

Syllabus of Academic Discipline
“Process approach to building modern management systems”

| № | Field name | Detailed content, comments |
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| 1. | Name of the faculty | FACULTY OF INFOCOMMUNICATIONS |
| 2. | The level of higher education | Bachelor's educational and scientific |
| 3. | Code and title of specialty | 152 – Metrology and Information-Measuring Technology |
| 4. | The type and title of the educational program | Educational program – Quality of products, processes and software |
| 5. | Code and title of the discipline | |
| 6. | Number of ECTS credits | 5,5 |
| 7. | The structure of the course (distribution by type and hours of training) | 22 h. – 11 L., 22 h. – 11 P., 12 h. – 6 C., h. – 109 independence, type of control: credit |
| 8. | Schedule (terms) of study of the subject | II year, III semester |
| 9. | Prerequisites for learning the discipline | Previously, the disciplines «Higher mathematics», Fundamentals of Technical Regulation, should be studied. |
| 10. | Abstract (content) of the discipline | Selective discipline of basic (professional) studying in the specialty, contains content modules: 1. Concept of process and process approach. The process as an object of management. 2. Methods of design and improvement of processes during the construction of the QMS. 3. Methods of modeling business processes in the development of QMS. |
| 11. | Competencies, knowledge, skills, understanding that a higher education acquirer has in the learning process | Knowledge and understanding of the terminology, principles and methodology of process management when building a QMS. The ability to identify the main and auxiliary processes when building a QMS, build models of business processes, carry out their decomposition and analysis to build a complex process model of enterprise management. Mastery of the method of applying the process approach when building the QMS to increase the competitiveness of the organization, business process modeling methods when developing the QMS. |
| 12. | Learning outcomes of a Higher Education applicant | Ability to demonstrate knowledge and understanding of process management terminology, basic process model, essence and principles of process approach; methods of designing and improving processes in the construction of a QMS; methodology of modeling business processes in the development of QMS. |
| 13. | Assessment system in accordance with | 4 tests on practical classes. |

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| | each task for taking tests/exams | Credit score (C) is calculated by the formula: $C=(15-25)P_{\text{№}1}+(15-25)P_{\text{№}2}+(15-25)P_{\text{№}3}+(15-25)P_{\text{№}4}=(60-100)$ credit score. |
| 14. | The quality of the educational process | Adherence to the principles of academic integrity (http://lib.nure.ua/plagiat). Update the work program of the discipline – 2022 year. |
| 15. | Methodological support | 1. Комплекс навчально-методичного забезпечення навчальної дисципліни "Процесні підходи до побудови систем менеджменту" підготовки бакалаврів спеціальності 152 - Metrolohiiia ta informatsiino-vymiriivalna tekhnika [Elektronnyi resurs] : osvitho-profesiina prohrama "Tekhnichna ekspertyza" / KhNURE ; rozrob. O. V. Zaporozhets. – Kharkiv, 2021. – 173 s. |
| 16. | The developer of the Syllabus | I.Moshchenko, Department of Information and Measurement Technology, PhD E-mail: inna.moshchenko@nure.ua |