

Northern technical University الجامعة التقنية الشمالية



Bachelor of Science (B.Sc.) – Architecture and Building Techniques and البكالوريوس التقني - تقنيات العمارة والبناء



1. Mission & Vision Statement	بيان المهمة والرؤية
2. Program Specification	مواصفات البرنامج
3. Program (Objectives) Goals	أهداف البرنامج
4. Program Student learning outcomes	مخرجات تعلم الطالب
5. Academic Staff	الهيئة التدريسية
6. Credits, Grading and GPA	الاعتمادات والدرجات والمعدل التراكمي
7. Modules	المواد الدراسية
8. Contact	اتصال

Mission & Vision Statement .1

Vision Statement

To create an independent, innovative and educative platform with State of Art facilities for the study of design & built forms through multi-dimensional approaches and to create design professionals who understand the challenges of contemporary world..

Mission Statement

To empower future generation by providing opportunities through professional Architectural education to develop their creative abilities, to critically engage the complexities of built and natural environment and to impart knowledge and skills necessary to take leadership roles in changing professions with a spirit of self exploration and creative problem solving.

Program Specification .2

Programme code:	BSc-Arc	ECTS	300
Duration:	5 levels, 10 Semesters	Method of Attendance:	Full Time

The Building Technologies and Architecture is committed to the study of the natural and artificial systems primarily comprising cities and buildings. The Faculty and its curricula are organized around two basic disciplines of design and planning. Problems ranging from the creation of architecture to landscapes and settlement systems are covered in lectures, field work and studios, where the aim is to bring together knowledge, methodology, theory and high levels of professional skills within the framework of projects.

Program Objectives .3

1. o have sound foundation in design, structures, materials and construction techniques necessary to formulate, solve and analyze practical problems and to prepare students for further studies and research.
2. Ability to communicate ideas through different type of drawings and models, also to work in collaboration with other architects and professionals from different disciplines.
3. To understand the scope of architecture profession and potential role of architect in influencing the society and improving peoples living standards.
4. To develop the ability to understand, analyze and apply current & emerging technologies to design and develop solutions to match different site conditions

Student Learning Outcomes .4

Be able to apply creative problem solving skills to architectural problem solving

Demonstrate a knowledge of architectural history, theory, and practice in the solution of architectural design problems in a global society

Be able to utilize freehand drawing, architectural graphics, and model building skills in the solution of design problems

Be able to utilize the computer as a tool in a wide range of documentation and presentation applications, using CADD, 3-D visualization and rendering, electronic image composition and editing software

Be able to identify, formulate, and effectively communicate the critical issues involved in the solution of architectural design problems

Academic Staff .5

Qais Fadhal hasan | Ph.D. in Civil engineering | Professor

Email:dr.qaishasan@ntu.edu.iq

Mobile no.:07701321451

Nada S. Abdulmajeed | Ph.D. in Architecture Engineering | Assistant Prof.

Email: nst_architect@ntu.edu.iq

Mobile no.:07702326661

Gailan Ismat Safaeldeen | Ph.D. in Civil engineering | Lecturer.

Credits, Grading and GPA .6

Credits

(NTU) University is following the Bologna Process with the European Credit Transfer System (ECTS) credit system. The total degree program number of ECTS is 300, 30 ECTS per semester. 1 ECTS is equivalent to 25 hrs student workload, including structured and unstructured workload.

Grading

Before the evaluation, the results are divided into two subgroups: pass and fail. Therefore, the results are independent of the students who failed a course. The grading system is defined as follows:

GRADING SCHEME				
مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	راسب - قيد المعالجة	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note:				
Number Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				

Calculation of the Cumulative Grade Point Average (CGPA)

- The CGPA is calculated by the summation of each module score multiplied by its ECTS, all are divided by the program total ECTS.

CGPA of a 4-year B.Sc. degree:

$$CGPA = [(1st \text{ module score} \times ECTS) + (2nd \text{ module score} \times ECTS) + \dots] / 240$$

Curriculum/Modules .7

Semester 1 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
Arc 101	الرسم المعماري	153	72	9.00	C	
Arc 102	الرسم اليدوي 2 و 3d	93	57	6.00	B	
TECK102	مبادئ تفاضل وتكامل	63	87	6.00	B	
Arc 103	مبادئ الفن والعمارة	63	87	6.00	C	
NTU100	الديمقراطية وحقوق الانسان	33	42	3.00	S	

Semester 2 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
NTU101	اللغة الانكليزية	33	42	75	B	
Arc 104	مبادئ التصميم المعماري	153	72	225	C	
NTU102	اساسيات الحاسبة	63	87	150	B	
TECK104	المعامل (الورش)	93	57	150	B	
Arc 105	مواد البناء	63	87	150	C	

Semester 3 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
Arc 201	مبادئ التصميم المعماري	153	72	9.00	C	
TECK201	معادلات تفاضلية	63	87	6.00	B	
Arc 202	ميكانيك ومقاومة مواد	63	87	6.00	B	
Arc 203	تركيب المباني للجدران الحاملة	63	87	6.00	B	

NTU200	اللغة الانكليزية - المتوسطة	33	42	3.00	S	

Semester 4 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
Arc 204	رسم واطهار معماري	93	57	6.00	C	
Arc 205	تطبيقات الحاسبة	63	87	6.00	B	
Arc 206	تصميم معماري	153	72	9.00	C	
Arc 207	الاحصاء	63	87	6.00	B	
Arc 208	المنطق ومنهجية التصميم	33	42	3.00	B	

Semester 5 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
Arc 302	تصميم معماري متقدم	153	72	9.00	C	
Arc 303	التصميم الانشائي	63	87	6.00	C	
Arc 304	تركيب المباني السلاالم والارضيات	63	87	6.00	C	
Arc 305	اساسيات التخطيط	63	87	6.00	C	
Arc 306	خدمات صحية	33	42	3.00	C	

Semester 6 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
Arc 307	التصميم المعماري	153	72	9.00	C	
Arc 308	مسح هندسي	63	87	6.00	C	

Arc 309	تصميم الطرق	63	87	6.00	C	
Arc 310	خدمات انارة وصوتيات العمارة	63	87	6.00	C	
Arc 311	خدمات كهربائية	33	42	3.00	C	

Semester 7 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
Arc 401	التصميم المعماري	153	72	9.00	C	
Arc 402	تصميم الفضاءات الداخلية	78	72	6.00	C	
Arc 403	تقنيات بناء متقدمة	63	87	6.00	C	
Arc 404	مسح الكمي والمواصفات	33	42	3.00	C	
Arc 405	تخطيط اسكاني	63	87	6.00	C	

Semester 8 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
Arc 406	التصميم المعماري	153	72	9.00	C	
Arc 407	تصميم الفضاءات الخارجية	63	87	6.00	C	
Arc 408	الانشاء التقني	63	87	6.00	C	
Arc 409	العمارة والمناخ	33	42	3.00	C	
Arc 410	نظريات العمارة	63	87	6.00	C	

Semester 9 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
Arc 501	التصميم المعماري	153	72	9.00	C	
Arc 502	ادارة المشاريع والاقتصاد الهندسي	63	87	6.00	C	
Arc 503	منهجية البحث العلمي	33	42	3.00	C	

Arc 504	العمارة المستدامة	63	87	6.00	C	
Arc 505	مشروع التخرج الاول	78	72	6.00	C	

Semester 10 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
Arc 506	نظريات التصميم المعماري	63	87	6.00	C	
Arc 507	عمارة عربية وعراقية	63	87	6.00	C	
Arc 508	فلسفة العمارة	63	87	6.00	C	
Arc 509	نظريات النقد المعماري	33	42	3.00	C	
Arc 510	مشروع التخرج النهائي	153	72	9.00	C	

Contact .8

Program Manager:

Gailan Ismat | Ph.D. in engineering | Assistant Prof.

Email: gailanismat@ntu.edu.iq

Mobile no.:

Program Coordinator:

John Smith | Ph.D. in Biology | Assistant Prof.

Email:

Mobile no.:

