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**Federal State Autonomous Educational Institution for Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
NAMED AFTER PATRICE LUMUMBA**

LAW INSTITUTE

educational division (faculty/institute/academy) as higher education programme developer

COURSE SYLLABUS

LAW AND NEUROSCIENCE

course title

Recommended by the Didactic Council for the Education Field of:

40.03.01 JURISPRUDENCE

field of studies / speciality code and title

The course instruction is implemented within the professional education programme of higher education:

BACHELOR OF LAWS (LLB)

higher education programme profile/specialisation title

2024

1. COURSE GOAL(s)

The course is designed to help students to understand the currently stunted understanding of how neuroscience is applied to legal decisions, and to provide a more modern and rational view of neuroscience that will allow attorneys and judges to better design and interpret laws.

2. REQUIREMENTS FOR LEARNING OUTCOMES

The course is designed for students to acquire following competences (competences in part):

Table 2.1. List of target competences (parts of competences)

Competence code	Competence descriptor	Competence formation indicators (within this course)
PC-1.	Can draft regulatory acts, formulate legal norms for various levels of rulemaking and areas of professional activity.	PC-1.1. Identifies the societal need for legal regulations of public relations in a particular area as well as gaps and conflicts in the current legislation and has the tools to overcome and eliminate them;

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the variable component of (B1) block of the higher educational programme curriculum.

Within the higher education programme students also master other (modules) and / or internships that contribute to the achievement of the expected learning outcomes as results of the course study.

Table 3.1. The list of the higher education programme components/disciplines that contribute to the achievement of the expected learning outcomes as the course study results

Competence code	Competence descriptor	Previous courses/modules, internships*	Subsequent courses/modules, internships*
PC-1	Can draft regulatory acts, formulate legal norms for various levels of rulemaking and areas of professional activity.	Theory of State and Law Constitutional Law Administrative Law Civil Law Basic Provisions of Civil Law Implementation and Protection of Civil Rights. Right of Ownership and Other in Rem Rights Law of Obligations. Tort Law Contract Law Intellectual Property Law. Inheritance Law Family Law Financial Law and Tax Law International Public Law Labor Law	Educational Internship

Competence code	Competence descriptor	Previous courses/modules, internships*	Subsequent courses/modules, internships*
		International Private Law Commercial Law and Corporations Comparative Constitutional Law and Justice Comparative Criminal Law Comparative Administrative Law and Justice Comparative Civil and Commercial Law Comparative Criminal Procedure Comparative Civil Procedure Comparative Financial and Tax Law Philosophy of Law: Fundamental Course Civil Liberties and Human Rights Law and Artificial Intelligence Law and Bioethics Data Regulation and Protection in Digital Age Communications and Internet Law and Policy	

* To be filled in according to the competence matrix of the higher education programme.

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course is 3 credits (108 academic hours).

Table 4.1. Types of academic activities during the periods of higher education programme mastering (**full-time training**) *

Type of academic activities	Total academic hours	Semesters/training modules			
		7/1	7/2	7/3	7/4
<i>Contact academic hours</i>	24		24		
including:					
Lectures (LC)	8		8		
Lab work (LW)					
Seminars (workshops/tutorials) (S)	16		16		
<i>Self-studies</i>	66		66		
<i>Evaluation and assessment (exam/passing/failing grade)</i>	18		18		
Course workload	academic hours_	108		108	
	credits	3		3	

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Chapter 1. Time to shift that paradigm: law's outdated views on human behavior	Historical roots of law. Human nature in the nineteenth century. Law's current vision. What happens when the survival system is disrupted? How should neuroscience help us to build a new paradigm for law.	LC / S
Chapter 2. Gatekeeping mental state testimony	The required analysis. How does science work? What would Popper say about mental state testimony? Mental capacity in the courts.	LC / S
Chapter 3. Basic concepts: lost in translation	Introduction. Gatekeeping: the meaning of relevance. Statistics in context: the problem of atomistic admissibility. Statistical misunderstandings in criminal cases. Possible solutions. Educating bench and bar about statistical inference drawing.	LC / S
Chapter 4. Overselling images: fMRI and the search for truth	How lie detectors work: the method. Can arousal issues be disassociated from signals related to lie versus truth? How are the fMRI images generated? Are they "preprocessed"? What is deception? Criminal cases: linking brain and behavior. Civil cases. If not fMRI, is there a better thought detector?	LC / S
Chapter 5. Danger at the edge of chaos: predicting violent behaviour in a post-Daubert world	Future dangerousness testimony in the courts. Daubert and expert predictions of violence. Explaining and predicting violence. Assessing scientific validity of actuarial predictions. Cognitive psychology: why actuarial instruments may assist the jury.	LC / S
Chapter 6. Genetic predictions of future dangerousness: is there a blueprint for violence?	Future dangerousness in the courts. Data on violence and sexual violence. Behavioral genetics and future dangerousness.	LC / S
Chapter 7. Actus reus, mens rea and brain science: what do volition and intent really mean?	The neural underpinnings of volition and intent. Free will and consciousness. Volition, intent, and choice in court. Theories of criminal law. What do actus reus and mens rea mean? How neuroscience can help. Unpacking the meaning of volition, choice and intent.	LC / S

* - to be filled in only for **full**-time training: LC - lectures; LW - lab work; S - seminars.

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Lecture	A lecture hall for lecture-type classes,	Multimedia projector,

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
	equipped with a set of specialised furniture; board (screen) and technical means of multimedia presentations.	laptop, projection screen, stable wireless Internet connection. Software: Office 365 (MS Office, MS Teams), Chrome
Lab work	A classroom for laboratory work, individual consultations, current and mid-term assessment; equipped with a set of specialised furniture and machinery.	Multimedia projector, laptop, projection screen, stable wireless Internet connection. Software: Office 365 (MS Office, MS Teams), Chrome
Seminars	A classroom for conducting seminars, group and individual consultations, current and mid-term assessment; equipped with a set of specialised furniture and technical means for multimedia presentations.	Multimedia projector, laptop, projection screen, stable wireless Internet connection. Software: Office 365 (MS Office, MS Teams), Chrome
Computer Lab	A classroom for conducting classes, group and individual consultations, current and mid-term assessment, equipped with personal computers (in the amount of 30 pcs), a board (screen) and technical means of multimedia presentations.	Multimedia projector, laptop, projection screen, stable wireless Internet connection. Software: Office 365 (MS Office, MS Teams), Chrome
Self-studies	A classroom for independent work of students (can be used for seminars and consultations), equipped with a set of specialised furniture and computers with access to the electronic information and educational environment.	Multimedia projector, laptop, projection screen, stable wireless Internet connection. Software: Office 365 (MS Office, MS Teams), Chrome
Courtroom	A classroom for court hearing simulation equipped with a set of specialized furniture; a set of devices including portable multimedia projector, laptop, projection screen, stable wireless Internet connection.	Multimedia projector, laptop, projection screen, stable wireless Internet connection. Software: Office 365 (MS Office, MS Teams), Chrome

* It is necessary to specify a classroom for self-study of students

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main reading (sources):

1. Erica Beecher-Monas and Edgar Garcia-Rill (2020). *Fundamentals of Neuroscience and the Law*: Cambridge Scholars Publishing. ISBN (13): 978-1-5275-4171-9
2. Antonio D'Aloia, Maria Chiara Errigo (2020). *Neuroscience and Law. Complicated Crossings and New Perspectives*: Springer Nature Switzerland AG 2020. <https://doi.org/10.1007/978-3-030-38840-9>

Additional (optional) reading (sources):

1. Walter Sinnott-Armstrong (2016). Finding Consciousness The Neuroscience, Ethics, and Law of Severe Brain Damage: Oxford University Press (Oxford series in neuroscience, law, and philosophy). ISBN 978-0-19-028030-7 (alk. paper).

2. NICOLE A VINCENT (Ed) (2013). Neuroscience and Legal Responsibility: Oxford University Press. ISBN 978-0-19-992560-5.

Internet-(based) sources:

1. Electronic libraries with access for RUDN students

- RUDN Electronic Library System (RUDN ELS) <http://lib.rudn.ru/MegaPro/Web>

- EL "University Library Online" <http://www.biblioclub.ru>

- EL "Yurayt" <http://www.biblio-online.ru>

- EL "Student Consultant" www.studentlibrary.ru

- EL "Lan" <http://e.lanbook.com/>

- EL "Trinity Bridge"

2. Databases and search engines:

- electronic foundation of legal and normative-technical documentation
<http://docs.cntd.ru/>

- Yandex search engine <https://www.yandex.ru/>

- Google search engine <https://www.google.ru/>

- Scopus abstract database <http://www.elsevierscience.ru/products/scopus>

A complete list of ELS, databases and search engines is provided on the website of the Educational and Scientific Information Library Center (Scientific Library) of RUDN University <https://lib.rudn.ru>

*Training toolkit for self- studies to master the course *:*

* The training toolkit for self- studies to master the course is placed on the course page in the university telecommunication training and information system under the set procedure.

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM* FOR EVALUATION OF STUDENTS' COMPETENCES LEVEL UPON COURSE COMPLETION

The assessment toolkit and the grading system* to evaluate the competences formation level (competences in part) upon the course study completion are specified in the Appendix to the course syllabus.

* The assessment toolkit and the grading system are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / order).

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