional literature			ture classes (mo rs from the rele). Ises in kinesiolog	v					
Quality assurance methods that ensure the acquisition of exit competencies	questionnaire of the Kinesiology, Univers		•	ssurance and	d Improvement o	f the Faculty of					
Language/s of the course	Croatian English										

2.2.2. Semester II

TITLE OF COURSE	KINESIOLOGICAL A	ND ANTH	ROPOLOGICAL	ANALYSES O	F COMBAT		5			
Code	КААВ		Year of study			1				
Course teacher/s	Saša Krstulović, PhD Full Professor Hrvoje Karninčić, Phl Assistant Professor		Credit value (I	ECTS)		4				
Associate teachers			Instruction for of hours per s		L 10	S 0	E O	F		
Course status	elective course		Percentage of application	e-learning		20	%			
		COURS	SE DESCRIPTION	I						
Course objectives		improve knowledge on development, implementation and presentation of research ults in the area of combat sports.								
Course enrolment requirements and entry competencies required for the course	defined by the Regul University of Split	fined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, iversity of Split								
Learning outcomes expected at the course level (4 to 10 learning outcomes)	 to apply adequa to develop expe 	 to evaluate critically research int he area of combat sports to apply adequate statistical methods int he area of combat sports to develop experimental procedures in the area of combat sports 								
	Content									
	Ganaral intr	oduction			h in the are	op of	Numb hou			
Course content	1. General intro combat spor		Conten to characteristic		h in the are	ea of		ırs		
broken down in detail	1.combat spor2.Review of pr	rts revious re	to characteristic	cs of researc	h in the are	ea of	hou 4	irs		
	1.combat spor2.Review of pr3.Specific mea	rts revious re isuring ins	to characteristic search in comb struments in co	cs of research at sports mbat sports		ea of	hou 4 2 2	irs		
broken down in detail by weekly class	1.combat spor2.Review of pr3.Specific mea	rts revious re isuring ins ew of scier	to characteristic search in comb struments in con ntific research in	at sports mbat sports combat sports	orts	ea of	hou 4 2 2 2 2	Irs		
broken down in detail by weekly class	1.combat spor2.Review of pr3.Specific mea	rts revious re isuring ins ew of scier	to characteristic search in comb struments in co	at sports mbat sports combat sports	orts	ea of	hou 4 2 2	Irs		
broken down in detail by weekly class	1.combat spor2.Review of pr3.Specific mea	rts revious re isuring ins tw of scier Num rkshops	to characteristic search in comb struments in con ntific research in ber of teaching	at sports mbat sports combat sports	orts AL : assignmer		hou 4 2 2 2 2	Irs		
broken down in detail by weekly class schedule	1. combat spor 2. Review of pr 3. Specific mea 4. Critical revie ☑ Iectures ☑ seminars and wor □ exercises □ on line in entirely ☑ partial e-learning	rts revious re isuring ins w of scien Num rkshops rkshops	to characteristic search in combi- struments in con- ntific research in ber of teaching	at sports mbat sports n combat sport hours - TOT independent multimedia laboratory work with m Regulations of ure to the co	orts AL assignmer entor on Study Pr ourse.	ogramm	hou 4 2 2 2 10))		
broken down in detail by weekly class schedule Forms of instruction: Student	1. combat spor 2. Review of pr 3. Specific mea 4. Critical revie ☑ Iectures ☑ seminars and wor □ exercises □ on line in entirely ☑ partial e-learning □ field work Class attendance is r Studying, which enti Within the exam, stu Studying, the entivel	rts revious re isuring ins w of scien Num rkshops rkshops	to characteristic search in combi- struments in con- ntific research in ber of teaching	at sports mbat sports n combat sport hours - TOT independent multimedia laboratory work with m Regulations of ure to the co	orts AL assignmer entor on Study Pr ourse.	ogramm nar essay	hou 4 2 2 2 10))		

credits for each	Essay		Seminar essay	1							
activity so that the			-	0.5							
total number of ECTS credits is equal to the	Tests		Oral exam	0.5							
ECTS value of the course):	Written exam		Project								
Grading and evaluating student work in class and at the final exam	well as preparation a oral exam. <i>Final grade shall inc</i> – preparation – presentatio	 I grade shall include the following components: preparation and development of a seminar essay – 30% presentation of the seminar essay – 30% oral exam – 40% Number of Availability via									
Required literature		Tit	Number of copies in the libraries	Availability via other media							
(available in the library and via other	6. Drid, P. (20 <i>sports</i> . Nov		1								
media)	7. Power poin	t present		moodle.kifst.hr							
Optional literature	medicine. S	 15. Kordi, R., Maffulli, N., Wroble, R.R., & Wallace, W.A. (2009). Combat sports medicine. Springer. * other scientific papers from the relevant databases in kinesiology 									
Quality assurance methods that ensure the acquisition of exit competencies	questionnaire of the Kinesiology, Universi		-	ssurance and	Improvement o	of the Faculty of					
Language/s of the	Croatian										
course	Englich	glish									

TITLE OF COURSE	LINEAR ALGEBRA							
Code	LAG		Year of stud	dy		1		
Course teacher/s	Damir Vukičević, Phl Full Professor	D	Credit value	-		4		
Associate teachers				form (number r semester)	L 10	S O	E O	F
Course status	elective course		Percentage application	of e-learning		20	%	
	Ļ	COURS	SE DESCRIPTI	ON	-			
Course objectives	To acquire competer and their applicatior		essary for sol	ving basic math	iematic pr	oblems i	n linear a	lgebra
Course enrolment requirements and entry competencies required for the course	defined by the Regu University of Split	lations or	n Postgraduat	e Doctoral Stud	dy of the F	aculty of	Kinesiolo	ogy,
Learning outcomes expected at the course level (4 to 10 learning outcomes)	 to solve indeper to apply algebra 	to understand more simple algorithms for solving more simple algebra problems to solve independently more simple algebra problems to apply algebraic methods on certain life problems to understand a read article on more simple algebraic methods						
Course content broken down in detail by weekly class schedule	1. of groups, Ri 2. Vector space 3. General lines operator Diagonalisat 4. Cramer's and	Content1.Basic terminology of mathematical logics, Groups, Homomorphism of groups, Rings, Fields, Homeomorphisms and fields2.Vector space, Basis and rank of vector space, Homeomorphisms of vector space, Applications, Linear operators, Matrices3.General linear group, Rank, Determinants, Eigenvalues of a linear operatorDiagonalisation, Systems of linear equations, Solution existence,						ber of Irs
Forms of instruction:	☑ lectures ☑ independent assign ☑ seminars and workshops □ multimedia □ exercises □ laboratory □ on line in entirely ☑ work with mentor ☑ partial e-learning □ field work				-	-		
Student responsibilities	Class attendance is r Studying, which enti Within the exam, stu topic and pass the o	itles stude udents are	ents for a sigr e required to	nature to the co	urse.	-		ren
Screening student	Class attendance	0.3	Research		Practical	training		
work (specify the proportion of ECTS credits for each	Experimental work		Report		Individua learning	I	3	
activity so that the	Essay	1	Seminar ess	21/				

total number of ECTS credits is equal to the	Tests		Oral exam	0.7							
ECTS value of the course):	Written exam		Project								
Grading and evaluating student work in class and at the final exam	well as preparation a oral exam. Final grade shall inc – preparation – presentatio	grade shall include the following components: preparation and development of a seminar essay – 30% presentation of the seminar essay – 30% oral exam – 40% Number of									
Required literature (available in the		Tit	Number of copies in the libraries	Availability via other media							
library and via other	 Horvatić, K Zagreb: PM 	• •									
media)	2. Strang, G. (
		-	Cambridge Press		, , ,						
Optional literature	Zagreb: PM 2. Elezović, N. 3. Elezović, N. Element. 4. Kurepa, S. (Liber. 5. Proskurjako * other scient	 Elezović, N., & Aglić, A. (2001). <i>Linearna algebra: zbirka zadataka</i>. Zagreb: Element. Kurepa, S. (1992). <i>Konačno dimenzionalni vektorski prostori i primjene</i>. Zagreb: Liber. Proskurjakov, I.V. (1978). <i>Problems in linear algebra</i>. Moscow: MIR Publishers. 									
Quality assurance methods that ensure the acquisition of exit competencies	questionnaire of the Kinesiology, Univers			ssurance and	Improvement o	of the Faculty of					
Language/s of the course	Croatian English										

TITLE OF COURSE	RESEARCH IN KINES	SIOLOGIC	AL EDUCATIO	N								
Code	IKE		Year of stud	/		1						
Course teacher/s	Tonči Bavčević, PhD Associate Professor		Credit value	(ECTS)		4						
Associate teachers			Instruction f of hours per	orm (number semester)	L 10	S 0	E O	F				
Course status	elective course		Percentage of application	of e-learning		209	%					
	<u>.</u>	COURS	SE DESCRIPTIO	N	_ <u>+</u>							
Course objectives	To train students to scientific research fr					nd imple	ementatio	on of				
Course enrolment requirements and entry competencies required for the course	defined by the Regu University of Split	Ilations or	n Postgraduate	e Doctoral Stu	dy of the Fa	culty of	Kinesiol	ogy,				
Learning outcomes expected at the course level (4 to 10 learning outcomes)	 to analyse reseated to understand et to develop a reseated to implement reseated 	arning outcomes to analyse research directions in kinesiological education to analyse research methods in kinesiological education to understand ethical principles of research in the area of kinesiological education to develop a research design in the area of kinesiological education to implement research in the area of kinesiological education to develop individually a scientific article from the area of kinesiological education										
Course content broken down in detail by weekly class schedule	2.Method of s specificities3.Ethical princ4.Research place	cientific r of researd ciples in th an and im nt and pre	Contro h kinesiologica esearch in kin ch area ne area of kine plementation esentation of s ber of teachin	l education esiological edu siological edu in kinesiologic cientific articl	cation cal educatio e	n	Numb hou 2 2 2 2 2 2 2 2 2 2 1 0					
Forms of instruction:	☑ lectures ☑ independent assignments ☑ seminars and workshops □ multimedia □ exercises □ laboratory □ on line in entirely ☑ work with mentor ☑ partial e-learning □					ts						
Student	☐ field work Class attendance is mandatory according to Regulations on Study Programmes and Studying, which entitles students for a signature to the course. Within the exam, students are required to write and present a seminar essay on a given											
responsibilities	topic and pass the o	nai exain.										
responsibilities Screening student work (specify the proportion of ECTS	topic and pass the o			1	Practical t	raining						
responsibilities Screening student work (specify the	topic and pass the o Class attendance		Research		Practical t	raining						

credits is equal to the ECTS value of the course):	Written exam		Project									
Grading and evaluating student work in class and at the final exam	well as preparation oral exam. Final grade shall ind – preparation – presentation	 al grade shall include the following components: preparation and development of a seminar essay – 30% presentation of the seminar essay – 30% oral exam – 40% Number of Availability via										
Required literature (available in the		Tit	le		Number of copies in the libraries	Availability via other media						
library and via other media)		2 1	moodle.kifst.hr									
Optional literature	programma pupils ageo 17. Bavčević, T Systematis 1201-1233 18. Findak, V. (<i>Education</i> , 19. Hastie, P.A Education: 103-132. 20. Lee, A.M., <i>Research q</i> 21. Tant, M, & inclusion in <i>research re</i>	 and mixed approaches (6th ed.). Thousand Oaks, California: SAGE Publications. 16. Babin, J., Bavčević, T. & Prskalo, I. (2010). Comparative analysis of the specially programmed kinesiological activity on motor area structural changes of male pupils aged 6 to 8. Odgojne znanosti, 12 (1), 79-96. 17. Bavčević, T. (2016). Interpersonal Communication in Education – Analysis and Systematisation of Research Directions. Croatian Journal of Education, 18 (4), 1201-1233. 18. Findak, V. (2016). Kinesiology Education – Present and Future. Croatian Journal of Education, 18 (Sp.Ed.No.1), 279-291. 19. Hastie, P.A., de Ojeda, D.M., & Luquin, A.C. (2011). A review of research on Sport Education: 2004 to the present. Physical education and sport pedagogy, 16 (2), 103-132. 20. Lee, A.M., & Solmon, M.A. (2005). Pedagogy research through the years in RQES. Research quarterly for exercise and sport, 76 (2),108-121. 21. Tant, M, & Watelain, E., (2016). Forty years later, a systematic literature review on inclusion in physical education (1975-2015): A teacher perspective. Educational research review, 19, 1-17. * other scientific papers from the relevant databases in kinesiology 										
Quality assurance methods that ensure	questionnaire of the Kinesiology, Univers			ssurance an	d Improvement	of the Faculty of						
the acquisition of exit competencies	initial and a second seco		·									
Language/s of the course	Croatian English											

	EVALUATION IN KINESI	OLOGICAL EDUC	ATION								
Code	VKED	Year of st			1						
Course teacher/s	Josip Babin, PhD Full Professor Tenure Assistant Professor Lidija Vlahović, PhD	a Credit val	ue (ECTS)		4						
Associate teachers			n form (number per semester)	L 10	S 0	E O	F				
Course status	elective course	Percentag applicatio	ge of e-learning		209	%	1				
	C	OURSE DESCRIP									
Course objectives	To acquire competencies and evaluation in kinesic	-	-	d implementa	ation o	of monito	oring				
Course enrolment requirements and entry competencies required for the course	defined by the Regulatio University of Split										
Learning outcomes expected at the course level (4 to 10 learning outcomes)	 to define theoretica to differentiate met to apply methods of 	 to differentiate methods of evaluation in kinesiological education to apply methods of evaluation on the area of physical education to use scientific knowledge for application in the process of implementation of physic 									
		Co	ntent			Numb					
	1. Theoretical guide			ical educatio	n		urs				
Course content	2 Methods of evalu	elines for evalua	tion in kinesiolog			hou	urs }				
broken down in detail by weekly class	Methods of evalu	elines for evalua uation of progra tendencies for k	tion in kinesiolog mme contents in inesiological actir	kinesiologica	al	hou 3	urs 3				
broken down in detail	2. Methods of evalued education 3. New evaluation children, schoold 4. Evaluation of kin and similar organ	elines for evalua uation of progra tendencies for k children and stuc iesiological activi nisations	tion in kinesiolog mme contents in inesiological activ lents ities in child, spor	kinesiologica vities of prese t, humanitar	al chool	hot 3 2 3 2 3 2 3 2 3 2	urs 3 2 3				
broken down in detail by weekly class	2. Methods of evalued education 3. New evaluation children, schoold 4. Evaluation of kin and similar organ	elines for evalua uation of progra tendencies for k children and stuc iesiological activi nisations	tion in kinesiolog mme contents in inesiological activ lents	kinesiologica vities of prese t, humanitar	al chool	hoi 3 2 3 3	urs 3 2 3				
broken down in detail by weekly class	2. Methods of evalued education 3. New evaluation children, schoold 4. Evaluation of kin and similar organ ☑ lectures ☑ seminars and workshot □ exercises □ on line in entirely ☑ partial e-learning	elines for evalua uation of progra tendencies for k children and stuc resiological activi nisations Number of teac	tion in kinesiolog mme contents in inesiological activ lents ities in child, spor	kinesiologica vities of prese t, humanitar AL assignments	al chool ian	hot 3 2 3 2 3 2 3 2 3 2	urs 3 2 3				
broken down in detail by weekly class schedule	2. Methods of evalued education 3. New evaluation children, schoold 4. Evaluation of kin and similar organ ☑ lectures ☑ seminars and workshot □ exercises □ on line in entirely	elines for evalua uation of progra tendencies for k children and stuc resiological activi nisations Number of teac ops datory according students for a si nts are required t	tion in kinesiolog mme contents in inesiological acti- lents ities in child, spor hing hours - TOT, independent multimedia laboratory work with me s to Regulations c gnature to the co	kinesiologica vities of prese t, humanitar AL assignments entor on Study Prog urse.	al chool ian	hou 3 2 3 2 3 2 10 10	urs 3 2 3 2 3 0				

Screening student work (specify the	Experimental work		Report									
proportion of ECTS	Essay		Seminar essay	1								
credits for each activity so that the	Tests		Oral exam	1								
total number of ECTS credits is equal to the ECTS value of the course):	Written exam		Project									
Grading and evaluating student work in class and at the final exam	oral exam. <i>Final grade shall inc.</i> – preparation – presentatio	as preparation and development of a seminary essay, its presentation and the final exam. <i>I grade shall include the following components:</i> - preparation and development of a seminar essay – 40% - presentation of the seminar essay – 30% - oral exam – 30% Number of Conjes in the Availability via										
Required literature		Tit	le		Number of copies in the libraries	Availability via other media						
(available in the library and via other media)	9. Johnson, R.B., & Christensen, L.B (2016). <i>Educational research: quantitative, qualitative</i> <i>and mixed approaches</i> (6th ed.). Thousand Oaks, California: SAGE Publications.											
Optional literature	 22-49. 23. Babin, J., Ka physical and children. Co 24. Babin, B., Ba Motor Skills 25. Bavčević, T. an optimizin 26. Delija, K., & predškolske 27. Dizdar, D. (2 28. Findak, V. (2 <i>tjelesne i zd</i> 29. Gallahue, L. <i>children.</i> Ch 30. Sanders, S. ' Human Kine 31. Venetsanou preschooler 327. 32. Vlahović, L., 2002 sampl 987992. 33. Vlahović, L., Parameters V. Šimović (<i>Kinesiologic</i> 	Key factor atić, R., Ro d health e avčević, T in 11 Ye , Babin, J ng factor Horvat, Y dobi. No 2006). Kv 2003). Mo bravstveno . D., & Do ampaign W. (1992 etics. I, F., & Ka rs' motor , Bavčević es of sević es of sević etics. , Babin, J. of Distril Ed.), Con cal Educat : ECNSI –	rs. Journal of Phy opac, D., & Bona education on the Antropologicum, T., & Vlahović, L. ar old Pupils. Cr ., & Prskalo, I. (2 in Physical educ V. (2001). Utvrđi apredak, 142 (1), antitativne meto etodika tjelesne e kulture. Zagrek onnely, F. (2003) , IL: Human Kine .). Designing Pres ambas, A. (2009) development. E ć, T., & Katić, R. (en-year-old chilo . & Bavčević, T. (bution of Some I ference Proceed tion in Pre-Schoo	vsical Educat cin, D. (2001 e motor fitne 25 (1), 153- (2013). Rela oatian Journ 006). Compl ation instruct vanje antrop 102-108. ode. Zagreb: i zdravstveno 5: Školska kn Developme tics. school Move itics. school Move 2007). Biom dren. Collegio 2008). Metri Motor Tests ings of the F ol and Prima.	tion, Recreation L). Effect of specters and of seven-year 165. tions of Motor A and of Education, lex group organi- tion, Kinesiolog pološkog statusa Kineziološki faku e kulture – priruc- iga. Mental physical edu- ment Program. Intal factors affector of Education Jour ic Characteristic of Pupils in Prim- irst Special Focu ry Education, Za	and Dance, 65 (7), ially programmed old school Abilities and 15 (2), 251-274. zational forms – y, 38 (1), 28-39. djece ultet. <i>čnik za nastavnike</i> ucation for all Champaign, IL: cting urnal, 37, 319- ent in 1992 and cum, 37 (4),						

	* other scientific papers from the relevant databases in kinesiology
Quality assurance	questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of
methods that ensure	Kinesiology, University of Split
the acquisition of exit	
competencies	
Language/s of the	Croatian
course	English

TITLE OF COURSE	KINES	IOLOGICAL AND ANTH	IROPOLOGIC	AL ANALISIS IN F	(INESIOL	OGICAL E	DUCATI	ON	
Code	KAAE		Year of stud	dy		1			
Course teacher/s	Full Pr Associ	Babin, PhD ofessor Tenure ate Professor Tonči vić, PhD	Credit value	e (ECTS)		4			
Associate teachers				form (number er semester)	L 10	S 0	E O	F	
Course status	electiv	e course	Percentage application	of e-learning		20%			
		COUR	SE DESCRIPTI	ON					
Course objectives	-	uire competencies nec hthropological analysis	-	-	implem	entation	of kinesi	ological	
Course enrolment requirements and entry competencies required for the course		d by the Regulations of sity of Split	n Postgradua	te Doctoral Stud	y of the I	Faculty of	Kinesiol	ogy,	
Learning outcomes expected at the course level (4 to 10 learning outcomes)	- to cc - to m - to	middle and older school age and for students to analyse and evaluate certain contents of work in kinesiological education							
			Content					per of urs	
	1.	Kinesiological and anthropological analysis of kinesiological education contents considering age, gender and level of kinanthropological features of children, pupils and youth					2	2	
	2.	Value, significance an programme content	nd distribution	n of kinesiologica	al culture		2	2	
Course content	3.	Physiological, biomec culture content	chanical and r	notor features o	f kinesio	logical	2	L	
broken down in detail by weekly class	4.	Order of anthropolog and motor achieveme	ents			r skills	1	L	
schedule	5.	Content of the progra programme and form in common time inter	nation of the l	kinesiological cu	lture pro	gramme	1	L	
	6.	Specific abilities and I				ents	:	L	
	7.	Parts of kinesiologica acquiring teaching to				ole of	1	L	
	8.	Specific motor skills a				ure	1	L	
				ng hours - TOTA			1	0	
Forms of instruction:	□ exe	inars and workshops		☑ independent a □ multimedia □ laboratory ☑ work with me		ents			

	☑ partial e-learning □ field work						
Student responsibilities	Studying, which enti Within the exam, stu	ass attendance is mandatory according to Regulations on Study Programmes and udying, which entitles students for a signature to the course. Ithin the exam, students are required to write and present a seminar essay on a given pic and pass the oral exam.					
Screening student work (specify the	Class attendance	1	Research	1	Practical trainin	g	
proportion of ECTS	Experimental work		Report				
credits for each activity so that the	Essay		Seminar essay	1			
total number of ECTS credits is equal to the	Tests		Oral exam	1			
ECTS value of the course):	Written exam		Project				
Grading and evaluating student work in class and at the final exam	well as preparation a oral exam. <i>Final grade shall inc</i> – preparation – presentatio	 Procedure of evaluation includes student activities during classes, extra-curricular work as vell as preparation and development of a seminary essay, its presentation and the final oral exam. Final grade shall include the following components: preparation and development of a seminar essay – 30% presentation of the seminar essay – 30% oral exam – 40% 					
Required literature (available in the		Tit	Number of copies in the libraries	Availability via other media			
library and via other media)	10. Johnson, R.B., & Christensen, L.B (2016). <i>Educational research: quantitative, qualitative</i> <i>and mixed approaches</i> (6th ed.). Thousand Oaks, California: SAGE Publications				2 1	moodle.kifst.hr	
Optional literature	programme pupils aged 35. Bavčević, T. rada kao zn najmlađe šl <i>Hrvatske "V</i> 2004 (pp. 2 36. Dizdar, D. (1 37. Findak, V., 1 <i>kineziologij</i> 38. Findak, V., 1 <i>u školstvu</i> – 39. Findak, V. (novine. 40. Findak, V. (<i>kineziologij</i> 41. <i>Nastavni pl</i> Republika H 42. <i>Plan i progr</i> <i>stručne ško</i> Hrvatske. 43. <i>Plan i progr</i>	 and mixed approaches (6th ed.). Thousand Oaks, California: SAGE Publications. 34. Babin, J., Bavčević, T. & Prskalo, I. (2010). Comparative analysis of the specially programmed kinesiological activity on motor area structural changes of male pupils aged 6 to 8. Odgojne znanosti, 12 (1), 79-96. 35. Bavčević, T., Babin, J., & Vlahović, L. (2004). Skupni metodički organizacijski oblici rada kao značajan čimbenik razvoja nekih antropoloških obilježja kod učenica najmlađe školske dobi. Zbornik radova 13. ljetne škole kineziologa Republike Hrvatske "Vrednovanje u području edukacije, sporta i sportske rekreacije", Rovinj, 2004 (pp. 222-225). Zagreb: Hrvatski kineziološki savez. 36. Dizdar, D. (2006). Kvantitativne metode. Zagreb: Kineziološki fakultet. 37. Findak, V., Metikoš, D., Mraković, M., & Neljak, B. (1996). Primijenjena kineziologija u školstvu – NORME. Zagreb: Hrvatski pedagoško-književni zbor. 38. Findak, V., Metikoš, D. Mraković, M., Neljak, B. (1996). Primijenjena kineziologija u školstvu – NORME. Zagreb: Hrvatski pedagoško-književni zbor. 39. Findak, V. (1997). Programiranje u tjelesnoj i zdravstvenoj kulturi. Zagreb: Školske novine. 40. Findak, V., Metikoš, D., Mraković, M., Neljak, B., & Prot, F. (2000). Primijenjena kineziologija u školstvu – MOTORIČKA ZNANJA. Zagreb: Fakultet za fizičku kulturu. 41. Nastavni plan i program za osnovnu školu (2006). Tjelesna i zdravstvena kultura. Republika Hrvatska. Zagreb: Ministarstvo znanosti obrazovanja i športa. 42. Plan i program tjelesne i zdravstvene kulture za gimnazije, tehničke škole i srednje stručne škole (1992). Zagreb: Ministarstvo prosvjete, kulture i športa Republike 					

	* other scientific papers from the relevant databases in kinesiology
Quality assurance	questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of
methods that ensure	Kinesiology, University of Split
the acquisition of exit	
competencies	
Language/s of the	Croatian
course	English

TITLE OF COURSE	ADAPTED PHYSICA	L ACTIVIT	Y AND SPORT	•				
Code	PTAS		Year of stud			1		
Course teacher/s	Jelena Paušić, PhD Associate Professor		Credit value	,		4		
Associate teachers	-		Instruction of hours pe	form (number r semester)	L 10	S 0	E O	F
Course status	elective course		Percentage application	of e-learning		20	%	
	<u>.</u>	COURS	SE DESCRIPTI	ON	•			
Course objectives	To acquire compete in the area of adapte			-	presentat	ion of re	search de	esign
Course enrolment requirements and entry competencies required for the course	defined by the Regu University of Split	lations or	n Postgraduat	e Doctoral Stu	dy of the F	aculty of	⁻ Kinesiolo	ogy,
Learning outcomes expected at the course level (4 to 10 learning outcomes)	 to apply adequation activity and spo to evaluate effered activity and spo 	 to classify different types of adapted physical activity and sport to apply adequate measuring procedures for persons in the system of adapted physical activity and sport to evaluate effects of the exercising programme within area of adapted physical activity and sport 						
	Content ho						Numb hou 3	ırs
Course content	2. Adapted spo						1	
broken down in detail by weekly class	3. exercising			gramme on ad			3	
schedule	4. Classification activity and	sport		the area of ad		sical	3	
		Num	ber of teachii	ng hours - TOT	AL		10)
Forms of instruction:	☑ lectures ☑ independent assignments ☑ seminars and workshops □ multimedia □ exercises □ laboratory □ on line in entirely ☑ work with mentor ☑ partial e-learning □ field work							
Student responsibilities	Class attendance is a Studying, which enti Within the exam, stu topic and pass the o	itles stude udents are	ents for a sign e required to	ature to the co	ourse.	-		ven
Screening student	Class attendance	0.5	Research	1.5	Practical	training		
work (specify the proportion of ECTS	Experimental work		Report					
credits for each activity so that the	Essay		Seminar ess	ay 1				
total number of ECTS	Tests		Oral exam	1				

credits is equal to the ECTS value of the course):	Written exam	Project					
Grading and evaluating student work in class and at the final exam	 Procedure of evaluation includes student activities during classes, extra-curricular work as well as preparation and development of a seminary essay, its presentation and the final oral exam. Final grade shall include the following components: preparation and development of a seminar essay – 30% presentation of the seminar essay – 30% oral exam – 40% 						
Required literature (available in the library and via other		Title	Number of copies in the libraries	Availability via other media			
media)	-	P (2005). <i>Adapted Physic</i> Human Kinetics					
Optional literature	 other scien and sport 	* other scientific papers from the relevant databases in adapted physical activity					
Quality assurance methods that ensure the acquisition of exit competencies	•	questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split					
Language/s of the course	Croatian English						

TITLE OF COURSE	KINESIOLOGICAL AND AN	THROPOLOGICAL ANALYSES OF	SPORTS			
Code	KAAS Year of study 1					
Course teacher/s	Nenad Rogulj, PhD Full Professor	Credit value (ECTS)		4		
Associate teachers		Instruction form (number of hours per semester)		S 0	E O	F
Course status	elective course	Percentage of e-learning application		20	%	
	COL	JRSE DESCRIPTION				
Course objectives		ecessary for analyses of differer and anthropological analyses in		s of quali	tative an	d
Course enrolment requirements and entry competencies required for the course	defined by the Regulations University of Split	on Postgraduate Doctoral Study	y of the F	aculty of	Kinesiolo	ogy,
Learning outcomes expected at the course level (4 to 10 learning outcomes)	 Learning outcomes to develop procedures of kinesiological and anthropological analyses of sorts to evaluate new theories and facts from kinesiological and anthropological analyses of sports to manage research procedures of kinesiological and anthropological analyses of sport to use a highly specialised knowledge for development of new methods of kinesiological and anthropological analyses of sports to develop new methods and measuring instruments of kinesiological analyses of sport 					
		Content			Numb	
	1. Structural analyses activities	and analyses of kinesiological c	ontents i	n sports	1	
		onal efficiency parameters of pla	yers and	teams	1	
	 Methods and procedures for analyses of motor skills in sports activities (analyses of kinematic, kinetic and electromyography parameters) 					
Course content	4. Functional analyses	s of sports activities			1	
Course content broken down in detail	5. Analyses of kinesio	logical, tactical and strategic mo	dels in s	ports	1	
by weekly class schedule	6. Expert models for a activities	analyses of kinesiological conten	ts in spo	rts	2	
	/	pological features of athletes (m ctional, cognitive, conative, soci			1	
	Analyses of influen	ce of anthropological features o blogical models in sport		s in	1	
		edures in the process of selectio			1	
	10. Application of expension of	ert model sin anthropological an	alysis of s	sports	1	
		umber of teaching hours - TOTA	L		10	D
Forms of instruction:	☑ lectures	☑ independent a	assignme	nts		

	 ✓ seminars and workshops □ exercises □ on line in entirely ✓ partial e-learning □ field work 			 □ multimedia ☑ laboratory ☑ work with mentor 				
Student responsibilities	Studying, which enti Within the exam, stu	ass attendance is mandatory according to Regulations on Study Programmes and udying, which entitles students for a signature to the course. ithin the exam, students are required to write and present a seminar essay on a given pic and pass the oral exam.						
Screening student work (specify the	Class attendance	1	Research	1	Practical trainin	g		
proportion of ECTS	Experimental work		Report					
credits for each activity so that the	Essay		Seminar essay	/ 1				
total number of ECTS credits is equal to the	Tests		Oral exam	1				
ECTS value of the course):	Written exam		Project					
Grading and evaluating student work in class and at the final exam	well as preparation or oral exam. Final grade shall inc – preparation – presentatic	 Procedure of evaluation includes student activities during classes, extra-curricular work as well as preparation and development of a seminary essay, its presentation and the final oral exam. Final grade shall include the following components: preparation and development of a seminar essay – 40% presentation of the seminar essay – 30% oral exam – 30% 						
			Number of					
Required literature		Tit			copies in the libraries	Availability via other media		
Required literature (available in the library and via other		R., Silverr Aethods i			copies in the libraries	-		
(available in the	Research N Human kin 12. Wood, T., Z and Practi Human Kin	R., Silverr <i>1ethods i</i> etics. Zhu, W. (<i>ice in K</i> etics.	man, S., & Nels in Physical Activ 2006). Measure inesiology, Cha	vity (7th ed. ement Theor ampaing, IL).).).	other media moodle.kifst.hr moodle.kifst.hr		

	* other scientific papers from the relevant databases in kinesiology
Quality assurance	questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of
methods that ensure	Kinesiology, University of Split
the acquisition of exit	
competencies	
Language/s of the	Croatian
course	English

TITLE OF COURSE	KINESIOLOGICAL AN	ID ANTH	ROPOLOGICA	L ANALYSIS OI	DANCES			
Code	КААР		Year of study	Y		1		
Course teacher/s	Đurđica Miletić, PhD Full Professor Tenure	2	Credit value	(ECTS)	4			
Associate teachers			Instruction f of hours per	orm (number semester)	L 10	S O	E	F
Course status	elective course		Percentage of	of e-learning	10	20		
		COURSE	application DESCRIPTION	1				
Course objectives	To acquire competen the process of motor	icies nec learning	essary for dev g.	elopment and				
Course enrolment requirements and entry competencies required for the course	defined by the Regula University of Split	ations or	n Postgraduate	e Doctoral Stud	ly of the F	aculty of	Kinesiol	ogy,
Learning outcomes expected at the course level (4 to 10 learning outcomes)	 Learning outcomes to evaluate basic status to search the pre to develop and a to evaluate effici specificities of data 	evious sc nalyse m ency of e	ientific resear neasurements	ch of kinesiolo of kinesiologic	gical danc cal status (e operat	ors sional da	-
Course content broken down in detail by weekly class schedule	1. anthropologi 2. Kinesiological 3. Efficiency and	cal statu l and ant alyses of ficities o	s. thropological a different danc f scientific res	ent perators in tra analyses of pro ce programme earch in dance og hours - TOTA	fessional s. rs.		Numb hor 4 2 2 2 2 1	urs
Forms of instruction:	☑ lectures ☑ independent assignments ☑ seminars and workshops □ multimedia □ exercises □ laboratory □ on line in entirely ☑ work with mentor ☑ partial e-learning □ field work							
Student responsibilities	Class attendance is m Studying, which entit Within the exam, stu topic and pass the or	les stude dents ar	ents for a signate required to v	ature to the co	urse.	U		ven
Screening student work	Class attendance	0.3	Research	1	Practical	training		
(specify the proportion of ECTS credits for each	Experimental work	0.5	Report					
activity so that the total	Essay		Seminar essa	iy 1				
number of ECTS credits is equal to the ECTS value	Tests		Oral exam	0.5				
of the course):	Written exam		Project	0.2				

Grading and evaluating student work in class and at the final exam	 Procedure of evaluation includes student activities during classes, extra-curricular work as well as preparation and development of a seminary essay, its presentation and the final oral exam. Final grade shall include the following components: preparation and development of a seminar essay – 30% presentation of the seminar essay – 30% oral exam – 40% 					
Required literature	Title	Number of copies in the libraries	Availability via other media			
(available in the library and via other media)	 Krasnow D.H., & Wilmerding, M.V. (2015). Motor Learning and Control for Dancers. Human Kinetics. 	1				
	 Mc Morrris, T., & Hale, T. (2006). Coaching Science. Wiley. 	1				
Optional literature	 Science. Wiley. Miletić, A, Kostić, R, Božanić, A, & Miletić, D. (2009). Pain status monitoring in adolescent dancers. <i>Med Probl Perform Art., 24</i> (3), 120-124. Ramel, E.M., Moritz, U., & Jarnlo, G.B. (1999). Validation of a pain questionnaire (SEFIP) for dancers with a special created test battery. <i>Med Probl Perform Art., 14</i> (4), 196-203. Rusel, J.A. (2013). Preventing dance injuries: current perspectives. <i>Open Access J Sport Med., 4</i>, 199-210. Srhoj, LJ., Katic, R., & Kaliterna, A. (2006). Motor abilities in dance structure performance in female students. <i>Coll Antropol., 30</i> (2), 335-341. Uzunović, S. (2008). The transformation of strength, speed and coordination under the influence of sport dancing. <i>Facta Univ Phys Educ Sport., 6</i> (2), 135-146. other scientific papers from the relevant databases in kinesiology 					
Quality assurance methods that ensure the acquisition of exit competencies	questionnaire of the Committee for Quality Assurance and Kinesiology, University of Split	Improvement o	of the Faculty of			
Language/s of the course	Croatian English					

TITLE OF COURSE	MODELS OF ORIENTATION	AND SELECTION IN KINESIOL	OGY			
Code	MSOK	Year of study	1			
Course teacher/s	Nebojša Zagorac, PhD Full Professor	Credit value (ECTS)	4			
Associate teachers	Instruction form (number of hours per semester)		L 10	S 0	E O	F
Course status	elective course	Percentage of e-learning application		209	%	
	COUF	RSE DESCRIPTION				
Course objectives	To acquire competencies ne the process of selection and	cessary for development and orientation in sports.	evaluatior	n of new	procedu	res in
Course enrolment requirements and entry competencies required for the course	defined by the Regulations o University of Split	on Postgraduate Doctoral Stud	ly of the Fa	aculty of	Kinesiol	ogy,
Learning outcomes expected at the course level (4 to 10 learning outcomes)	 Learning outcomes to recognise theoretical determinants of scientific approach and selection in kinesiology to develop and evaluate all stages of scientific research to analyse processes of formation of ideal anthropological systems for achieving top results in sports to analyse a model for development of specification equations of kinesiological activities in education and sports 					
		Content				per of urs
	-	of detection and identification	of talents	5	2	
		f talent development			1	
		knowledge on morphological, and conative features of elite			1	L
	4. Defining research pr		atmetes		1	
Course content	Problem of choosing	variables for assessment of re	elevant fa	ctors of		-
broken down in detail	5. anthropological stat					
by weekly class schedule		g multivariate statistical metho				
		nropological regulatory mecha	inisms		1	
	responsible for technical and situational success					
		on and selection in elite sports on and selection in school spor	tc		1	
		on in recreation – sport for all	15		1	
		nber of teaching hours - TOTA	AL.		1	
Forms of instruction:	 ✓ lectures ✓ seminars and workshops □ exercises □ on line in entirely ✓ partial e-learning □ field workshops 	 ☑ independent a □ multimedia □ laboratory ☑ work with me 	-	its		
Student		pry according to Regulations o	-	rogramm	es and	
responsibilities	Studying, which entitles stud	donte tor a cignature to the	urco			

	Within the exam, st topic and pass the c		-	ite and pres	sent a seminar es	say on a given	
Screening student work (specify the	Class attendance	1	Research	1	Practical training	g	
proportion of ECTS credits for each	Experimental work		Report				
activity so that the	Essay		Seminar essay	1			
total number of ECTS credits is equal to the	Tests		Oral exam	1			
ECTS value of the course):	Written exam		Project				
Grading and evaluating student work in class and at the final exam	well as preparation oral exam. <i>Final grade shall in</i> – preparatio – presentatio	ocedure of evaluation includes student activities during classes, extra-curricular work as ell as preparation and development of a seminary essay, its presentation and the final al exam. nal grade shall include the following components: – preparation and development of a seminar essay – 30% – presentation of the seminar essay – 30% – oral exam – 40%					
Required literature (available in the		Ti	tle		Number of copies in the libraries	Availability via other media	
library and via other media)	 Malina, R.M., & Bouchard, C. (1991). Growth, maturation and physical activity. Champaign, EL: 1 Human Kinetics. 						
Optional literature	 complexes 2. Ross, J.G., physical ed 31-34. 3. Pearson, R preventati 4. Bloomfield Fricker, K.E States: Bla 5. Cooke, G. (Super coad 6. Balyi, I. (19 phase. FHS) 7. Hoare, D. (8. Williams, A of Sport Sc 9. Srhoj, V., R women's h 10. Zagorac, N certain kin 11. 1Zagorac, I Biomotor O Year-Old G * other scien 	 <i>maturation and physical activity.</i> Champaign, EL: Human Kinetics. Models of developmental processes in kinesiology – formation of anthropological complexes, Split, 2016. Scientific book. Ross, J.G., Dotson, C.O., Gilbert, G.G., & Katz, S J. (1985). What are kids doing in physical education? <i>Journal of Physical Education. Recreation and Dance, 56</i> (1), 31-34. Pearson, R.E., & Petitpas, A.J. (1990). Transitions of athletes: developmental and preventative perspectives. <i>Journal of Counselling and Development, 69,</i> 7-10. Bloomfield, J. (1995). Talent identification and profiling. In J. Bloomfield, P.A. Fricker, K.D. Fitch (Eds.), Science and medicine in sport (pp. 206-221). United States: Blackwell Science Cambridge. Cooke, G. (1997). Pathways to success: a new model for talent development. Super coach (a publication of the National Coaching Foundation), 8, 5, 10-11. Balyi, I. (1998). Long-term planning of athlete development - the training to train phase. <i>FHS: The UK's Quarterly Coaching Magazine</i>, 8-11. Hoare, D. (1998). Talent search. <i>Sports Coach, 21</i> (3), 32-33. Williams, A.M., & Reilly, T. (2000). Talent identification and development. <i>Journal of Sport Sciences, 18</i>, 657-667. Srhoj, V., Rogulj, N., Zagorac, N., & Katić, R. (2006). A new model of selection in women's handball. <i>Coll Antropol, 30</i> (3) 601-605. Zagorac, N., Retelj, E., & Katić, R. (2008). Successful pole vault influenced by certain kinematical parameters. <i>Coll Antropol, 32</i> (4), 1133-1139. 12agorac, N., Retelj, E., Babić, V., Bavčević, T., & Katić, R. (2008). Development of Biomotor Characteristics and Sprint and Throw Athletic Abilities in Six- to Eight-Year-Old Girls. <i>Coll Antropol, 32</i> (3), 843-850. 					
Quality assurance	questionnaire of the			ssurance an	d Improvement o	of the Faculty of	
methods that ensure	Kinesiology, University	sity of Sp	lit				

the acquisition of exit	
competencies	
Language/s of the	Croatian
course	English

TITLE OF COURSE	SELECTED CHAPTERS ON BIG	OLOGICAL PSYCHOLOGY AND	NEUROS	CIENCE		
Code	NZK	Year of study		1		
Course teacher/s	Goran Kardum, PhD Associate Professor Andreja Bubić, PhD Assistant Professor	Credit value (ECTS)		4	L	
Associate teachers		Instruction form (number of hours per semester)	L 10	S 0	E O	F
Course status	elective course	Percentage of e-learning application		20	%	
	COUR	SE DESCRIPTION				
Course objectives	To teach students to underst human brain from the aspect	and cortical organisation and to f kinesiology.	neurofur	nctional r	nechanis	ms of
Course enrolment requirements and entry competencies required for the course	defined by the Regulations o University of Split	n Postgraduate Doctoral Stud	ly of the F	aculty of	f Kinesiol	ogy,
Learning outcomes expected at the course level (4 to 10 learning outcomes)	 to analyse contemporary to analyse a role and pri psychological frameworl 	rganisation of human brain y biological features of psycho nciples of biological determin k for sports activities nbers of interdisciplinary spor	ants setti		ological a	ind
		Content			Numb	
	2. and transmission of a synapse in neurotran	tion ects and psychological effects a nerve impulse, structure and ismission and transmission of d contemporary notions	d function		2	
Course content	3 Cortical organisation	, sensorimotor and associative ry neuroscientific research.	e areas th	rough	1	L
broken down in detail		risation of functions of cerebr			1	
by weekly class schedule	5. specificity of cognitiv	adult brain plasticity in contex re and neural functions in athl	etes	-	1	L
	6. training session	plasticity for organisation of a			1	L
	7. frequent injuries or s	europsychological evaluation pecific diagnostic categories			1	L
	8. interdisciplinary tean			d an	1	
	Num	hber of teaching hours - TOTA	AL		1	0
Forms of instruction:	 ✓ lectures ✓ seminars and workshops □ exercises □ on line in entirely ✓ partial e-learning 	☑ independent □ multimedia □ laboratory ☑ work with me	-	nts		

	□ field work					
Student responsibilities	Class attendance is Studying, which ent Within the exam, stu topic and pass the o	itles stud udents ar	ents for a signation re required to wr	ure to the c	ourse.	
Screening student	Class attendance	1	Research	1	Practical trainin	g
work (specify the proportion of ECTS	Experimental work		Report			
credits for each activity so that the	Essay		Seminar essay	1		
total number of ECTS	Tests		Oral exam	1		
credits is equal to the ECTS value of the course):	Written exam		Project			
Grading and evaluating student work in class and at	Procedure of evalua well as preparation oral exam. <i>Final grade shall inc</i>	and deve	elopment of a ser	ninary essa	-	
the final exam		n and dev on of the	velopment of a so seminar essay –	eminar essa	ıy — 40%	
	– presentatio	n and dev on of the - 30%	velopment of a se	eminar essa	Number of copies in the libraries	Availability via other media
the final exam Required literature (available in the	 presentation oral exam - 13. Pinel, J.P.J 	n and dev on of the - 30% Ti t I. (2010)	velopment of a se seminar essay – tle). Biopsychology	eminar essa 30% v (8th ed.	Number of copies in the libraries	=
the final exam Required literature	 presentation oral exam - 13. Pinel, J.P.J 	n and dev on of the - 30% Tit I. (2010) arson Int J. (200	velopment of a se seminar essay – tle). <i>Biopsychology</i> ernational Editio D2). Biološka	eminar essa 30% v (8th ed.	Number of copies in the libraries	=
the final exam Required literature (available in the library and via other	 presentation oral examon 13. Pinel, J.P.J. Boston: Pean 14. Pinel, J.P 	n and dev on of the - 30% Tit I. (2010) arson Int 2.J. (200 co: Naklad	velopment of a se seminar essay – tle). <i>Biopsychology</i> ernational Editio D2). Biološka da Slap.	eminar essa 30% / (8th ed. n.	Number of copies in the libraries	=
the final exam Required literature (available in the library and via other	 presentation oral exam - oral exam - 13. Pinel, J.P.J. Boston: Pea 14. Pinel, J.P.J. Jastrebarski 15. Materijali s 1. Kandel, E.R. York/Amster 2. Squire, L.R. Fundament 	n and dev on of the - 30% Tit J. (2010) arson Int C.J. (200 arson Int C.J. (200 co: Naklad co: Naklad predava co: Naklad spredava co: Naklad spredava co: Naklad spredava tal Neuro	tle . Biopsychology ernational Editio D2). Biološka da Slap. nja. vartz, J.H. (2000). xford: Elsevier. ., Bloom, F.E., du science (3rd ed.)	eminar essa 30% (8th ed. n. psihologija Principles of Lac, S., Gho . Burlingtor	Number of copies in the libraries	other media moodle.kifst.hr (4th ed.). New N.C. (2008). on: Elsevier.
the final exam Required literature (available in the library and via other media)	 presentation oral exam - oral exam - 13. Pinel, J.P.J. Boston: Pea 14. Pinel, J.P.J. Jastrebarski 15. Materijali s 1. Kandel, E.R. York/Amster 2. Squire, L.R. Fundament 	n and dev on of the - 30% Tit J. (2010) arson Int C.J. (2000) arson Int C.J. (2000) arson Int C.J. (2000) arson Int C.J. (2010) arson Int C.J. (2010) arso	tle . Biopsychology ernational Editio D2). Biološka da Slap. nja. vartz, J.H. (2000). xford: Elsevier. ., Bloom, F.E., du bscience (3rd ed.) ers from the rele	eminar essa 30% v (8th ed. n. psihologija . Principles v Lac, S., Gho . Burlingtor vant datab	Number of copies in the libraries). a. of Neural Science osh, A., & Spitzer, J/San Diego/Lond ases in kinesiolog	other media moodle.kifst.hr (4th ed.). New N.C. (2008). on: Elsevier.

TITLE OF COURSE	MEDI	CAL DIAGNOSTIC METH	IODS IN KIN	IESIOLOGY AND S	PORT			
Code	MDM	К	Year of stu	ıdy		1		
Course teacher/s	lvanče	ant Professor Vladimir ev, PhD ant Professor Marko PhD	Credit valı	ue (ECTS)		4		
Associate teachers				n form (number er semester)	L 10	S O	E O	F
Course status	electiv	/e course	Percentag applicatio	e of e-learning n		20	%	
		COURS	E DESCRIPT	TION				
Course objectives		uire competencies of correlation of medical diag			-		on and	
Course enrolment requirements and entry competencies required for the course		d by the Regulations on rsity of Split) Postgradu	ate Doctoral Study	y of the F	aculty of	Kinesiol	ogy,
Learning outcomes expected at the course level (4 to 10 learning outcomes)	- tc pe of - tc - tc m - tc - tc sa	ing outcomes o argue critically the pos ermanent, dynamic trac f training by current fun o read, evaluate and use o develop a research pro- nedical parameters o understand fundament o recognise specificities of amples and a necessity contents	king of the ctional abili d the existi oject based tal ethical s of working	training process, i ties ng literature from on diagnostic met tandards of resea with respondents,	n develo the targ hods and rch whicl , laborato	pment ar eted area d measur n has a m ory and o	nd adjust a ements o an at its ther biol	ment of centre ogical
			Con	tent			Numb hou	
	1.	Review of methods ind status in athletes	dicated for o	diagnosing functio	onal and	health	2	
Course content broken down in detail	2.	Diagnostics of cardiova (spiroergometry, ergo			m		2	
by weekly class schedule	3.	Diagnostics of metabo					2	
Sheddle	4.	Diagnostics of laborate measurement in blood	•	lic parameters (la	ctate		2	
	5.	Student presentation of contemporary scientif	ic literature		_		2	
		Numb	er of teach	ing hours - TOTAI	_		10	1
Forms of instruction:	□ exe □ <i>on l</i> ☑ par	ninars and workshops		 ✓ independent a □ multimedia □ laboratory ✓ work with me 	-	nts		

Student responsibilities	Studying, which enti Within the exam, stu	lass attendance is mandatory according to Regulations on Study Programmes and tudying, which entitles students for a signature to the course. /ithin the exam, students are required to write and present a seminar essay on a given opic and pass the oral exam.						
Screening student	Class attendance	1	Research	0.5	Practical training	5		
work (specify the proportion of ECTS	Experimental work	0.5	Report					
credits for each activity so that the	Essay		Seminar essay	1				
total number of ECTS credits is equal to the	Tests		Oral exam	0.5				
ECTS value of the course):	Written exam		Project	0.5				
Grading and evaluating student work in class and at the final exam	well as preparation a oral exam. <i>Final grade shall inc</i> – preparation – presentatio	cedure of evaluation includes student activities during classes, extra-curricular work as Il as preparation and development of a seminary essay, its presentation and the final						
		Tit	Number of copies in the libraries	Availability via other media				
Required literature (available in the library and via other media)	W.W., & W testing pathophysic ed.). Philac Wilkins.	hipp, B.J. and ology an lelphia, I	sen, J.E., Sue, D. (2005). Principles interpretation: d clinical applic USA: Lippincott	s of exercise including cations (4th Williams 8	e 7 1 k			
	-	 Kenney, W.L., Wilmore, J., & Costill, D. (2015). <i>Physiology of Sport and Exercise</i> (6th ed.). Human kinetics. 						
Optional literature					Society Monograp ases in kinesiolog			
Quality assurance methods that ensure	questionnaire of the Kinesiology, Univers		-	ssurance an	d Improvement o	f the Faculty of		
the acquisition of exit competencies Language/s of the	Croatian							

TITLE OF COURSE	INTEGRATION OF SC		ID ELITE SPORT	r				
Code	IZVS		Year of study			1		
Course teacher/s	Assistant Professor N Tomljanović, PhD docent Assistant Professor A Kezić, PhD	1ario	, Credit value (E	CTS)		4		
Associate teachers			Instruction for of hours per se	•	L 10	S 0	E O	F O
Course status	elective course		Percentage of application	e-learning		20	%	
		COURSI	E DESCRIPTION	l				
Course objectives	To acquire competen research design on a defined by the Regula	sample of	f elite athletes.					
requirements and entry competencies required for the course	University of Split							
Learning outcomes expected at the course level (4 to 10 learning outcomes)	 Learning outcomes to analyse the ro to identify proble to select tools for athletes to develop a rese 	ems of elit r measure	te athlete researce ements of certa	arch ain character		a sample	of high-I	level
			Conten					ber of ours
	^{1.} population.		sport. Specific	ities of elite a			ho	
Course content	1.population.2.Workshop: re	eview of p	sport. Specific	ities of elite a	analyses		ho	ours
broken down in	1. population. 2. Workshop: re 3 Assessment p	eview of p protocols f	sport. Specific revious resear for assessing h	ities of elite a ch and their igh-level ath	analyses	ganisation	ho	ours 2
broken down in detail by weekly class	1. population. 2. Workshop: re 3. Assessment p and measure 4. Limitations and	eview of p protocols f ment of h nd proble	sport. Specific revious resear for assessing h igh-level athle ms of research	ities of elite a ch and their igh-level ath tes. on a sample	analyses letes. Org e of elite a	athletes.		2 1 2 3
broken down in	1. population. 2. Workshop: re 3. Assessment p and measure 4. Limitations and 5. Motivational 6. Workshop: detection	eview of p protocols f ment of h nd proble issues du	sport. Specific revious resear for assessing h igh-level athle	ities of elite a ch and their igh-level athl tes. on a sample ients of elite	analyses letes. Org of elite a athletes.	athletes.		2 2 1 2
broken down in detail by weekly class	1. population. 2. Workshop: re 3. Assessment p and measure 4. Limitations and 5. Motivational	eview of p protocols f ment of h nd proble issues du evelopme	sport. Specific revious resear for assessing h igh-level athle ms of research ring measurem nt of research	ities of elite a ch and their igh-level athl tes. on a sample nents of elite design on a s	analyses letes. Org of elite a athletes. sample of	athletes.		2 1 2 3 1
broken down in detail by weekly class	1. population. 2. Workshop: re 3. Assessment p and measure 4. Limitations and 5. Motivational 6. Workshop: detection	eview of p protocols f ment of h nd proble issues du evelopme	sport. Specific revious resear for assessing h igh-level athle ms of research ring measurem	ities of elite a ch and their igh-level athl tes. on a sample nents of elite design on a s	analyses letes. Org of elite a athletes. sample of	athletes.		Durs 2 1 2 3 1
broken down in detail by weekly class	I. population. 2. Workshop: realized and measured and measured 3. Assessment pand measured 4. Limitations and measured 5. Motivational 6. Workshop: definition and measured ☑ lectures ☑ seminars and work □ exercises □ on line in entirely ☑ partial e-learning	eview of p protocols f ment of h nd proble issues dui evelopme Numb	sport. Specific revious resear for assessing h igh-level athle ms of research ring measurem nt of research	ities of elite a ch and their igh-level athl tes. on a sample nents of elite design on a s	analyses letes. Org athletes. sample of AL lent assig lia Y	f elite		Durs 2 1 2 3 1 1
broken down in detail by weekly class schedule	1. population. 2. Workshop: realized in the second se	eview of p protocols f ment of h nd proble issues dui evelopme Numb scshops	sport. Specific revious resear for assessing h igh-level athle ms of research ring measurem nt of research er of teaching according to F nts for a signat	ities of elite a ch and their igh-level athl tes. on a sample nents of elite design on a s hours - TOT/ ☑ independ ☐ multimed ☑ laborator ☑ work with Regulations o ure to the co	analyses letes. Org a of elite a athletes. sample of AL lent assig lia y n mentor m Study F urse.	f elite nments	hes and	burs 2 1 2 3 1 1 1 1 10

Screening student	Experimental work	0,5	Report						
work (specify the proportion of ECTS	Essay		Seminar essay	2					
credits for each activity so that the	Tests		Oral exam	0,5					
total number of ECTS credits is equal to the ECTS value of the course):	Written exam		Project						
Grading and evaluating student work in class and at the final exam	well as preparation a oral exam. Final grade shall inc. – preparation – presentatio	 bccedure of evaluation includes student activities during classes, extra-curricular work as ll as preparation and development of a seminary essay, its presentation and the final al exam. al grade shall include the following components: preparation and development of a seminar essay – 30% presentation of the seminar essay – 30% oral exam – 40% 							
Required literature (available in the		Title	2		Number of copies in the libraries	Availability via other media			
library and via other media)	Physiologica	al testing o				moodle.kifst.hr			
Optional literature	 Human Kine Maud, P., & Kinetics. Day, R., & G University P Bělka, J., Hů fitness level <i>Journal of P</i> Owen, A.L., (2016). High professiona <i>Strength an</i> 	 <i>athlete</i>. Human Kinetics. Jerry, R., Thomas, J. i Nelson, K. (2001). <i>Research methods in Physical Activity</i>. Human Kinetics. Maud, P., & Foster, C. (2006). Physiological Assessment of Human Fitness. Human Kinetics. Day, R., & Gastel, B. (2012). <i>How to write and publish a scientific paper</i>. Cambridge University Press. Bělka, J., Hůlka, K., Šafář, M., Weisser, R., & Mikova, L. (2016). Analysis of the fitness level in elite handball players (U16 and U18) between 2003 and 2013. <i>Journal of Physical Education and Sport, 16</i> (4), 1381-1390. Owen, A.L., Wong, D.P., Dunlop, G., Groussard, C., Kebsi, W., Dellal, A., Zouhal, H. (2016). High-intensity training and salivary immunoglobulin a responses in professional top-level soccer players: Effect of training intensity. <i>Journal of Strength and Conditioning Research, 30</i> (9), 2460-2469. 							
Quality assurance methods that ensure the acquisition of exit competencies	questionnaire of the Kinesiology, Universi		-	irance and	d Improvement	of the Faculty of			
Language/s of the course	Croatian English								

TITLE OF COURSE	SELEC	TED CHAPTERS ON Q	UANTITATIV	METHODS				
Code	OPKM		Year of stu	ıdy		1		
Course teacher/s	Associa Jelaska	ate Professor Igor , Phd	Credit valu	ie (ECTS)		4		
Associate teachers				n form (number er semester)	L 10	S O	E O	F
Course status	elective	e course	Percentag applicatio	e of e-learning		20		
	<u> </u>	COU	RSE DESCRIPT		<u>I</u>			
Course objectives	-	uire competencies ne cal procedures in pro	cessary for in	dividual selectior			-	
Course enrolment requirements and entry competencies required for the course		d by the Regulations of split	on Postgradu	ate Doctoral Stud	y of the F	aculty of	Kinesiolo	ogy,
Learning outcomes expected at the course level (4 to 10 learning outcomes)	 to kin to to to kin to 	ng outcomes assess critically conce assiological research apply individually no discuss critically abou compare results of a nesiology develop a research d present a research d	n-linear regre ut adequacy o pplication of o esign in the a	ssion models in k If application of a different models i rea of kinesiology	inesiolog certain s n researc	ical resea tatistical ch and th	arch model e area of	
			Сог	itent			Numb	
	1.	Conceptual, method kinesiological resear	-	nterpretative pro	blems in		2	
Course content broken down in detail	2.	Recognition, applica models (polynomial kinesiological resear	ition and inte , logarithmic,	-		-	2	
by weekly class	3.	Logistic regression	•				2	
schedule	4.	Introduction to anal Identification of mu		-	esiology,		2	
	5.	Methodological four kinesiology, Basic fo					2	
				ing hours - TOTA			10	D
Forms of instruction:	□ exer □ on li	inars and workshops cises <i>ne</i> in entirely ial e-learning		 ☑ independent a □ multimedia □ laboratory ☑ work with me 		nts		
Student responsibilities	Class at Studyir Within	ttendance is mandatong, which entitles students a the exam, students a nd pass the oral exam	dents for a signed to the second s	nature to the cou	urse.	-		/en

Screening student	Class attendance	0.3	Research	0.5	Practical training	,			
work (specify the				0.5		5			
proportion of ECTS credits for each	Experimental work	1	Report						
activity so that the	Essay		Seminar essay	1					
total number of ECTS credits is equal to the	Tests		Oral exam	0.5					
ECTS value of the course):	Written exam		Project	0.7					
Grading and evaluating student work in class and at the final exam	well as preparation a oral exam. Final grade shall inc – preparation – presentatio	edure of evaluation includes student activities during classes, extra-curricular work as as preparation and development of a seminary essay, its presentation and the final exam. I grade shall include the following components: – preparation and development of a seminar essay – 30% – presentation of the seminar essay – 30% – oral exam – 40%							
Required literature (available in the		Tit	le		Number of copies in the libraries	Availability via other media			
library and via other media)			Fidell, L.S. (2 (5th ed.). Bosto						
Optional literature	 (2nd ed.). A Alligood, K. dynamical s Bollen, K.A. Fan, X., Thomethod, an Structural E Jelaska, I., N relation bet cubic relation Jelaska, I., T and Transit Journal of S Perić, N., & 	 Bacon. Abraham, R.H., & Shaw, C.D. (1992). <i>Dynamics—the geometry of behavior</i>, (2nd ed.). Addison-Wesley. Alligood, K.T., Sauer, T.D., & Yorke, J.A. (2000). <i>Chaos. An introduction to dynamical systems</i>. Springer Verlag. Bollen, K.A. (1989). <i>Structural equations with latent variables</i>. NY: Wiley. Fan, X., Thompson, B., & Wang, L. (1999). Effects of sample size, estimation method, and model specification on structural equation modeling fit indexes. <i>Structural Equation Modeling, 6</i> (1), 56-83. Jelaska, I., Maleš, B., & Kuna, D. (2011). Influence of learning process on the relation between chosen anthropometric dimensions via linear, parabolic and cubic relation model. <i>Croatian Journal of Education, 13</i> (1), 76-98. Jelaska, I., Trninić, S., & Perica, A. (2012). Analysis of Basketball Game States and Transition Probabilities Using the Markov Chains. <i>Physical Culture - Journal of Sport Sciences & Physical Education, 66</i> (1), 15-24. Perić, N., & Petrović, I. (2000). <i>Identifikacija procesa</i>. Zagreb: Skriptarnica, FER. 							
Quality assurance methods that ensure the acquisition of exit competencies	questionnaire of the Kinesiology, Univers		-	ssurance and	d Improvement o	f the Faculty of			
Language/s of the	Croatian								
course	English								

2.2.3. Semester III

TITLE OF COURSE	KINESIOLOGY IN ARMED FO	RCES			
Code	KOS	Year of study	2		
Course teacher/s	Boris Maleš, PhD Full Professor Tenure Boris Milavić, PhD Assistant Professor	Credit value (ECTS)	3		
Associate teachers		Instruction form (number of hours per semester)	L S 10 0	E O	F
Course status	elective course	Percentage of e-learning application	209	%	
	COURS	SE DESCRIPTION			
Course objectives	To acquire competencies nec the area of applied kinesiolog		implementation of	research	n in
Course enrolment requirements and entry competencies required for the course	defined by the Regulations of University of Split	on Postgraduate Doctoral Stu	udy of the Faculty	of Kines	iology,
Learning outcomes expected at the course level (4 to 10 learning outcomes)	 kinesiology in armed force to compare different type to develop a design of reapplied kinesiology in arrest 	es of research implemented o search dimensions of anthrop ned forces research in the area of applie	on members of arr pological status int	ned force he area	of
		Content		Numb	
		morphological characteristics		2	
	members and applica	ation of anthropometry in arr motor and functional abilities		+	
	2. members .			2	
Course content	3. Research analyses of armed forces membe	other dimensions of anthrop rs.	ological status of	2	
broken down in detail by weekly class	 anthropological statu 	relations between certain dir s of the military population.		1	
schedule	5. anthropological featu	the influence of military treaters of armed forces member	S.	1	
	6	al features of armed forces n Iuation of measuring instrum		1	
	7. Development of resea in armed forces.	arch design in the area of app	olied kinesiology	1	
	Num	ber of teaching hours - TOTA	\L	10)
Forms of instruction:	☑ lectures	☑ independent	assignments		

	 ✓ seminars and wor □ exercises □ on line in entirely ✓ partial e-learning □ field work 	-		multimedia aboratory work with m		
Student responsibilities	Class attendance is a Studying, which enti- Within the exam, stu- and pass the oral ex	itles stude udents are	ents for a signat	ure to the co	ourse.	
Screening student work (specify the	Class attendance	0,5	Research		Practical trainin	g
proportion of ECTS	Experimental work		Report			
credits for each activity so that the	Essay		Seminar essay	1		
total number of ECTS credits is equal to the	Tests		Oral exam	1		
ECTS value of the course):	Written exam		Project	0,5		
Grading and evaluating student work in class and at the final exam		and deve Jude the n and dev on of the s	lopment of a ser	minary essay onents: eminar essay	, its presentatior	
		Tit	le		Number of copies in the libraries	Availability via other media
	1. Bendo, S.A. A.R., Datu, Assossiatio					
	Recruit Mo	uent attr tivation a	ition in the Asse and Strength stu	ssment of		moodle.kifst.hr
Required literature (available in the library and via other media)	and subseq Recruit Mo <i>medicine, 1</i> 2. Bishop, P.A., T.R., & Woo weight on p	uent attr tivation a 75 (3), 18 , Crowder ods, A.K. (performations test test in	ition in the Asse and Strength stu- 38-194.	ssment of dy. <i>Military</i> R., Lindsay, f body supported	3	moodle.kifst.hr moodle.kifst.hr
(available in the library and via other	and subseq Recruit Mo medicine, 1 2. Bishop, P.A., T.R., & Woo weight on p motor fitne (11), 1108- 3. Pandorf C.E J.W., Frykm (2003). Reli relevant oc tests. Cana	uent attr tivation a <u>75 (3), 18</u> , Crowder ods, A.K. (performation ss test in 1114. E, Nindl, E han, P.N., ability as cupation	ition in the Asse and Strength stur 38-194. r, T.A., Fielitz, L.I (2008). Impact on nce of a weight-	ssment of dy. <i>Military</i> R., Lindsay, f body supported <i>nedicine, 173</i> J., Castellani łarman, E.A. o militarily rmance	,	
(available in the library and via other	and subseq Recruit Mo medicine, 1 2. Bishop, P.A., T.R., & Woo weight on p motor fitne (11), 1108-7 3. Pandorf C.E J.W., Frykm (2003). Reli relevant oc tests. Cana (1), 27-37. 4. Allsopp, A.J Pethybridg The scientif fitness test. service, 89	uent attr tivation a 75 (3), 18 , Crowden ods, A.K. (performan 1114. E, Nindl, E an, P.N., ability as cupations dian journ ., Scarpel e, R.J. (20 ic basis fo (1), 11-18	ition in the Asse and Strength stu- 38-194. r, T.A., Fielitz, L.I (2008). Impact of nce of a weight- men. <i>Military n</i> 3.C., Montain, S Leone, C.D., & H sessment of two al physical perfo nal of applied ph llo, E.G., Andrew 03). Survival of the royal Nav of the Royal Nav 3.	ssment of dy. <i>Military</i> R., Lindsay, f body supported nedicine, 173 I., Castellani darman, E.A. o militarily rmance pysiology, 28 rs, S., & the fittest? ry prejoining al medical	, , ,	moodle.kifst.hr moodle.kifst.hr moodle.kifst.hr

	 Legg, S.J., & Duggan, A. (1996). The effects of basic training on aerobic fitness and muscular strength and endurance of British Army recruits. <i>Ergonomics</i>, <i>39</i> (12), 1403-1418. Katić, R., Maleš, B., Ropac, D., & Padovan, M. (2002). Effect of Programmed Kinesiologic Treatment on Structural Transformation of some Strengthand Endurance Manifestations in Croatian Army Draftees. <i>Collegium antropologicum</i>, <i>26</i> (1), 221-229. Maleš, B., & Milavić, B. (2012). The perspectives of kinesiology in armed forces [In Croatian]. In Đ. Miletić, S. Krstulović, Z. Grgantov, T. Bavčević, & A. Kezić (Eds.), <i>Proceedings of 4th International Scientific Conference "Contemporary Kinesiology"</i> (pp. 66-78). Split: Faculty of Kinesiology, University of Split. Jukić, I., Vučetić, V., Aračić, M., Bok, D., Dizdar, D., Sporiš, G., & Križanić, A. (2008). Diagnostics of fitness readiness of the croatian soldiers [In Croatian]. Zagreb: University in Zagreb, Faculty of Kinesiology; Ministry of Defense, Institute for research and system development.
	 research and system development. <i>other scientific papers from the relevant databases in kinesiology</i>
Quality assurance methods that ensure the acquisition of exit competencies	questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split
Language/s of the course	Croatian English

TITLE OF COURSE	KINESIOLOGY OF EE	DUCATIO	N OF PRESCHOO	DL, YOUNGE	R, MIDDLE		DER SCH	IOOL				
Code	EDD		Year of study			2						
Course teacher/s	Ivan Prskalo, PhD Full Professor Tenur	e	Credit value (E	ECTS)		3						
			Instruction for	m (number	L	S	Е	F				
Associate teachers			of hours per se		10	0	0					
Course status	elective course		Percentage of application	e-learning		209	%					
		COURS	E DESCRIPTION									
Course objectives	To train students for younger, middle and	-		cts in kinesic	ology of edu	ucation o	of presch	iool,				
Course enrolment requirements and entry competencies required for the course	defined by the Regu University of Split	lations or	n Postgraduate I	Doctoral Stu	dy of the Fa	aculty of	Kinesiol	ogy,				
Learning outcomes expected at the course level (4 to 10 learning outcomes)	 to analyse work to evaluate dida and pupils 	to analyse contemporary trends in education to analyse work modalities with different age groups to evaluate didactical work forms in the process of physical exercising with children and pupils										
			Conten				Numb					
Course content broken down in detail by weekly class schedule	2. Work modal age 3. Didactical or the process of Work metho	rganisatio of physica ods in acti ounger, r	ctive on contem preschool, your nal work forms al exercising in c vities with child niddle and older ber of teaching	nger, middle in the functi hildren and ren of presci r school age	and older on of optin pupils hool age ar	school nising	3 3 2 2 2 1	3 2 2				
broken down in detail by weekly class	2. Work modal age 3. Didactical or the process of the process of the process of children of y 4. Work metho children of y ☑ Iectures ☑ seminars and wor □ exercises on line in entirely ☑ partial e-learning field work	lities with rganisatio of physica ods in acti rounger, r Num rkshops	preschool, your nal work forms al exercising in c vities with child niddle and older ber of teaching	nger, middle in the functi hildren and ren of prescl r school age hours - TOT ndependent nultimedia aboratory work with m	and older on of optin pupils hool age ar AL : assignmer entor	school nising nd nts	3 2 2 1	3 2 2				
broken down in detail by weekly class schedule	2. Work modal age 3. Didactical or the process of the process of the process of children of y 4. Work metho children of y ☑ Iectures ☑ seminars and wor □ exercises □ on line in entirely ☑ partial e-learning	rganisatio of physica ods in acti rounger, r Num rkshops mandator itles stude udents ar	preschool, your nal work forms al exercising in c vities with child niddle and older ber of teaching ber of teaching u i u i u i u v v v according to F ents for a signat e required to wr	nger, middle in the functi hildren and ren of presc r school age hours - TOT ndependent multimedia aboratory work with m	and older on of optin pupils hool age ar AL : assignmer entor on Study Pr purse.	school nising nd nts	3 2 2 1 1 es and	3 2 2 0				
broken down in detail by weekly class schedule Forms of instruction: Student responsibilities Screening student	2. Work modal age 3. Didactical or the process of the proces of the process of the process of the proces	rganisatio of physica ods in acti rounger, r Num rkshops mandator itles stude udents ar	preschool, your nal work forms al exercising in c vities with child niddle and older ber of teaching ber of teaching u i u i u i u v v v according to F ents for a signat e required to wr	nger, middle in the functi hildren and ren of presc r school age hours - TOT ndependent multimedia aboratory work with m	and older on of optin pupils hool age ar AL : assignmer entor on Study Pr purse.	school nising nd nts rogramm nar essay	3 2 2 1 1 es and	3 2 2 0				
broken down in detail by weekly class schedule Forms of instruction: Student responsibilities	2. Work modal age 3. Didactical or the process of the process of the process of children of y 4. Work metho children of y ☑ lectures ☑ seminars and wor □ exercises □ on line in entirely ☑ partial e-learning □ field work Class attendance is r Studying, which enti Within the exam, stutopic and pass the o	ities with ganisatio of physica ods in acti rounger, r Num rkshops rkshops mandator itles stude udents ar	preschool, your nal work forms i al exercising in c vities with child niddle and older ber of teaching vities for a signative required to wr	nger, middle in the functi hildren and ren of presci r school age hours - TOT ndependent multimedia aboratory work with m Regulations o ure to the co	and older on of optin pupils hool age ar AL assignmer entor on Study Pr ourse. eent a semin	school nising nd nts rogramm nar essay	3 2 2 1 1 es and	3 2 2 0				
activity so that the	Tests		Oral exam	1								
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total number of ECTS credits is equal to the ECTS value of the course):	Written exam											
Grading and evaluating student work in class and at the final exam	well as preparation oral exam. <i>Final grade shall ind</i> – preparation – presentation	 I grade shall include the following components: preparation and development of a seminar essay – 40% presentation of the seminar essay – 30% oral exam – 30% 										
Required literature (available in the		Tit	le		Number of copies in the libraries	Availability via other media						
library and via other media)	16. Johnson, Educationa and mixed California:	ıl researc approach	1	moodle.kifst.hr								
Optional literature	 Babin, J., Bavčević, T. & Prskalo, I. (2010). Comparative analysis of the specially programmed kinesiological activity on motor area structural changes of male pupils aged 6 to 8. <i>Odgojne znanosti, 12</i> (1), 79-96. Badric, M., Prskalo, I., & Matijevic, M. (2015). Primary school pupils' free time activities. <i>Croatian Journal of Education, 17</i> (2), 299-331. Findak, V. (2015). Kinesiology Education - Present and Future. <i>Croatian Journal of Education, 18</i> (Supplement 1), 279-291. Findak, V. (2014). Kinesiology Education - a Challenge for Modern Theory and Practice in Education. <i>Croatian Journal of Education, 16</i> (3), 623-641. Findak, V. (2011). Kinesiological prevention in the field of education. <i>Croatian Journal of Education, 13</i> (4), 71-86. Prskalo, I. (2015). Kinesiology of free time. <i>Croatian Journal of Education, 17</i> (Special Issue 1), 219-228. 											
Quality assurance methods that ensure the acquisition of exit competencies	questionnaire of the Kinesiology, Univers		•	ssurance and	d Improvement	of the Faculty of						
Language/s of the course	Croatian English											

TITLE OF COURSE	TRANSFORMATION	IAL EFFEC	TS OF KINESIT	HERAPEUTIC	PROCEDUR	ES		
Code	ТИКР		Year of study	,		2		
Course teacher/s	Jelena Paušić, PhD Associate Professor		Credit value			3		
Associate teachers			Instruction for of hours per		L 10	S 0	E O	F
Course status	elective course		Percentage o application	f e-learning		209	%	
	-	COURS	SE DESCRIPTIO	N	_ <u>_</u>			
Course objectives	To acquire compete effects of kinesither				evaluation	of trans	formatic	onal
Course enrolment requirements and entry competencies required for the course	defined by the Regu University of Split	lations or	n Postgraduate	Doctoral Stu	dy of the Fa	culty of	Kinesiol	ogy,
Learning outcomes expected at the course level (4 to 10 learning outcomes)	 to set a hypothe kinesitherapy to select adequa transformationa to analyse chan 	to classify transformational procedures of kinesitherapeutic programmes to set a hypothesis in accordance with effects of transformational processes in kinesitherapy to select adequate statistical methods for processing data obtained under influence of transformational processes in kinesitherapy						
Course content broken down in detail by weekly class schedule	 2. Effects of tr 3. Data collection 	ansforma ion and th hanges in	Conte formational protesse tional processe neir synthesis in musculoskele ber of teaching	ocesses in kin es in kinesithe n kinesitherap tal system	erapy Dy		Numb hou 2 3 3 2 2 3 3 10	urs
	☐ Iectures			independent		its		
Forms of instruction:	 ☑ seminars and wor □ exercises □ on line in entirely ☑ partial e-learning □ field work 	,		multimedia laboratory work with m	-			
Student responsibilities	Class attendance is r Studying, which enti Within the exam, stu topic and pass the o	itles stude udents ar	ents for a signa e required to w	ture to the co	ourse.	-		/en
Screening student	Class attendance	0.5	Research	1	Practical ti	raining		
work (specify the			Report Seminar					
work (specify the proportion of ECTS credits for each activity so that the	Experimental work Essay		-	0.5				

ECTS value of the course):	Written exam		Project									
Grading and evaluating student work in class and at the final exam	well as preparation oral exam. <i>Final grade shall ind</i> – preparation – presentation	 al grade shall include the following components: preparation and development of a seminar essay – 30% presentation of the seminar essay – 30% oral exam – 40% 										
		Title 1. Kendell, F., Kendell McCreary, E., Geise Provanc				Availability via other media						
Required literature (available in the library and via other	P., McIntyr Muscules t	 Kendell, F., Kendell McCreary, E., Geise Provance, P., McIntyre Rodgers, M., & Romani, W.A. (2005). Muscules testing an function with posture and pain. Lippincott Williams & Wilkins. 										
media)	2. Paušić, J., Reliability Assessing S Students. <i>Physiologic</i>	of a F tanding P <i>Journal</i>										
Optional literature	* other scien	tific pape	rs from the rele	evant databa	ses in kinesiolog	ıy						
Quality assurance methods that ensure the acquisition of exit competencies	questionnaire of the Kinesiology, Univers		•	Assurance and	d Improvement o	of the Faculty of						
Language/s of the course	Croatian English											

TITLE OF COURSE	KINE	MATIC ANALYSIS C	OF KINESIOLOGICAL ACTIVITIE	S			
Code	KKA		Year of study			2	
Course teacher/s		n Papić, PhD ofessor Tenure	Credit value (ECTS)			3	
Associate teachers			Instruction form (number of hours per semester)	L 10	S	E	F
Course status	electiv	ve course	Percentage of e-learning application			20%	
			COURSE DESCRIPTION				
Course objectives	activit metho	ies as well as to ac ods and recording s ch and apply new	ncrease knowledge in the area quire fundamentals of kinema systems, and movement detec methods based on ICT techno	itic analy tion. Stu	ysis by le udents sl	arning m nall be ab	odern le to conduct
Course enrolment requirements and entry competencies required for the course		d by the Regulatio rsity of Split	ns on Postgraduate Doctoral S	itudy of	the Facu	Ilty of Kin	esiology,
Learning outcomes expected at the course level (4 to 10 learning outcomes)	- to sp - to of - to ao - to	oorts and to analys write and present kinematic activitio argue critically fe ctivities and analys suggest equipment certain kinesiolog	t a review paper on contempo	rary solu in the a	utions fro area of re opment	om the ar ecognitior of system	rea of analysi n of sport ns for analysis
			Content				Number of hours
	1.	Introduction					1
	2.	Quantitative an	d qualitative analysis				2
Course content broken down in	3.	Examples of sys	tems				2
detail by weekly class schedule	4.	Tracking an obje	ect				1
	5.		2				
	6.		2 10				
			Number of teaching hours - 1	TOTAL			10
	☑ lect	ures		vendon+	assignm	ontr	
				chaent	assignin		

Forms of instruction:	 ✓ seminars and work □ exercises □ on line in entirely ✓ partial e-learning □ field work 		 ✓ multimedia □ laboratory ✓ work with mentor 								
Student responsibilities	which entitles studer	nts for a dents ar	signature to the	course.		grammes and Studying, ar essay on a given topic					
Screening student work (specify the	Class attendance	0.5	Research	0.5	Practical train	ing					
proportion of ECTS credits for each	Experimental work		Report								
activity so that the total number of	Essay		Seminar essay	1							
ECTS credits is equal to the ECTS value of	Tests Written exam		Oral exam Project	1							
Grading and evaluating student work in class and at the final exam	well as preparation a exam. <i>Final grade shall incl</i> – preparation – presentatior	 ocedure of evaluation includes student activities during classes, extra-curricular work as ell as preparation and development of a seminary essay, its presentation and the final oral am. <i>nal grade shall include the following components:</i> preparation and development of a seminar essay – 30% presentation of the seminar essay – 30% oral exam – 40% 									
	Title				Number of copies in the	Availability via other					
available in the					libraries	media					
Required literature (available in the library and via other media)		cs, Anal	Introduction to vsing Human Mo Routledge.	-	libraries	media moodle.kifst.hr					
(available in the	Biomechania	cs, Analy d ed.). F	ysing Human Mo Routledge.	-	libraries						
(available in the library and via other	Biomechania Patterns (2n 2. Papić, V., Leo 58. Allard, P., Ca Analysis of H 59. Stokes, I.A.F Movement. 60. Szelinski, R.	cs, Analy d ed.). F cture m apozzo, f luman L ., Allard Human (2011).	vsing Human Mor Routledge. aterials. A., Lundberg, A., .ocomotion. Chich , P., & Blanchi, J.E Kinetics. Computer vision,	& Vaugh hester: Jo 3. (1995) Algorith	libraries an, C. (1997). T ohn Wiley. . Three-Dimens ms and Applica	moodle.kifst.hr moodle.kifst.hr hree-Dimensional ional Analysis of Human					
(available in the library and via other media)	Biomechania Patterns (2n 2. Papić, V., Lee 58. Allard, P., Ca Analysis of F 59. Stokes, I.A.F Movement. 60. Szelinski, R. * other scient	cs, Analy d ed.). F cture m apozzo, <i>luman L</i> ., Allard Human (2011). ific pap Commit	vsing Human Mor Routledge. aterials. A., Lundberg, A., .ocomotion. Chick , P., & Blanchi, J.E Kinetics. Computer vision, ers from the relevent tee for Quality Association	& Vaugh hester: Jo 3. (1995) Algorith vant date	libraries an, C. (1997). T ohn Wiley. . Three-Dimens ms and Applica abases in kines	moodle.kifst.hr moodle.kifst.hr <i>hree-Dimensional</i> <i>ional Analysis of Human</i> <i>tions</i> . Springer. iology and technical					

TITLE OF COURSE	EXPERT SYSTEMS IN SPOR	RT					
Code	ESS	Year of study		2			
Course teacher/s	Nenad Rogulj, PhD Full Professor Vladan Papić, PhD Full Professor	Credit value (ECTS)		3			
Associate teachers		Instruction form (number of hours per semester)	L 10	S 0	E O	F	
Course status	elective course	Percentage of e-learning application		20	%		
	COL	JRSE DESCRIPTION	-				
Course objectives	To acquire competencies for the term of te	or individual development of al sport science research.	gorithms of	f expert	systems	and	
Course enrolment requirements and entry competencies required for the course	defined by the Regulations University of Split	on Postgraduate Doctoral Stud	y of the Fa	culty of	Kinesiolo	ogy,	
Learning outcomes expected at the course level (4 to 10 learning outcomes)	carning outcomes to develop procedures of kinesiological and anthropological sport analyses to evaluate new theories and facts from the area of expert systems in sport to manage research procedures from the area of expert systems in sport to use highly specialised knowledge for development of new methods of expert systems in sport to use advance knowledge and skills for integration of different areas in expert system						
		Content			Numb		
	 Definition, development and logical assumptions of expert systems (system shell, fuzzy logic, dynamic programming, fundamentals of neural networks, basis of artificial intelligence) 						
		Algorithm basis of expert system	ms		1		
	3. Tools for developm	nent of expert systems based or	n fuzzy logi	с	1		
Course content broken down in detail	4. orientation and ath	velopment of expert systems in hlete selection process			2		
by weekly class schedule		velopment of expert systems in atures of athletes and establishi odels	-	s of	1		
		velopment of expert systems for or skills and kinesiological struc ions		on and	2		
	7. Application and de parameter analyse	velopment of expert systems fo s of situational efficiency in spo	rts activitie		1		
	N.	umber of teaching hours - TOTA	AL		10	D	
Forms of instruction:	☑ lectures ☑ independent assignments ☑ seminars and workshops □ multimedia □ exercises □ laboratory □ on line in entirely ☑ work with mentor ☑ partial e-learning ☑						

Student responsibilities	Studying, which enti Within the exam, stu	lass attendance is mandatory according to Regulations on Study Programmes and tudying, which entitles students for a signature to the course. Vithin the exam, students are required to write and present a seminar essay on a given opic and pass the oral exam.								
Screening student work (specify the	Class attendance	0,5	Research	0,5	Practical trainin	g				
proportion of ECTS	Experimental work		Report							
credits for each activity so that the	Essay		Seminar essay	1						
total number of ECTS credits is equal to the	Tests		Oral exam	1						
ECTS value of the course):	Written exam		Project							
Grading and evaluating student work in class and at the final exam	well as preparation a oral exam. Final grade shall inc – preparation – presentatio	 edure of evaluation includes student activities during classes, extra-curricular work as as preparation and development of a seminary essay, its presentation and the final exam. grade shall include the following components: preparation and development of a seminar essay – 40% presentation of the seminar essay – 30% oral exam – 30% 								
		Tit	Number of copies in the libraries	Availability via other media						
Required literature (available in the library and via other media)	 Giarratano, Systems: Pl Course Tec 		moodle.kifst.hr							
incula)	2. Jakson, P. (1998). Introduction to Expert System (3rd ed.). Addison-Wesley.									
Optional literature	Nort-Holan 62. Dežman, B. making syst basketball p 63. Mallach, E. Illinois: Irwi 64. Munroe-Ch Activity. Ath 65. Negnevitsk 66. Papić, V., R web-orient Application	 61. Chankong, V., & Haimes, Y.Y. (1983). <i>Multiobjective Decision Making</i>. New York: Nort-Holand. 62. Dežman, B., Trninić, S., & Dizdar, D. (2001). Models of expert system and decision- making systems for efficient assessment of potential and actual quality of basketball players. <i>Kinesiology, 32</i> (2), 207-215. 63. Mallach, E.G. (1994). <i>Understanding decision support system and expert system</i>. Illinois: Irwin. 64. Munroe-Chandler, K.J. (2005). A Discussion on Qualitative Research in Physical Activity. <i>Athletic Insight, 7</i> (1), 67-81. 65. Negnevitsky, A. (2002). <i>Artificial intelligence</i>. Addison-Wesley. 66. Papić, V., Rogulj, N., & Pleština, V. (2009). Identification of sport talents using a web-oriented expert system with a fuzzy module. <i>Expert Systems with</i> <i>Applications. 36</i> (5), 8830-8838. * other scientific papers from the relevant databases in kinesiology and technical 								
Quality assurance methods that ensure the acquisition of exit competencies	questionnaire of the Kinesiology, Univers		-	ssurance an	d Improvement o	of the Faculty of				
Language/s of the course	Croatian English									

TITLE OF COURSE	DIAGNOSTICS AND	METHOD	OLOGY IN K	INESIOLOGICAI	RECREAT		FITNESS	5
Code	DMRF		Year of stud	dy		2		
Course teacher/s	Assistant Professor Čular, PhD Assistant Professor Ivančev, PhD		Credit value	e (ECTS)		3		
Associate teachers				e (ECTS) form (number er semester)	L 10	S 0	E O	F
Course status	elective course		Percentage application	of e-learning		20	%	
		COURS	SE DESCRIPTI	ON	-			
Course objectives	To teach students in recreation and fitne	-	ation of scier	ntific research i	n the area	of kinesi	ological	
Course enrolment requirements and entry competencies required for the course	defined by the Regu University of Split	llations on	n Postgraduat	te Doctoral Stu	dy of the F	aculty of	Kinesiolo	ogy,
Learning outcomes expected at the course level (4 to 10 learning outcomes)	fitness – to define goal, s – to develop an e	to find and analyse the previous research in the area of kinesiological recreation and						and
		nd other s	Cont ources in the	ent e area of kinesio	ological re	creation	Numbe hou	
A	and fitness							
Course content broken down in detail	2. Experimenta 3. Advanced te			ction			2	
by weekly class				blishing health	status and		2	
schedule				of recreational			2	
	5	-		lection of type,	intensity	and	2	
	frequency of			ng hours - TOT	AL		10)
				0				
Forms of instruction:	 ✓ lectures ✓ seminars and word □ exercises □ on line in entirely ✓ partial e-learning □ field work 	seminars and workshops I multimedia exercises I laboratory on line in entirely I work with mento partial e-learning				nts		
	Class attendance is Studying, which ent			-		rogramm		
Student responsibilities	Within the exam, str topic and pass the o		e required to		ent a sem	inar essa	y on a giv	ren
	Within the exam, st		e required to		ent a sem Practical		y on a giv	ven

credits for each	Essay		Seminar essay	1.7						
activity so that the total number of ECTS	Tests		Oral exam	1						
credits is equal to the ECTS value of the course):	Written exam		Project							
Grading and evaluating student work in class and at the final exam	well as preparation a oral exam. <i>Final grade shall inc</i> – preparation – presentatio	 grade shall include the following components: preparation and development of a seminar essay – 40% presentation of the seminar essay – 30% oral exam – 30% 								
		Tit	Number of copies in the libraries	Availability via other media						
	 Jurko, D., (2015). Os fakultet Sve 	<i>nove kir</i> eučilišta u								
Required literature (available in the library and via other media)	2. Corbin, C.B. (2016). Co. <i>Comprehen</i> New York, N	ncepts o sive Life								
	 Andrijaševio Zagreb: K Zagrebu. 	ć, M. (20 ineziološl	1							
		<i>tests.</i> Elec	2005). 101 F ctric Word pl.	Performance	1					
	5. Lecture ma					moodle.kifst.hr				
Optional literature	Duraković (Ed.). Zagr	1. et al. (1999). 7j reb: Kineziološki e rs from the rele	fakultet Sveu	ıčilišta u Zagreb	u.				
Quality assurance methods that ensure the acquisition of exit competencies	questionnaire of the Kinesiology, Univers		-	ssurance and	I Improvement o	of the Faculty of				
Language/s of the course	Croatian English									

TITLE OF COURSE	SELECTED CHAPTERS ON D	ECVELOPMENTAL PSYCHOLOG	iΥ					
Code	PRZP	Year of study		2				
Course teacher/s	Goran Kardum, PhD Associate Professor Ina Reić Ercegovac, PhD Assistant Professor	Credit value (ECTS)		3				
Associate teachers		Instruction form (number of hours per semester)	L 10	S 0	E O	F		
Course status	elective course	Percentage of e-learning application		20	%	-		
	COUF	RSE DESCRIPTION						
Course objectives	To train students in understa kinesiology.	anding scientific aspects of dev	velopmer	ntal psych	nology in			
Course enrolment requirements and entry competencies required for the course	defined by the Regulations o University of Split	on Postgraduate Doctoral Stud	y of the F	aculty of	Kinesiol	ogy,		
Learning outcomes expected at the course level (4 to 10 learning outcomes)	 to analyse influence of I to critically evaluate the to analyse changes in co childhood and adolesce to analyse psychologica 	arning outcomes to analyse influence of heritage and environment to developmental processes to critically evaluate theories and approaches of developmental processes to analyse changes in cognitive, motor, emotional and social development from childhood and adolescence to analyse psychological determinants of doing sports and motivation for physical activities in children and adolescents						
		Content			Numb			
		aches in research of child devel	opment		2	2		
Course content		perceptive development			1	-		
broken down in detail	4. Cognitive developme				1			
by weekly class schedule		nges in memorising and proble			1			
schedule	6. social development	nent and expressing emotions; in childhood and adolescence pmental crisis; emotions and r	, develop	ment of	1			
		r, cognitive, social and emotio r sports activities in childhood a		•	2	2		
	Nur	nber of teaching hours - TOTA	L		1	0		
Forms of instruction:	 ✓ lectures ✓ seminars and workshops □ exercises □ on line in entirely ✓ partial e-learning □ field work 	 ☑ independent a □ multimedia □ laboratory ☑ work with me 		nts				
Student responsibilities	Class attendance is mandate	ا ory according to Regulations or dents for a signature to the cou	-	rogramm	ies and			

		thin the exam, students are required to write and present a seminar essay on a given ic and pass the oral exam.								
Screening student work (specify the	Class attendance	0.5	Research	0.5	Practical trainin	g				
proportion of ECTS	Experimental work		Report							
credits for each activity so that the	Essay		Seminar essay	1						
total number of ECTS credits is equal to the	Tests		Oral exam	1						
<i>ECTS value of the course):</i>	Written exam		Project							
Grading and evaluating student work in class and at the final exam		and devel c lude the , n and dev on of the s	opment of a ser	ninary essay onents: eminar essay	r, its presentation y – 40%					
Required literature (available in the		Tit	Number of copies in the libraries	Availability via other media						
library and via other media)	17. Vasta, R., Dječja psih	ologija. Ja		us a alla hifat hu						
Optional literature	 Brajša-Žgar Klarin, M. (Lacković-Gi Oatley, K., Slap. ther scien 	 Klarin, M. (2006). Razvoj djece u socijalnom kontekstu. Jastrebarsko: Naklada Slap. Lacković-Grgin, K. (2005). Psihologija adolescencije. Jastrebarsko: Naklada Slap. Oatley, K., & Jenkins, J.M. (2001). Razumijevanje emocija. Jastrebarsko: Naklada Slap. 								
Quality assurance methods that ensure the acquisition of exit competencies	questionnaire of the Kinesiology, Univers			ssurance an	d Improvement (of the Faculty of				
Language/s of the course	Croatian English									

TITLE OF COURSE	NEUROPHISIOLOGI		S OF MOVEME	NT				
Code	NOUP		Year of study			2		
Course teacher/s	Slobodan Jarić, PhD Full Professor Tenure	e	Credit value			3		
Associate teachers			Instruction for of hours per	orm (number semester)	L 10	S O	E O	F
Course status	elective course		Percentage c application		10	209	_	
		COURS		N				
Course objectives	To introduce student movement control, i system in movemen	ts to the s nteractio	structure of ce ons of nervous	ntral and peri	-	-		
Course enrolment requirements and entry competencies required for the course	defined by the Regul University of Split	lations or	n Postgraduate	Doctoral Stu	dy of the F	aculty of	Kinesiol	ogy,
Learning outcomes expected at the course level (4 to 10 learning outcomes)	understanding n – to understand b muscle mechani	arning outcomes to apply fundamental knowledge on elements of neuromuscular system in understanding mechanical features of voluntarily movements to understand boundaries of motor activities which origin from neural control and muscle mechanics to understand behaviourist aspects of motor learning and motor control						
Course content broken down in detail by weekly class schedule	 Structure, fu Sensory and Reflexes. Structure of Motor functi Model of neu 	 Structure, function and mechanical characteristics of muscles. Sensory and motor neuron and spinal reflexes. Reflexes. Structure of central nervous system. Motor function of cortex, cerebellum, brainstem and basal ganglia. Model of neural movement control. 					Numb hou 1 1 1 1 1 1 1 1 1 2 2 2 2 2 10	
Forms of instruction:	 □ exercises □ on line in entirely ☑ partial e-learning □ field work 	☑ seminars and workshops □ multimedia □ exercises □ laboratory □ on line in entirely ☑ work with mentor ☑ partial e-learning ☑						
Student responsibilities	Studying, which enti Within the exam, stu	eld work s attendance is mandatory according to Regulations on Study Programmes and dying, which entitles students for a signature to the course. hin the exam, students are required to write and present a seminar essay on a given ic and pass the written and oral exam.						ven
Screening student work (specify the	Class attendance	0,5	Research		Practical	training		
proportion of ECTS credits for each	Experimental work Essay		Report Seminar essa	y 0,5				

activity so that the total number of ECTS credits is equal to the ECTS value of the course):	Tests		Oral exam	1		
	Written exam	1	Project			
Grading and evaluating student work in class and at the final exam	 Procedure of evaluation includes student activities during classes, extra-curricular work as well as preparation and development of a seminary essay, its presentation and the final oral exam. <i>Final grade shall include the following components:</i> preparation and development of a seminar essay – 30% presentation of the seminar essay – 30% oral exam – 40% 					
Required literature (available in the library and via other media)	Title				Number of copies in the libraries	Availability via other media
	 Latash, M. (2008). Neurophysiological Basis of Movement (2nd ed.). Human Kinetics. 					moodle.kifst.hr
	 Fundamental textbook in physiology – selected chapters 					moodle.kifst.hr
Optional literature	* other scientific papers from the relevant databases in kinesiology					
Quality assurance methods that ensure the acquisition of exit competencies	questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split					
Language/s of the course	Croatian English					