Academic Program Description Form

University Name: Al-Forabi, University Faculty/Institute: Fingincering Scientific Department: Civit Engincering Academic or Professional Program Name: Final Certificate Name: Academic System: Civit Description Preparation Date: File Completion Date:

Signature: 5 Jana Head of Department Name: ۱. ۲ و بدامه خبر الرصر حسال Date: 24/2/2024

Signature:

Scientific Associate Name: Dr. Adnan ALAZZOW i Date: 25.2.2024



The file is checked by:

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Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department: Date: 24/02/ 2024

Signature: Kaulm

Approval of the Dean

prof. Dr. Ahmed Gaila

1.program vision

Civil Engineering of Al-Farabi University is one of the leading Civil Engineering Programs in Iraq and the region. The Civil Engineering Department aims to prepare efficient and professional engineer who is capable of creativity and innovation, and follow-up engineering aspects and scientific developments. It has seen over the years a major development in the scientific and professional capabilities horizontally and vertically, where he witnessed a significant expansion in the number of graduates and its sub-disciplines.

2. program mission

The department has given prime focus to its undergraduate program leading to the award of the four-year degree in Bachelor of the Science of Engineering specialized in Civil Engineering. The department provides educational disciplines programs civil engineering students. in for stimulating the student's scientific potential characterized by to link between the theoretical basis and the scientific a, which qualifies them to acquire the necessary skills and required for the labor market, according to internationally recognized The standards. department is committed to providing academic expertise in the field of civil engineering and providing services to the community directly through consultations and research, or by preparing highly experienced graduates who are capable of continuous giving.

3. program Objectives

1. Graduating graduates qualified for postgraduate studies as well as the preparation of professional engineers in civil-engineering disciplines in the field of structural engineering, foundation engineering, roads, water and project management as well as construction materials.

2. Developing specializations in the department and creating new specializations by linking the department's educational outputs and development requirements in the community.

3. Graduating highly qualified ethical engineers. Providing technical and scientific consultations to all governmental and private sectors of society.

4. Instilling in graduates the spirit and commitment for acquiring knowledge and community service.

5. Student counseling, guidance and strengthening of citizenship spirit.

Providing good working environment for students, faculty, and other

6. personnel with emphasis on high academic, professional and ethical standards within the university campus. Freedom of opinions and respect of others opinions and encouragement in exchanging knowledge

4. program Accreditation

Ministry of Higher Education & Scientific Research

5. Other External influences

Field and scientific visits

| 6. Program Stru | cture | | |
|-----------------|-----------------------------|------------------------|---------------|
| Level/Year | Course or Module Code | Course or Module Title | Credit rating |
| First year | GE101 | Mathematics | 6 |
| First year | CE102 | Engineering Mechanics | 6 |
| First year | CE103 | Engineering Drawing | 6 |
| First year | CE104 | Engineering Geology | 4 |
| First year | CE105 | Building Materials | 4 |
| First year | CE108 | Engineering Statistics | 2 |
| First year | GE109 | Computer Programming | 6 |
| First year | GE107 | Workshop | 2 |
| First year | GE111 | Technical English | 2 |
| First year | GE113 | Arabic Language | 2 |
| Second year | GE201 | Mathematics | 6 |
| Second year | CE201 | Surveying | 6 |
| Second year | CE203 | Mechanics of Materials | 6 |
| Second year | GE204 | Computer Programming | 6 |
| Second year | CE205 | Fluid Mechanics | 6 |
| Second year | CE206 | Building Constructions | 4 |
| Second year | CE207 | Concrete Technology | 4 |

| Second year | GE211 | Technical English | 2 |
|-------------|-------|--------------------------------------|---|
| Second year | GE206 | Freedom & Democracy | 2 |
| Third year | CE301 | Theory of Structures | 6 |
| Third year | CE302 | Soil Mechanics | 6 |
| Third year | CE303 | Reinforced Concrete | 6 |
| Third year | CE304 | Water Resources | 4 |
| Third year | CE305 | Engineering Analysis | 4 |
| Third year | CE306 | Traffic Engineering | 4 |
| Third year | CE307 | Eng. Management and Economy | 4 |
| Third year | CE308 | Computer Applications | 2 |
| Third year | CE309 | Numerical Methods | 4 |
| Third year | GE311 | Technical English | 2 |
| Forth year | CE401 | Steel Design | 4 |
| Forth year | CE402 | Foundation Design | 4 |
| Forth year | CE403 | Transportation Engineering | 6 |
| Forth year | CE404 | Sanitary & Environmental Engineering | 6 |
| Forth year | CE405 | Constructional Methods | 2 |
| Forth year | CE407 | Quantity Surveying | 2 |
| Forth year | CE406 | Reinforced Concrete Design | 4 |
| Forth year | CE409 | Hydrology | 4 |
| Forth year | CE410 | Selected Topics | 4 |
| Forth year | GE411 | Technical English | 2 |
| Forth year | CE408 | Engineering Project | 4 |

7. Program description

| | FIRST YEAR | | | st Semest lours/We | | | ^d Semest | | |
|--------|------------------------|-------|-------|----------------------------------|------|-------|---------------------|------|--|
| Code | Subject | Units | Theo. | Tuto. | Lab. | Theo. | Tuto. | Lab. | |
| GE 101 | Mathematics I | 6 | 3 | 1 | - | 3 | 1 | - | |
| CE 102 | Engineering Mechanics | 6 | 3 | 1 | - | 3 | 1 | - | |
| CE 105 | Building Materials | 4 | 1 | 1 | 1 | 1 | 1 | 1 | |
| GE 104 | Computer Programming | 6 | 2 | - | 2 | 2 | - | 2 | |
| CE 103 | Engineering Drawing | 6 | 1 | - | 4 | 1 | - | 4 | |
| CE 108 | Engineering Statistics | 2 | 1 | 1 | - | 1 | 1 | - | |
| CE 104 | Engineering Geology | 4 | 1 | 1 | 1 | 2 | 1 | - | |
| GE 107 | Workshop | 2 | - | - | 2 | - | - | 2 | |
| GE 110 | English Language I | 2 | 1 | 1 | - | 1 | 1 | - | |
| GE 111 | Arabic Language | 2 | 1 | - | - | 1 | | | |
| | Total | 40 | 14 | 6 | 10 | 14 | 6 | 10 | |
| | Total hours per week | | | 30 | | 30 | | | |

| | SECOND YEAR | | 1 ^s | ^t Semest | er | | 2 nd Seme | ester | | |
|-------|-----------------------------|-------|----------------|---------------------|------|-------|----------------------|-------|--|--|
| | SECOND TEAK | | Н | ours/We | ek | | Hours/W | Veek | | |
| Code | Subject | Units | Theo. | Tuto. | Lab. | Theo. | Tuto. | Lab. | | |
| CE201 | Surveying | 6 | 2 | 1 | 2 | 2 | 1 | 2 | | |
| GE201 | Mathematics II | 6 | 3 | 1 | - | 3 | 1 | - | | |
| CE203 | Mechanics of Materials | 6 | 3 | 1 | - | 3 | 1 | - | | |
| GE204 | Computer Programming | 6 | 2 | - | 2 | 2 | - | 2 | | |
| CE205 | Fluid Mechanics | 6 | 2 | 1 | 1 | 2 | 1 | 1 | | |
| CE206 | Building Construction | 4 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| CE207 | Concrete Technology | 4 | 1 | 1 | 2 | 1 | 1 | 2 | | |
| GE210 | Technical English II | 2 | 1 | | - | 1 | | - | | |
| GE212 | Human Rights & Democracy | 2 | 1 | - | - | 1 | - | | | |
| | Total | 42 | 16 | 6 | 8 | 16 | 6 | 8 | | |
| | Total hours per week | | | 30 | | 30 | | | | |

| | THIRD YEAR | | 1 st Sem Hours/V | | | 2 nd Sem Hours/W | ester Veek | |
|--------|-----------------------------|-------|--------------------------------|-------|------|--------------------------------|---------------|------|
| Code | Subject | Units | Theo. | Tuto. | Lab. | Theo. | Tuto. | Lab. |
| CE 301 | Theory of Structures | 6 | 3 | 1 | - | 3 | 1 | - |
| CE 302 | Soil Mechanics | 6 | 2 | 1 | 2 | 2 | 1 | 2 |
| CE 303 | Reinforced Concrete | 6 | 3 | 1 | - | 3 | 1 | - |
| CE 304 | Water Recourses | 4 | 2 | 1 | - | 2 | 1 | - |
| CE 305 | Engineering Analysis | 4 | 2 | 1 | - | 2 | 1 | - |
| CE 306 | Traffic Engineering | 4 | 1 | 1 | 1 | 1 | 1 | 1 |
| CE 307 | Eng. Management and Economy | 4 | 1 | 1 | - | 1 | 1 | - |
| CE 308 | Computer Applications | 2 | - | - | 2 | - | - | 2 |
| GE 309 | Numerical Methods | 4 | 1 | 1 | 1 | 1 | 1 | 1 |
| GE311 | Technical English III | 2 | 1 | | - | 1 | | - |
| | Total | 42 | 16 | 8 | 6 | 16 | 8 | 6 |
| | Total hours per week | | | 30 | | | 30 | |

| | | | 1 st Sem | ester | | 2 nd Sem | ester | |
|-----------------|---|-------|---------------------|-------|------|---------------------|-------|------|
| | FOURTH YEAR | | Hours/ | Week | | Hours/W | Veek | |
| Code | Subject | Units | Theo. | Tuto. | Lab. | Theo. | Tuto. | Lab. |
| CE401 | Steel Design | 4 | 2 | 2 | - | 2 | 2 | - |
| CE402 | Foundation Engineering | 4 | 2 | 2 | - | 2 | 2 | - |
| CE403 | Transportation Engineering | 6 | 1 | 1 | 2 | 2 | - | 2 |
| CE404 | Sanitary and Environmental Engineering | 6 | 2 | 1 | 1 | 2 | 1 | 2 |
| CE405 | Construction Methods | 2 | 1 | 1 | - | 2 | 1 | - |
| CE406 | Reinforced Concrete Design | 4 | 2 | 2 | - | 2 | 2 | - |
| CE407 | Quantity Surveying | 2 | 1 | 1 | | | | |
| CE408 | Engineering Project | 4 | 1 | - | 1 | 1 | - | 2 |
| CE409 | Hydrology | 4 | 1 | 1 | - | 2 | 1 | - |
| CE410 | Selected Topics | 4 | 2 | 1 | | 2 | 1 | |
| GE411 | Technical English IV | 2 | 1 | 1 | - | 1 | 1 | - |
| Summer training | , , | | | | | | | |
| | Total | 42 | 17 | 10 | 6 | 17 | 10 | 6 |
| | Total hours per week | | | 33 | | | 31 | |

8.Expect learning outcomes of the program

A.Cognitive goals

A1. Establishing a significant knowledge base regarding the mathematics concepts, numerical analysis and computer programming.

A2. Learning the basic analysis and design methods for different types of structures.

A3. Educating the modern adopted construction and management method for different types of projects.

A4. Studying the mechanical properties of different constitutive construction materials

B.The skills goals special to the program .

The program planning to build and modified the following skills:

- B1. Construction materials test methods.
- B2. Survey field applications.
- B3. Analysis and design software.
- B4. Site management's controls.

Teaching and Learning Methods

1(Lectures.

2(Tutorials.

3(Homework and Assignments.

4(Lab. Experiments.

5(Tests and Exams.

6(In-Class Questions and Discussions.

7(Connection between Theory and Application.

8(Field Trips.

9(Extracurricular Activities.

10 (Seminars.

11 (In- and Out-Class oral conservations.

12) Reports, Presentations, and Posters.

Assessment methods

1 .Examinations, Tests, and Quizzes.

2 .Extracurricular Activities.

3 .Student Engagement during Lectures.

4. Responses Obtained from Students, Questionnaire about Curriculum and Faculty Member (Instructor).

C. Affective and value goals

C1. Increasing student's self-confidence to perform his (homework, classwork and assessment) within the corresponding time.

C2. Encouraging the teamwork between the students.

C3. Cooperating the universal activities.

C4. Supporting the extra-curricular university activities and urging students to participate in them

Teaching and Learning Methods

1(Homework and Assignments.

2(In-Class Questions and Discussions.

3(Field Trips.

4(Extracurricular Activities.

5(Seminars.

6(In- and Out-Class oral conservations.

7(Reports, Presentations, and Posters

Assessment methods

Extracurricular Activities.

2 .Student Engagement during Lectures.

3. Responses Obtained from Students, Questionnaire about Curriculum and Faculty Member (Instructor).

D. General and Transferable Skills (other skills relevant to employability and personal development)

D1. Increasing the ability to use the design and analysis software.

D2. Enhancing the skill to perform any significant lab test for different engineering purposes.

D3. Modifying the engineering drawing aptitude.

D4. Improving site investigation skill.

Teaching and learning strategies

The main adopted strategy in delivering this module, encourage students' participation in the exercises, refining and expanding their critical thinking skills comprised :

- () Lectures.
- (^Y Tutorials.
- (^r Homework and Assignments.
- (٤ Lab. Experiments.
- (° Tests and Exams.
- (¹ In-Class Questions and Discussions.
- (^V Connection between Theory and Application.

- (^A Field Trips.
- (⁹ Extracurricular Activities.
- (Seminars.
- (1) In- and Out-Class oral conservations.
- (17 Reports, Presentations, and Posters

Assessment Methods

- 1. Examinations, Tests, and Quizzes.
- ۲. Extracurricular Activities.
- ^γ. Student Engagement during Lectures.
- [£]. Responses Obtained from Students, Questionnaire about Curriculum

10. Evaluation methods

•Commitment to the specified deadline for submitting the assignments and research required of the student.

•Active participation in the classroom is evidence of the student's commitment and responsibility.

• Semester and final tests express commitment and cognitive and skill achievement.

11. Faculty members

| Faculty Member Name | : ; general | special | Highest Degree Earned, Field and Year | Scientific Rank ¹ | Type of Academic Appointment ² PS or TS ² | FT or PT ³ |
|------------------------|---|-------------------------------|--|------------------------------|--|-----------------------|
| Walid Mustafa Khamas | Civil Engineering | Project Management | PhD | Р | PS | FT |
| Alaa Hussain Mehdi | Civil Engineering | HydrauliC | PHD | ASP | PS | FT |
| Osama Abdel Amir Eidan | Civil Engineering | Building Materials | PHD | ASP | PS | FT |
| Kanaan M. Abdalkareem | Building and construction engineering | Project Management | PhD | ASP | PS | FT |
| Husam Muslih Abdulla | Building and construction engineering | Transportation engineering | PhD | L | PS | FT |
| Raad Muneib Mohammed | Civil Engineering | Soil and foundations | PhD | L | PS | FT |
| Fatema Safaa Noori | Civil Engineering | Soil and foundations | PhD | L | PS | FT |
| Haider Maithem Hekmet | Civil Engineering | Construction | PhD | L | PS | FT |
| Asmaa Ghassan Sami | Civil Engineering | Construction | MSc | ASL | PS | FT |
| Rusul Salman Hussein | Civil Engineering | Soil and foundations | MSc | ASL | PS | FT |
| Reem Mudar Hussien | Sciences | mathematics | MSc | ASL | PS | FT |
| Raghda Hashim Abd | Civil Engineering | Construction | MSc | ASL | PS | FT |
| Musaab Munqith Nasser | Architectural Engineering | Urban planning | MSc | ASL | PS | FT |
| Mahmood Khalid Jumaah | Civil Engineering | Transportation engineering | MSc | L | PS | FT |
| Hussain Saadoon | Civil Engineering | Transportation engineering | MSc | ASL | PS | FT |

Complete table for each member of the faculty in the program. Add additional rows or use additional sheets if necessary. Updated information is to be provided at the time of the visit.

1. Code: P = Professor, ASP = Assistant Professor, L = Lecturer, ASL = Assistant Lecturer and O = Other.

Code: PS = Permanent Staff, TS = Temporary Staff.
FT = Full Time Faculty or PT = Part Time Faculty, at the institution

Professional development

The focus in the Civil Engineering Department in general is on continuous improvement. The department always seeks to improve the scientific and administrative process and overcome all the difficulties and obstacles that hinder the .educational program by developing human resources to develop personality

The following procedures explain the steps implemented or in the process of :implementation in this area

1 .Continuous improvement and development of faculty members through training programs and workshops inside and outside the department, university and country.

2 .Increasing extracurricular activities, such as holding conferences, scientific seminars, and personal and sports creativity, locally, regionally, and internationally.

3 .Encouraging faculty members to obtain the highest academic and administrative ranks through promotions.

4 .Providing modern scientific sources and books for the department's library to keep pace with the rapid progress in engineering sciences.

5. Providing specialized software in civil engineering, computers necessary for this, and Internet lines for all teachers

12 .Acceptance standard

The Department of Civil Engineering is subject to the work mechanism of the Ministry of Higher Education and Scientific Research - the central admission system for private education, whereby graduates of preparatory studies (scientific branch) are nominated for admission to the Department of Civil Engineering based on their graduation rates. In addition, some students who are graduates of technical institutes and others are accepted. From professional studies and some distinguished employees from state ministries.

\3.The most important sources of information about the program

•The curriculum approved by the Ministry of Higher Education and Scientific Research and its guidelines.

•Decisions and recommendations of scientific committees.

•Courses in teaching methods.

•Self-evaluation report for previous years.

•Description of courses.

•Courses in civil society organizations.

•Conferences, seminars, workshops and panel discussions.

•Relevant state institutions.

•Graduates Unit

•Internet searches for similar experiences.

•Personal experiences.

| | | | | Cı | ırri | culu | ım S | Skil | ls M | | | | | | | | | | |
|-----------------|----------------|---------------------------|--|-----------------------|---|--|-----------|-------|--------|--------|------|--------------|---------------|---------------|--------------|--------------|----------------|------|--------------|
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| | | | | A1 | A2 | A3 | A4 | B1 | B2 | B3 | B4 | C1 | C2 | C3 | C4 | D1 | D2 | D3 | D4 |
| | GE101 | Mathematics | С | | | | | | | | | | | | | | | | |
| | CE102 | Engineering Mechanics | С | | \checkmark | | | | | | | \checkmark | | | | | | | |
| | CE103 | Engineering Drawing | С | | | | | | | | | \checkmark | | \checkmark | \checkmark | | | | |
| | CE104 | Engineering Geology | С | | | | | | | | | \checkmark | | \checkmark | \checkmark | | | | \checkmark |
| First year | CE105 | Building Materials | С | | | | | | | | | \checkmark | | \checkmark | \checkmark | | | | |
| 5 | CE108 | Engineering Statistics | С | \checkmark | | | | | | | | | | \checkmark | \checkmark | | | | |
| | GE109 | Computer Programming | С | \checkmark | | | | | | | | \checkmark | | \checkmark | \checkmark | \checkmark | | | |
| | GE107 | Workshop | С | | | | | | | | | \checkmark | | | | | | | |
| | GE111 | Technical English | С | | | | | | | | | | | | | | | | |
| | GE113 | Arabic Language | С | | | | | | | | | \checkmark | | \checkmark | \checkmark | | | | |

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| Year / Level | Course Code | Course Title | Core (C) Title or Option (O | T Sk ski emj | Genera Transfo tills (o ills rel ployal pers develo | erable r) Oth levant bility a sonal | e ner t to and | Th | inkin | ıg Skil | lls | Sul | bject-s skil | specifi lls | ic | | nowlee nderst | 0 | |
| | | | | A1 | A2 | A3 | A4 | B1 | B2 | B3 | B4 | C1 | C2 | C3 | C4 | D1 | D2 | D3 | D4 |
| | GE201 | Mathematics | С | | | | | | | | | | | | | | | | |
| | CE201 | Surveying | С | | | | | | | | | | | | | | | | |
| | CE203 | Mechanics of Materials | С | | | | \checkmark | | \checkmark | | | \checkmark | \checkmark | \checkmark | \checkmark | | | | |
| | GE204 | Computer Programming | С | \checkmark | | | | | | \checkmark | | \checkmark | \checkmark | \checkmark | \checkmark | \checkmark | | | |
| Second year | CE205 | Fluid Mechanics | С | | \checkmark | | | | | | | \checkmark | \checkmark | \checkmark | \checkmark | | | | |
| | CE206 | Building Constructions | С | | | \checkmark | | | | | \checkmark | \checkmark | \checkmark | \checkmark | \checkmark | | | | \checkmark |
| | CE207 | Concrete Technology | С | | | | \checkmark | \checkmark | | | | \checkmark | \checkmark | \checkmark | \checkmark | | \checkmark | | |
| | GE211 | Technical English | С | | | | | | | | | \checkmark | \checkmark | \checkmark | \checkmark | | | | |
| | GE206 | Freedom & Democracy | С | | | | | | | | | \checkmark | \checkmark | \checkmark | \checkmark | | | | |

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|---|------------|----|----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----|-----------|--|--|---------------------|--|-------------------|----------------|-----------------|
| CE301StructuresCVVVVVVVVVVCE302Soil MechanicsCVVV | √ | | D2 | D1 | | | | | B4 | B3 | B2 | B1 | A4 | A3 | | A1 | | Theory of | | |
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| Third year $CE303$ Concrete C V | | | V | | | | | | | | | V | | | · · | | | Mechanics | | |
| CE304ResourcesCVVV< | | | | | | | | | | | | | | | · · | | C | Concrete | CE303 | |
| Third yearCE305AnalysisCVIIIIyearCE306Traffic EngineeringCVVVVVVVCE306Eng. Management and EconomyCVVVVVVVVVCE307Eng. Management and EconomyCVVVVVVVVVCE308ComputerCVVVVVVVVV | | | | | | √ | | V | | | | | | | √ | | С | Resources | CE304 | |
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| CE307Eng. Management and EconomyC \checkmark | | | | | \checkmark | \checkmark | | \checkmark | | | \checkmark | | | | \checkmark | | С | | CE306 | year |
| CF308 Computer C $\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$ | V | | | \checkmark | \checkmark | \checkmark | \checkmark | \checkmark | \checkmark | | | | | \checkmark | | | С | Management and | CE307 | |
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| GE311Technical EnglishCIIIIIIII | | | | | \checkmark | \checkmark | \checkmark | \checkmark | | | | | | | | | С | | GE311 | |

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| Year / Level | Course Code | Course Title | Core (C) Title or Option (O | T Sk sk em | ransf tills (o ills re ploya pers | al and erable r) Oth levant bility sonal pmen | e ner t to and | TI | ninkin | ıg Skil | lls | Su | bject- ski | specif lls | ïc | | | dge aı tandir | |
| | | | | A1 | A2 | A3 | A4 | B1 | B2 | B3 | B4 | C1 | C2 | C3 | C4 | D1 | D2 | D3 | D4 |
| | Steel Design | CE401 | С | | | | | | | | | | | | | | | | |
| | Foundation Design | CE402 | С | | \checkmark | | | | | | | | \checkmark | \checkmark | \checkmark | | \checkmark | | |
| | Transportation Engineering | CE403 | С | | \checkmark | | | \checkmark | | | | \checkmark | \checkmark | \checkmark | \checkmark | | | | \checkmark |
| | Sanitary & Environmental Engineering | CE404 | С | | \checkmark | | | \checkmark | | | | \checkmark | \checkmark | \checkmark | \checkmark | | | | |
| Forth yea r | Constructional Methods | CE405 | С | | | \checkmark | | | | | \checkmark | \checkmark | \checkmark | \checkmark | \checkmark | | | | \checkmark |
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| | Reinforced Concrete Design | CE406 | С | | \checkmark | | | | | | | | \checkmark | \checkmark | \checkmark | | | | |
| | Hydrology | CE409 | С | | | | | | | | | | | | \checkmark | | | | |
| | Selected Topics | CE410 | С | | | | | | | | | | | | | | | | |
| | Technical English | GE411 | С | | | | | | | | | | | | \checkmark | | \checkmark | | |
| | Engineering Project | CE408 | | | \checkmark | \checkmark | \checkmark | | | | | | | | | \checkmark | \checkmark | \checkmark | \checkmark |