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

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	KMK	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	KAAB	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	KAAP	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	OPKM	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	TUKP	3	3	10
Professor Vladan Papić, PhD	KINEMATIC ANALYSIS OF KINESIOLOGICAL ACTIVITIES	KKA	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

<table>
<tr><td>TITLE OF COURSE</td><td colspan="5">RESEARCH METHODOLOGY IN KINESIOLOGY</td></tr>
<tr><td>Code</td><td>MZIK</td><td>Year of study</td><td colspan="3">1</td></tr>
<tr><td>Course teacher/s</td><td>Josip Babin, PhD
Full Professor Tenure
Zoran Grgantov, PhD
Full Professor
Dražen Čular, PhD
Assistant Professor
Mirjana Milić, PhD
Assistant Professor
Johnny Padulo, PhD</td><td>Credit value (ECTS)</td><td colspan="3">6</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>25</td><td>0</td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>compulsory course</td><td>Percentage of e-learning application</td><td colspan="3">20%</td></tr>
<tr><td colspan="6">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="5">To acquire competencies necessary for development and presentation of research designs in the area of kinesiology.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="5">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="5">Learning outcomes
– 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
– to present the research design in front of a committee in the allotted time</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="5">
<table>
<tr><th></th><th>Content</th><th>Number of hours</th></tr>
<tr><td>1.</td><td>Introduction; Course requirements; Postpositivist, constructive, transformative and pragmatic assumptions; Tradition of research; Nature of research; Non-scientific and scientific problem solving methods</td><td>3</td></tr>
<tr><td>2.</td><td>Types of research; Introduction to research process</td><td>2</td></tr>
<tr><td>3.</td><td>Strategies of literature search, Formulating the research problem and hypothesis</td><td>2</td></tr>
<tr><td>4.</td><td>Methodology: respondents, instruments, procedures, design and analyses</td><td>2</td></tr>
<tr><td>5.</td><td>Functional diagnostics in kinesiology</td><td>4</td></tr>
<tr><td>6.</td><td>Neuromuscular diagnostics in kinesiology</td><td>4</td></tr>
<tr><td>7.</td><td>Review (evaluation) of scientific articles</td><td>2</td></tr>
</table>
</td></tr>
</table>

8.	Ethical issues in scientific research		2
9.	Suggestions of research topics; Doctoral dissertation topic proposal		2
10.	Writing and development of scientific paper; Results presentation		2
	Number of teaching hours - TOTAL		**25**

Forms of instruction:	☑ lectures ☑ seminars and workshops ☐ exercises ☐ *on line* in entirely ☑ partial e-learning ☐ field work	☑ independent assignments ☐ multimedia ☐ laboratory ☑ work with mentor
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 topic and pass the oral exam.	

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	1	Research	1	Practical training	
	Experimental work	1	Report			
	Essay		Seminar essay	2		
	Tests		Oral exam	1		
	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%

	Title	**Number of copies in the libraries**	**Availability via other media**
Required literature (available in the library and via other media)	1. Thomas, J.R., Silverman, S., & Nelson, J. (2015). *Research Methods in Physical Activity* (7th ed.). Human kinetics.	5	moodle.kifst.hr
	2. Creswell, J.W. (2014). *Research design: Qualitative, quantitative, and mixed methods approaches* (4th ed.). Thousand Oaks, CA: Sage.		moodle.kifst.hr

Optional literature	1. Atkinson, G., & Nevill, A.M. (2001). Selected issues in the design and analysis of sport performance research. *Journal of Sports Sciences, 19*, 811-827. 2. Gilbert, D.W., & Trudel, P. (2004). Analysis of Coaching Science Research Published From 1970-2001. *Research Quarterly for Exercise and Sport 75* (4), 388-399. 3. Gratton, C., & Jones, I. (2004). *Research Methods for Sport Studies*. New York: Routledge. 4. Hopkins, G.W. (2000). Measures of Reliability in Sports Medicine and Science. *Sports Med, 30* (1), 1-15. 5. 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. *British Journal of Sports Medicine, 45* (11), 923-30.

	6. Munroe-Chandler, K.J. (2005). A Discussion on Qualitative Research in Physical Activity. *Athletic Insight, 7* (1), 67-81. 7. Padulo, J., Chamari, K., & Ardigo L.P. (2014) Walking and running on treadmill: The standard chriteria for kinematics studies. *Muscles, ligaments and tendons journal 4* (2), 159-162. 8. Padulo. J., Oliva, F., Frizziero, A., & Maffulli, N. (2016). Basic principles and recommendations in clinical and field Science Research: Update 2016. *Muscles, Ligaments and Tendons Journal, 6* (1), 1-5. 9. Winter, M.E., & Fowler, N. (2009). Exercise defined and quantified according to the Système International d'Unités. *Journal of Sports Sciences, 27* (5), 447-460. 10. Winter, M.E (2012). Calibration and verification of instruments. *Journal of Sports Sciences, 30* (12), 1197-1198. * ***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

<table>
<tr><td>TITLE OF COURSE</td><td colspan="5">QUANTITATIVE METHODS AND KINESIOMETRY</td></tr>
<tr><td>Code</td><td>KMK</td><td>Year of study</td><td colspan="3">1</td></tr>
<tr><td>Course teacher/s</td><td>Assistant Professor Igor Jelaska, PhD
Full Professor Nenad Rogulj, PhD
Associate Professor Jelena Paušić, PhD</td><td>Credit value (ECTS)</td><td colspan="3">6</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>25</td><td>0</td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>compulsory course</td><td>Percentage of e-learning application</td><td colspan="3">20%</td></tr>
<tr><td colspan="6">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="5">To acquire competencies necessary for application and evaluation of statistical procedures in processes of scientific research in kinesiology.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="5">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="5">Learning outcomes
– to apply different statistical package for data processing
– to argument application of adequate statistical procedures
– to compare different types of research in the area of kinesiology
– to develop and test psychometrically new measuring instruments in the area of kinesiology
– to develop research design in the area of kinesiology
– to present research design in front of the committee in the time allotted</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="5"><table>
<tr><th></th><th>Content</th><th>Number of hours</th></tr>
<tr><td>1.</td><td>Introduction to methods of data analysis, Basic terminology and operations of linear algebra</td><td>2</td></tr>
<tr><td>2.</td><td>t-test, ANOVA, MANOVA</td><td>4</td></tr>
<tr><td>3.</td><td>Discriminant analysis</td><td>4</td></tr>
<tr><td>4.</td><td>Factor analysis, Regression analysis</td><td>4</td></tr>
<tr><td>5.</td><td>Canonical correlation analysis, Taxonomic analysis</td><td>3</td></tr>
<tr><td>6.</td><td>Kinesiometry (basic terminology of kinesiometry, development of a measuring instrument, determining metric characteristics, reliability, objectiveness, sensibility, homogeneity, validity)</td><td>3</td></tr>
<tr><td>7.</td><td>Nonparametric methods</td><td>3</td></tr>
<tr><td>8.</td><td>Qualitative research methodology</td><td>2</td></tr>
<tr><td></td><td>Number of teaching hours - TOTAL</td><td>25</td></tr>
</table></td></tr>
<tr><td>Forms of instruction:</td><td colspan="2">☑ lectures
☑ seminars and workshops
☐ exercises
☐ on line in entirely
☑ partial e-learning
☐ field work</td><td colspan="3">☑ independent assignments
☐ multimedia
☐ laboratory
☑ work with mentor</td></tr>
</table>

<table>
<tr><td>Student responsibilities</td><td colspan="6">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.</td></tr>
<tr><td rowspan="5">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):</td><td>Class attendance</td><td>1</td><td>Research</td><td>1</td><td>Practical training</td><td></td></tr>
<tr><td>Experimental work</td><td>1</td><td>Report</td><td></td><td></td><td></td></tr>
<tr><td>Essay</td><td></td><td>Seminar essay</td><td>2</td><td></td><td></td></tr>
<tr><td>Tests</td><td></td><td>Oral exam</td><td>1</td><td></td><td></td></tr>
<tr><td>Written exam</td><td></td><td>Project</td><td></td><td></td><td></td></tr>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="6">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%</td></tr>
<tr><td rowspan="4">Required literature (available in the library and via other media)</td><td colspan="3">Title</td><td>Number of copies in the libraries</td><td>Availability via other media</td></tr>
<tr><td colspan="3">1. Thomas, J.R., Silverman, S., & Nelson, J. (2015). Research Methods in Physical Activity (7th ed.). Human kinetics.</td><td>5</td><td>moodle.kifst.hr</td></tr>
<tr><td colspan="3">2. Vincent, W., & Weir, J. (2012). Statistics in kinesiology (4th ed.). Human Kinetics.</td><td>5</td><td>moodle.kifst.hr</td></tr>
<tr><td colspan="3">3. Dizdar, D. (2006). Kvantitativne metode. Zagreb: Kineziološki fakultet Sveučilišta u Zagrebu.</td><td>1</td><td></td></tr>
<tr><td>Optional literature</td><td colspan="6">1. Mendenhall, W., & Sincich, T. (1988). Statistics for the Engineering and Computer Sciences. San Francisco: Dellen Publishing Company and Collier MacMillan Publishers.
2. Sharma, S. (1996). Applied Multivariate Techniques. New York: Wiley & Sons, Inc.
3. 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</td></tr>
<tr><td>Quality assurance methods that ensure the acquisition of exit competencies</td><td colspan="6">questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Language/s of the course</td><td colspan="6">Croatian
English</td></tr>
</table>

<table>
<tr><td>TITLE OF COURSE</td><td colspan="5">SYSTEMS OF SCIENTIFIC RESEARCH IN APPLIED KINESIOLOGY</td></tr>
<tr><td>Code</td><td>SZPK</td><td>Year of study</td><td colspan="3">1</td></tr>
<tr><td>Course teacher/s</td><td>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</td><td>Credit value (ECTS)</td><td colspan="3">7</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>30</td><td>0</td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>compulsory course</td><td>Percentage of e-learning application</td><td colspan="3">20%</td></tr>
<tr><td colspan="6">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="5">Acquiring competencies necessary for planning and implementation of scientific research in the areas of applied kinesiology as well as for development of a scientific paper and research findings.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="5">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="5">Learning outcomes
– 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
– to present results of scientific research in front of the committee in the time allotted</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="5"><table>
<tr><th></th><th>Content</th><th>Number of hours</th></tr>
<tr><td>1.</td><td>Sociohistorical processes in sport studies</td><td>1</td></tr>
<tr><td>2.</td><td>Philosophical research in physical activity</td><td>1</td></tr>
<tr><td>3.</td><td>Research synthesis (meta-analysis)</td><td>3</td></tr>
<tr><td>4.</td><td>Data collection (questionnaires, electronic surveys, Delphi method, personal interviews, normative surveys)</td><td>4</td></tr>
<tr><td>5.</td><td>Other descriptive research methods (developmental research, case analyses, activity analysis, observation method, unobtrusive research techniques, correlational research)</td><td>4</td></tr>
<tr><td>6.</td><td>Epidemiology research of physical activity</td><td>4</td></tr>
<tr><td>7.</td><td>Experimental and quasi-experimental research</td><td>4</td></tr>
<tr><td>8.</td><td>Qualitative research</td><td>6</td></tr>
<tr><td>9.</td><td>Mixed-methods research</td><td>3</td></tr>
</table></td></tr>
</table>

	Number of teaching hours - TOTAL					**30**
Forms of instruction:	☑ lectures ☑ seminars and workshops ☐ exercises ☐ *on line* in entirely ☑ partial e-learning ☐ field work		☑ independent assignments ☐ multimedia ☑ laboratory ☑ work with mentor			
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 topic and pass the oral exam.					
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	1	Research	1	Practical training	
	Experimental work	2	Report			
	Essay		Seminar essay	2		
	Tests		Oral exam	1		
	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 – 40% – presentation of the seminar essay – 30% – oral exam – 30%					

Required literature (available in the library and via other media)	**Title**	**Number of copies in the libraries**	**Availability via other media**
	1. Thomas, J.R., Silverman, S., & Nelson, J. (2015). *Research Methods in Physical Activity* (7th ed.). Human kinetics.	5	moodle.kifst.hr

Optional literature
1. 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. 2. Bavčević, T. (2016). Interpersonal Communication in Education – Analysis and Systematisation of Research Directions. *Croatian Journal of Education, 18* (4), 1201-1233. 3. Bishop, D. (2008). An Applied Research Model for the Sport Sciences. *Sports Med, 38* (3), 253-263 4. Woods, D.M, Agarwal, S. Jones, D., Young, B., & Sutton, A. (2005). Synthesising qualitative and quantitative evidence: a review of possible methods. *Journal of Health Services Research & Policy, 10* (1), 45–53. 5. Kolar, P. (2014). *Clinical rehabilitation*. Alena Kobesová. 6. Tenenbaum, G., Eklund, R.C., & Kamata, A. (2012). *Measurement in Sport and Exercise Psychology.* Champaign, USA: Human Kinetics. * ***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

<table>
<tr><td>TITLE OF COURSE</td><td colspan="5">RESEARCH OF ANTHROPOLOGICAL STATUS IN KINESIOLOGY</td></tr>
<tr><td>Code</td><td>IAS</td><td>Year of study</td><td colspan="3">2</td></tr>
<tr><td>Course teacher/s</td><td>Đurđica 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</td><td>Credit value (ECTS)</td><td colspan="3">7</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>30</td><td>0</td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>compulsory course</td><td>Percentage of e-learning application</td><td colspan="3">20%</td></tr>
<tr><td colspan="6">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="5">To acquire competencies necessary for development and presentation of research papers from the area of anthropological status in kinesiology.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="5">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="5">Learning outcomes
– to critically review previous research from the area of anthropological status in kinesiology
– to develop experimental designs for research implementation in the area of anthropological status in kinesiology
– to carry out research from the area of anthropological status in kinesiology
– to analyse and interpret results obtained from anthropological research in kinesiology
– to present results of implemented research in given time
– to critically review presented scientific papers</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="5"><table>
<tr><th></th><th>Content</th><th>Number of hours</th></tr>
<tr><td>1.</td><td>Generally on characteristics of scientific research in the area of combat sports</td><td>1</td></tr>
<tr><td>2.</td><td>A review of previous research in combat sports</td><td>1</td></tr>
<tr><td>3.</td><td>Characteristics of more and less successful projects in the area of combat sports</td><td>2</td></tr>
<tr><td>4.</td><td>Valorisation of scientific research in the area of combat sports</td><td>2</td></tr>
<tr><td>5.</td><td>Assessment of previous research on anthropological status in sports games</td><td>3</td></tr>
<tr><td>6.</td><td>Presenting conducted research on anthropological status in sports games</td><td>3</td></tr>
<tr><td>7.</td><td>Studying the process of motor learning within the anthropological status</td><td>2</td></tr>
</table></td></tr>
</table>

	8.	Assessment of previous research on anthropological status in physical conditioning of athletes	2
	9.	Valorisation of scientific research in athletics	2
	10.	Anthropological status research in aesthetic sports	4
	11.	Anthropological status research in preschool children	2
	12.	Anthropological status research in children of early school age	3
	13.	Development of evaluation criteria for motor skills	3
		Number of teaching hours - TOTAL	**30**

Forms of instruction:	☑ lectures ☑ seminars and workshops ☐ exercises ☐ *on line* in entirely ☑ partial e-learning ☐ field work	☑ independent assignments ☐ multimedia ☐ laboratory ☑ work with mentor
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 topic and pass the oral exam.	

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	1	Research	2	Practical training	
	Experimental work		Report			
	Essay		Seminar essay	2		
	Tests		Oral exam	2		
	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 media)	**Title**	**Number of copies in the libraries**	**Availability via other media**
	1. Thomas, J.R., Silverman, S., & Nelson, J. (2015). *Research Methods in Physical Activity* (7th ed.). Human kinetics.	5	moodle.kifst.hr
	2. Lecture materials.		moodle.kifst.hr

Optional literature	1. Drid, P. (ed.). (2017). *Science and Medicine in Combat Sports.* New York:Nova Science Publishers Inc. 2. Pulkkinen, W.J. (2001). *The sport science of elite judo athletes: A review & application for training.* Ontario Canada: Pulkintics Inc. 3. Baily, R., Collins, D., Ford, P., MacNamara, A., Toms, M., & Pearce, G. (2010). *Participant development in sport: An academic review.* Leeds: Sports Coach UK. Commissioned report for Sports Coach UK.

	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. *Sports Medicine, 43*, 783-802. * ***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

2.2. Elective courses

2.2.1. Semester I

<table>
<tr><td>TITLE OF COURSE</td><td colspan="5">MOTOR LEARNING AND MOTOR SKILLS</td></tr>
<tr><td>Code</td><td>MUMZ</td><td>Year of study</td><td colspan="3">1</td></tr>
<tr><td>Course teacher/s</td><td>Đurđica Miletić, PhD
Full Professor Tenure</td><td>Credit value (ECTS)</td><td colspan="3">3</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>10</td><td></td><td></td><td></td></tr>
<tr><td>Course status</td><td>elective course</td><td>Percentage of e-learning application</td><td colspan="3">20%</td></tr>
<tr><td colspan="6">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="5">To acquire competencies necessary for development and evaluation of new procedures in the process of motor learning.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="5">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="5">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</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="5"><table>
<tr><th></th><th>Content</th><th>Number of hours</th></tr>
<tr><td>1.</td><td>Phylogenetic and ontogenetic approach to teaching motor skills; Hierarchies and taxonomy of the movement; Theories of formation of motor programme; Application of docimological research in kinesiology of motor learning</td><td>3</td></tr>
<tr><td>2.</td><td>Analyses of the feedback in motor learning (performance knowledge, performance result, efficiency of the descriptive and prescriptive feedback)</td><td>2</td></tr>
<tr><td>3.</td><td>Kinesiological procedures of development and evaluation of measuring instruments for assessment of the level of motor skills; Analyses of relevant research in motor learning and motor skilla</td><td>3</td></tr>
<tr><td>4.</td><td>Design of a problem, objective and work methods for a scientific seminar essay in development of new procedures and the process motor learning</td><td>2</td></tr>
<tr><td></td><td>Number of teaching hours - TOTAL</td><td>10</td></tr>
</table></td></tr>
<tr><td>Forms of instruction:</td><td colspan="2">☑ lectures
☑ seminars and workshops
☐ exercises</td><td colspan="3">☑ independent assignments
☐ multimedia
☐ laboratory</td></tr>
</table>

	☐ *on line* in entirely ☑ partial e-learning ☐ field work	☑ work with mentor
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 topic and pass the oral exam.	

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	0.2	Research	0.3	Practical training	
	Experimental work	0.5	Report			
	Essay		Seminar essay	1		
	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 library and via other media)	**Title**	**Number of copies in the libraries**	**Availability via other media**
	1. Coker, C.A, (2013). *Motor Learning and Control for Practitioners.* HH Publishers.	1	
	2. Schmidt, R.A., & Lee, T.D. (2015). *Motor Learning and Performace.* Human Kinetics.	1	

Optional literature	1. Schmidt, R.A., & Lee, T.D. (2005). *Motor control and learning: a behaviour emphasis.* Human Kinetics. 2. Schmidt, R.A., & Wrisberg, C.A. (2000). *Motor learning and performance.* Human Kinetics. * ***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

<table>
<tr><td>TITLE OF COURSE</td><td colspan="5">REGULARITIES OF DEVELOPMENTAL PROCESSES IN KINESIOLOGY</td></tr>
<tr><td>Code</td><td>ZRK</td><td>Year of study</td><td colspan="3">1</td></tr>
<tr><td>Course teacher/s</td><td>Nebojša Zagorac, PhD
Full Professor</td><td>Credit value (ECTS)</td><td colspan="3">3</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>10</td><td>0</td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>elective course</td><td>Percentage of e-learning application</td><td colspan="3">20%</td></tr>
<tr><td colspan="6">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="5">To acquire competencies necessary for understanding and analysis of developmental processes in kinesiology.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="5">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="5">Learning outcomes
– 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 kinesiology</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="5"><table>
<tr><th></th><th>Content</th><th>Number of hours</th></tr>
<tr><td>1.</td><td>Growth and development trends; intercorrelation processes of biological and psychosocial factors; environmental and health factors</td><td>2</td></tr>
<tr><td>2.</td><td>Regularities on some system elements of human development, developmental curves, or stages of human development</td><td>1</td></tr>
<tr><td>3.</td><td>Variability of some elements of human development under the influence of differently dosed kinesiological procedures</td><td>1</td></tr>
<tr><td>4.</td><td>Fundamental features of anthropological development</td><td>1</td></tr>
<tr><td>5.</td><td>Identification of the process of anthropological development</td><td>1</td></tr>
<tr><td>6.</td><td>Composing and decomposing features of developmental processes</td><td>1</td></tr>
<tr><td>7.</td><td>Morphological, motor, physiological and psychological developmental processes</td><td>1</td></tr>
<tr><td>8.</td><td>Relations of morphological, motor, physiological, cognitive and conative developmental processes and kinesiological activity</td><td>2</td></tr>
<tr><td></td><td>Number of teaching hours - TOTAL</td><td>10</td></tr>
</table></td></tr>
<tr><td>Forms of instruction:</td><td colspan="2">☑ lectures
☑ seminars and workshops
☐ exercises
☐ on line in entirely
☑ partial e-learning
☐ field work</td><td colspan="3">☑ independent assignments
☐ multimedia
☐ laboratory
☑ work with mentor</td></tr>
<tr><td>Student responsibilities</td><td colspan="5">Class attendance is mandatory according to Regulations on Study Programmes and Studying, which entitles students for a signature to the course.</td></tr>
</table>

	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 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	
	Experimental work		Report			
	Essay		Seminar essay	1		
	Tests		Oral exam	1		
	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%%

	Title	**Number of copies in the libraries**	**Availability via other media**
Required literature (available in the library and via other media)	1. Fajgelj, S., Bala, G., & Katić, R. (2010). Latent Structure of Raven's Colored Progressive Matrices. *Coll Antropol, 34* (3), 1015-1026.		moodle.kifst.hr
	2. Katić, R., Blažević, S., & Zagorac, N. (2010). The impact of basic motor abilities on the specific motoricity performance in elite karateka. *Coll Antropol, 34* (4), 1341-1345.		moodle.kifst.hr
	3. Bala, G., Jakšić, D., & Katić, R. (2009). Trend of relations between morphological characteristics and motor abilities in preschool children. *Coll Antropol, 33* (2), 373-385.		moodle.kifst.hr
	4. Bala, G., & Katić, R. (2009). Hypothetical model in testing integrated development of preschool children. *Coll Antropol*, *33* (2), 353-362.		moodle.kifst.hr
	5. Bala, G., & Katić, R. (2009). Sex differences in anthropometric characteristics, motor and cognitive functioning in preschool children at the time of school enrolment. *Coll Antropol, 33* (4), 1071-1078.		moodle.kifst.hr

Optional literature	1. Gudelj, I., Milat, S., Retelj, E., Zagorac, N., Ljubić, M., & Katić, R. (2009). Sex differences in morphological dimensions in twelve-year-old children from Imotska Krajina. *Coll Antropol, 33* (1), 131-138. 2. Bavčević, T., Zagorac, N., & Katić, R. (2008). Development of biomotor characteristics and athletic abilities of sprint and throw in boys aged six to eight years. *Coll Antropol, 32* (2), 433-441. 3. Katić, R., Retelj, E., Milat, S., Ivanišević, S., & Gudelj, I. (2008). Development of motor and specific motor abilities for athletics in elementary school male and female first-graders. *Coll Antropol, 32* (4), 1141-1147. 4. Zagorac, 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. *Coll Antropol, 32* (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 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

<table>
<tr><td>TITLE OF COURSE</td><td colspan="5">KINESIOLOGY OF EDUCATION</td></tr>
<tr><td>Code</td><td>KED</td><td>Year of study</td><td colspan="3">1</td></tr>
<tr><td>Course teacher/s</td><td>Vladimir Findak, PhD
Professor Emeritus</td><td>Credit value (ECTS)</td><td colspan="3">3</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>10</td><td>0</td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>elective course</td><td>Percentage of e-learning application</td><td colspan="3">20%</td></tr>
<tr><td colspan="6">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="5">To acquire competencies necessary for understanding ontological determinants as well as analysis of developmental trends and social aspects of kinesiological education.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="5">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="5">Learning outcomes
– to understand theoretical determinants of kinesiology in education
– to analyse trends in the area of kinesiology in education
– to analyse programmes in kinesiological education
– to analyse the role of kinesiological education in different social aspects</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="5"><table>
<tr><th></th><th>Content</th><th>Number of hours</th></tr>
<tr><td>1.</td><td>Theoretical determinants of kinesiology of education</td><td>2</td></tr>
<tr><td>2.</td><td>Trends in kinesiology and education</td><td>2</td></tr>
<tr><td>3.</td><td>Relation of kinesiology of education with educational sciences</td><td>1</td></tr>
<tr><td>4.</td><td>Basic determinants of educational process, teaching process and process of physical activity in working with children, pupils and youth</td><td>1</td></tr>
<tr><td>5.</td><td>Kinesiological culture in primary schools and differential programmes</td><td>1</td></tr>
<tr><td>6.</td><td>Kinesiological education i healthcare, free time, sport and preparation for urgent situations</td><td>1</td></tr>
<tr><td>7.</td><td>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</td><td>1</td></tr>
<tr><td>8.</td><td>Role of kinesiologists in educational system</td><td>1</td></tr>
<tr><td></td><td>Number of teaching hours - TOTAL</td><td>10</td></tr>
</table></td></tr>
<tr><td>Forms of instruction:</td><td colspan="3">☑ lectures
☑ seminars and workshops
☐ exercises
☐ on line in entirely
☑ partial e-learning
☐ field work</td><td colspan="2">☑ independent assignments
☐ multimedia
☐ laboratory
☑ work with mentor</td></tr>
<tr><td>Student responsibilities</td><td colspan="5">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.</td></tr>
</table>

<table>
<tr><td rowspan="5">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):</td><td>Class attendance</td><td>1</td><td>Research</td><td></td><td>Practical training</td><td></td></tr>
<tr><td>Experimental work</td><td></td><td>Report</td><td></td><td></td><td></td></tr>
<tr><td>Essay</td><td></td><td>Seminar essay</td><td>1</td><td></td><td></td></tr>
<tr><td>Tests</td><td></td><td>Oral exam</td><td>1</td><td></td><td></td></tr>
<tr><td>Written exam</td><td></td><td>Project</td><td></td><td></td><td></td></tr>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="6">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%</td></tr>
<tr><td rowspan="2">Required literature (available in the library and via other media)</td><td colspan="3">Title</td><td>Number of copies in the libraries</td><td>Availability via other media</td></tr>
<tr><td colspan="3">2. Johnson, R.B., & Christensen, L.B (2016). Educational research: quantitative, qualitative and mixed approaches (6th ed.). Thousand Oaks, California: SAGE Publications.</td><td>1</td><td>moodle.kifst.hr</td></tr>
<tr><td>Optional literature</td><td colspan="6">7. Anderson, W.G. (1994). Building and maintaining outstanding physical education programs: Key factors. Journal of Physical Education, Recreation and Dance, 65 (7), 22-49.
8. Findak, V. (2016). Kinesiology Education – Present and Future. Croatian Journal of Education, 18 (Sp.Ed.No.1), 279-291.
9. Findak, V. (2011). Kinesiological prevention in the field of education. Croatian Journal of Education, 13 (4), 71-86.
10. Findak, V. (2009). Kinesiological paradigm of the curriculum in the field of physical and health education for the 21st century. Metodika, časopis za teoriju i praksu metodika u predškolskom odgoju, školskoj i visokoškolskoj izobrazbi, 10 (2), 438-450.
11. Findak, V., Prskalo, I., & Babin, J. (2007). Models of work and efficiency in kinesiological education of younger school age pupils. Proceedings book of the 4th FIEP European Congress Physical Education and sport „Teachers' Preparation and Their Employability in Europe“ (pp. 531-538). Bratislava: Comenius University, Faculty of Physical Education and Sport, Slovak Scientific Society for Physical Education and Sports, Federation Internationale d' Education Physique (FIEP).
12. McEvoy, E., MacPhail, A., & Heikinaro-Johansson, P. (2015). Physical education teacher educators: A 25-year scoping review of literature. Teaching and teacher education, 51, 162-181.
13. Standal, O.F., & Moe, V.F. (2013). Reflective Practice in Physical Education and Physical Education Teacher Education: A Review of the Literature Since 1995. QUEST, 65 (2), 220-240.

* other scientific papers from the relevant databases in kinesiology</td></tr>
<tr><td>Quality assurance methods that ensure the acquisition of exit competencies</td><td colspan="6">questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split</td></tr>
</table>

Language/s of the course	Croatian English

TITLE OF COURSE	PHYSICS OF SPORT					
Code	FSK	Year of study	1			
Course teacher/s	Mile Dželalija,PhD Full Professor Tenure	Credit value (ECTS)	3			
Associate teachers		Instruction form (number of hours per semester)	L	S	E	F
			10	0	0	
Course status	elective course	Percentage of e-learning application	20%			

COURSE DESCRIPTION

Course objectives	To acquire competencies necessary for analyses of physical aspects of sports activities and to create and implement biomechanical measurements in kinesiological research.
Course enrolment requirements and entry competencies required for the course	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)	***Learning outcomes*** – to apply physical laws on different sports activities – to develop models of the selected example of a sports activity and its simulation – to prepare and implement measurements from the area of biomechanics

Course content broken down in detail by weekly class schedule

	Content	Number of hours
1.	Selected chapters on mechanics and thermodynamics.	2
2.	Examples of forces and moment of forces in sports activities.	1
3.	Examples of application of physical laws on different sports activities.	1
4.	Physical models of selected sports activities.	2
5.	Fundamental of programming and performance of simulations.	1
6.	Visualisation of simulated sports activities.	1
7.	Preparation and implementation of selected measurements.	2
	Number of teaching hours - TOTAL	**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 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 proportion of ECTS credits for each activity so that the total number of ECTS*

Class attendance	0,5	Research	0,5	Practical training	
Experimental work		Report			
Essay		Seminar essay	1		
Tests		Oral exam	0,5		

<table>
<tr><td>credits is equal to the ECTS value of the course):</td><td>Written exam</td><td></td><td>Project</td><td>0,5</td><td></td><td></td></tr>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="6">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%</td></tr>
<tr><td rowspan="3">Required literature (available in the library and via other media)</td><td colspan="3">Title</td><td>Number of copies in the libraries</td><td>Availability via other media</td></tr>
<tr><td colspan="3">3. Dželalija, M. (2006). Fizika športa. Sveučilište u Splitu.</td><td></td><td>moodle.kifst.hr</td></tr>
<tr><td colspan="3">4. McGinnis, P.M. (2013). Biomechanics of Sport and Exercises (3rd ed.). Human Kinetics.</td><td></td><td>moodle.kifst.hr</td></tr>
<tr><td>Optional literature</td><td colspan="6">14. Nigg, B.M., & Herzog, W. (2007). Biomechanics of the Musculo-skeletal system (3rd ed.). John Wiley & Sons.

* other scientific papers from the relevant databases in kinesiology</td></tr>
<tr><td>Quality assurance methods that ensure the acquisition of exit competencies</td><td colspan="6">questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Language/s of the course</td><td colspan="6">Croatian
English</td></tr>
</table>

<table>
<tr><td>TITLE OF COURSE</td><td colspan="5">ACUTE INJURIES OF SOFT TISSUE IN ATHLETES</td></tr>
<tr><td>Code</td><td>AOM</td><td>Year of study</td><td colspan="3">1</td></tr>
<tr><td>Course teacher/s</td><td>Ljerka ostojić, PhD
Full Professor Tenure
Zdenko Ostojić, PhD
Full Professor Tenure</td><td>Credit value (ECTS)</td><td colspan="3">3</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>10</td><td>0</td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>elective course</td><td>Percentage of e-learning application</td><td colspan="3">20%</td></tr>
<tr><td colspan="6">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="5">To acquire competencies necessary for recognition, care and prevention of acute injuries of soft tissue in athletes.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="5">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="5">Learning outcomes
– to critically evaluate safe and unsafe signs of acute injury of soft tissue in athletes
– to critically read, evaluate and organise the existing literature and to learn how to apply gained knowledge in practice
– to successfully write and publish an original scientific paper on methods of prevention of sport injuries of soft tissue based on personal, research-based methods
– to compare different types of research in sport traumatology and include their results on more quality care of athletes
– o understand ethical standards of scientific research
– to present a research design in front of the committee in the time allotted
– as project team member or a principal investigator, to develop scientific research of a training process and from the aspect of kinesiology, to study preventive measures</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="5"><table>
<tr><th></th><th>Content</th><th>Number of hours</th></tr>
<tr><td>1.</td><td>Sports injuries</td><td>4</td></tr>
<tr><td>2.</td><td>Causes of pain in a hip or of limping in children and adolescents, developmental diseases of hips; Injuries of soft tissue in the hip area</td><td>2</td></tr>
<tr><td>3.</td><td>Acute injuries of hip joints abductor; Contusions of m.quadriceps femoris; Acute injuries of the back of hamstrings thigh; Detection, acute care and prevention</td><td>2</td></tr>
<tr><td>4.</td><td>Injuries of knee and shoulder ligaments; Detection , acute care and prevention; Cartilage injuries; Treatment possibilities; long-term perspective</td><td>2</td></tr>
<tr><td></td><td>Number of teaching hours - TOTAL</td><td>10</td></tr>
</table></td></tr>
<tr><td>Forms of instruction:</td><td colspan="2">☑ lectures
☑ seminars and workshops
☐ exercises
☐ on line in entirely
☑ partial e-learning</td><td colspan="3">☑ independent assignments
☐ multimedia
☐ laboratory
☑ work with mentor</td></tr>
</table>

<table>
<tr><td></td><td colspan="3">☐ field work</td><td colspan="3"></td></tr>
<tr><td>Student responsibilities</td><td colspan="6">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.</td></tr>
<tr><td rowspan="6">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):</td><td>Class attendance</td><td>0.5</td><td>Research</td><td>1</td><td>Practical training</td><td></td></tr>
<tr><td>Experimental work</td><td>1</td><td>Report</td><td></td><td></td><td></td></tr>
<tr><td>Essay</td><td></td><td>Seminar essay</td><td>1</td><td></td><td></td></tr>
<tr><td>Tests</td><td></td><td>Oral exam</td><td>0.5</td><td></td><td></td></tr>
<tr><td>Written exam</td><td></td><td>Project</td><td></td><td></td><td></td></tr>
<tr><td></td><td colspan="5"></td></tr>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="6">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%</td></tr>
<tr><td rowspan="2">Required literature (available in the library and via other media)</td><td colspan="3">Title</td><td>Number of copies in the libraries</td><td>Availability via other media</td></tr>
<tr><td colspan="3">5. 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.</td><td></td><td></td></tr>
<tr><td>Optional literature</td><td colspan="6">1. Noonan, T.J., & Garrett Jr, W.E. (1999). Muscle strain injury: diagnosis and treatment. Journal of the American Academy of Orthopaedic Surgeons, 7 (4), 262-269.
2. Cotorro, A.R., Philippon, M., Briggs, K., Boykin, R., & Dominguez, D. (2014). Hip screening in elite youth tennis players. British journal of sports medicine, 48 (7), 582-582.
3. Ganz, R., Parvizi, J., Beck, M., Leunig, M., Nötzli, H., & Siebenrock, K.A. (2003). Femoroacetabular impingement: a cause for osteoarthritis of the hip. Clinical orthopaedics and related research, 417, 112-120.
4. Menge, T.J., Briggs, K.K., & Philippon, M.J. (2016). Predictors of length of career after hip arthroscopy for femoroacetabular impingement in professional hockey players. The American journal of sports medicine, 44 (9), 2286-2291.
5. Kerkhoffs, G.M., van Es, N., Wieldraaijer, T., Sierevelt, I.N., Ekstrand, J., & van Dijk, C.N. (2013). Diagnosis and prognosis of acute hamstring injuries in athletes. Knee Surgery, Sports Traumatology, Arthroscopy, 21 (2), 500-509.
6. McSweeney, S.E., Naraghi, A., Salonen, D., Theodoropoulos, J., & White, L.M. (2012). Hip and groin pain in the professional athlete. Canadian Association of Radiologists Journal, 63 (2), 87-99.
7. Kary, J.M. (2010). Diagnosis and management of quadriceps strains and contusions. Current reviews in musculoskeletal medicine, 3 (1-4), 26-31.
8. Brittberg, M., Imhoff, A., Madry, H., & Mandelbaum, B. (Eds.). (2010). Current concepts. Guildford, UK: DJO Publications
9. Engebretsen, L., Laprade, R., McCrory, P., & Meeuwisse, W. (2012). The IOC manual of sports injuries: an illustrated guide to the management of injuries in physical activity. R. Bahr (Ed.). John Wiley & Sons.</td></tr>
</table>

	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. *British journal of sports medicine*, *47* (7), 407-414. * ***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

<table>
<tr><td>TITLE OF COURSE</td><td colspan="5">APPLIED MEDICINE IN KINESIOLOGY AND SPORT</td></tr>
<tr><td>Code</td><td>PMKS</td><td>Year of study</td><td colspan="3">1</td></tr>
<tr><td>Course teacher/s</td><td>Assistant Professor Vladimir Ivančev, PhD
Assistant Professor Tomislav Franić, PhD</td><td>Credit value (ECTS)</td><td colspan="3">3</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>10</td><td></td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>elective course</td><td>Percentage of e-learning application</td><td colspan="3">20%</td></tr>
<tr><td colspan="6">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="5">To acquire competencies necessary for understanding and functioning in a research multidisciplinary team of healthcare services – coach- sports community.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="5">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="5">Learning outcomes
– to argue critically the activities within a multidisciplinary team based on the latest scientific and professional discoveries
– to read, evaluate and use critically the existing literature
– to develop a research project with multidisciplinary medical/kinesiological participation
– to understand fundamental ethical standards of research with man at its centre
– to recognise specificities of working with respondents, laboratory and other biological samples and a necessity of keeping secret information on medical and kinesiological contents</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="5"><table>
<tr><th></th><th>Content</th><th>Number of hours</th></tr>
<tr><td>1.</td><td>Current medical areas of interest in contemporary sport – overtrain syndrome</td><td>2</td></tr>
<tr><td>2.</td><td>Physical health of athletes</td><td>2</td></tr>
<tr><td>3.</td><td>Acute medical areas of interest in contemporary sport – early specialisation of children in sports</td><td>2</td></tr>
<tr><td>4.</td><td>Acute medical areas of interest in contemporary sport – body weight manipulation</td><td>2</td></tr>
<tr><td>5.</td><td>Student presentation of selected topics upon an insight in contemporary scientific literature</td><td>2</td></tr>
<tr><td></td><td>Number of teaching hours - TOTAL</td><td>10</td></tr>
</table></td></tr>
<tr><td>Forms of instruction:</td><td colspan="2">☑ lectures
☑ seminars and workshops
☐ exercises
☐ on line in entirely
☑ partial e-learning
☐ field work</td><td colspan="3">☑ independent assignments
☐ multimedia
☑ laboratory
☑ work with mentor</td></tr>
<tr><td>Student responsibilities</td><td colspan="5">Class attendance is mandatory according to Regulations on Study Programmes and Studying, which entitles students for a signature to the course.</td></tr>
</table>

<table>
<tr><td></td><td colspan="6">Within the exam, students are required to write and present a seminar essay on a given topic and pass the oral exam.</td></tr>
<tr><td rowspan="5">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):</td><td>Class attendance</td><td>1</td><td>Research</td><td>0.5</td><td>Practical training</td><td></td></tr>
<tr><td>Experimental work</td><td></td><td>Report</td><td></td><td></td><td></td></tr>
<tr><td>Essay</td><td></td><td>Seminar essay</td><td>0.5</td><td></td><td></td></tr>
<tr><td>Tests</td><td></td><td>Oral exam</td><td>0.5</td><td></td><td></td></tr>
<tr><td>Written exam</td><td></td><td>Project</td><td>0.5</td><td></td><td></td></tr>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="6">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 – 35%
– presentation of the seminar essay – 35%
– oral exam – 30%</td></tr>
<tr><td rowspan="3">Required literature (available in the library and via other media)</td><td colspan="3">Title</td><td>Number of copies in the libraries</td><td>Availability via other media</td></tr>
<tr><td colspan="3">1. Heimer, S., Čajavec, R., et al. (2006). Medicina sporta. Zagreb: Kineziološi fakultet Sveučilišta u Zagrebu.</td><td></td><td></td></tr>
<tr><td colspan="3">2. Wilmore, Costill, Kenney (2008). Physiology of Sport and Exercise (4th ed.). Human Kinetics.</td><td></td><td></td></tr>
<tr><td>Optional literature</td><td colspan="6">1. Pećina, M., Bojanić, I., Dubravčić Šimunjak, S., Janković, S., & Ribarić, G. (1992). Sindromi prenaprezanja sustava za kretanje. Zagreb: Globus.
2. 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. British journal of sports medicine, bjsports-2012.
3. Brenner, J.S. (2007). Overuse injuries, overtraining, and burnout in child and adolescent athletes. Pediatrics, 119 (6), 1242-1245.
4. Reardon, C.L., & Factor, R.M. (2010). Sport psychiatry. Sports Medicine, 40 (11), 961-980.
5. Medicinski kodeks olimpijskog pokreta, Lausanne 2009.

* other scientific papers from the relevant databases in kinesiology and sports medicine</td></tr>
<tr><td>Quality assurance methods that ensure the acquisition of exit competencies</td><td colspan="6">questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Language/s of the course</td><td colspan="6">Croatian
English</td></tr>
</table>

<table>
<tr><td>TITLE OF COURSE</td><td colspan="5">MATRIX ALGEBRA OF MULTIVARIATE STATISTICAL METHODS</td></tr>
<tr><td>Code</td><td>MMSM</td><td>Year of study</td><td colspan="3">1</td></tr>
<tr><td>Course teacher/s</td><td>Igor Jelaska, PhD
Assistant Professor</td><td>Credit value (ECTS)</td><td colspan="3">3</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>10</td><td></td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>elective course</td><td>Percentage of e-learning application</td><td colspan="3">20%</td></tr>
<tr><td colspan="6">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="5">To acquire competencies necessary for development of fundamental methodological procedures for processes of multivariate analyses.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="5">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="5">Learning outcomes
– 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</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="5"><table>
<tr><th></th><th>Content</th><th>Number of hours</th></tr>
<tr><td>1.</td><td>Necessity of knowing matrix algebra in kinesiological research, Matrix vs. scalar algebra.</td><td>2</td></tr>
<tr><td>2.</td><td>Addition, subtraction, multiplication, exponentiation, multiplication of a matrix by a number.</td><td>2</td></tr>
<tr><td>3.</td><td>Functions with matrices: trace, determinant, range, inverse, transposition.</td><td>2</td></tr>
<tr><td>4.</td><td>Matrix equation, Eigenvalues and eigenvectors.</td><td>2</td></tr>
<tr><td>5.</td><td>Application of matrix algebra in kinesiology, Transformations of scalar formulas in matrix algebra formulas, Transformation of matrix notations in scalar ones</td><td>2</td></tr>
<tr><td></td><td>Number of teaching hours - TOTAL</td><td>10</td></tr>
</table></td></tr>
<tr><td>Forms of instruction:</td><td colspan="2">☑ lectures
☑ seminars and workshops
☐ exercises
☐ on line in entirely
☑ partial e-learning
☐ field work</td><td colspan="3">☑ independent assignments
☐ multimedia
☐ laboratory
☑ work with mentor</td></tr>
<tr><td>Student responsibilities</td><td colspan="5">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.</td></tr>
</table>

<table>
<tr><td rowspan="5">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):</td><td>Class attendance</td><td>0.5</td><td>Research</td><td>0.5</td><td>Practical training</td><td></td></tr>
<tr><td>Experimental work</td><td>0.5</td><td>Report</td><td></td><td></td><td></td></tr>
<tr><td>Essay</td><td></td><td>Seminar essay</td><td>0.5</td><td></td><td></td></tr>
<tr><td>Tests</td><td></td><td>Oral exam</td><td>0.5</td><td></td><td></td></tr>
<tr><td>Written exam</td><td></td><td>Project</td><td>0.5</td><td></td><td></td></tr>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="6">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%</td></tr>
<tr><td rowspan="2">Required literature (available in the library and via other media)</td><td colspan="3">Title</td><td>Number of copies in the libraries</td><td>Availability via other media</td></tr>
<tr><td colspan="3">1. Dizdar, D. (2006). Kvantitativne metode. Zagreb: Kineziološki fakultet Sveučilišta u Zagrebu..</td><td>1</td><td></td></tr>
<tr><td>Optional literature</td><td colspan="6">1. Bronson, R.D. (1989). Matrix Operations, Schaum's Outline Series. New York: McGraw-Hill Book Company.
2. Horvatić, K. (2004). Linearna algebra. Zagreb: Golden Marketing.
3. Kovačić, Z.J. (1994). Multivariaciona analiza. Univerzitet u Beogradu: Ekonomski fakultet.
4. Lattin, J., Douglas, C., & Green, P. (2003). Analyzing Multivariate Data. Thomson Learning.

* other scientific papers from the relevant databases in kinesiology</td></tr>
<tr><td>Quality assurance methods that ensure the acquisition of exit competencies</td><td colspan="6">questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Language/s of the course</td><td colspan="6">Croatian
English</td></tr>
</table>

TITLE OF COURSE	PLANNING AND WRITING A RESEARCH PAPER					
Code	PPZR	Year of study	1			
Course teacher/s	Matko Marušić, PhD Full Professor Tenure	Credit value (ECTS)	3			
Associate teachers		Instruction form (number of hours per semester)	L	S	E	F
			10			
Course status	elective course	Percentage of e-learning application	20%			

COURSE DESCRIPTION

Course objectives	To acquire competencies necessary for writing a research plan and writing a research paper in the area of kinesiology.
Course enrolment requirements and entry competencies required for the course	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)	***Learning outcomes*** – to choose a type of research according to the (individual) hypothesis – to choose an adequate sample and calculates its required minimum sizes – to define strengths and weaknesses of the planned research – to develop a research plan in the set time form with 20 elements – to apply critically IMRaD organisation of a research paper – to acquire the basic scheme of developing a research paper

Course content broken down in detail by weekly class schedule

	Content	Number of hours
1.	To rush slowly: plan first	2
2.	Types of research studied, sample and outcome measurements	2
3.	Research databases and research paper organisation	2
4.	Writing a research paper, systematic reviewing, STROBE, CONSORT	2
5.	Research setting and formatting (20 points)	2
	Number of teaching hours - TOTAL	**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 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 proportion of ECTS credits for each activity so that the total number of ECTS*						
	Class attendance	0.5	Research		Practical training	
	Experimental work		Report			
	Essay		Seminar essay	0,5		
	Tests		Oral exam	1		

<table>
<tr><td>credits is equal to the ECTS value of the course):</td><td>Written exam</td><td>1</td><td>Project</td><td></td><td></td><td></td></tr>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="6">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 – 20%
– presentation of the seminar essay – 20%
– written exam – 30%
– oral exam – 30%</td></tr>
<tr><td rowspan="2">Required literature (available in the library and via other media)</td><td colspan="4">Title</td><td>Number of copies in the libraries</td><td>Availability via other media</td></tr>
<tr><td colspan="4">3. Marušić, M. (Ed.). (2013). Uvod u znanstveni rad u medicini (5th ed.). Zagreb: Medicinska naklada.</td><td></td><td></td></tr>
<tr><td>Optional literature</td><td colspan="6">3. Material used in lecture classes (moodle.kifst.hr).

* other scientific papers from the relevant databases in kinesiology</td></tr>
<tr><td>Quality assurance methods that ensure the acquisition of exit competencies</td><td colspan="6">questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Language/s of the course</td><td colspan="6">Croatian
English</td></tr>
</table>

2.2.2. Semester II

<table>
<tr><td>TITLE OF COURSE</td><td colspan="6">KINESIOLOGICAL AND ANTHROPOLOGICAL ANALYSES OF COMBAT SPORTS</td></tr>
<tr><td>Code</td><td>KAAB</td><td>Year of study</td><td colspan="4">1</td></tr>
<tr><td>Course teacher/s</td><td>Saša Krstulović, PhD
Full Professor
Hrvoje Karninčić, PhD
Assistant Professor</td><td>Credit value (ECTS)</td><td colspan="4">4</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>10</td><td>0</td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>elective course</td><td>Percentage of e-learning application</td><td colspan="4">20%</td></tr>
<tr><td colspan="7">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="6">To improve knowledge on development, implementation and presentation of research results in the area of combat sports.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="6">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="6">Learning outcomes
– 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
– to develop specific measuring instruments in the area of combat sports</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="6"><table><tr><th></th><th>Content</th><th>Number of hours</th></tr><tr><td>1.</td><td>General introduction to characteristics of research in the area of combat sports</td><td>4</td></tr><tr><td>2.</td><td>Review of previous research in combat sports</td><td>2</td></tr><tr><td>3.</td><td>Specific measuring instruments in combat sports</td><td>2</td></tr><tr><td>4.</td><td>Critical review of scientific research in combat sports</td><td>2</td></tr><tr><td></td><td>Number of teaching hours - TOTAL</td><td>10</td></tr></table></td></tr>
<tr><td>Forms of instruction:</td><td colspan="3">☑ lectures
☑ seminars and workshops
☐ exercises
☐ on line in entirely
☑ partial e-learning
☐ field work</td><td colspan="3">☑ independent assignments
☐ multimedia
☐ laboratory
☑ work with mentor</td></tr>
<tr><td>Student responsibilities</td><td colspan="6">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.</td></tr>
<tr><td rowspan="2">Screening student work (specify the proportion of ECTS</td><td>Class attendance</td><td>0.5</td><td>Research</td><td>1</td><td>Practical training</td><td></td></tr>
<tr><td>Experimental work</td><td>1</td><td>Report</td><td></td><td></td><td></td></tr>
</table>

<table>
<tr><td rowspan="3">credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course):</td><td>Essay</td><td></td><td>Seminar essay</td><td>1</td><td></td><td></td></tr>
<tr><td>Tests</td><td></td><td>Oral exam</td><td>0.5</td><td></td><td></td></tr>
<tr><td>Written exam</td><td></td><td>Project</td><td></td><td></td><td></td></tr>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="6">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%</td></tr>
<tr><td rowspan="3">Required literature (available in the library and via other media)</td><td colspan="3">Title</td><td>Number of copies in the libraries</td><td colspan="2">Availability via other media</td></tr>
<tr><td colspan="3">6. Drid, P. (2017). Science and medicine in combat sports. Nova publishers.</td><td>1</td><td colspan="2"></td></tr>
<tr><td colspan="3">7. Power point presentations from lecture classes.</td><td></td><td colspan="2">moodle.kifst.hr</td></tr>
<tr><td>Optional literature</td><td colspan="6">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</td></tr>
<tr><td>Quality assurance methods that ensure the acquisition of exit competencies</td><td colspan="6">questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Language/s of the course</td><td colspan="6">Croatian
English</td></tr>
</table>

<table>
<tr><td>TITLE OF COURSE</td><td colspan="6">LINEAR ALGEBRA</td></tr>
<tr><td>Code</td><td>LAG</td><td>Year of study</td><td colspan="4">1</td></tr>
<tr><td>Course teacher/s</td><td>Damir Vukičević, PhD
Full Professor</td><td>Credit value (ECTS)</td><td colspan="4">4</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>10</td><td>0</td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>elective course</td><td>Percentage of e-learning application</td><td colspan="4">20%</td></tr>
<tr><td colspan="7">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="6">To acquire competencies necessary for solving basic mathematic problems in linear algebra and their application.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="6">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="6">Learning outcomes
– 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</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="6">
<table>
<tr><th></th><th>Content</th><th>Number of hours</th></tr>
<tr><td>1.</td><td>Basic terminology of mathematical logics, Groups, Homomorphism of groups, Rings, Fields, Homeomorphisms and fields</td><td>2</td></tr>
<tr><td>2.</td><td>Vector space, Basis and rank of vector space, Homeomorphisms of vector space, Applications, Linear operators, Matrices</td><td>2</td></tr>
<tr><td>3.</td><td>General linear group, Rank, Determinants, Eigenvalues of a linear operator</td><td>3</td></tr>
<tr><td>4.</td><td>Diagonalisation, Systems of linear equations, Solution existence, Cramer’s and homogeneous system, General solution of a linear system, Gaussian algorithm</td><td>3</td></tr>
<tr><td></td><td>Number of teaching hours - TOTAL</td><td>10</td></tr>
</table>
</td></tr>
<tr><td>Forms of instruction:</td><td colspan="3">☑ lectures
☑ seminars and workshops
☐ exercises
☐ on line in entirely
☑ partial e-learning
☐ field work</td><td colspan="3">☑ independent assignments
☐ multimedia
☐ laboratory
☑ work with mentor</td></tr>
<tr><td>Student responsibilities</td><td colspan="6">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.</td></tr>
<tr><td rowspan="3">Screening student work (specify the proportion of ECTS credits for each activity so that the</td><td>Class attendance</td><td>0.3</td><td>Research</td><td></td><td>Practical training</td><td></td></tr>
<tr><td>Experimental work</td><td></td><td>Report</td><td></td><td>Individual learning</td><td>3</td></tr>
<tr><td>Essay</td><td></td><td>Seminar essay</td><td></td><td></td><td></td></tr>
</table>

<table>
<tr><td rowspan="2">total number of ECTS credits is equal to the ECTS value of the course):</td><td>Tests</td><td></td><td>Oral exam</td><td>0.7</td><td></td><td></td></tr>
<tr><td>Written exam</td><td></td><td>Project</td><td></td><td></td><td></td></tr>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="6">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%</td></tr>
<tr><td rowspan="3">Required literature (available in the library and via other media)</td><td colspan="3">Title</td><td>Number of copies in the libraries</td><td>Availability via other media</td></tr>
<tr><td colspan="3">1. Horvatić, K. (1995). Linearna algebra I, II i III. Zagreb: PMF – Matematički odjel, HMD.</td><td></td><td></td></tr>
<tr><td colspan="3">2. Strang, G. (2016). Introduction to Linear Algebra (5th ed.). Wellesley-Cambridge Press.</td><td></td><td></td></tr>
<tr><td>Optional literature</td><td colspan="6">1. Bakić, N., & Milas, A. (1995). Zbirka zadataka iz linearne algebre s rješenjima. Zagreb: PMF–Matematički odjel, HMD.
2. Elezović, N. (1995). Linearna algebra. Zagreb: Element.
3. Elezović, N., & Aglić, A. (2001). Linearna algebra: zbirka zadataka. Zagreb: Element.
4. Kurepa, S. (1992). Konačno dimenzionalni vektorski prostori i primjene. Zagreb: Liber.
5. Proskurjakov, I.V. (1978). Problems in linear algebra. Moscow: MIR Publishers.

* other scientific papers from the relevant databases in kinesiology and mathematics</td></tr>
<tr><td>Quality assurance methods that ensure the acquisition of exit competencies</td><td colspan="6">questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Language/s of the course</td><td colspan="6">Croatian
English</td></tr>
</table>

<table>
<tr><td>TITLE OF COURSE</td><td colspan="6">RESEARCH IN KINESIOLOGICAL EDUCATION</td></tr>
<tr><td>Code</td><td>IKE</td><td>Year of study</td><td colspan="4">1</td></tr>
<tr><td>Course teacher/s</td><td>Tonči Bavčević, PhD
Associate Professor</td><td>Credit value (ECTS)</td><td colspan="4">4</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>10</td><td>0</td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>elective course</td><td>Percentage of e-learning application</td><td colspan="4">20%</td></tr>
<tr><td colspan="7">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="6">To train students to conduct research analyses as well as planning and implementation of scientific research from the area of kinesiological education.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="6">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="6">Learning 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</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="6"><table><tr><th></th><th>Content</th><th>Number of hours</th></tr><tr><td>1.</td><td>Research directions in kinesiological education</td><td>2</td></tr><tr><td>2.</td><td>Method of scientific research in kinesiological education – specificities of research area</td><td>2</td></tr><tr><td>3.</td><td>Ethical principles in the area of kinesiological education</td><td>2</td></tr><tr><td>4.</td><td>Research plan and implementation in kinesiological education</td><td>2</td></tr><tr><td>5.</td><td>Development and presentation of scientific article</td><td>2</td></tr><tr><td></td><td>Number of teaching hours - TOTAL</td><td>10</td></tr></table></td></tr>
<tr><td>Forms of instruction:</td><td colspan="3">☑ lectures
☑ seminars and workshops
☐ exercises
☐ on line in entirely
☑ partial e-learning
☐ field work</td><td colspan="3">☑ independent assignments
☐ multimedia
☐ laboratory
☑ work with mentor</td></tr>
<tr><td>Student responsibilities</td><td colspan="6">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.</td></tr>
<tr><td rowspan="4">Screening student work (specify the proportion of ECTS credits for each activity so that the total number of ECTS</td><td>Class attendance</td><td>1</td><td>Research</td><td>1</td><td>Practical training</td><td></td></tr>
<tr><td>Experimental work</td><td></td><td>Report</td><td></td><td></td><td></td></tr>
<tr><td>Essay</td><td></td><td>Seminar essay</td><td>1</td><td></td><td></td></tr>
<tr><td>Tests</td><td></td><td>Oral exam</td><td>1</td><td></td><td></td></tr>
</table>

<table>
<tr><td>credits is equal to the ECTS value of the course):</td><td>Written exam</td><td></td><td>Project</td><td></td><td></td><td></td></tr>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="6">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%</td></tr>
<tr><td rowspan="2">Required literature (available in the library and via other media)</td><td colspan="4">Title</td><td>Number of copies in the libraries</td><td>Availability via other media</td></tr>
<tr><td colspan="4">8. Johnson, R.B., & Christensen, L.B (2016). Educational research: quantitative, qualitative and mixed approaches (6th ed.). Thousand Oaks, California: SAGE Publications.</td><td>1</td><td>moodle.kifst.hr</td></tr>
<tr><td>Optional literature</td><td colspan="6">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</td></tr>
<tr><td>Quality assurance methods that ensure the acquisition of exit competencies</td><td colspan="6">questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Language/s of the course</td><td colspan="6">Croatian
English</td></tr>
</table>

<table>
<tr><td>TITLE OF COURSE</td><td colspan="6">EVALUATION IN KINESIOLOGICAL EDUCATION</td></tr>
<tr><td>Code</td><td>VKED</td><td>Year of study</td><td colspan="4">1</td></tr>
<tr><td>Course teacher/s</td><td>Josip Babin, PhD
Full Professor Tenure
Assistant Professor Lidija Vlahović, PhD</td><td>Credit value (ECTS)</td><td colspan="4">4</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>10</td><td>0</td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>elective course</td><td>Percentage of e-learning application</td><td colspan="4">20%</td></tr>
<tr><td colspan="7">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="6">To acquire competencies necessary for understanding and implementation of monitoring and evaluation in kinesiological education.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="6">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="6">Ishodi učenja
– to define theoretical guidelines for evaluation of children and pupils
– 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 physical education</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="6"><table><tr><th></th><th>Content</th><th>Number of hours</th></tr><tr><td>1.</td><td>Theoretical guidelines for evaluation in kinesiological education</td><td>3</td></tr><tr><td>2.</td><td>Methods of evaluation of programme contents in kinesiological education</td><td>2</td></tr><tr><td>3.</td><td>New evaluation tendencies for kinesiological activities of preschool children, schoolchildren and students</td><td>3</td></tr><tr><td>4.</td><td>Evaluation of kinesiological activities in child, sport, humanitarian and similar organisations</td><td>2</td></tr><tr><td></td><td>Number of teaching hours - TOTAL</td><td>10</td></tr></table></td></tr>
<tr><td>Forms of instruction:</td><td colspan="3">☑ lectures
☑ seminars and workshops
☐ exercises
☐ on line in entirely
☑ partial e-learning
☐ field work</td><td colspan="3">☑ independent assignments
☐ multimedia
☐ laboratory
☑ work with mentor</td></tr>
<tr><td>Student responsibilities</td><td colspan="6">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.</td></tr>
<tr><td></td><td>Class attendance</td><td>1</td><td>Research</td><td>1</td><td>Practical training</td><td></td></tr>
</table>

<table>
<tr><td rowspan="5">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):</td><td>Experimental work</td><td></td><td>Report</td><td></td><td></td><td></td></tr>
<tr><td>Essay</td><td></td><td>Seminar essay</td><td>1</td><td></td><td></td></tr>
<tr><td>Tests</td><td></td><td>Oral exam</td><td>1</td><td></td><td></td></tr>
<tr><td>Written exam</td><td></td><td>Project</td><td></td><td></td><td></td></tr>
<tr><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="6">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%</td></tr>
<tr><td rowspan="2">Required literature (available in the library and via other media)</td><td colspan="3">Title</td><td>Number of copies in the libraries</td><td>Availability via other media</td></tr>
<tr><td colspan="3">9. Johnson, R.B., & Christensen, L.B (2016). Educational research: quantitative, qualitative and mixed approaches (6th ed.). Thousand Oaks, California: SAGE Publications.</td><td>1</td><td>moodle.kifst.hr</td></tr>
<tr><td>Optional literature</td><td colspan="6">22. Anderson, W.G. (1994). Building and maintaining outstanding physical education programs: Key factors. Journal of Physical Education, Recreation and Dance, 65 (7), 22-49.
23. Babin, J., Katić, R., Ropac, D., & Bonacin, D. (2001). Effect of specially programmed physical and health education on the motor fitness of seven-year-old school children. Collegium Antropologicum, 25 (1), 153-165.
24. Babin, B., Bavčević, T., & Vlahović, L. (2013). Relations of Motor Abilities and Motor Skills in 11 Year old Pupils. Croatian Journal of Education, 15 (2), 251-274.
25. Bavčević, T., Babin, J., & Prskalo, I. (2006). Complex group organizational forms – an optimizing factor in Physical education instruction, Kinesiology, 38 (1), 28-39.
26. Delija, K., & Horvat, V. (2001). Utvrđivanje antropološkog statusa djece predškolske dobi. Napredak, 142 (1), 102-108.
27. Dizdar, D. (2006). Kvantitativne metode. Zagreb: Kineziološki fakultet.
28. Findak, V. (2003). Metodika tjelesne i zdravstvene kulture – priručnik za nastavnike tjelesne i zdravstvene kulture. Zagreb: Školska knjiga.
29. Gallahue, L. D., & Donnely, F. (2003). Developmental physical education for all children. Champaign, IL: Human Kinetics.
30. Sanders, S. W. (1992). Designing Preschool Movement Program. Champaign, IL: Human Kinetics.
31. Venetsanou, F., & Kambas, A. (2009). Environmental factors affecting preschoolers' motor development. Early Childhood Education Journal, 37, 319-327.
32. Vlahović, L., Bavčević, T., & Katić, R. (2007). Biomotor development in 1992 and 2002 samples of seven-year-old children. Collegium Antropologicum, 37 (4), 987992.
33. Vlahović, L., Babin, J. & Bavčević, T. (2008). Metric Characteristic and Basic Parameters of Distribution of Some Motor Tests of Pupils in Primary Education. In V. Šimović (Ed.), Conference Proceedings of the First Special Focus Symposium on Kinesiological Education in Pre-School and Primary Education, Zadar, 2008 (pp. 66-72). Zagreb: ECNSI – The European Center for Advanced and Systematic Research, Zagreb, Croatia.</td></tr>
</table>

	* ***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

<table>
<tr><td>TITLE OF COURSE</td><td colspan="5">KINESIOLOGICAL AND ANTHROPOLOGICAL ANALISIS IN KINESIOLOGICAL EDUCATION</td></tr>
<tr><td>Code</td><td>KAAE</td><td>Year of study</td><td colspan="3">1</td></tr>
<tr><td>Course teacher/s</td><td>Josip Babin, PhD
Full Professor Tenure
Associate Professor Tonči Bavčević, PhD</td><td>Credit value (ECTS)</td><td colspan="3">4</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>10</td><td>0</td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>elective course</td><td>Percentage of e-learning application</td><td colspan="3">20%</td></tr>
<tr><td colspan="6">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="5">To acquire competencies necessary for understanding and implementation of kinesiological and anthropological analysis in kinesiological education.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="5">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="5">Learning outcomes
– to define kinesiological and anthropological analysis of kinesiological education contents in children, pupils and youth
– to analyse syllabi in kinesiological education for children of pre-school age, younger, middle and older school age and for students
– to analyse and evaluate certain contents of work in kinesiological education
– to evaluate the influence of specific abilities and knowledge in kinesiological education</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="5">
<table>
<tr><th></th><th>Content</th><th>Number of hours</th></tr>
<tr><td>1.</td><td>Kinesiological and anthropological analysis of kinesiological education contents considering age, gender and level of kinanthropological features of children, pupils and youth</td><td>2</td></tr>
<tr><td>2.</td><td>Value, significance and distribution of kinesiological culture programme content</td><td>2</td></tr>
<tr><td>3.</td><td>Physiological, biomechanical and motor features of kinesiological culture content</td><td>1</td></tr>
<tr><td>4.</td><td>Order of anthropological features on success in some motor skills and motor achievements</td><td>1</td></tr>
<tr><td>5.</td><td>Content of the programme, content arrangement of the programme and formation of the kinesiological culture programme in common time intervals (initial, transitive and final)</td><td>1</td></tr>
<tr><td>6.</td><td>Specific abilities and knowledge in some kinesiological contents</td><td>1</td></tr>
<tr><td>7.</td><td>Parts of kinesiological contents and the quickest way possible of acquiring teaching topics and kinesiological operators</td><td>1</td></tr>
<tr><td>8.</td><td>Specific motor skills and achievements in kinesiological culture</td><td>1</td></tr>
<tr><td></td><td>Number of teaching hours - TOTAL</td><td>10</td></tr>
</table>
</td></tr>
<tr><td>Forms of instruction:</td><td colspan="2">☑ lectures
☑ seminars and workshops
☐ exercises
☐ on line in entirely</td><td colspan="3">☑ independent assignments
☐ multimedia
☐ laboratory
☑ work with mentor</td></tr>
</table>

<table>
<tr><td></td><td colspan="6">☑ partial e-learning
☐ field work</td><td></td></tr>
<tr><td>Student responsibilities</td><td colspan="7">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.</td></tr>
<tr><td rowspan="6">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):</td><td>Class attendance</td><td>1</td><td>Research</td><td>1</td><td>Practical training</td><td></td></tr>
<tr><td>Experimental work</td><td></td><td>Report</td><td></td><td></td><td></td></tr>
<tr><td>Essay</td><td></td><td>Seminar essay</td><td>1</td><td></td><td></td></tr>
<tr><td>Tests</td><td></td><td>Oral exam</td><td>1</td><td></td><td></td></tr>
<tr><td>Written exam</td><td></td><td>Project</td><td></td><td></td><td></td></tr>
<tr><td colspan="6"></td></tr>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="7">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%</td></tr>
<tr><td>Required literature (available in the library and via other media)</td><td colspan="4">Title</td><td>Number of copies in the libraries</td><td>Availability via other media</td></tr>
<tr><td></td><td colspan="4">10. Johnson, R.B., & Christensen, L.B (2016). Educational research: quantitative, qualitative and mixed approaches (6th ed.). Thousand Oaks, California: SAGE Publications.</td><td>1</td><td>moodle.kifst.hr</td></tr>
<tr><td>Optional literature</td><td colspan="7">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 Hrvatske.
43. Plan i program tjelesnog i zdravstvenog odgojno-obrazovnog područja u predškolskom odgoju (1991). Zagreb: Ministarstvo prosvjete, kulture i športa Republike Hrvatske.</td></tr>
</table>

	* ***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

TITLE OF COURSE	ADAPTED PHYSICAL ACTIVITY AND SPORT					
Code	PTAS	Year of study	1			
Course teacher/s	Jelena Paušić, PhD Associate Professor	Credit value (ECTS)	4			
Associate teachers	Marijana Čavala, PhD Assistant Professor	Instruction form (number of hours per semester)	L	S	E	F
			10	0	0	
Course status	elective course	Percentage of e-learning application	20%			

COURSE DESCRIPTION

Course objectives	To acquire competencies necessary for development and presentation of research design in the area of adapted physical activity and sport.
Course enrolment requirements and entry competencies required for the course	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)	***Learning outcomes*** – 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 – to analyse research papers in the area of adapted physical activity and sport

Course content broken down in detail by weekly class schedule

	Content	Number of hours
1.	Adapted physical activity and sport	3
2.	Adapted sport	1
3.	Measuring and evaluation of a programme on adapted physical exercising	3
4.	Classification of research papers in the area of adapted physical activity and sport	3
	Number of teaching hours - TOTAL	**10**

Forms of instruction:		
	☑ lectures ☑ seminars and workshops ☐ exercises ☐ *on line* in entirely ☑ partial e-learning ☐ field work	☑ independent assignments ☐ multimedia ☐ laboratory ☑ work with mentor
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 topic and pass the oral exam.	

Screening student work *(specify the proportion of ECTS credits for each activity so that the total number of ECTS*						
	Class attendance	0.5	Research	1.5	Practical training	
	Experimental work		Report			
	Essay		Seminar essay	1		
	Tests		Oral exam	1		

<table>
<tr><td>credits is equal to the ECTS value of the course):</td><td>Written exam</td><td></td><td>Project</td><td></td><td></td><td></td></tr>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="6">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%</td></tr>
<tr><td rowspan="2">Required literature (available in the library and via other media)</td><td colspan="3">Title</td><td>Number of copies in the libraries</td><td>Availability via other media</td></tr>
<tr><td colspan="3">1. Winnick, J.P (2005). Adapted Physical eduaction and Sport. Human Kinetics</td><td></td><td></td></tr>
<tr><td>Optional literature</td><td colspan="6">* other scientific papers from the relevant databases in adapted physical activity and sport</td></tr>
<tr><td>Quality assurance methods that ensure the acquisition of exit competencies</td><td colspan="6">questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Language/s of the course</td><td colspan="6">Croatian
English</td></tr>
</table>

<table>
<tr><td>TITLE OF COURSE</td><td colspan="5">KINESIOLOGICAL AND ANTHROPOLOGICAL ANALYSES OF SPORTS</td></tr>
<tr><td>Code</td><td>KAAS</td><td>Year of study</td><td colspan="3">1</td></tr>
<tr><td>Course teacher/s</td><td>Nenad Rogulj, PhD
Full Professor</td><td>Credit value (ECTS)</td><td colspan="3">4</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>10</td><td>0</td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>elective course</td><td>Percentage of e-learning application</td><td colspan="3">20%</td></tr>
<tr><td colspan="6">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="5">To acquire competencies necessary for analyses of different aspects of qualitative and quantitative kinesiological and anthropological analyses in sport.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="5">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="5">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 and anthropological analyses of sport</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="5"><table>
<tr><th></th><th>Content</th><th>Number of hours</th></tr>
<tr><td>1.</td><td>Structural analyses and analyses of kinesiological contents in sports activities</td><td>1</td></tr>
<tr><td>2.</td><td>Analyses of situational efficiency parameters of players and teams in sports activities</td><td>1</td></tr>
<tr><td>3.</td><td>Methods and procedures for analyses of motor skills in sports activities (analyses of kinematic, kinetic and electromyography parameters)</td><td>1</td></tr>
<tr><td>4.</td><td>Functional analyses of sports activities</td><td>1</td></tr>
<tr><td>5.</td><td>Analyses of kinesiological, tactical and strategic models in sports activities</td><td>1</td></tr>
<tr><td>6.</td><td>Expert models for analyses of kinesiological contents in sports activities</td><td>2</td></tr>
<tr><td>7.</td><td>Analyses of anthropological features of athletes (motor, morphological, functional, cognitive, conative, sociological)</td><td>1</td></tr>
<tr><td>8.</td><td>Analyses of influence of anthropological features on success in sport and anthropological models in sport</td><td>1</td></tr>
<tr><td>9.</td><td>Methods and procedures in the process of selection</td><td>1</td></tr>
<tr><td>10.</td><td>Application of expert model sin anthropological analysis of sports activities</td><td>1</td></tr>
<tr><td></td><td>Number of teaching hours - TOTAL</td><td>10</td></tr>
</table></td></tr>
<tr><td>Forms of instruction:</td><td colspan="2">☑ lectures</td><td colspan="3">☑ independent assignments</td></tr>
</table>

	☑ seminars and workshops ☐ exercises ☐ *on line* in entirely ☑ partial e-learning ☐ field work	☐ multimedia ☑ laboratory ☑ work with mentor
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 topic and pass the oral exam.	

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	1	Research	1	Practical training	
	Experimental work		Report			
	Essay		Seminar essay	1		
	Tests		Oral exam	1		
	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 – 40% – presentation of the seminar essay – 30% – oral exam – 30%

	Title	**Number of copies in the libraries**	**Availability via other media**
Required literature (available in the library and via other media)	11. Thomas, J.R., Silverman, S., & Nelson, J. (2015). *Research Methods in Physical Activity* (7th ed.). Human kinetics.		moodle.kifst.hr
	12. Wood, T., Zhu, W. (2006). *Measurement Theory and Practice in Kinesiology*, Champaing, IL.: Human Kinetics.		moodle.kifst.hr
Optional literature	44. Bonacin, D., Bilić, Ž., Bonacin, Da. (2012). *Uvod u kineziološku analizu*. Univerzitet u Travniku, Travnik. 45. Creswell, J.W. (2014). *Research design: Qualitative, quantitative, and mixed methods approaches* (4th ed.). Thousand Oaks, CA: Sage. 46. Dodig, M. (2002). *Modeli i modeliranje tjelovježbenih procesa*. Rijeka, Sveučilište u Rijeci. 47. Foretić, N., Rogulj, N., & Papić, V. (2013). Empirical model for evaluating situational efficiency in top level handball. *International Journal of Performance analysis in sport, 13*, 275-293. 48. Gratton, C., & Jones,I. (2004). *Research Methods for Sport Studies*., New York: Routledge. 49. Malacko, J., & Popović, D. (2001). *Metodologija kineziološko antropoloških istraživanja*. Leposavić, Fakultet za fizičku kulturu u Pristini. 50. Trninić, S., Dizdar, D., & E. Luksic, E. (2002). Differences between winning and defeated top quality basketball teams in final tournaments of European club championship. *Coll Antropol. 26* (2), 521-31. 51. Viskić-Štalec, N. (2010). *Statistika i kineziometrija u sportu*. Zagreb, Kineziološki fakultet Sveučilišta u Zagrebu.		

	* ***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

TITLE OF COURSE	KINESIOLOGICAL AND ANTHROPOLOGICAL ANALYSIS OF DANCES					
Code	KAAP	Year of study	1			
Course teacher/s	Đurđica Miletić, PhD Full Professor Tenure	Credit value (ECTS)	4			
Associate teachers		Instruction form (number of hours per semester)	L	S	E	F
			10	0	0	
Course status	elective course	Percentage of e-learning application	20%			

COURSE DESCRIPTION

Course objectives	To acquire competencies necessary for development and evaluation of new procedures in the process of motor learning.
Course enrolment requirements and entry competencies required for the course	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)	***Learning outcomes*** - to evaluate basic kinesiological dance operators in transformation of anthropological status - to search the previous scientific research of kinesiological dance operators - to develop and analyse measurements of kinesiological status of professional dancers - to evaluate efficiency of different dance programmes and to analyse gender specificities of dancers

Course content broken down in detail by weekly class schedule

	Content	Number of hours
1.	Dance structures as kinesiological operators in transformation of anthropological status.	4
2.	Kinesiological and anthropological analyses of professional dancers.	2
3.	Efficiency analyses of different dance programmes.	2
4.	Gender specificities of scientific research in dancers.	2
	Number of teaching hours - TOTAL	**10**

Forms of instruction:		
	☑ lectures ☑ seminars and workshops ☐ exercises ☐ *on line* in entirely ☑ partial e-learning ☐ field work	☑ independent assignments ☐ multimedia ☐ laboratory ☑ work with mentor
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 topic and pass the oral exam.	

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	0.3	Research	1	Practical training	
	Experimental work	0.5	Report			
	Essay		Seminar essay	1		
	Tests		Oral exam	0.5		
	Written exam		Project	0.2		

<table>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="3">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%</td></tr>
<tr><td rowspan="3">Required literature (available in the library and via other media)</td><td>Title</td><td>Number of copies in the libraries</td><td>Availability via other media</td></tr>
<tr><td>1. Krasnow D.H., & Wilmerding, M.V. (2015). Motor Learning and Control for Dancers. Human Kinetics.</td><td>1</td><td></td></tr>
<tr><td>2. Mc Morrris, T., & Hale, T. (2006). Coaching Science. Wiley.</td><td>1</td><td></td></tr>
<tr><td>Optional literature</td><td colspan="3">1. Miletić, A, Kostić, R, Božanić, A, & Miletić, Đ. (2009). Pain status monitoring in adolescent dancers. Med Probl Perform Art., 24 (3), 120-124.
2. Ramel, E.M., Moritz, U., & Jarnlo, G.B. (1999). Validation of a pain questionnaire (SEFIP) for dancers with a special created test battery. Med Probl Perform Art., 14 (4), 196-203.
3. Rusel, J.A. (2013). Preventing dance injuries: current perspectives. Open Access J Sport Med.,4, 199-210.
4. Srhoj, LJ., Katic, R., & Kaliterna, A. (2006). Motor abilities in dance structure performance in female students. Coll Antropol., 30 (2), 335-341.
5. Uzunović, S. (2008). The transformation of strength, speed and coordination under the influence of sport dancing. Facta Univ Phys Educ Sport., 6 (2), 135-146.

* other scientific papers from the relevant databases in kinesiology</td></tr>
<tr><td>Quality assurance methods that ensure the acquisition of exit competencies</td><td colspan="3">questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Language/s of the course</td><td colspan="3">Croatian
English</td></tr>
</table>

<table>
<tr><td>TITLE OF COURSE</td><td colspan="5">MODELS OF ORIENTATION AND SELECTION IN KINESIOLOGY</td></tr>
<tr><td>Code</td><td>MSOK</td><td>Year of study</td><td colspan="3">1</td></tr>
<tr><td>Course teacher/s</td><td>Nebojša Zagorac, PhD
Full Professor</td><td>Credit value (ECTS)</td><td colspan="3">4</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>10</td><td>0</td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>elective course</td><td>Percentage of e-learning application</td><td colspan="3">20%</td></tr>
<tr><td colspan="6">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="5">To acquire competencies necessary for development and evaluation of new procedures in the process of selection and orientation in sports.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="5">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="5">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</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="5"><table>
<tr><th></th><th>Content</th><th>Number of hours</th></tr>
<tr><td>1.</td><td>Conceptual models of detection and identification of talents</td><td>2</td></tr>
<tr><td>2.</td><td>Theoretical model of talent development</td><td>1</td></tr>
<tr><td>3.</td><td>Analysis of previous knowledge on morphological, motor, functional, cognitive and conative features of elite athletes</td><td>1</td></tr>
<tr><td>4.</td><td>Defining research problem and goal</td><td>1</td></tr>
<tr><td>5.</td><td>Problem of choosing variables for assessment of relevant factors of anthropological status of athletes</td><td></td></tr>
<tr><td>6.</td><td>Problem of choosing multivariate statistical methods for identification of anthropological regulatory mechanisms responsible for technical and situational success</td><td>1</td></tr>
<tr><td>7.</td><td>Models of orientation and selection in elite sports</td><td>1</td></tr>
<tr><td>8.</td><td>Models of orientation and selection in school sports</td><td>1</td></tr>
<tr><td>9.</td><td>Models of orientation in recreation – sport for all</td><td>1</td></tr>
<tr><td></td><td>Number of teaching hours - TOTAL</td><td>10</td></tr>
</table></td></tr>
<tr><td>Forms of instruction:</td><td colspan="2">☑ lectures
☑ seminars and workshops
☐ exercises
☐ on line in entirely
☑ partial e-learning
☐ field work</td><td colspan="3">☑ independent assignments
☐ multimedia
☐ laboratory
☑ work with mentor</td></tr>
<tr><td>Student responsibilities</td><td colspan="5">Class attendance is mandatory according to Regulations on Study Programmes and Studying, which entitles students for a signature to the course.</td></tr>
</table>

<table>
<tr><td></td><td colspan="6">Within the exam, students are required to write and present a seminar essay on a given topic and pass the oral exam.</td></tr>
<tr><td rowspan="5">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):</td><td>Class attendance</td><td>1</td><td>Research</td><td>1</td><td>Practical training</td><td></td></tr>
<tr><td>Experimental work</td><td></td><td>Report</td><td></td><td></td><td></td></tr>
<tr><td>Essay</td><td></td><td>Seminar essay</td><td>1</td><td></td><td></td></tr>
<tr><td>Tests</td><td></td><td>Oral exam</td><td>1</td><td></td><td></td></tr>
<tr><td>Written exam</td><td></td><td>Project</td><td></td><td></td><td></td></tr>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="6">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%</td></tr>
<tr><td rowspan="2">Required literature (available in the library and via other media)</td><td colspan="3">Title</td><td>Number of copies in the libraries</td><td>Availability via other media</td></tr>
<tr><td colspan="3">1. Malina, R.M., & Bouchard, C. (1991). Growth, maturation and physical activity. Champaign, EL: Human Kinetics.</td><td>1</td><td></td></tr>
<tr><td>Optional literature</td><td colspan="6">1. Models of developmental processes in kinesiology – formation of anthropological complexes, Split, 2016. Scientific book.
2. Ross, J.G., Dotson, C.O., Gilbert, G.G., & Katz, S J. (1985). What are kids doing in physical education? Journal of Physical Education. Recreation and Dance, 56 (1), 31-34.
3. Pearson, R.E., & Petitpas, A.J. (1990). Transitions of athletes: developmental and preventative perspectives. Journal of Counselling and Development, 69, 7-10.
4. 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.
5. 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.
6. Balyi, I. (1998). Long-term planning of athlete development - the training to train phase. FHS: The UK's Quarterly Coaching Magazine, 8-11.
7. Hoare, D. (1998). Talent search. Sports Coach, 21 (3), 32-33.
8. Williams, A.M., & Reilly, T. (2000). Talent identification and development. Journal of Sport Sciences, 18, 657-667.
9. Srhoj, V., Rogulj, N., Zagorac, N., & Katić, R. (2006). A new model of selection in women's handball. Coll Antropol, 30 (3) 601-605.
10. Zagorac, N., Retelj, E., & Katić, R. (2008). Successful pole vault influenced by certain kinematical parameters. Coll Antropol, 32 (4), 1133-1139.
11. 1Zagorac, 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. Coll Antropol, 32 (3), 843-850.

* other scientific papers from the relevant databases in kinesiology</td></tr>
<tr><td>Quality assurance methods that ensure</td><td colspan="6">questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split</td></tr>
</table>

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

<table>
<tr><td>TITLE OF COURSE</td><td colspan="5">SELECTED CHAPTERS ON BIOLOGICAL PSYCHOLOGY AND NEUROSCIENCE</td></tr>
<tr><td>Code</td><td>NZK</td><td>Year of study</td><td colspan="3">1</td></tr>
<tr><td>Course teacher/s</td><td>Goran Kardum, PhD
Associate Professor
Andreja Bubić, PhD
Assistant Professor</td><td>Credit value (ECTS)</td><td colspan="3">4</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>10</td><td>0</td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>elective course</td><td>Percentage of e-learning application</td><td colspan="3">20%</td></tr>
<tr><td colspan="6">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="5">To teach students to understand cortical organisation and neurofunctional mechanisms of human brain from the aspect of kinesiology.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="5">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="5">Learning outcomes
– to understand cortical organisation of human brain
– to analyse contemporary biological features of psychological processes
– to analyse a role and principles of biological determinants setting physiological and psychological framework for sports activities
– to collaborate with members of interdisciplinary sports team</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="5"><table>
<tr><th></th><th>Content</th><th>Number of hours</th></tr>
<tr><td>1.</td><td>Neocortical organisation</td><td>2</td></tr>
<tr><td>2.</td><td>Neurofunctional aspects and psychological effects in occurrence and transmission of a nerve impulse, structure and function of synapse in neurotransmission and transmission of a signal: description, types and contemporary notions</td><td>2</td></tr>
<tr><td>3.</td><td>Cortical organisation, sensorimotor and associative areas through prism of contemporary neuroscientific research.</td><td>1</td></tr>
<tr><td>4.</td><td>Localisation and laterisation of functions of cerebral cortex</td><td>1</td></tr>
<tr><td>5.</td><td>Developmental and adult brain plasticity in context of doing sport: specificity of cognitive and neural functions in athletes</td><td>1</td></tr>
<tr><td>6.</td><td>Implications of brain plasticity for organisation of an athlete’s training session</td><td>1</td></tr>
<tr><td>7.</td><td>Brain plasticity and neuropsychological evaluation after the most frequent injuries or specific diagnostic categories</td><td>1</td></tr>
<tr><td>8.</td><td>Cognitive neuroscience, neuropsychological evaluations and an interdisciplinary team</td><td>1</td></tr>
<tr><td></td><td>Number of teaching hours - TOTAL</td><td>10</td></tr>
</table></td></tr>
<tr><td>Forms of instruction:</td><td colspan="2">☑ lectures
☑ seminars and workshops
☐ exercises
☐ on line in entirely
☑ partial e-learning</td><td colspan="3">☑ independent assignments
☐ multimedia
☐ laboratory
☑ work with mentor</td></tr>
</table>

<table>
<tr><td></td><td colspan="6">☐ field work</td><td></td></tr>
<tr><td>Student responsibilities</td><td colspan="7">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.</td></tr>
<tr><td rowspan="6">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):</td><td>Class attendance</td><td>1</td><td>Research</td><td>1</td><td>Practical training</td><td></td></tr>
<tr><td>Experimental work</td><td></td><td>Report</td><td></td><td></td><td></td></tr>
<tr><td>Essay</td><td></td><td>Seminar essay</td><td>1</td><td></td><td></td></tr>
<tr><td>Tests</td><td></td><td>Oral exam</td><td>1</td><td></td><td></td></tr>
<tr><td>Written exam</td><td></td><td>Project</td><td></td><td></td><td></td></tr>
<tr><td colspan="6"></td></tr>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="7">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%</td></tr>
<tr><td rowspan="4">Required literature (available in the library and via other media)</td><td colspan="4">Title</td><td>Number of copies in the libraries</td><td>Availability via other media</td></tr>
<tr><td colspan="4">13. Pinel, J.P.J. (2010). Biopsychology (8th ed.). Boston: Pearson International Edition.</td><td></td><td></td></tr>
<tr><td colspan="4">14. Pinel, J.P.J. (2002). Biološka psihologija. Jastrebarsko: Naklada Slap.</td><td></td><td></td></tr>
<tr><td colspan="4">15. Materijali s predavanja.</td><td></td><td>moodle.kifst.hr</td></tr>
<tr><td>Optional literature</td><td colspan="7">1. Kandel, E.R., & Schwartz, J.H. (2000). Principles of Neural Science (4th ed.). New York/Amsterdam/Oxford: Elsevier.
2. Squire, L.R., Berg, D., Bloom, F.E., du Lac, S., Ghosh, A., & Spitzer, N.C. (2008). Fundamental Neuroscience (3rd ed.). Burlington/San Diego/London: Elsevier.

* other scientific papers from the relevant databases in kinesiology</td></tr>
<tr><td>Quality assurance methods that ensure the acquisition of exit competencies</td><td colspan="7">questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Language/s of the course</td><td colspan="7">Croatian
English</td></tr>
</table>

<table>
<tr><td>TITLE OF COURSE</td><td colspan="5">MEDICAL DIAGNOSTIC METHODS IN KINESIOLOGY AND SPORT</td></tr>
<tr><td>Code</td><td>MDMK</td><td>Year of study</td><td colspan="3">1</td></tr>
<tr><td>Course teacher/s</td><td>Assistant Professor Vladimir Ivančev, PhD
Assistant Professor Marko Erceg, PhD</td><td>Credit value (ECTS)</td><td colspan="3">4</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>10</td><td>0</td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>elective course</td><td>Percentage of e-learning application</td><td colspan="3">20%</td></tr>
<tr><td colspan="6">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="5">To acquire competencies of certain levels related to selection, implementation and interpretation of medical diagnostic methods in kinesiology and sports.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="5">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="5">Learning outcomes
- to argue critically the possibilities and valid benefits of medical diagnostic methods in permanent, dynamic tracking of the training process, in development and adjustment of training by current functional abilities
- to read, evaluate and used the existing literature from the targeted area
- to develop a research project based on diagnostic methods and measurements of medical parameters
- to understand fundamental ethical standards of research which has a man at its centre
- to recognise specificities of working with respondents, laboratory and other biological samples and a necessity of keeping secret information on medical and kinesiological contents</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="5"><table>
<tr><th></th><th>Content</th><th>Number of hours</th></tr>
<tr><td>1.</td><td>Review of methods indicated for diagnosing functional and health status in athletes</td><td>2</td></tr>
<tr><td>2.</td><td>Diagnostics of cardiovascular and respiratory system (spiroergometry, ergometry, spirometry)</td><td>2</td></tr>
<tr><td>3.</td><td>Diagnostics of metabolic and energetic processes</td><td>2</td></tr>
<tr><td>4.</td><td>Diagnostics of laboratory metabolic parameters (lactate measurement in blood)</td><td>2</td></tr>
<tr><td>5.</td><td>Student presentation of selected topics upon an insight in contemporary scientific literature</td><td>2</td></tr>
<tr><td></td><td>Number of teaching hours - TOTAL</td><td>10</td></tr>
</table></td></tr>
<tr><td>Forms of instruction:</td><td colspan="5">☑ lectures
☑ seminars and workshops
☐ exercises
☐ on line in entirely
☑ partial e-learning
☐ field work
☑ independent assignments
☐ multimedia
☐ laboratory
☑ work with mentor</td></tr>
</table>

<table>
<tr><td>Student responsibilities</td><td colspan="6">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.</td></tr>
<tr><td rowspan="5">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):</td><td>Class attendance</td><td>1</td><td>Research</td><td>0.5</td><td>Practical training</td><td></td></tr>
<tr><td>Experimental work</td><td>0.5</td><td>Report</td><td></td><td></td><td></td></tr>
<tr><td>Essay</td><td></td><td>Seminar essay</td><td>1</td><td></td><td></td></tr>
<tr><td>Tests</td><td></td><td>Oral exam</td><td>0.5</td><td></td><td></td></tr>
<tr><td>Written exam</td><td></td><td>Project</td><td>0.5</td><td></td><td></td></tr>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="6">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%</td></tr>
<tr><td rowspan="3">Required literature (available in the library and via other media)</td><td colspan="3">Title</td><td>Number of copies in the libraries</td><td>Availability via other media</td></tr>
<tr><td colspan="3">1. Wasserman, K., Hansen, J.E., Sue, D.Y., Stringer, W.W., & Whipp, B.J. (2005). Principles of exercise testing and interpretation: including pathophysiology and clinical applications (4th ed.). Philadelphia, USA: Lippincott Williams & Wilkins.</td><td></td><td></td></tr>
<tr><td colspan="3">2. Kenney, W.L., Wilmore, J., & Costill, D. (2015). Physiology of Sport and Exercise (6th ed.). Human kinetics.</td><td></td><td></td></tr>
<tr><td>Optional literature</td><td colspan="6">1. Clinical Exercise Testing - European Respiratory Society Monograph 40 (2007).

* other scientific papers from the relevant databases in kinesiology and sports medicine</td></tr>
<tr><td>Quality assurance methods that ensure the acquisition of exit competencies</td><td colspan="6">questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Language/s of the course</td><td colspan="6">Croatian
English</td></tr>
</table>

<table>
<tr><td>TITLE OF COURSE</td><td colspan="6">INTEGRATION OF SCIENCE AND ELITE SPORT</td></tr>
<tr><td>Code</td><td>IZVS</td><td>Year of study</td><td colspan="4">1</td></tr>
<tr><td>Course teacher/s</td><td>Assistant Professor Mario Tomljanović, PhD
docent
Assistant Professor Ana Kezić, PhD</td><td>Credit value (ECTS)</td><td colspan="4">4</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>10</td><td>0</td><td>0</td><td>0</td></tr>
<tr><td>Course status</td><td>elective course</td><td>Percentage of e-learning application</td><td colspan="4">20%</td></tr>
<tr><td colspan="7">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="6">To acquire competencies necessary for implementation of measurements and precision of research design on a sample of elite athletes.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="6">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="6">Learning outcomes
– to analyse the role of science and elite sport
– to identify problems of elite athlete research
– to select tools for measurements of certain characteristics on a sample of high-level athletes
– to develop a research design on a sample of elite athletes</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="6"><table>
<tr><th></th><th>Content</th><th>Number of hours</th></tr>
<tr><td>1.</td><td>Role of science in elite sport. Specificities of elite athlete population.</td><td>2</td></tr>
<tr><td>2.</td><td>Workshop: review of previous research and their analyses</td><td>1</td></tr>
<tr><td>3.</td><td>Assessment protocols for assessing high-level athletes. Organisation and measurement of high-level athletes.</td><td>2</td></tr>
<tr><td>4.</td><td>Limitations and problems of research on a sample of elite athletes.</td><td>3</td></tr>
<tr><td>5.</td><td>Motivational issues during measurements of elite athletes.</td><td>1</td></tr>
<tr><td>6.</td><td>Workshop: development of research design on a sample of elite athletes.</td><td>1</td></tr>
<tr><td></td><td>Number of teaching hours - TOTAL</td><td>10</td></tr>
</table></td></tr>
<tr><td>Forms of instruction:</td><td colspan="3">☑ lectures
☑ seminars and workshops
☐ exercises
☐ on line in entirely
☑ partial e-learning
☐ field work</td><td colspan="3">☑ independent assignments
☐ multimedia
☐ laboratory
☑ work with mentor</td></tr>
<tr><td>Student responsibilities</td><td colspan="6">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.</td></tr>
<tr><td></td><td>Class attendance</td><td>0,5</td><td>Research</td><td>0,5</td><td>Practical training</td><td></td></tr>
</table>

<table>
<tr><td rowspan="4">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):</td><td>Experimental work</td><td>0,5</td><td>Report</td><td></td><td></td><td></td></tr>
<tr><td>Essay</td><td></td><td>Seminar essay</td><td>2</td><td></td><td></td></tr>
<tr><td>Tests</td><td></td><td>Oral exam</td><td>0,5</td><td></td><td></td></tr>
<tr><td>Written exam</td><td></td><td>Project</td><td></td><td></td><td></td></tr>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="6">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%</td></tr>
<tr><td rowspan="2">Required literature (available in the library and via other media)</td><td colspan="3">Title</td><td>Number of copies in the libraries</td><td>Availability via other media</td></tr>
<tr><td colspan="3">1. MacDougal, J., Wenger, H., & Green, H. (1991). Physiological testing of the high performance athlete. Human Kinetics.</td><td></td><td>moodle.kifst.hr</td></tr>
<tr><td>Optional literature</td><td colspan="6">1. Jerry, R., Thomas, J. i Nelson, K. (2001). Research methods in Physical Activity. Human Kinetics.
2. Maud, P., & Foster, C. (2006). Physiological Assessment of Human Fitness. Human Kinetics.
3. Day, R., & Gastel, B. (2012). How to write and publish a scientific paper. Cambridge University Press.
4. 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. Journal of Physical Education and Sport, 16 (4), 1381-1390.
5. 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. Journal of Strength and Conditioning Research, 30 (9), 2460-2469.

* other scientific papers from the relevant databases in kinesiology</td></tr>
<tr><td>Quality assurance methods that ensure the acquisition of exit competencies</td><td colspan="6">questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Language/s of the course</td><td colspan="6">Croatian
English</td></tr>
</table>

<table>
<tr><td>TITLE OF COURSE</td><td colspan="5">SELECTED CHAPTERS ON QUANTITATIVE METHODS</td></tr>
<tr><td>Code</td><td>OPKM</td><td>Year of study</td><td colspan="3">1</td></tr>
<tr><td>Course teacher/s</td><td>Associate Professor Igor Jelaska, Phd</td><td>Credit value (ECTS)</td><td colspan="3">4</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>10</td><td>0</td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>elective course</td><td>Percentage of e-learning application</td><td colspan="3">20%</td></tr>
<tr><td colspan="6">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="5">To acquire competencies necessary for individual selection and application of adequate statistical procedures in processes of analysis of multivariate kinesiological problems.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="5">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="5">Learning outcomes
– to assess critically conceptual, methodological and interpretative problems in kinesiological research
– to apply individually non-linear regression models in kinesiological research
– to discuss critically about adequacy of application of a certain statistical model
– to compare results of application of different models in research and the area of kinesiology
– to develop a research design in the area of kinesiology
– to present a research design in front of the committee in the allotted time</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="5"><table>
<tr><th></th><th>Content</th><th>Number of hours</th></tr>
<tr><td>1.</td><td>Conceptual, methodological and interpretative problems in kinesiological research</td><td>2</td></tr>
<tr><td>2.</td><td>Recognition, application and interpretation of non-linear regression models (polynomial, logarithmic, exponential and periodic) of kinesiological research practice</td><td>2</td></tr>
<tr><td>3.</td><td>Logistic regression</td><td>2</td></tr>
<tr><td>4.</td><td>Introduction to analysis of dynamic systems in kinesiology, Identification of multivariate processes</td><td>2</td></tr>
<tr><td>5.</td><td>Methodological foundations of application of random processes in kinesiology, Basic foundations of modelling structural equations</td><td>2</td></tr>
<tr><td></td><td>Number of teaching hours - TOTAL</td><td>10</td></tr>
</table></td></tr>
<tr><td>Forms of instruction:</td><td colspan="2">☑ lectures
☑ seminars and workshops
☐ exercises
☐ on line in entirely
☑ partial e-learning
☐ field work</td><td colspan="3">☑ independent assignments
☐ multimedia
☐ laboratory
☑ work with mentor</td></tr>
<tr><td>Student responsibilities</td><td colspan="5">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.</td></tr>
</table>

<table>
<tr><td rowspan="5">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):</td><td>Class attendance</td><td>0.3</td><td>Research</td><td>0.5</td><td>Practical training</td><td></td></tr>
<tr><td>Experimental work</td><td>1</td><td>Report</td><td></td><td></td><td></td></tr>
<tr><td>Essay</td><td></td><td>Seminar essay</td><td>1</td><td></td><td></td></tr>
<tr><td>Tests</td><td></td><td>Oral exam</td><td>0.5</td><td></td><td></td></tr>
<tr><td>Written exam</td><td></td><td>Project</td><td>0.7</td><td></td><td></td></tr>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="6">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%</td></tr>
<tr><td rowspan="2">Required literature (available in the library and via other media)</td><td colspan="3">Title</td><td>Number of copies in the libraries</td><td>Availability via other media</td></tr>
<tr><td colspan="3">1. Tabachnick, B.G., & Fidell, L.S. (2006). Using Multivariate Statistics (5th ed.). Boston: Allyn and Bacon.</td><td>1</td><td></td></tr>
<tr><td>Optional literature</td><td colspan="6">1. Abraham, R.H., & Shaw, C.D. (1992). Dynamics—the geometry of behavior, (2nd ed.). Addison-Wesley.
2. Alligood, K.T., Sauer, T.D., & Yorke, J.A. (2000). Chaos. An introduction to dynamical systems. Springer Verlag.
3. Bollen, K.A. (1989). Structural equations with latent variables. NY: Wiley.
4. Fan, X., Thompson, B., & Wang, L. (1999). Effects of sample size, estimation method, and model specification on structural equation modeling fit indexes. Structural Equation Modeling, 6 (1), 56-83.
5. 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. Croatian Journal of Education, 13 (1), 76-98.
6. Jelaska, I., Trninić, S., & Perica, A. (2012). Analysis of Basketball Game States and Transition Probabilities Using the Markov Chains. Physical Culture - Journal of Sport Sciences & Physical Education, 66 (1), 15-24.
7. Perić, N., & Petrović, I. (2000). Identifikacija procesa. Zagreb: Skriptarnica, FER.

* other scientific papers from the relevant databases in kinesiology</td></tr>
<tr><td>Quality assurance methods that ensure the acquisition of exit competencies</td><td colspan="6">questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Language/s of the course</td><td colspan="6">Croatian
English</td></tr>
</table>

2.2.3. Semester III

<table>
<tr><td>TITLE OF COURSE</td><td colspan="5">KINESIOLOGY IN ARMED FORCES</td></tr>
<tr><td>Code</td><td>KOS</td><td>Year of study</td><td colspan="3">2</td></tr>
<tr><td>Course teacher/s</td><td>Boris Maleš, PhD
Full Professor Tenure
Boris Milavić, PhD
Assistant Professor</td><td>Credit value (ECTS)</td><td colspan="3">3</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>10</td><td>0</td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>elective course</td><td>Percentage of e-learning application</td><td colspan="3">20%</td></tr>
<tr><td colspan="6">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="5">To acquire competencies necessary for development and implementation of research in the area of applied kinesiology in armed forces.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="5">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="5">Learning outcomes
– to critically read, evaluate and organise the existing literature from the area of kinesiology in armed forces
– to compare different types of research implemented on members of armed forces
– to develop a design of research dimensions of anthropological status int he area of applied kinesiology in armed forces
– to present the design of research in the area of applied kinesiology in armed forces in front of a committee in the allotted time</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="5"><table>
<tr><th></th><th>Content</th><th>Number of hours</th></tr>
<tr><td>1.</td><td>Research analyses of morphological characteristics of armed forces members and application of anthropometry in armed forces.</td><td>2</td></tr>
<tr><td>2.</td><td>Research analyses of motor and functional abilities of armed forces members .</td><td>2</td></tr>
<tr><td>3.</td><td>Research analyses of other dimensions of anthropological status of armed forces members.</td><td>2</td></tr>
<tr><td>4.</td><td>Research analyses of relations between certain dimensions of anthropological status of the military population.</td><td>1</td></tr>
<tr><td>5.</td><td>Research analyses of the influence of military treatments on certain anthropological features of armed forces members.</td><td>1</td></tr>
<tr><td>6.</td><td>Testing anthropological features of armed forces members: development and evaluation of measuring instruments.</td><td>1</td></tr>
<tr><td>7.</td><td>Development of research design in the area of applied kinesiology in armed forces.</td><td>1</td></tr>
<tr><td></td><td>Number of teaching hours - TOTAL</td><td>10</td></tr>
</table></td></tr>
<tr><td>Forms of instruction:</td><td colspan="2">☑ lectures</td><td colspan="3">☑ independent assignments</td></tr>
</table>

	☑ seminars and workshops ☐ exercises ☐ *on line* in entirely ☑ partial e-learning ☐ field work	☐ multimedia ☐ laboratory ☑ work with mentor
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 topic and pass the oral exam.	

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		Practical training	
	Experimental work		Report			
	Essay		Seminar essay	1		
	Tests		Oral exam	1		
	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%

	Title	**Number of copies in the libraries**	**Availability via other media**
Required literature (available in the library and via other media)	1. Bendo, S.A., Lang, C.E., Daniell, W.E., Wiesen, A.R., Datu, B., & Niebuhr, D.W. (2010). Assossiation of weight at enlistment with enrolment in the Army Weight Control Program and subsequent attrition in the Assessment of Recruit Motivation and Strength study. *Military medicine, 175* (3), 188-194.		moodle.kifst.hr
	2. Bishop, P.A., Crowder, T.A., Fielitz, L.R., Lindsay, T.R., & Woods, A.K. (2008). Impact of body weight on performance of a weight-supported motor fitness test in men. *Military medicine, 173* (11), 1108-1114.		moodle.kifst.hr
	3. Pandorf C.E, Nindl, B.C., Montain, S.J., Castellani, J.W., Frykman, P.N., Leone, C.D., & Harman, E.A. (2003). Reliability assessment of two militarily relevant occupational physical performance tests. *Canadian journal of applied physiology, 28* (1), 27-37.		moodle.kifst.hr
	4. Allsopp, A.J., Scarpello, E.G., Andrews, S., & Pethybridge, R.J. (2003). Survival of the fittest? The scientific basis for the Royal Navy prejoining fitness test. *Journal of the royal naval medical service, 89* (1), 11-18.		moodle.kifst.hr
Optional literature	1. Brock, J.R., & Legg, S.J. (1997). The effects of 6 weeks training on the physical fitness of female recruits to the British army. *Ergonomics***,** *40* (3), 400-411.		

	2. Legg, S.J., & Duggan, A. (1996). The effects of basic training on aerobic fitness and muscular strength and endurance of British Army recruits. *Ergonomics***,** *39* (12), 1403-1418. 3. 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. *Collegium antropologicum*, *26* (1), 221-229. 4. 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.), *Proceedings of 4th International Scientific Conference "Contemporary Kinesiology"* (pp. 66-78). Split: Faculty of Kinesiology, University of Split. 5. 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. * ***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

<table>
<tr><td>TITLE OF COURSE</td><td colspan="6">KINESIOLOGY OF EDUCATION OF PRESCHOOL, YOUNGER, MIDDLE AND OLDER SCHOOL AGE</td></tr>
<tr><td>Code</td><td>EDD</td><td>Year of study</td><td colspan="4">2</td></tr>
<tr><td>Course teacher/s</td><td>Ivan Prskalo, PhD
Full Professor Tenure</td><td>Credit value (ECTS)</td><td colspan="4">3</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>10</td><td>0</td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>elective course</td><td>Percentage of e-learning application</td><td colspan="4">20%</td></tr>
<tr><td colspan="7">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="6">To train students for analysis of specific aspects in kinesiology of education of preschool, younger, middle and older school age.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="6">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="6">Learning outcomes
– 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
– to chose and evaluate work methods in kinesiological education of children and pupils</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="6"><table>
<tr><th></th><th>Content</th><th>Number of hours</th></tr>
<tr><td>1.</td><td>Kinesiological perspective on contemporary problems of education</td><td>3</td></tr>
<tr><td>2.</td><td>Work modalities with preschool, younger, middle and older school age</td><td>3</td></tr>
<tr><td>3.</td><td>Didactical organisational work forms in the function of optimising the process of physical exercising in children and pupils</td><td>2</td></tr>
<tr><td>4.</td><td>Work methods in activities with children of preschool age and children of younger, middle and older school age</td><td>2</td></tr>
<tr><td></td><td>Number of teaching hours - TOTAL</td><td>10</td></tr>
</table></td></tr>
<tr><td>Forms of instruction:</td><td colspan="3">☑ lectures
☑ seminars and workshops
☐ exercises
☐ on line in entirely
☑ partial e-learning
☐ field work</td><td colspan="3">☑ independent assignments
☐ multimedia
☐ laboratory
☑ work with mentor</td></tr>
<tr><td>Student responsibilities</td><td colspan="6">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.</td></tr>
<tr><td rowspan="3">Screening student work (specify the proportion of ECTS credits for each</td><td>Class attendance</td><td>0.5</td><td>Research</td><td>0.5</td><td>Practical training</td><td></td></tr>
<tr><td>Experimental work</td><td></td><td>Report</td><td></td><td></td><td></td></tr>
<tr><td>Essay</td><td></td><td>Seminar essay</td><td>1</td><td></td><td></td></tr>
</table>

<table>
<tr><td rowspan="2">activity so that the total number of ECTS credits is equal to the ECTS value of the course):</td><td>Tests</td><td></td><td>Oral exam</td><td>1</td><td></td><td></td></tr>
<tr><td>Written exam</td><td></td><td>Project</td><td></td><td></td><td></td></tr>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="6">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%</td></tr>
<tr><td rowspan="2">Required literature (available in the library and via other media)</td><td colspan="3">Title</td><td>Number of copies in the libraries</td><td>Availability via other media</td></tr>
<tr><td colspan="3">16. Johnson, R.B., & Christensen, L.B (2016). Educational research: quantitative, qualitative and mixed approaches (6th ed.). Thousand Oaks, California: SAGE Publications.</td><td>1</td><td>moodle.kifst.hr</td></tr>
<tr><td>Optional literature</td><td colspan="6">52. 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.
53. Badric, M., Prskalo, I., & Matijevic, M. (2015). Primary school pupils' free time activities. Croatian Journal of Education, 17 (2), 299-331.
54. Findak, V. (2015). Kinesiology Education - Present and Future. Croatian Journal of Education, 18 (Supplement 1), 279-291.
55. Findak, V. (2014). Kinesiology Education - a Challenge for Modern Theory and Practice in Education. Croatian Journal of Education, 16 (3), 623-641.
56. Findak, V. (2011). Kinesiological prevention in the field of education. Croatian Journal of Education, 13 (4), 71-86.
57. Prskalo, I. (2015). Kinesiology of free time. Croatian Journal of Education, 17 (Special Issue 1), 219-228.

* other scientific papers from the relevant databases in kinesiology</td></tr>
<tr><td>Quality assurance methods that ensure the acquisition of exit competencies</td><td colspan="6">questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Language/s of the course</td><td colspan="6">Croatian
English</td></tr>
</table>

TITLE OF COURSE	TRANSFORMATIONAL EFFECTS OF KINESITHERAPEUTIC PROCEDURES					
Code	TUKP	Year of study	2			
Course teacher/s	Jelena Paušić, PhD Associate Professor	Credit value (ECTS)	3			
Associate teachers		Instruction form (number of hours per semester)	L	S	E	F
			10	0	0	
Course status	elective course	Percentage of e-learning application	20%			

COURSE DESCRIPTION

Course objectives	To acquire competencies necessary for development and evaluation of transformational effects of kinesitherapeutic exercising programmes.
Course enrolment requirements and entry competencies required for the course	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)	***Learning outcomes*** – 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 – to analyse changes of musculoskeletal system under influence of transformational processes in kinesitherapy

Course content broken down in detail by weekly class schedule

	Content	Number of hours
1.	Classification of transformational processes in kinesitherapy	2
2.	Effects of transformational processes in kinesitherapy	3
3.	Data collection and their synthesis in kinesitherapy	2
4.	Analysis of changes in musculoskeletal system	3
	Number of teaching hours - TOTAL	**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 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 proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the*

Class attendance	0.5	Research	1	Practical training	
Experimental work		Report			
Essay		Seminar essay	0.5		
Tests		Oral exam	1		

<table>
<tr><td>ECTS value of the course):</td><td>Written exam</td><td></td><td>Project</td><td></td><td></td><td></td></tr>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="6">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.

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<tr><td rowspan="3">Required literature (available in the library and via other media)</td><td colspan="4">Title</td><td>Number of copies in the libraries</td><td>Availability via other media</td></tr>
<tr><td colspan="4">1. 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.</td><td></td><td></td></tr>
<tr><td colspan="4">2. Paušić, J., Pedišić, Ž., & Dizdar, D. (2010). Reliability of a Photographic Method for Assessing Standing Posture of Elementary School Students. Journal of Manipulative and Physiological Therapeutics, 33 (6), 425-431.</td><td></td><td></td></tr>
<tr><td>Optional literature</td><td colspan="6">* other scientific papers from the relevant databases in kinesiology</td></tr>
<tr><td>Quality assurance methods that ensure the acquisition of exit competencies</td><td colspan="6">questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Language/s of the course</td><td colspan="6">Croatian
English</td></tr>
</table>

<table>
<tr><td>TITLE OF COURSE</td><td colspan="5">KINEMATIC ANALYSIS OF KINESIOLOGICAL ACTIVITIES</td></tr>
<tr><td>Code</td><td>KKA</td><td>Year of study</td><td colspan="3">2</td></tr>
<tr><td>Course teacher/s</td><td>Vladan Papić, PhD
Full Professor Tenure</td><td>Credit value (ECTS)</td><td colspan="3">3</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>10</td><td></td><td></td><td></td></tr>
<tr><td>Course status</td><td>elective course</td><td>Percentage of e-learning application</td><td colspan="3">20%</td></tr>
<tr><td colspan="6">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="5">The aim this study is to increase knowledge in the area of recognition and analysis of human activities as well as to acquire fundamentals of kinematic analysis by learning modern methods and recording systems, and movement detection. Students shall be able to conduct research and apply new methods based on ICT technologies in sport movement tracking and analysis.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="5">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="5">Learning outcomes
– to search independently scientific literature from the area of kinematic activities in sports and to analyse it
– to write and present a review paper on contemporary solutions from the area of analysis of kinematic activities in sports
– to argue critically features of new research results in the area of recognition of sport activities and analysis based on computer aspect
– to suggest equipment, procedures and methods for development of systems for analysis of certain kinesiological activities in sports
– to evaluate new methods in the area of recognition and analysis of sports activities</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="5"><table>
<tr><th></th><th>Content</th><th>Number of hours</th></tr>
<tr><td>1.</td><td>Introduction</td><td>1</td></tr>
<tr><td>2.</td><td>Quantitative and qualitative analysis</td><td>2</td></tr>
<tr><td>3.</td><td>Examples of systems</td><td>2</td></tr>
<tr><td>4.</td><td>Tracking an object</td><td>1</td></tr>
<tr><td>5.</td><td>Tracking systems</td><td>2</td></tr>
<tr><td>6.</td><td>Seminar essays</td><td>2</td></tr>
<tr><td></td><td>Number of teaching hours - TOTAL</td><td>10</td></tr>
</table></td></tr>
<tr><td></td><td colspan="2">☑ lectures</td><td colspan="3">☑ independent assignments</td></tr>
</table>

<table>
<tr><td>Forms of instruction:</td><td colspan="3">☑ seminars and workshops
☐ exercises
☐ on line in entirely
☑ partial e-learning
☐ field work</td><td colspan="3">☑ multimedia
☐ laboratory
☑ work with mentor</td></tr>
<tr><td>Student responsibilities</td><td colspan="6">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.</td></tr>
<tr><td rowspan="6">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):</td><td>Class attendance</td><td>0.5</td><td>Research</td><td>0.5</td><td>Practical training</td><td></td></tr>
<tr><td>Experimental work</td><td></td><td>Report</td><td></td><td></td><td></td></tr>
<tr><td>Essay</td><td></td><td>Seminar essay</td><td>1</td><td></td><td></td></tr>
<tr><td>Tests</td><td></td><td>Oral exam</td><td>1</td><td></td><td></td></tr>
<tr><td>Written exam</td><td></td><td>Project</td><td></td><td></td><td></td></tr>
<tr><td colspan="6"></td></tr>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="6">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.

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– oral exam – 40%</td></tr>
<tr><td rowspan="3">Required literature (available in the library and via other media)</td><td colspan="3">Title</td><td>Number of copies in the libraries</td><td>Availability via other media</td></tr>
<tr><td colspan="3">1. Bartlett, R. (2007). Introduction to Sports Biomechanics, Analysing Human Movements Patterns (2nd ed.). Routledge.</td><td></td><td>moodle.kifst.hr</td></tr>
<tr><td colspan="3">2. Papić, V., Lecture materials.</td><td></td><td>moodle.kifst.hr</td></tr>
<tr><td>Optional literature</td><td colspan="6">58. Allard, P., Capozzo, A., Lundberg, A., & Vaughan, C. (1997). Three-Dimensional Analysis of Human Locomotion. Chichester: John Wiley.
59. Stokes, I.A.F., Allard, P., & Blanchi, J.B. (1995). Three-Dimensional Analysis of Human Movement. Human Kinetics.
60. Szelinski, R. (2011). Computer vision, Algorithms and Applications. Springer.

* other scientific papers from the relevant databases in kinesiology and technical sciences</td></tr>
<tr><td>Quality assurance methods that ensure the acquisition of exit competencies</td><td colspan="6">questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Language/s of the course</td><td colspan="6">Croatian
English</td></tr>
</table>

<table>
<tr><td>TITLE OF COURSE</td><td colspan="5">EXPERT SYSTEMS IN SPORT</td></tr>
<tr><td>Code</td><td>ESS</td><td>Year of study</td><td colspan="3">2</td></tr>
<tr><td>Course teacher/s</td><td>Nenad Rogulj, PhD
Full Professor
Vladan Papić, PhD
Full Professor</td><td>Credit value (ECTS)</td><td colspan="3">3</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>10</td><td>0</td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>elective course</td><td>Percentage of e-learning application</td><td colspan="3">20%</td></tr>
<tr><td colspan="6">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="5">To acquire competencies for individual development of algorithms of expert systems and to apply expert systems in sport science research.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="5">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="5">Learning 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 systems</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="5"><table>
<tr><th></th><th>Content</th><th>Number of hours</th></tr>
<tr><td>1.</td><td>Definition, development and logical assumptions of expert systems (system shell, fuzzy logic, dynamic programming, fundamentals of neural networks, basis of artificial intelligence)</td><td>2</td></tr>
<tr><td>2.</td><td>Mathematical and Algorithm basis of expert systems</td><td>1</td></tr>
<tr><td>3.</td><td>Tools for development of expert systems based on fuzzy logic</td><td>1</td></tr>
<tr><td>4.</td><td>Application and development of expert systems in kinesiological orientation and athlete selection process</td><td>2</td></tr>
<tr><td>5.</td><td>Application and development of expert systems in diagnostics of anthropological features of athletes and establishing anthropological models</td><td>1</td></tr>
<tr><td>6.</td><td>Application and development of expert systems for evaluation and assessment of motor skills and kinesiological structures in competitive conditions</td><td>2</td></tr>
<tr><td>7.</td><td>Application and development of expert systems for diagnostics and parameter analyses of situational efficiency in sports activities</td><td>1</td></tr>
<tr><td></td><td>Number of teaching hours - TOTAL</td><td>10</td></tr>
</table></td></tr>
<tr><td>Forms of instruction:</td><td colspan="2">☑ lectures
☑ seminars and workshops
☐ exercises
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☑ partial e-learning
☐ field work</td><td colspan="3">☑ independent assignments
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☐ laboratory
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</table>

<table>
<tr><td>Student responsibilities</td><td colspan="6">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.</td></tr>
<tr><td rowspan="5">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):</td><td>Class attendance</td><td>0,5</td><td>Research</td><td>0,5</td><td>Practical training</td><td></td></tr>
<tr><td>Experimental work</td><td></td><td>Report</td><td></td><td></td><td></td></tr>
<tr><td>Essay</td><td></td><td>Seminar essay</td><td>1</td><td></td><td></td></tr>
<tr><td>Tests</td><td></td><td>Oral exam</td><td>1</td><td></td><td></td></tr>
<tr><td>Written exam</td><td></td><td>Project</td><td></td><td></td><td></td></tr>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="6">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.

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<tr><td colspan="3">1. Giarratano, J.C., & Riley, G.D. (2004). Expert Systems: Principles and Programming (4th ed.). Course Technology.</td><td></td><td>moodle.kifst.hr</td></tr>
<tr><td colspan="3">2. Jakson, P. (1998). Introduction to Expert System (3rd ed.). Addison-Wesley.</td><td></td><td>moodle.kifst.hr</td></tr>
<tr><td>Optional literature</td><td colspan="6">61. Chankong, V., & Haimes, Y.Y. (1983). Multiobjective Decision Making. 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. Kinesiology, 32 (2), 207-215.
63. Mallach, E.G. (1994). Understanding decision support system and expert system. Illinois: Irwin.
64. Munroe-Chandler, K.J. (2005). A Discussion on Qualitative Research in Physical Activity. Athletic Insight, 7 (1), 67-81.
65. Negnevitsky, A. (2002). Artificial intelligence. Addison-Wesley.
66. Papić, V., Rogulj, N., & Pleština, V. (2009). Identification of sport talents using a web-oriented expert system with a fuzzy module. Expert Systems with Applications. 36 (5), 8830-8838.

* other scientific papers from the relevant databases in kinesiology and technical sciences</td></tr>
<tr><td>Quality assurance methods that ensure the acquisition of exit competencies</td><td colspan="6">questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Language/s of the course</td><td colspan="6">Croatian
English</td></tr>
</table>

<table>
<tr><td>TITLE OF COURSE</td><td colspan="5">DIAGNOSTICS AND METHODOLOGY IN KINESIOLOGICAL RECREATION AND FITNESS</td></tr>
<tr><td>Code</td><td>DMRF</td><td>Year of study</td><td colspan="3">2</td></tr>
<tr><td>Course teacher/s</td><td>Assistant Professor Dražen Čular, PhD
Assistant Professor Vladimir Ivančev, PhD</td><td>Credit value (ECTS)</td><td colspan="3">3</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Credit value (ECTS)
Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>10</td><td>0</td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>elective course</td><td>Percentage of e-learning application</td><td colspan="3">20%</td></tr>
<tr><td colspan="6">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="5">To teach students implementation of scientific research in the area of kinesiological recreation and fitness.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="5">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="5">Learning outcomes
– to find and analyse the previous research in the area of kinesiological recreation and fitness
– to define goal, sample, variables and methods of data analyses
– to develop an experimental research design
– to apply advanced technological solutions in data collection</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="5"><table><tr><th></th><th>Content</th><th>Number of hours</th></tr><tr><td>1.</td><td>Databases and other sources in the area of kinesiological recreation and fitness</td><td>2</td></tr><tr><td>2.</td><td>Experimental research design</td><td>2</td></tr><tr><td>3.</td><td>Advanced technology in data collection</td><td>2</td></tr><tr><td>4.</td><td>Functional research – basis of establishing health status and functional abilities of participants of recreational programmes</td><td>2</td></tr><tr><td>5.</td><td>Role of functional diagnostics in selection of type, intensity and frequency of physical activities</td><td>2</td></tr><tr><td></td><td>Number of teaching hours - TOTAL</td><td>10</td></tr></table></td></tr>
<tr><td>Forms of instruction:</td><td colspan="5">☑ lectures
☑ seminars and workshops
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<tr><td rowspan="2">Screening student work (specify the proportion of ECTS</td><td>Class attendance</td><td>0.3</td><td>Research</td><td></td><td>Practical training</td><td></td></tr>
<tr><td>Experimental work</td><td></td><td>Report</td><td></td><td></td><td></td></tr>
</table>

credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course):	Essay		Seminar essay	1.7		
	Tests		Oral exam	1		
	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 – 40% – presentation of the seminar essay – 30% – oral exam – 30%

	Title	**Number of copies in the libraries**	**Availability via other media**
Required literature (available in the library and via other media)	1. Jurko, D., Čular, D., Badrić, M., & Sporiš, G, (2015). *Osnove kineziologije*. Split: Filozofski fakultet Sveučilišta u Splitu.	5	
	2. Corbin, C.B, Welk, G.J., Corbin, W.R, & Welk, K.A (2016). *Concepts of Fitness and Wellness: A Comprehensive Lifestyle Approach* (11th ed.). New York, NY: McGraw-Hill.	1	
	3. Andrijašević, M. (2010). *Kineziološka rekreacija.* Zagreb: Kineziološki fakultet Sveučilišta u Zagrebu.	1	
	4. Mackenzie, B. (2005). *101 Performance evaluation tests.* Electric Word pl.	1	
	5. Lecture materials		moodle.kifst.hr
Optional literature	1. Mišigoj Duraković, M. et al. (1999). *Tjelesno vježbanje i zdravlje.* M. Mišigoj Duraković (Ed.). Zagreb: Kineziološki fakultet Sveučilišta u Zagrebu. * ***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		

<table>
<tr><td>TITLE OF COURSE</td><td colspan="5">SELECTED CHAPTERS ON DECVELOPMENTAL PSYCHOLOGY</td></tr>
<tr><td>Code</td><td>PRZP</td><td>Year of study</td><td colspan="3">2</td></tr>
<tr><td>Course teacher/s</td><td>Goran Kardum, PhD
Associate Professor
Ina Reić Ercegovac, PhD
Assistant Professor</td><td>Credit value (ECTS)</td><td colspan="3">3</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>10</td><td>0</td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>elective course</td><td>Percentage of e-learning application</td><td colspan="3">20%</td></tr>
<tr><td colspan="6">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="5">To train students in understanding scientific aspects of developmental psychology in kinesiology.</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="5">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="5">Learning 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</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="5"><table>
<tr><th></th><th>Content</th><th>Number of hours</th></tr>
<tr><td>1.</td><td>Critical thinking and scientific research results of heritage influence and environment on maturing and learning, growth and development</td><td>2</td></tr>
<tr><td>2.</td><td>Theories and approaches in research of child development</td><td>2</td></tr>
<tr><td>3.</td><td>Sensory, motor and perceptive development</td><td>1</td></tr>
<tr><td>4.</td><td>Cognitive development</td><td>1</td></tr>
<tr><td>5.</td><td>Developmental changes in memorising and problem solving</td><td>1</td></tr>
<tr><td>6.</td><td>Emotions, development and expressing emotions; emotional and social development in childhood and adolescence ; development of self-concept; developmental crisis; emotions and motivation</td><td>1</td></tr>
<tr><td>7.</td><td>Significance of motor, cognitive, social and emotional development as a determinant for sports activities in childhood and adolescence</td><td>2</td></tr>
<tr><td></td><td>Number of teaching hours - TOTAL</td><td>10</td></tr>
</table></td></tr>
<tr><td>Forms of instruction:</td><td colspan="2">☑ lectures
☑ seminars and workshops
☐ exercises
☐ on line in entirely
☑ partial e-learning
☐ field work</td><td colspan="3">☑ independent assignments
☐ multimedia
☐ laboratory
☑ work with mentor</td></tr>
<tr><td>Student responsibilities</td><td colspan="5">Class attendance is mandatory according to Regulations on Study Programmes and Studying, which entitles students for a signature to the course.</td></tr>
</table>

<table>
<tr><td></td><td colspan="6">Within the exam, students are required to write and present a seminar essay on a given topic and pass the oral exam.</td></tr>
<tr><td rowspan="5">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):</td><td>Class attendance</td><td>0.5</td><td>Research</td><td>0.5</td><td>Practical training</td><td></td></tr>
<tr><td>Experimental work</td><td></td><td>Report</td><td></td><td></td><td></td></tr>
<tr><td>Essay</td><td></td><td>Seminar essay</td><td>1</td><td></td><td></td></tr>
<tr><td>Tests</td><td></td><td>Oral exam</td><td>1</td><td></td><td></td></tr>
<tr><td>Written exam</td><td></td><td>Project</td><td></td><td></td><td></td></tr>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="6">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%</td></tr>
<tr><td rowspan="3">Required literature (available in the library and via other media)</td><td colspan="3">Title</td><td>Number of copies in the libraries</td><td>Availability via other media</td></tr>
<tr><td colspan="3">17. Vasta, R., Haith, M.M., & Miller, S.A. (1998). Dječja psihologija. Jastrebarsko: Naklada Slap.</td><td></td><td></td></tr>
<tr><td colspan="3">18. Lecture materials.</td><td></td><td>moodle.kifst.hr</td></tr>
<tr><td>Optional literature</td><td colspan="6">3. Brajša-Žganec, A. (2003). Dijete i obitelj. Jastrebarsko: Naklada Slap,.
4. Klarin, M. (2006). Razvoj djece u socijalnom kontekstu. Jastrebarsko: Naklada Slap.
5. Lacković-Grgin, K. (2005). Psihologija adolescencije. Jastrebarsko: Naklada Slap.
6. Oatley, K., & Jenkins, J.M. (2001). Razumijevanje emocija. Jastrebarsko: Naklada Slap.

* other scientific papers from the relevant databases in kinesiology and psychology</td></tr>
<tr><td>Quality assurance methods that ensure the acquisition of exit competencies</td><td colspan="6">questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Language/s of the course</td><td colspan="6">Croatian
English</td></tr>
</table>

<table>
<tr><td>TITLE OF COURSE</td><td colspan="6">NEUROPHISIOLOGICAL BASIS OF MOVEMENT</td></tr>
<tr><td>Code</td><td>NOUP</td><td>Year of study</td><td colspan="4">2</td></tr>
<tr><td>Course teacher/s</td><td>Slobodan Jarić, PhD
Full Professor Tenure</td><td>Credit value (ECTS)</td><td colspan="4">3</td></tr>
<tr><td rowspan="2">Associate teachers</td><td rowspan="2"></td><td rowspan="2">Instruction form (number of hours per semester)</td><td>L</td><td>S</td><td>E</td><td>F</td></tr>
<tr><td>10</td><td>0</td><td>0</td><td></td></tr>
<tr><td>Course status</td><td>elective course</td><td>Percentage of e-learning application</td><td colspan="4">20%</td></tr>
<tr><td colspan="7">COURSE DESCRIPTION</td></tr>
<tr><td>Course objectives</td><td colspan="6">To introduce students to the structure of central and peripheral nervous system involved in movement control, interactions of nervous and muscular system and a role of sensory system in movement control</td></tr>
<tr><td>Course enrolment requirements and entry competencies required for the course</td><td colspan="6">defined by the Regulations on Postgraduate Doctoral Study of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Learning outcomes expected at the course level (4 to 10 learning outcomes)</td><td colspan="6">Learning 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</td></tr>
<tr><td>Course content broken down in detail by weekly class schedule</td><td colspan="6"><table>
<tr><th></th><th>Content</th><th>Number of hours</th></tr>
<tr><td>1.</td><td>Structure and function of neurons.</td><td>1</td></tr>
<tr><td>2.</td><td>Structure, function and mechanical characteristics of muscles.</td><td>1</td></tr>
<tr><td>3.</td><td>Sensory and motor neuron and spinal reflexes.</td><td>1</td></tr>
<tr><td>4.</td><td>Reflexes.</td><td>1</td></tr>
<tr><td>5.</td><td>Structure of central nervous system.</td><td>1</td></tr>
<tr><td>6.</td><td>Motor function of cortex, cerebellum, brainstem and basal ganglia.</td><td>1</td></tr>
<tr><td>7.</td><td>Model of neural movement control.</td><td>2</td></tr>
<tr><td>8.</td><td>Nervous system and theories of motor control.</td><td>2</td></tr>
<tr><td></td><td>Number of teaching hours - TOTAL</td><td>10</td></tr>
</table></td></tr>
<tr><td>Forms of instruction:</td><td colspan="3">☑ lectures
☑ seminars and workshops
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<tr><td rowspan="3">Screening student work (specify the proportion of ECTS credits for each</td><td>Class attendance</td><td>0,5</td><td>Research</td><td></td><td>Practical training</td><td></td></tr>
<tr><td>Experimental work</td><td></td><td>Report</td><td></td><td></td><td></td></tr>
<tr><td>Essay</td><td></td><td>Seminar essay</td><td>0,5</td><td></td><td></td></tr>
</table>

<table>
<tr><td rowspan="2">activity so that the total number of ECTS credits is equal to the ECTS value of the course):</td><td>Tests</td><td></td><td>Oral exam</td><td>1</td><td></td><td></td></tr>
<tr><td>Written exam</td><td>1</td><td>Project</td><td></td><td></td><td></td></tr>
<tr><td>Grading and evaluating student work in class and at the final exam</td><td colspan="6">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.

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<tr><td rowspan="3">Required literature (available in the library and via other media)</td><td colspan="3">Title</td><td>Number of copies in the libraries</td><td>Availability via other media</td></tr>
<tr><td colspan="3">19. Latash, M. (2008). Neurophysiological Basis of Movement (2nd ed.). Human Kinetics.</td><td></td><td>moodle.kifst.hr</td></tr>
<tr><td colspan="3">20. Fundamental textbook in physiology – selected chapters</td><td></td><td>moodle.kifst.hr</td></tr>
<tr><td>Optional literature</td><td colspan="6">* other scientific papers from the relevant databases in kinesiology</td></tr>
<tr><td>Quality assurance methods that ensure the acquisition of exit competencies</td><td colspan="6">questionnaire of the Committee for Quality Assurance and Improvement of the Faculty of Kinesiology, University of Split</td></tr>
<tr><td>Language/s of the course</td><td colspan="6">Croatian
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