



## SYLLABUS OF THE SUBJECT

### «Human Factors in Aviation»

**Educational Professional Program:** «Air Transportation Management»

**Field of study:** 27 «Transport»

**Speciality:** 275 «Air Transport Technologies»

**Specialization:** 275.04 «Air Transport Technologies»

<b>Higher Education Degree</b>	First (Bachelor)
<b>Subject status</b>	Academic subject of professionally-oriented subjects cycle
<b>Course of study</b>	1
<b>Semester</b>	1
<b>Subject volume, ECTS credits / total amount of hours</b>	3,5/105
<b>Language</b>	Ukrainian, English
<b>To be studied (study subject)</b>	<input type="checkbox"/> characteristics and limitations of man as an object of research; <input type="checkbox"/> bases of influence of characteristics and restrictions of the person on flight safety; <input type="checkbox"/> the impact of environmental and working characteristics on human performance; <input type="checkbox"/> the impact of national and corporate culture, the level of training of crew members on flight safety; <input type="checkbox"/> flight safety management system; <input type="checkbox"/> methods of investigating aviation incidents and incidents and the role of the human factor in them.
<b>Why is it interesting and must be learned? (purpose)</b>	The aim of the subject is to reveal modern scientific concepts, methods and technologies of the modern concept of the human factor in the air transport system.
<b>What is studied? (learning results)</b>	<input type="checkbox"/> Investigate the components of ergonomics of transport technologies. Establish their efficiency and reliability; <input type="checkbox"/> Introduce methods of organizing safe transport activities; <input type="checkbox"/> Investigate the human factor problems associated with transport, as well as the consequences of errors for safety and management. Identify patterns of human behavior in connection with mistakes.
<b>How is it possible to use the gained knowledge and skills? (competencies)</b>	<input type="checkbox"/> Ability to analyze and forecast the parameters and performance of transport systems and technologies, taking into account the impact of the external environment; <input type="checkbox"/> Ability to assess and ensure the safety of transport activities; <input type="checkbox"/> Ability to use modern information technologies, automated control systems and geographic information systems in the organization of the transportation process; <input type="checkbox"/> Ability to use professional knowledge and practical skills of technology, organization and management of air passenger traffic to solve engineering problems in production.
<b>Academic logistics</b>	<b>Subject program:</b> Module №1 «The Impact of Human Factor in Aviation» Topic 1 Introduction. General provisions. Topic 2. Models and methods of human factor research. Topic 3. Psychological features of the person. Topic 4. “Fatigue” in aviation. Topic 5. Human failures.

	<p>Topic 6. Flight safety management system.  Topic 7. Investigation of aviation accidents and incidents.  Topic 8. Measures to increase the level of flight safety.  <u>Kinds of sessions</u>: lectures, laboratory classes  <u>Teaching methods</u>: explanatory-illustrative method; problem statement method; reproductive method; research method  <u>Modes of study</u>: full-time</p>	
<b>Prerequisites</b>	This subject is the basis for studying such subjects, as: «General Course of Transport», «Introduction into Major»	
<b>Post-requisites</b>	This subject basic for studying subjects, as: «Professional Foreign Language», «Health Care and Safety Management in Transport Industry». «Human Recourse Management in Transport Industry», «Organization of Interaction Between Air Transport and Tourist Companies»	
<b>Information support from the fund and repository of NAU library</b>	<p>Basic concept of guidance:  1. Циркуляр ИКАО 240-AN 144. Человеческий фактор. Сборник материалов №7. Изучение роли человеческого фактора при авиационных происшествиях и инцидентах.  1. Циркуляр ИКАО 247- AN-148. Человеческий фактор. Сборник материалов №10. Человеческий фактор в управлении и организации.  2. Doc 9756 Руководство по расследованию авиационных происшествий и инцидентов. Представление отчетов Издание третье, 2020 ORGANIZACIÓN DE AVIACIÓN CIVIL INTERNACIONAL Doc XX  3. ИКАО Приложение 13 к Международной конвенции о гражданской авиации. Расследование авиационных происшествий и инцидентов-Монреаль, 2020 – 80 с. //http://www.caakz.com/wp-content/uploads/2020/03/prilozhenie-13.-rassledovanie-aviaczionnyh-proisshestvij-i-inczidentov.pdf  4. Повітряний кодекс України// Відомості Верховної Ради України, 2011, № 48-49, ст.536  5. Положення про систему управління безпекою польотів /Наказ Міністерства транспорту №650 від 19.08.2003 р.  6. Про затвердження Авіаційних правил України "Порядок сповіщення про події в галузі цивільної авіації, розгляду отриманої інформації, її аналізу та вжиття відповідних заходів"/Наказ Державіаслужби від 27.12.2019 р. №1819.</p>	
<b>Location and logistics</b>	Classroom of theoretical training, laptop, mobile device (phone, tablet) with Internet connection for: communication and surveys; homework; performing tasks of independent work; testing (current, boundary, final control)	
<b>Semester control, examination techniques</b>	Examination, Testing	
<b>Department</b>	Air Transportation Management Department	
<b>Faculty</b>	Faculty of Transport, Management and Logistics	
<b>Lecturer(s)</b>		<p><b>AKMALDINOVA VICTORIA YEVHENIVNA</b>  <b>Position:</b> Senior Lecturer  <b>Scientific Degree:</b> -  <b>Academic Status:</b> -  <b>Teacher profile:</b>  <a href="https://scholar.google.com/citations?user=3zAFsjwAAAAJ&amp;hl=uk">https://scholar.google.com/citations?user=3zAFsjwAAAAJ&amp;hl=uk</a> Тел.: 044 406-70-94  <b>E-mail:</b> <a href="mailto:viktoria.akmaldinova@npp.nau.edu.ua">viktoria.akmaldinova@npp.nau.edu.ua</a>  <b>Location:</b> 2.102Робоче місце: 2.102</p>
<b>Originality of the subject</b>	Author's course, teaching in English	
<b>Link to the subject</b>	<a href="https://er.nau.edu.ua/handle/NAU/34200">https://er.nau.edu.ua/handle/NAU/34200</a>	

