## 3. Educational program

Project team manager (program guarantor) - O.H. Soshko, PhD in Philology, Associate Professor of Foreign Philology and Translation Department

1. Educational program in specialty 035 "Philology", specialization "Germanic languages and literature (translation included), the first language is English"
\(\left.$$
\begin{array}{|l|l|}\hline & \text { 1-General information } \\
\hline \begin{array}{l}\text { Full name of IHE and } \\
\text { structural init }\end{array} & \text { State University of Trade and Economics } \\
\begin{array}{l}\text { Level of higher } \\
\text { education and } \\
\text { qualification name in } \\
\text { the original language }\end{array} & \begin{array}{l}\text { Bachelor, } \\
\text { Educational degree } \\
\text { «Bachelor»Specialty } \\
\text { «Philology» } \\
\text { Specialization «Germanic languages and } \\
\text { literature (translation included), the first language } \\
\text { - English » }\end{array} \\
\hline \begin{array}{l}\text { Educational program } \\
\text { official name }\end{array} & \begin{array}{l}\text { Educational program «Germanic languages and } \\
\text { literature (translation included), the first }\end{array} \\
& \begin{array}{l}\text { language - } \\
\text { English » }\end{array} \\
\hline \begin{array}{l}\text { Diploma type and } \\
\text { volume of the program }\end{array} & \begin{array}{l}\text { Bachelor Diploma, 240 ECTS credits } \\
\text { training period 46 months }\end{array} \\
\hline \text { Accreditation } & \begin{array}{l}\text { Accredited for the second (second) level } \\
\text { accordingto the decision of the State }\end{array}
$$ <br>
Accreditation Commision dated May 20, 2008, <br>

Minutes No.71 (Order of the Ministry of\end{array}\right\}\)| Education and Science of |
| :--- |
| Ukraine dated May 28, 2008 No.1824-L) |


| Admission Requirements | Complete general secondary education / initial level <br> of higher education; conditions of admission to the <br> Program are governed by the Rules of admission toKNUTE |
| :---: | :---: |
| Language of instruction | Ukrainian / English |
| Period of program validity | 5 years |
| Internet address for permanent placementof the program components | https://knute.edu.ua |
| 2- Educational program aim |  |
| Prepare higly qualified philologists-translators fluent in English: to ensure the development of language, linguistic, communicative, sociolinguistic and interpreting competencies as well as ability to apply acquired knowledge and skills in future professional activity. |  |
| 3- Educational program characteristics |  |
| Subject area (sphere of knowledge, specialty, specialization) | Field of knowledge : 03 Humanities <br> Specialty: 035 «Philology». <br> Specialization: «Germanic languages and literature (translation included), the first language is English» |
| Educational program orientation | Educational program; program structure provides dynamic, integrative and interactive learning. The program offers an integrated approach to professional activity (translation) and implements it through education and practical training. Disciplinesand modules included in program are focused on actual directions within which further professional and scientific career of the applicant is possible. |
| Main focus of educational program and specialization | Ability to use the studied languages freely, flexibly and effectively, orally and in writing, in different genre and style varieties and registers of communication (formal, informal, neutral), to solve communicative tasks in different spheres of life. Key words: system knowledge, categories of text, text-discursive models, norms of literary language, |


|  | skills of interpersonal interaction, speech (communicative) competence, intercultural communication, organization of business communication, concepts of translation studies, translation transformations and difficulties. |
| :---: | :---: |
| Features of the program | After successful program completion students are able to perform professional translations of various types, genres and styles within non-literary sources: on the basis of newspaper informational and socio-economic texts, commercial documentation. |
| 4- Graduate employability and further learning |  |
| Employability | Bachelor in specialty «Germanic languages and literature (translation included), the first language is English» trained to work in the following professions: <br> - translator <br> - translator of technical literature <br> - guide-translator <br> - editor-translator <br> - philologist <br> - linguist, <br> which according to the National Classification of Occupations SC 003: 2010, are included in the classification group 2444 "Professionals in the field of philology, linguistics and translation": 2444.2 "Philologists, linguists, translators and interpreters". <br> The specialist is able to perform professional work specified in the following classification groups: in professional organizations, in public organizations, in film production, in the field of radio and television, in educational sphere, in political organizations, in support activities in the field of public administration, in support of information and cultural services with international activity, in diplomatic and consular missions in foreign countries. |
| Further learning | Studying at the second (master's) level of higher education on master's educational programs in the field of knowledge "Humanities" and in |


|  | interdisciplinary programs close to philology. |
| :---: | :---: |
| 5-Training and assessment |  |
| Teaching and learning | Teaching methods meet modern requirements of society and professional needs of future specialists; communicative, student-oriented: <br> - lecture courses combined with seminars and practical classes in small groups (up to 15 people); <br> - students are active participants of the educational process and are personally responsible for their further educational and professional development; <br> - importance of personal and intellectual development of students and conditions for personalrealization are determined; <br> - life long independent professional development is assumed. |
| Assessment | Current survey, modular test control, presentations on the topics of the theoretical course, course work, reports on practices. <br> Final assessment - exam. <br> Final certification - qualifying exam <br> Assessment is carried out in accordance with the "Regulations on the organization of students educational process" and "Regulations on the assessment of students and graduate students learning outcomes." |
| 6- Program competence |  |
| Integral competence (IC) | Ability to solve complex specialized tasks and practical problems in the field of philology (linguistics, literature, folklore, translation) in the process of professional activity or training, which involves the application of theories and methods of philological science and is characterized by complexity and uncertainty. |
| General competence (GC) | 1) Ability to exercise the rights and responsibilities as a member of society, to realize the values of civil (free democratic) society and the need for its sustainable development, the rule of law, human and civil rights and freedoms in Ukraine. |


|  | 2) Ability to preserve and multiply moral, cultural, <br> scientific values and achievements of society based <br> on understanding the history and patterns of the <br> subject area development, its place in the general <br> system of knowledge about nature and society and in <br> the development of society, techniques and <br> technologies, use different activities for active <br> recreation and a healthy lifestyle. <br> 3) Ability to communicate in the state language both <br> orally and in writing. <br> 4) Ability to be critical and self-critical. <br> 5) Ability to learn and master modern knowledge. <br> 6) Ability to search, process and analyze information <br> from various sources. <br> 7) Ability to identify, pose and solve problems. <br> 8) Ability to work in a team and independently, <br> including the skills of interpersonal communication, <br> ability to establish contact with people of different <br> ages, character and status, to interact with experts in <br> other subject areas; willingness to take responsibility <br> for the work results, the environment and other <br> values. <br> 9) Ability to communicate in a foreign language. <br> 10) Ability to abstract thinking, analysis and <br> synthesis. <br> 11) Ability to apply knowledge in practical <br> situations. <br> 12) Skills in the use of information and <br> communication technologies. <br> 13) Ability to conduct research at the appropriate |
| :--- | :--- |
| level. |  |



|  | communication, know the language etiquette for different socio-cultural conditions. <br> 13) Ability to understand the basic concepts of translation studies as a science, the rules of all types translation transformations and difficulties, to know the national and cultural differences. <br> 14) Ability to make the translation as a kind of communicative activity in the process of indirect intercultural communication. <br> 15) Interpret information in oral form and summarize it in writing. |
| :---: | :---: |
| 7- Program learning outcomes |  |
|  | 1. Communicate freely on professional issues with specialists and non-specialists in state and foreign languages(s) orally and in writing, use them to organize the effective intercultural communication. <br> 2. Work effectively with information: select the necessary information from various sources including professional literature and electronic databases, critically analyze and interpret it, organize, classify and systematize. <br> 3. Organize the process of personal learning and selfeducation. <br> 4. Understand the fundamental principles of human, nature, and society existence. <br> 5. Cooperate with colleagues, representatives of other cultures and religions, supporters of different political views, etc. <br> 6. Use information and communication technologies to solve complex specialized problems and problems of professional activity. <br> 7. Understand the main problems of philology and approaches to solving them using appropriate methods and innovative approaches. <br> 8. Know and understand the system of language, the general properties of literature as an art of speech, the history of language (languages) and literature (literatures) being studied, and be able to apply this knowledge in professional activities. |


|  | 9. Describe the dialect and social varieties of the language (s) being studied, describe the sociolinguistic situation. <br> 10. Know the norms of literary language and be able to apply them in practice. <br> 11. Know the principles, technologies and techniques for creating oral and written texts of various genres and styles in state and foreign language(s). <br> 12. Analyze language units, determine their interaction and characterize language phenomena and processes that determine them. <br> 13. Analyze and interpret works of Ukrainian and foreign fiction and oral folklore, determine their specificity and place in the literary process. <br> 14. Use the language (s) being studied, orally and in writing, in different genre and style varieties and registers of communication (formal, informal, neutral), to solve communicative tasks in everyday, social, educational, professional, scientific spheres of life. <br> 15. Carry out linguistic, literary and special philological analysis of different styles and genres texts. <br> 16. Know and understand the basic terms, theories and concepts of the chosen philological specialization, be able to apply them in professional activity. <br> 17. Collect, analyze, systematize and interpret the facts of language and speech and use them to solve complex tasks and problems in specialized areas of professional activity and / or education. <br> 18. Skills to manage complex actions or projects for solving problems in professional activity in the field of the chosen philological specialization and be responsible for making decisions in unpredictable conditions. <br> 19. Skills to participate in scientific and / or applied research in the field of philology. |
| :---: | :---: |
|  | Resource support for program |


| Staff support | Specialists who train bachelors in the educational <br> program "Germanic languages and literatures <br> (translation included), the first language is English" <br> have professional knowledge and skills in the field of <br> philology. <br> Participation of foreign specialists and practitioners <br> in the teaching of disciplines of the professional <br> cycle is possible. |
| :--- | :--- |
| Material and <br> technical <br> support | The basis of material and technical support are <br> specialized multimedia classrooms with modern <br> software resources that provide quality training for <br> bachelors in the educational program "Germanic <br> languages and literatures (translation included), the <br> first language is English". |
| Information and <br> educational- <br> methodical support | General scientific and special philological sources, <br> educational-methodical and monographic literature, <br> information resources of the distance learning system <br> and the Internet. |
| 9- Academic mobility |  |
| National credit <br> mobility | National credit mobility is carried out in accordance <br> with the concluded agreements on academic <br> mobility. |
| International credit <br> mobility | International credit mobility is realized through the <br> conclusion of agreements on international academic <br> mobility (Erasmus +), on double graduation, on long- <br> term international projects involving student <br> education, issuance of a double diploma, etc. |
| Training of overseas <br> students | Foreign students are not trained. |

## 2. List of the educational program components and their logical sequence

2.1. List of educational program components

| Code | Components of educational program <br> (academic disciplines, term projects <br> (papers), placement, qualification exam, <br> final qualification work) | Number of <br> credits |
| :---: | :---: | :---: |
| 1 | 2 | 3 |


| Compulsory components of EP |  |  |
| :---: | :---: | :---: |
| CC 1. | Introduction to linguistics | 6 |
| CC 2. | Office Computer technologies | 6 |
| CC 3. | Legal Studies | 6 |
| CC 4. | Foreign Language for Professional Purposes (for economic majors): the first language | 24 |
| CC 5. | Practical Course of the First Foreign Language (English) | 46,5 |
| CC 6. | Philosofy | 6 |
| CC 7. | Latin Language | 6 |
| CC 8. | Fundamentals of Linguistic Communication Theory | 6 |
| CC 9. | Introduction to Translation Studies | 6 |
| CC 10. | History of Foreign Literature |  |
| CC 10.1 | Course work on History of Foreign Literature | 12 |
| CC 11. | Practice of Translation in the First Foreign Language | 21 |
| CC 11.1 | Course work on Practice of Translation in the First Foreign Language | 21 |
| CC 12. | Stylistics in the First Foreign Language | 6 |
| CC 13. | Foreign language of business communication (English) | 6 |
| CC 14. | Translation of foreign commercial documentation | 6 |
| Total amount of compulsory components: |  | 163,5 (68\%) |
| Optional components of EP |  |  |
| OC 1. | Practical Course of the Second Foreign Language (Spenish) | 34,5 |
| OC 2. | Practical Course of the Second Foreign Language (German) | 34,5 |
| OC 3. | Life Safity |  |
| OC 4. | Stock trading | 6 |
| OC 5. | Environmental Studies | 6 |
| OC 6. | Sightseeing business | 6 |
| OC 7. | Event technologies in tourism | 6 |
| OC 8. | Business Ethics | 6 |
| OC 9. | History of the first foreign language | 6 |


| OC 10. | History of Ukraine | 6 |
| :--- | :--- | :--- |
| OC 11. | History of Ukrainian Culture | 6 |
| OC 12. | Conflictology and Psychology of Business <br> Communication | 6 |
| OC 13. | Copywriting | 6 |
| OC 14. | Cultural heritage of Ukraine | 6 |
| OC 15. | Linguistic studies of the first foreign <br> language countries | 6 |
| OC 16. | Marketing | 6 |
| OC 17. | Management | 6 |
| OC 18. | Commodity Science | 6 |
| OC 19. | International protocol and etiquette | 6 |
| OC 20. | National Interests in the World Geopolicy <br> and Geoeconomics | 6 |
| OC 21. | Public speaking | 6 |
| OC 22. | Organization of tourism | 6 |
| OC 23. | Basics of political linguistics | 6 |
| OC 24. | Compliance assessment | 6 |
| OC 25. | Comparative typology of English and <br> Ukrainian languages | 6 |
| OC 26. | Psychology | 6 |
| OC 27. | Self-management | 6 |
| OC 28. | World culture | 6 |
| OC 29. | Sociology | 6 |
| OC 30. | Social leadership | 6 |
| OC 31. | Specialized Tourism | 6 |
| OC 32. | Strategic Management | 6 |
| OC 33. | Modern Ukrainian literature | 6 |
| OC 34. | Modern Ukrainian language for specific <br> purposes | 6 |
| OC 35. | Advertising | 6 |
| OC 36. | Advertising in Trade | 6 |
| OC 37. | Religious studies | 6 |
| OC 38. | Theory of public relations | 6 |
| OC 39. | Theory of organization | 6 |
| OC 40. | Commodity nomenclature of foreign <br> economic activity | 6 |
| OC 41. | Commodity Science | 6 |
| OC 42. | Tourist and recreational country studies | 6 |


| OC 43. | Personnel management |
| :--- | :---: |
| OC 44. Oral translation | 6 |
| Total amount of optional components: |  |
| Work-based learning | 6 |
| Work-based learning 1 |  |
| Work-based learning 2 | 3 |
| Assessment | 6 |
| Preparetion for qualification exam and attestation | 3 |
| TOTAL EP VOLUME | 240 |

For all components of the educational program, the form of final control is an exam

## 2.2. Структурно-логічна схема освітньої програми



## 3. Assessment

The assessment of the graduates is carried out in the form of a qualification examination.
The qualification exam should provide an assessment of the learning outcomes achievements defined by the educational program.
4.1. Program Competences and EP Compulsory Components Matrix

| Components <br> Competences |  |  |  | N | ${ }_{0}$ | $\underset{\sim}{ \pm}$ |  | - | $\hat{U}$ | $\stackrel{\infty}{0}$ | Q | O | $\underset{\sim}{7}$ | N | $\xrightarrow{2}$ | U |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 |  |  |  | + |  | + | + |  |  |  |  |  |  |  |  |
|  | 2 |  |  | + | + |  | + | + |  |  | + | + |  |  |  |  |
|  | 3 |  |  |  |  |  |  |  |  |  |  |  | + |  |  |  |
|  | 4 |  |  |  | + |  | + | + |  |  |  |  | + |  |  |  |
|  | 5 |  |  | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  | 6 |  |  | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  | 7 |  |  | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  | 8 |  |  | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  | 9 |  |  |  |  | + | + |  | + |  |  |  | + | + | + | + |
|  | 10 |  |  | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  | 11 |  |  | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  | 12 |  |  | + |  | + |  | + | + |  |  |  |  |  | + |  |
|  | 13 |  |  | + | $+$ | + | + | + | + | + | + | + | + | + | + | $+$ |
|  | 1 |  |  |  |  |  | + |  |  |  |  |  |  | + |  |  |
|  | 2 |  |  |  |  | + | + |  | + |  |  |  |  | + | + |  |
|  | 3 |  |  |  |  |  |  |  |  |  |  |  |  | + |  |  |
|  | 4 |  |  |  |  | + | + |  | + |  |  |  |  | + | + |  |
|  | 5 |  |  |  |  |  |  |  |  |  |  | + |  |  |  |  |
|  | 6 |  |  | + |  |  | + |  |  | + |  |  | + | + | + | + |
|  | 7 |  |  | + |  | + | + |  | + |  |  |  | + | + | + | + |
|  | 8 |  |  |  |  | + | + | + | + |  |  |  | + | + | + | + |
|  | 9 |  |  |  |  | + | + |  |  |  |  |  | + | + | + | + |
|  | 10 |  |  |  |  |  | + |  |  |  |  |  | + |  |  | + |
|  | 11 |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  |
|  | 12 |  |  |  |  | + |  |  |  |  |  |  |  | + | + | + |
|  | 13 |  |  |  |  |  |  |  |  |  | + |  | + |  |  | + |
|  | 14 |  |  |  |  |  |  |  |  |  | + |  | + | + | + | + |
|  | 15 |  |  |  |  |  | + |  |  |  |  |  | + |  | + |  |

4.2. Program Competences and EP Otional Components Matrix

|  |  | ت | $\begin{gathered} N \\ 0 \\ 0 \end{gathered}$ | $\hat{0}_{0}^{0}$ | $\underset{y}{y}$ | $0$ | eg | $\begin{aligned} & N \\ & 0 \end{aligned}$ | $00$ | $0$ | $7$ | N | n | $\pm$ | in | $0$ | $\begin{aligned} & 1 \\ & y \\ & 0 \end{aligned}$ | $\underset{0}{\infty}$ | O | N | 칭 | $\begin{aligned} & n \\ & \text { Ny } \end{aligned}$ | N | $\begin{aligned} & 10 \\ & y \\ & 0 \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{O} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{y} \\ & 0 \end{aligned}$ | $\begin{aligned} & \infty \\ & \text { N } \\ & 0 \end{aligned}$ | $\begin{aligned} & \text { הे } \\ & \text { こे } \end{aligned}$ | en | n | ले | $\tilde{c}_{0}^{n}$ | + | 第 | $\begin{aligned} & \text { en } \\ & \text { ê } \end{aligned}$ | $\begin{aligned} & n \\ & 0 \\ & 0 \end{aligned}$ |  | ले | $\begin{aligned} & \text { 굽 } \end{aligned}$ | $\underset{y}{7}$ | $\begin{aligned} & \hat{y} \\ & y \end{aligned}$ | $\begin{aligned} & \text { y } \\ & \text { y } \end{aligned}$ | ${ }^{7}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\frac{\underset{y y}{4}}{\frac{1}{4}}$ | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + | + |  | + | + | + |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 2 |  |  |  | + | + |  | + | + |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  | + | + | + |  | + |  |  |  |  |  | + |  |  | + |  | + | + |
|  | 3 | + |  |  |  | + |  |  | + |  | + | + | + | + | + | + | + | + | + | + | + |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | $+$ | + | + | + | + | + |
|  | 4 |  | + | + |  | + |  |  | + | + |  |  | + |  |  | + | + |  | + | + | + | + | + |  |  | + | + | + | + |  |  |  |  |  | + |  | + |  |  | + | + |  |  |
|  | 5 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  | 6 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  | 7 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  | 8 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  | 9 |  | + | + | + |  | + | + |  | + |  |  |  |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 10 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  | 11 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  | 12 |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  | 13 | + | + | + | + | + | + | + | + | + | + | + | $+$ | + | + | + | + | + | $+$ | $+$ | + | + | + | + | + | + | + | + | $+$ | + | + | + | + | + | + | + | + | $+$ | + | + | + | + | + |
|  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 2 | + | + | + | + | + | + |  |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + |  |  |  |  |
|  | 3 | + |  |  | + |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 4 | + | + | + |  | + |  | + |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 5 |  |  |  |  |  |  |  | + |  |  | + | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 6 | + | + | + |  | + | + |  |  | + |  |  |  |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + | + |
|  | 7 | + | + | + |  |  | + |  | + | + |  | + | + |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + |  |  |  |  |
|  | 8 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | $+$ | + | + | $+$ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  | 9 | + | + | + |  | + | + |  |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + |  |  |  |  |
|  | 10 |  |  |  |  |  | + |  | + | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 11 | + | + | + |  | + | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 12 | + |  |  |  |  |  | + |  | + |  |  |  |  |  |  |  | + |  |  |  | + |  |  |  |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  | + |  |  |
|  | 13 |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 14 | + | + | + |  |  | + | + |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 15 |  | + | + |  |  | + | + |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

### 5.1. Program Learning Outcomes and Compulsory Components Matrix

| COMPONENTS <br> LEARNING OUTCOMES | $\bar{U}$ | N | O | $\pm$ |  | نِ | $\underset{U}{i}$ |  | نِ | $\begin{aligned} & \text { U } \\ & \hline \end{aligned}$ | $\begin{aligned} & = \\ & u \end{aligned}$ | Z | N | U |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | + | + | + | + | + | + | + | + | + | + | + | + | $+$ | + |
| 2 | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 3 | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 4 |  |  | + |  | + | + |  | + |  |  |  |  |  |  |
| 5 |  | + | + | + | + |  |  |  |  |  |  |  | $+$ |  |
| 6 |  | + |  | + | + |  | $+$ | + |  |  |  |  | $+$ |  |
| 7 | + |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | + |  |  |  |  |  | + |  | + | + |  | + |  |  |
| 9 |  |  |  | + | + |  |  | + |  |  | + | + | $+$ | + |
| 10 | + |  |  |  | + |  |  |  |  |  |  | + | + |  |
| 11 |  |  |  | + | + |  |  |  |  |  | + | + | $+$ | + |
| 12 |  |  |  | + | + |  | + |  |  |  | + | + | + | + |
| 13 |  |  |  |  |  |  |  |  |  | + |  |  |  |  |
| 14 |  |  |  | + | + |  | + | + |  |  | + | + | + | + |
| 15 |  |  |  |  |  |  | + |  |  | + | + | + |  | + |
| 16 |  |  |  |  |  |  |  |  | + |  | + |  |  |  |
| 17 | + |  |  | + | + |  |  | + |  |  | + |  | + | + |
| 18 |  |  |  |  | + |  |  |  |  |  | + |  |  |  |
| 19 | + | + | + | + | + | + |  | + | + | + | + | + | + | + |

### 5.2. Program Learning Outcomes and Optional Components Matrix

| LEARNING OUTCOMES | $0$ |  |  |  | $\stackrel{\rightharpoonup}{0}$ | in | é | $\begin{aligned} & n \\ & 0 \end{aligned}$ | $0$ |  |  |  |  |  | $\begin{aligned} & \pm \\ & 0 \end{aligned}$ | $0$ | $\stackrel{\square}{0}$ | $\begin{aligned} & \mathrm{v} \\ & 0 \end{aligned}$ |  |  |  |  |  |  |  | $\begin{aligned} & \text { N } \\ & 0 \\ & 0 \end{aligned}$ |  |  | $\begin{aligned} & \infty \\ & \hat{0} \\ & 0 \end{aligned}$ | స్ | en | $\vec{y}$ | $\begin{aligned} & n \\ & 0 \end{aligned}$ |  |  | 権 | $\begin{aligned} & 0 \\ & 0 \\ & 0 \end{aligned}$ |  |  |  | 헝 | $\begin{aligned} & 7 \\ & 0 \end{aligned}$ | $\begin{gathered} 7 \\ 0 \end{gathered}$ | $\begin{gathered} \tilde{y} \\ 0 \end{gathered}$ | ${ }^{7}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | + |  | + | + | + | + | + | + | + | + | + + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 2 | $+$ | + | + | + | $+$ | + | + | + | + | + | + + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 3 | + |  | + | + | + | + | + | + | + | + | + + |  | + | + | + | + | + | + | + | + | + | + |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 4 |  |  |  |  |  |  |  |  |  |  | + |  | + |  | + |  | + | + |  | + | + |  |  | + | + | + | + | + |  |  | + |  |  |  |  |  | + |  |  |  |  | + | + |  |  |
| 5 | $+$ |  | + | + |  |  |  | + |  | + | + |  |  |  | + |  | + |  | + | + | + | + |  | + | + |  |  | + | + |  |  |  |  |  |  |  | + |  |  |  |  | + | + |  |  |
| 6 |  |  | + | + | + | + | + | + | + | + | + + |  | + | + | + | $+$ | + | + | + | + | + | + |  | + | + | + | + | + | + | + | + | + | $+$ | $+$ | + | + | + | + | + | + | + | + | + | + | + |
| 7 |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  | + | + | $+$ |  | + |  | $+$ | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | + |  | + + | + | + |  |  | + | + | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | + |  | + | + |  | $+$ | + |  | + | + |  |  |  |  |  |  |  |  |  |  |  |  |  | $+$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + |  |  |  |  |
| 11 | + |  | + | + |  | + | + |  | + | + |  |  |  |  |  |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + |  |  |  |  |
| 12 | + |  | + | + | + |  | + |  |  | + | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | $+$ |  | + | $+$ | + | + | + | $+$ | + | + | + + |  | + | + | + | $+$ | + | + | + | $+$ | + | + |  | $+$ | + | + | + | + | + | $+$ | $+$ | + | $+$ | $+$ | $+$ | + | $+$ | $+$ | + | $+$ | + | + | $+$ | + | + |
| 15 | + |  |  |  | + | + | + | + | + | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + |  |  |  |  |
| 16 | + |  |  |  | + |  | + |  |  | + | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 | + |  | + | + | + |  | + |  |  | + | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  | + | + |  | + |  |  |  |  |  |  |  |  | + |  |  |  |  | + | + |  |  | + | + | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 | $+$ |  |  |  |  |  | $+$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

