

**DEPARTMENT OF NATURAL SCIENCES IN KINANTHROPOLOGY, FACULTY
OF PHYSICAL CULTURE, PALACKÝ UNIVERSITY OLMOUC**

PhDr. Michal Botek, Ph.D.

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- Heart rate variability, metabolic and oxygen saturation response to different level of simulated altitude during rest, and exercise
- Differences in somatic and physiological variables response to chronic physical activity in normoxia compared to normobaric hypoxia

Mgr. Aleš Gába, Ph.D.

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- Prospective associations between objectively measured physical activity and body fatness in youth
- Effectiveness of physical activity intervention for preventing obesity in children and adolescents

Prof. PaedDr. Rudolf Psotta, Ph.D.

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- Effects of the attentional focus on vision and motor control in the children
- Validity and reliability of the qualitative observation of child's motor performance in the MABC-2 test
- Physiological and muscle adaptations on the short-term training with very high intensity intermittent exercise

Mgr. Zdeněk Svoboda, Ph.D.

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- Biomechanical analysis of various type of active transport in various condition
- –Assessment of musculoskeletal malalignment in children and adolescents in relation to physical activity
- Kinetic analysis of gait in subjects with total hip arthroplasty

**DEPARTMENT OF SOCIAL SCIENCES IN KINANTHROPOLOGY, FACULTY OF
PHYSICAL CULTURE, PALACKÝ UNIVERSITY OLOMOUC**

Doc. Donald Nichols Roberson, Ph.D.

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- Leisure and Recreation Philosophy
- Aging, Recreation and Leisure
- Adult Education/Lifelong Learning
- Qualitative Research/Research Methodology
- Experiential Education
- Travel and Tourism
- Gerontology
- Guidance and Counseling

Doc. PhDr. Dana Štěrbová, Ph.D.

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- Sexuality and relationships in physical education and sport, and factors related to it
- Sexuality and relationships in physical education and sport, and factors related to it (including persons with disabilities)

**INSTITUTE OF ACTIVE LIFESTYLE, FACULTY OF PHYSICAL CULTURE,
PALACKÝ UNIVERSITY OLOMOUC**

Mgr. František Chmelík, Ph.D.

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- Comparison of physical activity estimates of different physical activity monitors in free-living environment

Physical activity assessment in specific populations

Doc. Mgr. Erik Sigmund, Ph.D.

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(HBSC Study)

- Health Behaviour of School Aged Children (HBSC) study
- Trends in risk behaviour in school-aged children
- Trends in screen-time activities in relation of age and gender of Czech adolescents
- Trends in school pressure of schoolboys and girls

**DEPARTMENT OF RECREOLOGY, FACULTY OF PHYSICAL CULTURE,
PALACKÝ UNIVERSITY OLOMOUC**

Prof. PhDr. Ivo Jirásek, Ph.D.

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- Barriers and obstacles to physical activities visible through mind maps (= empirical survey using mind mapping methods)
- Pain, suffering and death in adventure and risk sport (edgework) (= philosophical analysis, phenomenological approach)
- Religion and spirituality of sport and human movement (= theoretical and philosophical approach)
- Pilgrimage, tourism and participants' kind of physical and movement's spirituality (= empirical survey using interviews and interpretative phenomenological analysis)
- Bodily experience and human movement in experiential education (= content analysis of course designs, international comparison)

**DEPARTMENT OF ADAPTED PHYSICAL ACTIVITY, FACULTY OF PHYSICAL
CULTURE, PALACKÝ UNIVERSITY OLOMOUC**

Doc. Mgr. Martin Kudláček, Ph.D.

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(Adapted Physical Activity)

- Competencies, self efficacy and attitudes towards inclusive physical education
- Adapted physical activity and quality of life of persons with disabilities

**DEPARTMENT OF SPORT, FACULTY OF PHYSICAL CULTURE, PALACKÝ
UNIVERSITY OLOMOUC**

Doc. PaedDr. Michal Lehnert, Dr.

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- Effects of different strength training programs on lower limb muscles strength and neuromuscular reaction time in young athletes (performance perspective and injury prevention perspective)
- Reliability of conventional and functional hamstring: Quadriceps (H/Q) ratios measurements on isokinetic dynamometer Isomed 2000

**DEPARTMENT OF APPLIED ECONOMICS, FACULTY OF ARTS, PALACKÝ
UNIVERSITY OLMOUC**

Doc. Ing. Richard Pospíšil, Ph.D.

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- The Analysis of Management of Local Government Unit in Relation to Sports Activities Funding
- The Analysis of Current Monetary Policy in Relation to Management of Sports Activities