

Republic of Iraq
Ministry of Higher Education & Scientific
Research
Supervision and Scientific Evaluation
Directorate
Quality Assurance and Academic Accreditation
International Accreditation Dept.

Academic Program Specification Form for The Academic Year ٢٠٢٢-٢٠٢٣

University: Al-Noor University College

College:

Number of Departments in the College: ١٢

Date of Form Completion: ٤-١٠-٢٠٢٢



Dean's Name

Date: / /

Dr. Yassen - Al-Hajjar

Signature





Dean's Assistant For
Scientific Affairs

Prof. Dr. Samir K. Abdullahy

Date: 3 / 11 / 2022

Signature



The College Quality
Assurance And University
Performance Manager

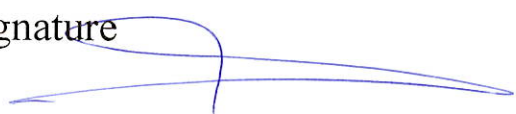
Date: / /

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Quality Assurance And University Performance Manager

Date: 8 / 11 / 2022

Signature



Dr. Hani Moslem Ahmad

TEMPLATE FOR PROGRAMME SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

PROGRAMME SPECIFICATION

This Programme Specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It is supported by a specification for each course that contributes to the programme.

١. Teaching Institution	AlNoor University College
٢. University Department/Centre	Building Engineering and Projects Management
٣. Programme Title	Building Engineering and Projects Management
٤. Title of Final Award	Bachelor of science in Building Engineering and Projects Management
٥. Modes of Attendance offered	Semester
٦. Accreditation	Program scheduled by the corresponding Dept.
٧. Other external influences	Daily, mid-semester, and final exams.
٨. Date of production/revision of this specification	٤-١٠-٢٠٢٢
٩. Aims of the Programme	<p>Graduating cadres specialist in civil engineering who can analyze, design, choose suitable building materials for specific structures.</p> <p>Prepare the bill of quantities and the contract documents.</p> <p>Choose suitable construction equipment.</p> <p>Communicate with all persons working on the site.</p> <p>Manage the whole site activities and supervise the whole construction processes.</p>

10. Learning Outcomes, Teaching, Learning and Assessment Methods

A. Knowledge and Understanding

- A¹. Enable the students to acquire knowledge and understanding in the field of civil engineering
- A². Enable the students to acquire knowledge and understanding in the field of Projects management,
- A³. Enable the students to choose the suitable building material for specific structure,
- A⁴. Enable the students to analyze civil engineering structures,
- A⁵. Enable the students to design civil engineering structures,
- A⁶. The students should be able to evaluate the teaching and learning processes and evaluate behavior.

B. Subject-specific skills

- B¹. The ability to analyze, and design civil engineering structures,
- B². Choosing suitable building materials for various structures,
- B³. Supervise and manage various construction sites,
- B⁴. Furthering studies.

Teaching and Learning Methods

Lectures,
Discussions,
Use of data show,
Laboratories for different subjects,
Field lectures in some subject.

Assessment methods

Quizzes, home works, reports, mid-semester examinations, final semester examinations.

C. Thinking Skills

- C¹. Encouraging students to learn about the role of civil engineering in establishing and maintaining infrastructures,
- C². Teaching the students to be sincere in performing his duties, like analysis, Design, and supervision,
- C³. Teaching the students to arrange priorities in his profession.
- C⁴. Encouraging students to further their studies.

Teaching and Learning Methods

- 1. Live lectures,
- 2. Discussions,
- 3. Working in groups,
- 4. Application of various equipment in the laboratory and site.

Assessment methods

- 1- Quizzes,
- 2- Home-works,

- Ƴ- Laboratories reports,
- ξ- Mid-semester exams, and
- ο- Final-semester exams.

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

- D¹. Preparing the students to work in a testing materials laboratories,
- D². Providing students with knowledge of analyzing, designing, and supervising civil engineering structures,
- D³. Enabling the students to arrange bill of quantities, cost analysis, and progress report of the project,
- D^ξ. Enabling the students to choose suitable materials, and equipment for specific projects.

Teaching and Learning Methods

Lectures,
Discussions,
Use of data show,
Laboratories for different subjects,
Field lectures in some subject.

Assessment Methods

- 1- Quizzes,
- 2- Home-works,
- 3- Laboratories reports,
- ξ- Mid-semester exams, and
- ο- Final-semester exams.

11. Programme Structure

11. Programme Structure				12. Awards and Credits
Level/Year	Course or Module Code	Course or Module Title	Credit rating	
First / First Semester	C.E.12.3	Engineering Mechanics (I)	3	B. Sc. in Civil Engineering and Projects Management
	C.E.12.1	Mathematics (I)	3	
	C.E.1211	Building materials technology (I)	3	Total credits 20
	C.E.12.7	Engineering drawing (I)	2	
	C.E.12.9	Engineering geology (I)	1	

	C.E.1201	Fundamentals of computer science	2	
	C.E.1206	Physics	1	
	C.E.1103	Human rights	1	
	C.E.1107	English	2	
	C.E.1104	Workshops (I)	2	
First / Second Semester	C.E.1204	Engineering Mechanics (II)	3	Total credits 20
	C.E.1202	Mathematics (II)	3	
	C.E.1212	Building materials technology (II)	3	
	C.E.1208	Engineering drawing (II)	2	
	C.E.1210	Engineering geology (II)	1	
	C.E.1213	Fundamentals of civil engineering	2	
	C.E.1205	Chemistry	2	
	C.E.1102	Public freedom and democracy	1	
	C.E.1106	Arabic language	1	
	C.E.1105	Workshops (II)	2	
Second / First Semester	C.E.2221	Strength of materials (I)	3	Total credits 21
	C.E.2218	Concrete technology (I)	3	
	C.E.2222	Fluid mechanics (I)	3	
	C.E.2216	Engineering surveying (I)	3	
	C.E.2214	Mathematics (III)	3	
	C.E.2227	Building construction (I)	2	
	C.E.2224	Computer aided engg. drawing	2	

	C.E. 2108	English technical language	2	Total credits 21
Second / Second Semester	C.E. 2222	Strength of materials (II)	3	
	C.E. 2219	Concrete technology (II)	3	
	C.E. 2223	Fluid mechanics (II)	3	
	C.E. 2217	Engineering surveying (II)	3	
	C.E. 2210	Mathematics (IV)	3	
	C.E. 2301	Building construction (II)	2	
	C.E. 2220	Computer Programming	2	
	C.E. 2226	Engineering statistics	2	
Third / First Semester	C.E. 3228	Soil mechanics (I)	3	
	C.E. 3233	Theory of structures (I)	2	
	C.E. 3231	Engineering analysis	2	
	C.E. 3234	Reinforced Concrete Design (I)	2	
	C.E. 3238	Building Services (I)	2	
	C.E. 3303	Quality Control of Building Materials	2	
	C.E. 3230	Principles of Remote Sensing (I)	2	
	C.E. 3239	Sanitary and Environmental Engineering (I)	2	
	C.E. 3109	English Language Essay Writing	2	
	C.E. 3110	Leadership and Management Skills	2	
	C.E. 3229	Soil mechanics (II)	3	

Third / Second Semester	C.E. ۳۲۳۰	Highway Engineering	۳	Total credits ۲۰
	C.E. ۳۲۳۷	Reinforced Concrete Design (II)	۲	
	C.E. ۳۲۴۱	Theory of structures (II)	۲	
	C.E. ۳۲۳۲	Engineering Analysis	۲	
	C.E. ۳۳۰۲	Civil Engineering Systems Analysis	۲	
	C.E. ۳۲۴۰	Sanitary and Environmental Engineering (II)	۲	
	C.E. ۳۲۳۶	Principles of Remote Sensing (II)	۱	
	C.E. ۳۳۰۴	Quality Control of Concrete	۲	
	C.E. ۳۳۰۵	Sustainable Building Materials	۱	
Fourth / First Semester	C.E. ۴۲۴۴	Foundation Engineering (I)	۳	Total credits ۲۰
	C.E. ۴۲۴۶	Quantity Surveying	۲	
	C.E. ۴۳۱۲	Building Services (II)	۲	
	C.E. ۴۲۴۲	Engineering Economy (I)	۲	
	C.E. ۴۳۰۷	Construction Methods	۲	
	C.E. ۴۳۰۸	Construction Project Management (I)	۲	
	C.E. ۴۲۴۳	Steel Design (I)	۲	
	C.E. ۴۱۱۱	Writing English Technical Report	۲	
	C.E. ۴۲۴۸	Graduation Project of ۱ st Semester	۳	

Fourth / Second Semester	C.E. ٤٢٤٥	Foundation Engineering (II)	٣	Total credits ١٩
	C.E. ٤٣١٤	Computer Applications of Project Management	٢	
	C.E. ٤٣١٣	Engineering Economy (II)	٢	
	C.E. ٤٢٤٧	Engineering Managements and Specifications	٢	
	C.E. ٤٣٠٩	Construction Project Management (II)	٢	
	C.E. ٤٣١٠	Nano and Smart Building Materials	١	
	C.E. ٤٣١١	Assessment and Rehabilitation of Concrete Structures	٢	
	C.E. ٤٣٠٦	Construction equipment's Management	٢	
	C.E. ٤٢٤٩	Graduation Project of ٢ nd Semester	٣	

١٣. Personal Development Planning

- ١- Appointing talented graduates as demonstrators in related departments,
- ٢- Appointing graduates as academic technicians in building materials laboratories,
- ٣- Appointing graduates as site engineers,
- ٤- Encouraging talented graduates to further their studies,
- ٥- Encouraging graduates to work in consultation bureaus as assistants in preparing the bill of quantities, construction documents, and site supervision.

١٤. Admission criteria .

- ١- These are set by the Central Admissions directorate,
- ٢- The distribution of students to various departments and colleges is according to the degree they obtained from the general examinations and the options put forward by the students.

١٥. Key sources of information about the programme

- ١- Engineering Mechanics, Statics and Dynamics, ١٥th Ed., R. C. Hibbler, Pearson, ٢٠٢٢.
- ٢- Mechanics of Material, R. C. Hibbler, ١١th Ed., Pearson, ٢٠٢٢.
- ٣- Fundamentals of Structural Engineering, ٢nd Ed., J.J.Connor and S. Faraji, Springer, ٢٠١٢, ١١٤٣pp.
- ٤- Design of Concrete Structures, A. H. Nilson, D. Darwin, and C. W. Dolan, ١٦th Ed., McGraw Hill, ٢٠٢١, ٨٨١ pp.
- ٥- Practical Design of Steel Structures, M. K. Ghosh, Whittles Publishing, ٢٠١٠, ٢٢٤ pp.
- ٦- Construction Materials, Edited by J.M. Illston and P.L.J. Domone, ٣rd Ed., Spon Press, ٢٠٠٢, ٥٥٤ pp.
- ٧- Building Materials, S. K. Duggal, ٣rd Ed., New Age International Publishers, ٢٠٠٨, ٥٤٤ pp.
- ٨- Construction Management and Design of Industrial Concrete and Steel Structures, M.A.El-Reedy, CRC Press, ٢٠١١, ٥٥٣ pp.
- ٩- تكنولوجيا إدارة المشاريع الهندسية والمقاولات، هنري أنطوان سميث، تعريب علاء أحمد سمور، زهران للنشر، ٢٠٠٩، ٢٧٩ صفحة.
- ١٠- Foundation Analysis and Design, J.E. Bowles, ٥th Ed., McGraw Hill, ١٩٩٨, ١٢٤١ pp.
- ١١- Calculus, H. Anton, ١٤th Ed.,
- ١٢- Elementary Differential Equations, W. E. Boyce and R.C. DiPrima, ٧th Ed.

