Program description					
Year / Level	Code of	Name of the course	Approved hours		
,	the course		Theoretical	Practical	
	METP125	سبائك معدنية	2	-	
	METP121	ميكانيك علم الحركة	2	2	
	NTU102	الحاسوب	1	1	
	METP120	ميكانيك علم السكون اجباري)	2	2	
	TIMO110	رياضيات /١	2	-	
	TIMO111	ریاضیات /۲	2	-	
	NTU 101	اللغة الإنكليزية	2	-	
First Level	NTU 100	الديمقر اطية وحقوق الانسان	2	-	
	NTU 105	الرياضة	2	-	
irst	METP122	القياسات واللحام	2	2	
ш	METP123	السباكة	2	2	
	METP126	رسم هندسي ثنائي الابعاد	3	-	
	METP127	الرسم الهندسي ثلاثي الابعاد	3	-	
	TIOM112	معامل ميكانيكية	6	-	
	METP129	تكنولوجيا الكهرباء	2	1	
	NTU 104	اللغة العربية	2	-	
	METP131	التدريب الصيفي		-	
	METP128	معامل متقدمة	6	-	

		Program description		
	Code of		Code of t	he course
Year / Level	the course	Name of the course	Theoretical	Practical
		تقنية أجزاء المكائن	2	-
	MTP207	اسس عمليات تصنيع	2	2
	MTP211	علم المعادن والبلورات	2	2
	MTP209	المعامل/٣		6
	اخلاقيات المهنة NTU 204		2	-
	NTU 201	الحاسوب	1	1
	سائل الربط الميكانيكية * MTP213 *		3	-
d Le	NTU 203	جرائم نظام البعث في العراق	2	-
Second Level	TUDO20	مبادئ السلامة المهنية	2	-
	MTP218	انظمة الاتمتة وادوات الانتاج	2	2
	MTP206	تصميم مكائن *	2	-
	MTP208	عمليات تصنيع المعادن	2	2
	MTP212	خواص المعادن الفيزيائية	2	2
	MTP210	المعامل/٤	6	6
	MTP216	المشروع		-
	MTP214	رسم المسننات *		3
	TUDO20 4	الادارة الصناعية	2	-
	NTU202	اخلاقيات المهنة	2	_

MTP2	19	اللحام و تشكيل المعادن	۲	2	

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching	Assessment
TTCCK	nouis	1203	Cini, Module of Topic Title	Method	Method
	_	Knowledge and		Theoretical	Tests and
1	2	Experimental	Introduction	lecture	reports
		application			
2	2	Knowledge and	The atom, the element, types	Theoretical	Tests and
2	2	Experimental application	of bonds in engineering materials.	lecture	reports
3	2	Knowledge and Experimental	Crystalline and amorphous	Power point, Lecture	Tests and
		application	materials	2000010	reports
	2	Knowledge and		Power point,	
4	_	Experimental	Crystalline forms (H.C.P)	Lecture	Tests and
		application	(F.C.C) (B.C.C).		reports
	2		Mechanical properties of	Power point,	
_		Knowledge and	.materials	Lecture	Tests and
5		Experimental application	(Stress, strain-strain-strain-		reports
		арриссион	flexion, ductility, collapse).		
	2	Knowledge and		Power point,	Tests and
6		Experimental	Hardness, hardness test.	Lecture	reports
		application			·
	2	Knowledge and		Power point,	Tests and
7		Experimental application	Supplement.	Lecture	reports
		· ·			
8	2	Knowledge and	Toughnoss toughnoss tost	Power point,	Tests and
ŏ		Experimental application	Toughness, toughness test	Lecture	reports
	2		Thormal properties of	Dower naint	
	2	Knowledge and	Thermal properties of .materials	Power point, Lecture	Tosta and
9		Experimental			Tests and reports
		application	(Thermal expansion, thermal conductivity)		
			Contactivity		

10	2	Knowledge and Experimental application	Electrical properties of materials (ionic materials, insulating materials, metallic materials, factors affecting conductivity).	Power point, Lecture	Tests and reports
11	2	Knowledge and Experimental application	Magnetic properties of materials (Ferromagnetic materials, paramagnetic materials, diamagnetic materials, magnetic retardation, factors affecting magnetism).	Power point, Lecture	Tests and reports
12	2	Knowledge and Experimental application	Chemical properties of materials (Corrosion, electrochemical chain, oxidation)	Power point, Lecture	Tests and reports
13	2	Knowledge and Experimental application	Iron, its most important material, its extraction, blast furnace, and transformers.	Power point, Lecture	Tests and reports
14	2	Knowledge and Experimental application	Carbon steel, its most important types, properties, and uses.	Power point, Lecture	Tests and reports
15	2	Knowledge and Experimental application	Alloy steel, its most important types, properties, and uses	Power point, Lecture	Tests and reports

	12. Infrastructure
Required reading:	Available in the free section and library of the . \
· CORE TEXTS	institute.
· COURSE MATERIALS	Available in the free section and library of the . Y institute.
· OTHER	
Special requirements (include for example workshops, periodicals, IT software,	
websites)	
Community-based facilities	
(Include for example, guest	
Lectures, internship, field studies)	

	13. Admissions
Pre-requisites	
Minimum number of students	40
Maximum number of students	100

Al Dour Technical Institute	1. Teaching Institution
Mechanical technical department	2. University Department/Centre
Metal alloys	3. Course title/code
Seminar, Website, Internet	4. Program(s) to which it contributes
Curriculum	5. Modes of Attendance offered
First level	6. Semester/Year
	7. Date of production/revision of this specification

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Study the engineering properties of materials and amorphous and identify the mechanical properties of metals and alloys.

9· Learning Outcomes, Teaching, Learning and Assessment Method
Knowledge and Understanding -A
A1. Study the engineering properties of metal alloys and amorphous and identify the mechanical properties of metals and alloys. By studying the mechanical tests
A2.
A3.
A4.
B. Subject-specific skills
B1. Capability to manage projects
B2. The ability to solve problems on the job site and solve crises in this field
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
Quizzes; Midterm exam. And final exam.

C. Thinking Skills
C1Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism
C3.the best usage of all available tools to get modern progress
C4. Merge in universal and local education to put the suitable solutions for problems. Carry out his duties on the job site with professional motives.
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
Quizzes; Midterm exam. And final exam.

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

D1. Improve their debating skills

D2. Raise their research perceptions and move the student from education to learning

D3.

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching	Assessment
VVCCR	nouis	1203	ome, would be rope ride	Method	Method
	2	Knowledge and	Cast iron, types, properties,	Power point,	Tests and
1		Experimental	uses	Lecture	reports
		application			
2	2	Knowledge and	augusta an t	Power point, Lecture	Tests and
2	2	Experimental application	supplement	Lecture	reports
				D	
3	2	Knowledge and Experimental	Copper, its alloys, properties,	Power point, Lecture	Tests and
	_	application	uses.	2000.	reports
		Knowledge and		Power point,	_
4	2	Experimental	Aluminum, its alloys, properties, uses.	Lecture	Tests and reports
		application	ριορει μεз, αзез.		Терогіз
		Knowledge and	Nickel, its alloys, properties,	Power point,	Tests and
5	2	Experimental	uses	Lecture	reports
		application			
			Tin, its alloys, properties, uses.	Power point,	
6	2	Knowledge and	Zinc, its alloys, properties, .uses	Lecture	Tests and
6	2	Experimental application	Manager Manager		reports
		арризаны.	Manganese, its alloys, properties, uses.		
			properties, uses.	-	
7	2	Knowledge and Experimental	Other nonferrous alloys (white	Power point, Lecture	Tests and
	2	application	metals, bearings alloys)	Lecture	reports
			Powder metallurgy	Power point,	
				Lecture	
		Knowledge and	(Methods for obtaining mineral powders, mechanical		Teste
8	2	Experimental	methods, physical and		Tests and reports
		application	chemical methods, natural,		- Cports
			mechanical, and chemical		
			properties of powders.		

9	2	Knowledge and Experimental application	Powder pressing, sintering process	Power point, Lecture	Tests and reports
10	2	Knowledge and Experimental application	Ceramic materials	Power point, Lecture	Tests and reports
11	2	Knowledge and Experimental application	Glass, types, manufacture, uses	Power point, Lecture	Tests and reports
12	2	Knowledge and Experimental application	Concrete, its industrial uses	Power point, Lecture	Tests and reports
13	2	Knowledge and Experimental application	Polymers, polymer molecules, polymers.	Power point, Lecture	Tests and reports
14	2	Knowledge and Experimental application	Properties and uses of plastics.	Power point, Lecture	Tests and reports
15	2	Knowledge and Experimental application	Supplement plastics.	Power point, Lecture	Tests and reports

	12. Infrastructure
Required reading:	Available in the free section and library of the . "
· CORE TEXTS	institute.
· COURSE MATERIALS	Available in the free section and library of the . ٤ institute.
· OTHER	mstruce.

Special requirements (include for example workshops, periodicals, IT software, websites)	
Community-based facilities	
(Include for example, guest	
Lectures, internship, field studies)	

	13. Admissions
Pre-requisites	
Minimum number of students	40
Maximum number of students	100

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAM REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the program specification.

on Al Dour Technical In	1. Teaching Institution
Mechanical technical depar	2. University Department/Centre
de Mathem	3. Course title/code
es Seminar, Website, In	4. Program(s) to which it contributes
ed Curri	5. Modes of Attendance offered
Par First	6. Semester/Year
on 1/9	8. Date of production/revision of this specification
9. Aims of the 0	

10· Learning Outcomes, Teaching, Learning and Assessment Method

Knowledge and Understanding -B
A1. Study the engineering math theories of deferential methods that have a relation hip with mechanical
projects
A2.
A3.
A4.
B. Subject-specific skills
B1. Capability to manage projects
B2. The ability to solve problems on the job site and solve crises in this field
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer
training))
Assessment methods
Quizzes; Midterm exam. And final exam.
C. Thinking Skills
C1.Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism
C3.the best usage of all available tools to get modern progress
C4. Merge in universal and local education to put the suitable solutions for problems.
Teaching and Learning Methods

Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
Quizzes; Midterm exam. And final exam.
D. General and Transferable Skills (other skills relevant to employability and personal development)
D1. Improve their debating skills
D2. Raise their research perceptions and move the student from education to learning
D3.

				Tanahina	
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching	Assessment Method
				Method	Wiethou
			Determinants and their		
1	2	Knowledge and Experimental	properties. Solving simultaneous equations by the	Theoretical	Tests and
_	_	application	method of determinants	lecture	reports
			(Cramer).		
			Determinants and their		
2	2	Knowledge and Experimental	properties. Solving simultaneous equations by the	Theoretical	Tests and
_	_	application	method of determinants	lecture	reports
			(Cramer).		
2	2	Knowledge and	Differentiation, Algebra of	Power point,	Tests and
3		Experimental application	Derivatives, Multiple Functions	Lecture	reports
	2	· ·	Differentiation Algebra of	Dower point	
4	2	Knowledge and Experimental	Differentiation, Algebra of Derivatives, Multiple	Power point, Lecture	Tests and
		application	Functions		reports
	2	Knowledge and	Differentiation, Algebra of	Power point,	Tests and
5		Experimental application	Derivatives, Multiple Functions	Lecture	reports
	2	эрриологи		Dawaraaiat	
	2	Knowledge and	Trigonometric, logarithmic, exponential functions and	Power point, Lecture	Tests and
6		Experimental application	their derivatives and implicit		reports
		орриосион.	functions, chain rule.		
	2	Knowledge and	Trigonometric, logarithmic,	Power point,	Tests and
7		Experimental	exponential functions and their derivatives and implicit	Lecture	reports
		application	functions, chain rule.		
	2	Knowledge and	Trigonometric, logarithmic,	Power point,	
8		Experimental	exponential functions and their derivatives and implicit	Lecture	Tests and reports
		application	functions, chain rule.		Терогіз

	2	Knowledge and	Graphing functions, plotting	Power point,	Tests and
9		Experimental	the trigonometric function	Lecture	reports
		application	and the maxima and minima		. 50 51 65
	2	Knowledge and	Graphing functions, plotting	Power point,	Tests and
10		Experimental	the trigonometric function	Lecture	reports
		application	and the maxima and minima		
	2	Knowledge and	Graphing functions, plotting	Power point,	Tests and
11		Experimental	the trigonometric function	Lecture	reports
		application	and the maxima and minima		
	2	Knowledge and	Applications of physical	Power point,	
12		Experimental	differential, velocity and	Lecture	Tests and
		application	acceleration, and engineering		reports
			differential applications		
	2	Knowledge and	Applications of physical	Power point,	
13		Experimental	differential, velocity and	Lecture	Tests and
		application	acceleration, and engineering differential applications		reports
			differential applications		
	2	Knowledge and	Integral, laws, and its	Power point,	
14		Experimental	relationship to differentiation,	Lecture	Tests and
		application	definite and indeterminate integral.		reports
	2	Knowledge and	Integral, laws, and its	Power point,	
15		Experimental	relationship to differentiation, definite and indeterminate	Lecture	Tests and
		application	integral.		reports
			integral.		

	12. Infrastructure
Required reading:	Available in the free section and library of the .°
· CORE TEXTS	institute.
· COURSE MATERIALS	Available in the free section and library of the . 7
· OTHER	institute.
Special requirements (include for example	
workshops, periodicals, IT software, websites)	

Community-based facilities	
(Include for example, guest	
Lectures, internship, field studies)	

	13. Admissions
Pre-requisites	
Minimum number of students	40
Maximum number of students	100

1. Teaching Institution	Al Dour Technical Institute
2. University Department/Centre	Mechanical technical department
3. Course title/code	Mathematics 2
4. Program(s) to which it contributes	Seminar, Website, Internet
5. Modes of Attendance offered	Curriculum
6. Semester/Year	First year
7. Date of production/revision of this specification	1/9/2023
	8. Aims of the Course

9- Learning Outcomes, Teaching, Learning and Assessment Method

Knowledge and Understanding -C
A1. Study the engineering math theories of integration methods that have a relation hip with mechanical projects
A2.
A3.
A4.
B. Subject-specific skills
B1. Capability to manage projects
B2. The ability to solve problems on the job site and solve crises in this field
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
Quizzes; Midterm exam. And final exam.
C. Thinking Skills
C1.Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism
C3.the best usage of all available tools to get modern progress
C4. Merge in universal and local education to put the suitable solutions for problems.
Teaching and Learning Methods
Teaching and Learning Methods

Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
Quizzes; Midterm exam. And final exam.
D. General and Transferable Skills (other skills relevant to employability and personal development)
D1. Improve their debating skills
D2. Raise their research perceptions and move the student from education to learning
D3.

New Form						
Comparison of the power point, applications of geometric (areas and volumes) and physical integration application of geometric (areas and volumes) and physical integration applications of geometric (areas and volumes) and physical integration physical integration applications of geometric (areas and volumes) and physical integration physical integration applications of geometric (areas and volumes) and physical integration physical integration application applications of geometric (areas and volumes) and physical integration physical integration application appl	Mook	Hours	II Oc	Unit/Madula or Tanic Title	Teaching	Assessment
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Experimental application applications of geometric (areas and volumes) and physical integration. Knowledge and Experimental application applications of geometric (areas and volumes) and physical integration. Knowledge and Experimental application applications of geometric (areas and volumes) and physical integration. Knowledge and Experimental application applications of geometric (areas and volumes) and physical integration. Knowledge and Experimental application applications of geometric (areas and volumes) and physical integration. Knowledge and Experimental application application applications of geometric (areas and volumes) and physical integration. General methods of integration, compensation, partial, and use of exponential and logarithmic partial fractions. Knowledge and Experimental application application and logarithmic partial fractions. Knowledge and Experimental application application and logarithmic partial and logarithmic part		2		Implicit integration	Power point	
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Knowledge and Experimental application Power point, applications of geometric (areas and volumes) and physical integration Power point, Lecture Tests and reports	2	2	· ·	(areas and volumes) and		reports
A 2 Experimental application			аррпсацоп	physical integration		
A 2 Experimental application				Implicit integration	Power point	
Experimental application Knowledge and Experimental application Experimental application Experimental application Fower point, Lecture Tests and reports					•	Tests and
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4 2 Experimental application (areas and volumes) and physical integration 5 2 Knowledge and Experimental application 7 2 Knowledge and Experimental application Knowledge and Experimental application Knowledge and Experimental application Tests and reports General methods of integration, compensation, partial, and use of exponential fractions. General methods of integration, compensation, partial, and use of exponential and logarithmic partial fractions. General methods of integration, compensation, partial, and use of exponential and logarithmic partial fractions. Feyorm point, Lecture reports Tests and reports			Knowledge and	Implicit integration,	Power point,	
Application Careas and volumes) and physical integration Careas and volumes) and physical integration Careas and volumes) and physical integration Careas and volumes) Careas and physical integration Careas and volumes) Careas and physical integration Careas and volumes) Careas and physical integration, compensation, partial, and use of exponential and logarithmic partial fractions. Careas and volumes) Careas and volumes) Careas and physical integration, compensation, partial, and use of exponential and logarithmic partial fractions. Careas and volumes) Carea	1	2		applications of geometric	Lecture	Tests and
Section	4	2	· ·	(areas and volumes) and		reports
Knowledge and Experimental application Compensation, partial fractions. Compensation, power point, Lecture may be power point, and logarithmic partial fractions. Compensation, partial and logarithmic partial fractions. Compensation, prower point, lecture may be power point, linear differential equations with their different applications. Compensation, partial fractions. Compensation, partial and logarithmic partial fractions. Compensation, partial fractions. Compensation fractions. Compensation, partial fractions. Compensation fractions. C			аррпсацоп	physical integration		
Experimental application Comparison Com				General methods of	Power point,	
Experimental application General methods of integration, compensation, partial, and use of exponential fractions. General methods of integration, compensation, partial, and use of exponential application Experimental application Knowledge and Experimental application Knowledge and Experimental application Knowledge and Experimental application Experimental application Compensation, partial, and use of exponential and logarithmic partial fractions. Discrete, homogeneous, and linear different applications. Discrete, homogeneous, and linear different applications. Compensation Fower point, Lecture reports Tests and reports Tests and reports Tests and reports Tests and reports			Knowledge and	integration, compensation,	Lecture	T
application and logarithmic partial fractions. General methods of integration, compensation, partial, and use of exponential and logarithmic partial fractions. Knowledge and Experimental application Fower point, Lecture Tests and reports	5	2	Experimental	partial, and use of exponential		
General methods of integration, compensation, partial, and use of exponential and logarithmic partial fractions. Knowledge and application Knowledge and Experimental application Knowledge and Experimental application Compensation, compensation, partial and logarithmic partial fractions. Discrete, homogeneous, and linear differential equations with their different applications. Compensation Power point, Lecture reports Power point, Lecture Tests and reports Compensation Power point, Lecture reports Tests and reports Tests and reports			application	and logarithmic partial		reports
Knowledge and Experimental application Knowledge and Experimental application Knowledge and Experimental application Knowledge and Experimental application Compensation, compensation, partial, and use of exponential and logarithmic partial fractions. Discrete, homogeneous, and linear differential equations with their different applications. Knowledge and Experimental application Knowledge and Experimental application Knowledge and Experimental application With their different different with their different applications. Tests and reports Tests and reports Tests and reports				fractions.		
Knowledge and Experimental application Knowledge and Experimental application Knowledge and Experimental application Knowledge and Experimental application Compensation, compensation, partial, and use of exponential and logarithmic partial fractions. Discrete, homogeneous, and linear differential equations with their different applications. Knowledge and Experimental application Compensation, compensation, partial, and use of exponential and logarithmic partial fractions. Discrete, homogeneous, and linear differential equations with their different applications. Compensation Lecture Tests and reports and linear differential equations with their different application reports				General methods of	Power point,	
Experimental application			Knowledge and	integration, compensation,	•	
application and logarithmic partial fractions. The stand of the sta	6	2	_			
Tests and reports Knowledge and Experimental application Knowledge and Experimental application Knowledge and Experimental application Knowledge and Experimental application Experimental application Discrete, homogeneous, and linear differential equations with their different with their different applications When the power point, application application application application application Tests and reports			application	and logarithmic partial		reports
Tests and linear differential equations with their different applications. Knowledge and Experimental application Knowledge and Experimental application Control of the				fractions.		
Tests and linear differential equations with their different applications. Knowledge and Experimental application Knowledge and Experimental application Control of the				Discrete, homogeneous, and	Power point	
7 2 Experimental application with their different applications. 8 2 Knowledge and Experimental application 8 2 Experimental with their different applications Discrete, homogeneous, and linear differential equations with their different application With their different application Tests and reports					•	Tests and
application applications. Contact Contact	7	2	· ·			
8 2 Experimental application linear differential equations with their different reports			application	applications.		
8 2 Experimental application linear differential equations with their different reports				Diamete hammer	Danne	
8 2 Experimental with their different reports			Knowledge and		•	Tosts and
application ' ' '	8	2	Experimental	· ·	Lecture	
αρριτατίοτις.			application			reports
				applications.		

9	2	Knowledge and Experimental application	Discrete, homogeneous, and linear differential equations with their different .applications	Power point, Lecture	Tests and reports
10	2	Knowledge and Experimental application	Discrete, homogeneous, and linear differential equations with their different .applications	Power point, Lecture	Tests and reports
11	2	Knowledge and Experimental application	Discrete, homogeneous, and linear differential equations with their different applications	Power point, Lecture	Tests and reports
12	2	Knowledge and Experimental application	Vectors (cross multiplication, quantification, angles .between vectors	Power point, Lecture	Tests and reports
13	2	Knowledge and Experimental application	Vectors (cross multiplication, quantification, angles between vectors.	Power point, Lecture	Tests and reports
14	2	Knowledge and Experimental application	Statistics (principles) and probability theory	Power point, Lecture	Tests and reports
15	2	Knowledge and Experimental application	Statistics (principles) and probability theory	Power point, Lecture	Tests and reports

	12. Infrastructure
Required reading: · CORE TEXTS	Available in the free section and library of the . Y institute.
· COURSE MATERIALS · OTHER	Available in the free section and library of the . ^ institute.
Special requirements (include for example workshops, periodicals, IT software, websites)	

Community-based facilities	
(Include for example, guest	
Lectures, internship, field studies)	

	13. Admissions
Pre-requisites	
Minimum number of students	40
Maximum number of students	100

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAM REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the program specification.

1. Teaching Institution	Al Dour Technical Institute
2. University Department/Centre	Mechanical technical department
3. Course title/code	Mechanical Workshop
4. Program(s) to which it contributes	Seminar, Website, Internet
5. Modes of Attendance offered	curriculum
6. Semester/Year	First level
7. Date of production/revision of this specification	1/9/2023
	8. Aims of the Course

 $9\cdot$ Learning Outcomes, Teaching, Learning and Assessment Method

Knowledge and Understanding -D
A1. Practice at the workshop s of grinding carpentering welding and casting the most important principles
of mechanical processes of fabrication and production.
A2.
AZ.
A3.
A4.
B. Subject-specific skills
B1. Capability to manage projects
B2. The ability to solve problems on the job site and solve crises in this field
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
Quizzes; Midterm exam. And final exam.
C. Thinking Skills
Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism
C3.the best usage of all available tools to get modern progress
C4. Merge in universal and local education to put the suitable solutions for problemsC1. Carry out his
duties on the job site with professional motives.

4.
Teaching and Learning Methods
reaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
Tower point, seminar, biseassion, rest
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer
training))
Assessment methods
Quizzes; Midterm exam. And final exam.
Quizzes, Macerin exam. And initial exam.
D. General and Transferable Skills (other skills relevant to employability and personal development)

D2. Raise their research perceptions and move the student from education to learning

D1. Improve their debating skills

D3.

				Teaching	
Week	Hours	ILOs	Unit/Module or Topic Title	reaching	Assessment
				Method	Method
1	6	Knowledge and Experimental application	Basic principles in model carpentry, definition of wood species and their uses, types of patterns, their carpentry, and their uses in plumbing Model correction, conditions that must be met in correcting the model, the shrinkage factor, an exercise in executive drawing of simple models with a single bound and without a box Equipment used, hand tools and mechanical equipment used, thickening machine, tray saw, band saw, tapping machine, sanding machine, .transformer Practical training for parts hanger according to the operational drawing on the labels.	Theoretical lecture	Tests and reports
2	6	Knowledge and Experimental application	Training completion, model parts finishing and assembly methods, final dimensions	Theoretical lecture	Tests and reports
3	6	Knowledge and Experimental application	Compound Models: Explanation of Polynomials, Inner Spaces	Power point, Lecture	Tests and reports
4	6	Knowledge and Experimental application	Metal casting and its importance, the purpose of using castings in the industry, the contents of the plumbing unit, industrial safety precautions for casting, the formation of a sand mold for a one-piece model in front of	Power point, Lecture	Tests and reports

			students, the sands of molds and cores, their types and sources, properties of additives, mixing processes, and adjusting amounts, use of .sand mixer, sand treatment Sand mold forming by manual methods of one-piece model to form sand mold.		
5	6	Knowledge and Experimental application	Sand mold of a one-piece model with fixing outfall and elevators, metal smelting and casting, extraction, and cleaning of castings	Power point, Lecture	Tests and reports
6	6	Knowledge and Experimental application	Forming a sand mold like before, melting the metal into a mold, removing the cast and cleaning it	Power point, Lecture	Tests and reports
7	6	Knowledge and Experimental application	Casting sand molds in a productive way, training on the use of plumbing panels that contain more than one piece in one mold and with cores, methods of cleaning castings with brushes, files, grinding stones, steel balls, compressed air, rotating machines, reviewing and examining castings, identifying the apparent defects and their causes, Reviewing the dimensions of castings, and ensuring that they match the required dimensions.	Power point, Lecture	Tests and reports
8	6	Knowledge and Experimental application	Casting sand molds for corrugated and composite models. These exercises are among the exercises that the student will complete as they work in other laboratories.	Power point, Lecture	Tests and reports

	6	Knowledge and	Metal melting furnaces, types,	Power point,	
9		Experimental	characteristics, uses, rotary	Lecture	Tests and
J		application	kiln, stirred, static furnaces	Lecture	reports
		аррисации	kiii, stiired, static furilaces		
	6		Industrial development -1	Power point,	
			and the role of the refrigerator	Lecture	
			.from it		
			The vernier foot of all -2		
			kinds. Methods of		
			measurement with it. How to		
			make a vernier that reads the		
			altimeter with depths, the		
			.vernier		
			Shankara process -3		
			The basic surfaces, the		
			number used, the materials		
			for displaying the shock thorn,		
		Knowledge and	the just men, the men of the		Tests and
10		Experimental	shankara, the guilt and the		
		application	guilt, the right angle, the		reports
			flowers of the shankara, the		
			normal and sensitive shankars,		
			the altimeter, the collector		
			protractor and measuring		
			angles, a practical exercise		
			that combines the operations		
			of the shankara		
			.or the sharkara		
			The files and the cold -4		
			process		
			Types of files, their		
			specifications, types, and		
			methods of linking artifacts to		
			their work.		
	6		The uses of files, the method	Power point,	
			of cleaning files, the cold	Lecture	
		Knowledge and	process, an exercise on the		
11		Experimental	.simple shankara and filo		Tests and
11		application			reports
		аррпсации	Chainsaw cutting		
			Hand saw, saw weapon, fixing		
			saw weapon, conditions to be		
			san weapon, conditions to be		

			met in sawing, chainsaw cutting exercise.		
12	6	Knowledge and Experimental application	Ionization process -1 Types of embryos, embryo notching and maintenance, types of hand hammer heads, method of fixing the hammer head, an exercise in the .ionization process The process of piercing - 2 and bulging Types of drills, types of primers, types of remers, how to perform the drilling and bulging process, an exercise in manual and mechanical drilling operations after performing the socket .operations The screws -3 Types of screws, internal and external dental schedules Training to perform various screwdriving operations.	Power point, Lecture	Tests and reports
13	6	Knowledge and Experimental application	Various training on the work of the filings.	Power point, Lecture	Tests and reports
14	6	Knowledge and Experimental application	The importance of maintenance for machinery and equipment, clarifying the periodic and comprehensive maintenance processes, and how to prepare maintenance reports	Power point, Lecture	Tests and reports
15	6	Knowledge and Experimental application	of sealants, sealants, . \text{ their uses, methods of fixing and removing}	Power point, Lecture	Tests and reports

them, and reviewing their work	
Types of valves, . ^۲ methods of operation, detection, and repair.	

12. Infrastruc				
Required reading:	Available in the free section and library of the . ٩			
· CORE TEXTS	institute.			
· COURSE MATERIALS	Available in the free section and library of the institute.			
· OTHER	mstruce.			
Special requirements (include for example				
workshops, periodicals, IT software, websites)				
Community-based facilities				
(Include for example, guest				
Lectures, internship, field studies)				

	13. Admissions
Pre-requisites	
Minimum number of students	40
Maximum number of students	100

1. Teaching Institution	Al Dour Technical Institute
2. University Department/Centre	Mechanical technical department
3. Course title/code	Advanced Mechanical Workshop

4. Program(s) to which it contributes	Seminar, Website, Internet			
5. Modes of Attendance offered	Curriculum			
6. Semester/Year	First level			
7. Date of production/revision of this specification	1/9/2023			
8. Aims of the Course				

9. Learning	Outcomes,	Teaching,	Learning and	Assessment Method
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Knowledge and Understanding -E

A1. Study the engineering properties of materials and amorphous and identify the mechanical properties of metals and alloys by casting the raw materials in workshop identify the welding methods and procedures of welding types of grinding of metals with implementing training

A2.

A3.

A4.

B. Subject-specific skills

B1. Capability to manage projects

B2. The ability to solve problems on the job site and solve crises in this field

Teaching and Learning Methods

Power point, Seminar, Discussion, Lecture, Test

((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))

Assessment methods

Quizzes; Midterm exam. And final exam.
C. Thinking Skills
Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism
C3.the best usage of all available tools to get modern progress
C4. Merge in universal and local education to put the suitable solutions for problemsC1. Carry out his duties on the job site with professional motives.
4.
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
Quizzes; Midterm exam. And final exam.

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

D1. Improve their debating skills

D2. Raise their research perceptions and move the student from education to learning

D3.

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	6	Knowledge and Experimental application	Occupational safety and security precautions: gas welding, the equipment used and how to install and adjust them, the number of other auxiliaries and the gases used and their specifications, welding wires, types and measurements thereof, other auxiliary materials, welding equipment, types of flame and method of ignition and setting the required flame, workpieces rinsing and cleaning the edges required to be welded.	Power point, Lecture	Tests and reports
2	6	Knowledge and Experimental application	:Practical exercises Cross-surface welding, orthogonal surfaces, oblique surfaces, circle welding, longitudinal and transverse cutting	Power point, Lecture	Tests and reports
3	6	Knowledge and Experimental application	Welding equipment, practical training in the use of electric arc in welding various surfaces, equipment used, electrodes and their installation method, practical training	Power point, Lecture	Tests and reports
4	6	Knowledge and Experimental application	CO¬¬2 gas welding and gas cutting operations, equipment used and precautions to be met Doing exercises on welding workpieces using CO¬¬2 gas	Power point, Lecture	Tests and reports

5	6	Knowledge and Experimental application	Training in gas-shielded arc welding processes (Tig, Mig).	Power point, Lecture	Tests and reports
6	6	Knowledge and Experimental application	Assembly drills using various different cutting and welding processes.	Power point, Lecture	Tests and reports
7	6	Knowledge and Experimental application	Bending billet cutting equipment, rolling machine, manual grooving and tooling machine, manual billet use and bending, standard screwing, menu and drawing method, simple individuations, disconnected and incomplete actuators singularity calculation.	Power point, Lecture	Tests and reports
8	6	Knowledge and Experimental application	Training on calculating the single cross artifacts, doing an exercise for two crossed cylinders.	Power point, Lecture	Tests and reports
9	6	Knowledge and Experimental application	Sections of cone and minus cone	Power point, Lecture	Tests and reports
10	6	Knowledge and Experimental application	Lathe, specifications, uses, accessories, installation methods, lathe operation, types of lathe pens using each .of them	Power point, Lecture	Tests and reports
11	6	Knowledge and Experimental application	:Turning operations Flat turning, adjustment, center work, simple graduated exercise, use of measuring tools.	Power point, Lecture	Tests and reports
12	6	Knowledge and Experimental application	Lathing of the external stalk by different methods, explaining the laws for each method. Doing an exercise for the external lever	Power point, Lecture	Tests and reports

13	6	Knowledge and Experimental application	Work the different teeth externally (triangle) Do an exercise that includes the tooth of the triangle. The work of the tooth an external box and an exercise.	Power point, Lecture	Tests and reports
14	6	Knowledge and Experimental application	Cutting speeds, selection and use of their tables	Power point, Lecture	Tests and reports
15	6	Knowledge and Experimental application	Implementation of training on decentralized turning and use of quadruple sample.	Power point, Lecture	Tests and reports

	12. Infrastructure
Required reading:	Available in the free section and library of the . \ \ \
· CORE TEXTS	institute.
· COURSE MATERIALS	Available in the free section and library of the . \ \ institute.
· OTHER	mstruce.
Special requirements (include for example workshops, periodicals, IT software,	
websites)	
Community-based facilities	
(Include for example, guest	
Lectures, internship, field studies)	

	13. Admissions
Pre-requisites	
Minimum number of students	40

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAM REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the program specification.

1. Teaching Institution	Al Dour Technical Institute
2. University Department/Centre	Mechanical technical department
3. Course title/code	Mechanics static
4. Program(s) to which it contributes	Seminar, Website, Internet
5. Modes of Attendance offered	Curriculum
6. Semester/Year	First year
7. Date of production/revision of this specification	1/9/2023
	8. Aims of the Course

Work to enhance the student's confidence in his engineering abilities and to crystallize his scientific and regular personality, which qualifies him after graduation to contribute effectively to community service.

9. Learning Outcomes, Teaching, Learning and Assessment Method
J Learning Odeomes, reaching, Learning and Assessment Method
Knowledge and Understanding -F
A1. Study the engineering static loads affected at bodies and calculate the value of it and the direction of
and analyses these forces and loads
A3.
A5.
A4.
B. Subject-specific skills
D1 Carability to margan are insta
B1. Capability to manage projects
B2. The ability to solve problems on the job site and solve crises in this field
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
//The creation locations / proceedings locations / creations / creations / creations / creations resident / creations
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
₆₍₎
Assessment methods
/issessment methods
Quizzes; Midterm exam. And final exam.
C. Thinking Skills
Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism

C3.the best usage of all available tools to get modern progress C4. Merge in universal and local education to put the suitable solutions for problems
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
Quizzes; Midterm exam. And final exam.

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

D2. Raise their research perceptions and move the student from education to learning

D1. Improve their debating skills

D3.

D4.

Mook	House	ILOs	Unit/Module or Tonic Title	Teaching	Assessment
Week	Hours	ilos	Unit/Module or Topic Title	Method	Method
		Knowledge and	Static, fundamental concepts,	_, ., .	
1	4	Experimental	Force, Scalars and, Vectors,	Theoretical	Tests and
		application	Units , Force polygon ,	lecture	reports
			Cartesian Components .		
		Knowledge and	Analysis of Forces	Theoretical	Tests and
2	4	Experimental		lecture	reports
		application		10000.	. 5 6 5 . 13
	4	Knowledge and	Resultant of Concurrent,	Power point,	Tooto and
3		Experimental	Coplanar Force system (2-D)	Lecture	Tests and reports
		application			reports
	4	Knowledge and	Moments	Power point,	
4		Experimental		Lecture	Tests and
		application			reports
	4	Knowledge and	Couples, transformation of the	Power point,	
5	4	Experimental	Couple and the force	Lecture	Tests and
J		application	couple and the force	2000.0	reports
C	4	Knowledge and	Resultant of non –Concurrent,	Power point,	Tests and
6		Experimental application	Coplanar force system (3-D) .	Lecture	reports
		аррпсастоп			
	4	Knowledge and	Equilibrium, free body	Power point,	Tests and
7		Experimental	diagram (F.B.D.)	Lecture	reports
		application			
	4	Knowledge and	Equilibrium Conditions (2-D)	Power point,	Tests and
8		Experimental		Lecture	reports
		application			reports
	4	Knowledge and	Equilibrium Conditions (3-D)	Power point,	Tastana
9		Experimental		Lecture	Tests and reports
		application			reports
	4	Knowledge and	Friction, Dry Friction	Power point,	
10		Experimental		Lecture	Tests and
		application			reports

11	4	Knowledge and Experimental application	Center of Gravity, Centroid, Centroid of Simple area	Power point, Lecture	Tests and reports
12	4	Knowledge and Experimental application	Centroids of Composite areas.	Power point, Lecture	Tests and reports
13	4	Knowledge and Experimental application	Moment of inertia (Simple and Composite areas).	Power point, Lecture	Tests and reports
14	4	Knowledge and Experimental application	2-Dynamics type of motion, Linear motion with constant speed .	Power point, Lecture	Tests and reports
15	4	Knowledge and Experimental application	Linear motion with Constant acceleration.	Power point, Lecture	Tests and reports

	12. Infrastructure
Required reading:	Available in the free section and library of the .\"
· CORE TEXTS	institute.
· COURSE MATERIALS	Available in the free section and library of the . \ \ \ institute.
· OTHER	
Special requirements (include for example workshops, periodicals, IT software,	
websites)	
Community-based facilities	
(Include for example, guest	
Lectures, internship, field studies)	

	13. Admissions
Pre-requisites	

Minimum number of students	40
Maximum number of students	100

Al Dour Technical Institute	1. Teaching Institution
Mechanical technical departmen	2. University Department/Centre
Mechanics dynamic	3. Course title/code
Seminar, Website, Interne	4. Program(s) to which it contributes
Curriculun	5. Modes of Attendance offered
First yea	6. Semester/Year
1/9/2023	7. Date of production/revision of this specification
8. Aims of the Course	

regular personality, which qualifies him after graduation to contribute effectively to community service.

9- Learning Outcomes, Teaching, Learning and Assessment Method

Knowledge and Understanding -G

A1. Study the engineering dynamic loads affected the bodies and calculate these loads value

Work to enhance the student's confidence in his engineering abilities and to crystallize his scientific and

A3.

A4.

B. Subject-specific skills

B1. Capability to manage projects

B2. The ability to solve problems on the job site and solve crises in this field

Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
a.ag,j
Assessment methods
Quizzes; Midterm exam. And final exam.
C. Thinking Skills
Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism
C3.the best usage of all available tools to get modern progress
C4. Merge in universal and local education to put the suitable solutions for problems
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
Quizzes; Midterm exam. And final exam.

D. General and Transferable Skills (other skills relevant to employability and personal development)
D1. Improve their debating skills
D2. Raise their research perceptions and move the student from education to learning
D3.
D4.

Mook	Hours	ILOs	Unit/Modulo or Tonic Title	Teaching	Assessment
Week	Hours	ILOS	Unit/Module or Topic Title	Method	Method
1	4	Knowledge and Experimental application	Newton's Second Law	Power point, Lecture	Tests and reports
2	4	Knowledge and Experimental application	Curvilinear motion	Power point, Lecture	Tests and reports
3	4	Knowledge and Experimental application	Angular motion, Relative Motion.	Power point, Lecture	Tests and reports
4	4	Knowledge and Experimental application	Work, Energy, Power	Power point, Lecture	Tests and reports
5	4	Knowledge and Experimental application	3-Strength of material: Fundamental concept, Loads, Stress, Strain, Elasticity, Plasticity, Deformation.	Power point, Lecture	Tests and reports
6	4	Knowledge and Experimental application	Hook's Law, Stress -strain curve, type of stress .	Power point, Lecture	Tests and reports
7	4	Knowledge and Experimental application	Normal stress due to an axial load on 1-Uniformam Cross section area 2- Variable cross section area .	Power point, Lecture	Tests and reports
8	4	Knowledge and Experimental application	Shear Stress	Power point, Lecture	Tests and reports
9	4	Knowledge and Experimental application	Torsional Stress	Power point, Lecture	Tests and reports
10	4	Knowledge and Experimental application	Thermal Stress	Power point, Lecture	Tests and reports

11	4	Knowledge and Experimental application	Beams, types of loads , types of beams .	Power point, Lecture	Tests and reports
12	4	Knowledge and Experimental application	Shear force (S.F.) & bending moment (B.M.) of Simple supported beam under an – axial load.	Power point, Lecture	Tests and reports
13	4	Knowledge and Experimental application	Shear force (S.F.) & bending moment (B.M.) of Simple supported beam under uniform distributed Load.	Power point, Lecture	Tests and reports
14	4	Knowledge and Experimental application	Shear force (S.F.) & bending moment (B.M.) of cantilever beam under an –axial load.	Power point, Lecture	Tests and reports
15	4	Knowledge and Experimental application	Shear force (S.F.) & bending moment (B.M.) of cantilever beam under uniform distributed Load.	Power point, Lecture	Tests and reports

	12. Infrastructure
Required reading:	Available in the free section and library of the . \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
· CORE TEXTS	institute.
· COURSE MATERIALS	Available in the free section and library of the . \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
· OTHER	mstitute.
Special requirements (include for example workshops, periodicals, IT software,	
websites)	
Community-based facilities	
(Include for example, guest	
Lectures, internship, field studies)	

Pre-requisites	
Minimum number of students	40
Maximum number of students	100

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAM REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the program specification.

Al Dour Technical Institute	1. Teaching Institution
Mechanical technical department	2. University Department/Centre
Human rights and democracy	3. Course title/code
Seminar, Website, Internet	4. Program(s) to which it contributes

5. Modes of Attendance offered	curriculum			
6. Semester/Year	First level			
7. Date of production/revision of this specification	1/9/2023			
8. Aims of the Course				

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Knowledge and Understanding -H

A1. Achieve the progress for all people and protect the personal freedom

A3.protect the human freedom for person and achieve the justice and equally between all

A4.

B. Subject-specific skills

B1. Capability to manage projects and cooperation between people and governorate

B2. The ability to solve problems on the job site and solve crises in this field

Teaching and Learning Methods

Power point, Seminar, Discussion, Lecture, Test

((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))

Assessment methods

Quizzes; Midterm exam. And final exam.

C. Thinking Skills
Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism
C3.the best usage of all available tools to get modern progress
C4. Merge in universal and local education to put the suitable solutions for problems.
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test ((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
Quizzes; Midterm exam. And final exam.

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

D1. Improve their debating skills

D2. Raise their research perceptions and move the student from education to learning

D3.

D4.

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	Knowledge and Experimental application	Human rights - their definition - their goals	Theoretical lecture	Tests and reports
2	2	Knowledge and Experimental application	The Roots and Development of Human Rights in Human History - Human Rights in Antiquity and the Middle Ages	Theoretical lecture	Tests and reports
3	2	Knowledge and Experimental application	Human rights in ancient civilizations, especially the Mesopotamian civilization	Power point, Lecture	Tests and reports
4	2	Knowledge and Experimental application	Human rights in the divine laws with a focus on human rights in Islam.	Power point, Lecture	Tests and reports
5	2	Knowledge and Experimental application	Medieval human rights: human rights in doctrines, schools and political theories - Human rights in companies and their declarations, revolutions and constitutions (English documents - American Revolution - French Revolution - Russian Revolution)	Power point, Lecture	Tests and reports
6	2	Knowledge and Experimental application	Human Rights in Contemporary and Modern History - International recognition of human rights since the First World War and disobedience - the United Nations)	Power point, Lecture	Tests and reports
7	2	Knowledge and Experimental application	Regional recognition of human rights - European Convention on Human Rights 1950 - American Convention on Human Rights 1969 - African	Power point, Lecture	Tests and reports

			Charter on Human Rights 1981 - Arab Charter on Human Rights 1994.		
8	2	Knowledge and Experimental application	Non-governmental organizations and human rights (International Committee of the Red Cross - Amnesty International - Human Rights Watch)	Power point, Lecture	Tests and reports
9	2	Knowledge and Experimental application	National human rights organizations	Power point, Lecture	Tests and reports
10	2	Knowledge and Experimental application	Human rights in Iraqi constitutions between theory and reality	Power point, Lecture	Tests and reports
11	2	Knowledge and Experimental application	The relationship between human rights and public :freedoms In the Universal -1 .Declaration of Human Rights 2- In regional charters and national constitutions.	Power point, Lecture	Tests and reports
12	2	Knowledge and Experimental application	The relationship between human rights and public :freedoms In the Universal -1 .Declaration of Human Rights 2- In regional charters and national constitutions.	Power point, Lecture	Tests and reports
13	2	Knowledge and Experimental application	Essential human rights and collective human rights.	Power point, Lecture	Tests and reports
14	2	Knowledge and Experimental application	Economic, social, and cultural human rights, civil and political human rights	Power point, Lecture	Tests and reports

15	2	Knowledge and Experimental application	Modern human rights: facts in development - the right to a clean environment - the right to true solidarity.	Power point, Lecture	Tests and reports
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	12. Infrastructure
Required reading:	Available in the free section and library of the . \\
· CORE TEXTS	institute.
· COURSE MATERIALS	Available in the free section and library of the . ۱۸
· OTHER	institute.
Special requirements (include for example workshops, periodicals, IT software,	
websites)	
Community-based facilities	
(Include for example, guest	
Lectures, internship, field studies)	

13. Admissio		
Pre-requisites		
Minimum number of students	40	
Maximum number of students	100	

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the program specification.

1. Teaching Institution	Al Dour Technical Institute
2. University Department/Centre	Mechanical technical department
3. Course title/code	Engineering Drawing 2 dimensions
4. Program(s) to which it contributes	Seminar, Website, Internet
5. Modes of Attendance offered	Curriculum
6. Semester/Year	First year
7. Date of production/revision of this specification	1/9/2023
	8. Aims of the Course

9. Learning Outcomes, Teaching, Learning and Assessment Method

Knowledge and Understanding -I

A1. Study the engineering drawings and design parts using AutoCAD program

A3.draw parts of 2 dimensions as first step to draw using AutoCAD

A4.

B. Subject-specific skills
B1. Capability to manage projects
B2. The ability to solve problems on the job site and solve crises in this field
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
training))
Assessment methods
Assessment methods
Quizzes; Midterm exam. And final exam.
Quizzes, Midderni exam.
C. Thinking Skills
Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism
C3.the best usage of all available tools to get modern progress
C4. Merge in universal and local education to put the suitable solutions for problems.
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
bille point, comman, billed in the control of the c
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer
training))
Assessment methods

D. General and Transfe	erable Skills (other skills relevant to employability and personal development)
	D1. Improve their debating skill
D2. Rai	ise their research perceptions and move the student from education to learning
	D3
	D4.

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	3	Knowledge and Experimental application	The importance of engineering drawing, the importance of using the computer to implement the engineering drawing, the sizes of standard drawing boards, an overview of the AutoCAD program	Theoretical lecture	Tests and reports
2	3	Knowledge and Experimental application	Preparation for drawing using the Title Block computer	Theoretical lecture	Tests and reports
3	3	Knowledge and Experimental application	Drawing geometric shapes using the computer	Power point, Lecture	Tests and reports
4	3	Knowledge and Experimental application	Graphic adjustments, CAD aids	Power point, Lecture	Tests and reports
5	3	Knowledge and Experimental application	Graphic adjustments, CAD aids	Power point, Lecture	Tests and reports
6	3	Knowledge and Experimental application	Perspective drawing, a perspective drawing containing a circle represented by an oval.	Power point, Lecture	Tests and reports
7	3	Knowledge and Experimental application	Perspective drawing, a perspective drawing containing a circle represented by an oval	Power point, Lecture	Tests and reports
8	3	Knowledge and Experimental application	Perspective drawing, a perspective drawing containing a circle represented by an oval	Power point, Lecture	Tests and reports

9	3	Knowledge and Experimental application	Perspective drawing, a perspective drawing containing a circle represented by an oval	Power point, Lecture	Tests and reports
10	3	Knowledge and Experimental application	Projection theory, simplified projection	Power point, Lecture	Tests and reports
11	3	Knowledge and Experimental application	Projection theory, simplified projection	Power point, Lecture	Tests and reports
12	3	Knowledge and Experimental application	Principal projections, even angles, drawing according to the theory of the first even projection angle, drawing according to the theory of the third even projection angle.	Power point, Lecture	Tests and reports
13	3	Knowledge and Experimental application	Principal projections, even angles, drawing according to the theory of the first even projection angle, drawing according to the theory of the third even projection angle.	Power point, Lecture	Tests and reports
14	3	Knowledge and Experimental application	Principal projections, even angles, drawing according to the theory of the first even projection angle, drawing according to the theory of the third even projection angle.	Power point, Lecture	Tests and reports
15	3	Knowledge and Experimental application	Principal projections, even angles, drawing according to the theory of the first even projection angle, drawing according to the theory of the third even projection angle.	Power point, Lecture	Tests and reports

Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Available in the free section and library of the . \ \ institute. Available in the free section and library of the . \ \ institute.
Special requirements (include for example workshops, periodicals, IT software, websites)	
Community-based facilities (Include for example, guest Lectures, internship, field studies)	

	13. Admissions
Pre-requisites	
Minimum number of students	40
Maximum number of students	100

Al Dour Technical Institute	1. Teaching Institution
Mechanical technical department	2. University Department/Centre
Engineering Drawing 3 dimensions	3. Course title/code
Seminar, Website, Internet	4. Program(s) to which it contributes
Curriculum	5. Modes of Attendance offered
First year	6. Semester/Year
1/9/2023	7. Date of production/revision of this specification

9· Learning Outcomes, Teaching, Learning and Assessment Method
Knowledge and Understanding -J
A1. Study the engineering drawings and design parts using AutoCAD program
A2.draw parts of 3 dimensions as first step to draw using AutoCAD
A3. Assembling parts using side front up views of drawing
B. Subject-specific skills
B1. Capability to manage projects
B2. The ability to solve problems on the job site and solve crises in this field
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test ((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
Quizzes; Midterm exam. And final exam.
C. Thinking Skills
Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism

8. Aims of the Course

C3.the best usage of all available tools to get modern progress
C4. Merge in universal and local education to put the suitable solutions for problems.
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer
training))
Assessment methods
Quizzes; Midterm exam. And final exam.

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

D2. Raise their research perceptions and move the student from education to learning

D1. Improve their debating skills

D3.

D4.

Week Hours ILOs Unit/Module or Topic Title Teaching Method Assessment Method 1 3 Knowledge and Experimental application Draw the three principal projections with the even angle and note the difference between them. Power point, Lecture Tests and reports 2 3 Knowledge and Experimental application Draw the three principal projections with the even angle and note the difference between them. Power point, Lecture Tests and reports 3 3 Knowledge and Experimental application Deduction of the third projections from the two projections Power point, Lecture Tests and reports 4 3 Knowledge and Experimental application Deduce the perspective from the two projections Power point, Lecture Tests and reports 5 3 Knowledge and Experimental application Deduce the perspective from two or three projections. Power point, Lecture Tests and reports 7 3 Knowledge and Experimental application Cutting theory, cutting shapes and lines by type of material, cutting projections. Power point, Lecture Tests and reports 8 3 Knowledge and Experimental application Cutting theory, cutting shapes and lines by type of material, cutting projecti						
Section	NA/ a a la			Huis /84 adula au Taula Tisla	Teaching	Assessment
Rhowledge and Experimental application	week	Hours	iLOs	Unit/Module or Topic Title	Method	Method
Rhowledge and Experimental application						
Experimental application Experimental application Experimental application Experimental application Experimental application Experimental application Draw the three principal projections with the even angle and note the difference between them. Experimental application A drawing of projections cut from one specific location Experimental application A drawing of projections cut from one specific location Experimental application Experimental app		3	Knowledge and			
Richard Reperimental application Deduction of the third projections with the even angle and note the difference between them. Deduction with the even angle and note the difference between them. Deduction of the third projections with the even angle and note the difference between them. Deduction of the third projections with the even angle and note the difference between them. Deduction of the third projections with the even angle and note the difference between them. Deduction of the third projections with the even angle and note the difference between them. Deduction of the third projections with the even angle and note the difference between them. Deduction of the third projections with the even angle and note the difference between them. Deduction of the third projections with the even angle and projection from the two projections with the even angle and note the difference between them. Deduction of the third projections with the even angle and reports Deduction of the third projections with the even angle and reports Deduction of the third projections with the even angle and reports Deduction of the third projections with the even angle and reports Deduction of the third projections with the even angle and reports Deduction of the third projections with the even angle and reports Deduction of the third projections with the even angle and projections with the even angle and note the difference between them. Deduction of the third projections Dewer point, Lecture Tests and reports Tests and lines by type of material, cutting projections with the even angle and lines by type of material, cutting projections with the even angle and lines by type of material, cutting projections with the ven angle and lines by type of material, cutting projections with the ven angle and lines by type of material, cutting projections with the ven and reports Tests	1		_		Lecture	
Continue to the perspective from two or three projections. Power point, Lecture application			·			reports
Experimental application Knowledge and Experimental application Experimental application Knowledge and Experimental application Experimental application Knowledge and Experimental application A drawing of projections cut from one specific location Fower point, Lecture Tests and reports Tests and reports Tests and reports				between them.		
Experimental application Knowledge and Experi			Knowledge and	Draw the three principal	Power point,	
application between them. Knowledge and Experimental application projection from the two projections Knowledge and Experimental application projection from the two projections Knowledge and Experimental application projection from the two projections Knowledge and Experimental application projections. Knowledge and Experimental application Power point, Lecture reports projections. Knowledge and Experimental application Power point, Lecture reports projections. Knowledge and Experimental application Power point, Lecture reports and lines by type of material, cutting projections. Knowledge and Experimental application Power point, Lecture reports Power point, Lecture reports Tests and reports Tests and reports Power point, Lecture reports Tests and T	2	2		projections with the even	Lecture	Tests and
Setween them. Deduction of the third projections Power point, Lecture reports	2	3	· ·	angle and note the difference		reports
Section Power point, Lecture Tests and reports			аррпсацоп	between them.		
Separation Power point, Lecture Tests and reports			Knowledge and	Deduction of the third	Power point,	Teste
A Barberimental application Deduce the perspective from two or three projections. Power point, Lecture Tests and reports	3	3	Experimental	projection from the two	Lecture	
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Experimental application projection from the two projections Knowledge and Experimental application Experimental application Mover point, Lecture two or three projections. Knowledge and Experimental application Experimental application Cutting theory, cutting shapes and lines by type of material, cutting projections. Knowledge and Experimental application A drawing of projections cut from one specific location Knowledge and Experimental application Knowledge and Experimental application Knowledge and Experimental application Knowledge and Experimental application A drawing of projections cut from one specific location Fower point, Lecture reports Tests and reports Tests and reports Tests and reports			Knowledge and	Deduction of the third	Power point	
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Samplication Deduce the perspective from two or three projections. Power point, Lecture Tests and reports			· ·	• •		reports
Experimental application Cutting theory, cutting shapes and lines by type of material, application State Cutting theory, cutting shapes and lines by type of material, application State Cutting theory, cutting shapes and lines by type of material, cutting projections. Cutting theory, cutting shapes and lines by type of material, cutting projections. Cutting theory, cutting shapes and lines by type of material, cutting projections. Cutting theory, cutting shapes and lines by type of material, cutting projections. Cutting theory, cutting shapes and lines by type of material, cutting projections. Cutting theory, cutting shapes and lines by type of material, cutting projections. Power point, Lecture reports			·			
A drawing of projections Reports Reports	_	2	_	Deduce the perspective from		Tests and
Knowledge and Experimental application A drawing of projections cut from one specific location Knowledge and Experimental Experimental application Knowledge and Experimental Experimenta	5	3	· ·	two or three projections.	Lecture	reports
Experimental application Knowledge and Experimental Experimental A drawing of projections cut from one specific location Fower point, Lecture reports			аррисации			
Knowledge and Experimental application Knowledge and Experimental Experimental application Knowledge and Experimental Ex			Knowledge and	Deduce the perspective from	Power point,	Tests and
Tests and reports Tests and reports	6	3	Experimental		Lecture	
Tests and reports State			application	coro or amos projections.		Торогио
Tests and reports Sexperimental application Sexperime			Knowledge and	Cutting theory, cutting shapes	Power point,	Tanka an d
Knowledge and Experimental application Knowledge and Experimental application Knowledge and Experimental application Knowledge and Experimental application A drawing of projections cut from one specific location Knowledge and Experimental application Knowledge and Experimental application Knowledge and Experimental application Knowledge and Experimental Experimental A drawing of projections cut from one specific location Experimental	7	3	Experimental	and lines by type of material,	Lecture	
8 3 Experimental application and lines by type of material, cutting projections. Strowledge and Experimental application A drawing of projections cut from one specific location Knowledge and application Knowledge and Experimental application A drawing of projections cut from one specific location A drawing of projections cut from one specific location A drawing of projections cut from one specific location A drawing of projections cut from one specific location Tests and reports			application	cutting projections.		reports
8 3 Experimental application and lines by type of material, cutting projections. Strowledge and Experimental application A drawing of projections cut from one specific location Knowledge and application Knowledge and Experimental application A drawing of projections cut from one specific location A drawing of projections cut from one specific location A drawing of projections cut from one specific location A drawing of projections cut from one specific location Tests and reports			Knowledge and	Cutting theory, cutting shapes	Power point,	
Street Services of the service	8	3	Experimental	and lines by type of material,		
A drawing of projections cut from one specific location Experimental application Knowledge and Experimental Structure application A drawing of projections cut from one specific location A drawing of projections cut from one specific location A drawing of projections cut reports			application	cutting projections.		reports
A drawing of projections cut from one specific location Experimental application Knowledge and Experimental Structure application A drawing of projections cut from one specific location A drawing of projections cut from one specific location A drawing of projections cut reports			Knowledge and		Power point	
Tests and from one specific location application 8	9	3				
Knowledge and A drawing of projections cut from one specific location Experimental A drawing of projections cut from one specific location Tests and reports			· ·	from one specific location		reports
10 3 Experimental A drawing of projections cut Lecture reports					Davis	
from one specific location reports	10	2		A drawing of projections cut		Tests and
αρριτατίστι	10	3	· ·	from one specific location	Lecture	reports
			аррпсации			

11	3	Knowledge and Experimental application	Partially cut Muscat fee	Power point, Lecture	Tests and reports
12	3	Knowledge and Experimental application	Partially cut Muscat fee	Power point, Lecture	Tests and reports
13	3	Knowledge and Experimental application	Draw a half-cut cross section, draw zigzag sections.	Power point, Lecture	Tests and reports
14	3	Knowledge and Experimental application	Draw a half-cut cross section, draw zigzag sections.	Power point, Lecture	Tests and reports
15	3	Knowledge and Experimental application	Draw a half-cut cross section, draw zigzag sections.	Power point, Lecture	Tests and reports

	12. Infrastructure
Required reading:	Available in the free section and library of the . ۲۱
· CORE TEXTS	institute.
· COURSE MATERIALS	Available in the free section and library of the . ۲۲ institute.
· OTHER	
Special requirements (include for example workshops, periodicals, IT software,	
websites)	
Community-based facilities	
(Include for example, guest	
Lectures, internship, field studies)	

Pre-requisites	
Minimum number of students	40
Maximum number of students	100

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAM REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the program specification.

Al Dour Technical Institute	1. Teaching Institution
Mechanical technical department	2. University Department/Centre
Electrical technology	3. Course title/code
Seminar, Website, Internet	4. Program(s) to which it contributes
Curriculum	5. Modes of Attendance offered
First level	6. Semester/Year
1/9/2023	7. Date of production/revision of this specification

9· Learning Outcomes, Teaching, Learning and Assessment Method
Knowledge and Understanding -K
A1. Study the electrical circles and repairing the damages of must electrical apparatus
A2.oms law
A3.units of electric laws and electric, voltage that used in calculations
A4.
B. Subject-specific skills
B1. Capability to manage projects
B2. The ability to solve problems on the job site and solve crises in this field
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer
training))
Assessment methods
Quizzes; Midterm exam. And final exam.

8. Aims of the Course

C. Thinking Skills
Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism
C3.the best usage of all available tools to get modern progress
C4. Merge in universal and local education to put the suitable solutions for problems
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test ((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
Quizzes; Midterm exam. And final exam.

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

D1. Improve their debating skills

D2. Raise their research perceptions and move the student from education to learning

D3.

D4.

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	3	Knowledge and Experimental application	First - the basics of electricity	Theoretical lecture	Tests and reports
2	3	Knowledge and Experimental application	Electrical units and symbols, simple circuit, current strength of electric driving force.	Theoretical lecture	Tests and reports
3	3	Knowledge and Experimental application	Potential difference, Ohm's law, methods of connecting resistors (series, parallel, compound)	Power point, Lecture	Tests and reports
4	3	Knowledge and Experimental application	Practical examples of solving electrical circuits.	Power point, Lecture	Tests and reports
5	3	Knowledge and Experimental application	Second: alternating (variable) current	Power point, Lecture	Tests and reports
6	3	Knowledge and Experimental application	Methods for obtaining alternating current, types of electric power plants.	Power point, Lecture	Tests and reports
7	3	Knowledge and Experimental application	Sine wave, waveform of current with time, frequency, definition of effective value of alternating current and voltage	Power point, Lecture	Tests and reports
8	3	Knowledge and Experimental application	Knowledge of power factor and functions, applications and examples of the use of alternating current in practical life.	Power point, Lecture	Tests and reports
9	3	Knowledge and Experimental application	Third: electromagnetism	Power point, Lecture	Tests and reports

10	3	Knowledge and Experimental application	Magnetic field, field properties, magnetic properties, types of magnetic materials, definitions of (field density, field strength, magnetic momentum).	Power point, Lecture	Tests and reports
11	3	Knowledge and Experimental application	The magnetic effect of electric current Applications to the use of the magnetic attraction force.	Power point, Lecture	Tests and reports
12	3	Knowledge and Experimental application	Fourth: the alternating current has three sides	Power point, Lecture	Tests and reports
13	3	Knowledge and Experimental application	Single-sided alternating current, three-phase alternating current, faceted identification method, external overall wiring system.	Power point, Lecture	Tests and reports
14	3	Knowledge and Experimental application	Star (Y) connection method, face current and line current from star, face voltage and line voltage from star, power in the case of a three-phase system, method for conducting electrical loads.	Power point, Lecture	Tests and reports
15	3	Knowledge and Experimental application	Delta () connection method, face current and line current in the case of delta face and line voltage, power Applications and examples of star and delta connection.	Power point, Lecture	Tests and reports

	12. Infrastructure
Required reading: · CORE TEXTS · COURSE MATERIALS	Available in the free section and library of the . ۲۳ institute. Available in the free section and library of the . ۲٤ institute.

· OTHER	
Special requirements (include for example workshops, periodicals, IT software, websites)	
Community-based facilities (Include for example, guest Lectures, internship, field studies)	

	13. Admissions
Pre-requisites	
Minimum number of students	40
Maximum number of students	100

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAM REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the program specification.

Al Dour Technical Institute	1. Teaching Institution
Mechanical technical department	2. University Department/Centre
Computer	3. Course title/code
Seminar, Website, Internet	4. Program(s) to which it contributes
Curriculum	5. Modes of Attendance offered
First level	6. Semester/Year
1/9/2023	7. Date of production/revision of this specification
8. Aims of the Course	

9. Learning Outcomes, Teaching, Learning and Assessment Metho

Knowledge and Understanding -L

A1. Study the basic programs of office excel power point

A3.parts of computer

A4.

B. Subject-specific skills

B1. Capability to manage projects

B2. The ability to solve problems on the job site and solve crises in this field

Teaching and Learning Methods

Power point, Seminar, Discussion, Lecture, Test

((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))

Assessment metho
Quizzes; Midterm exam. And final ex
C. Thinking SI
Carry out his duties on the job site with professional moti
C2.ability to enhance and advance the information's in the specia
C3.the best usage of all available tools to get modern prog
C4. Merge in universal and local education to put the suitable solutions for probler
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture,
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / sum traini
Assessment method
Quizzes; Midterm exam. And final ex

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

D1. Improve their debating skills

D2. Raise their research perceptions and move the student from education to learning

D3.

	11. Course structure				
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	3	Knowledge and Experimental application	An introduction to computers: their generations, their components: hardware and software (system software and application software).	Theoretical lecture	Tests and reports
2+3	3	Knowledge and Experimental application	Windows operating system: the concept of the Windows system, its features and basic requirements, the operation of the system, the components of the main desktop screen, the concept of the icon Icon	Theoretical lecture	Tests and reports
4		Knowledge and Experimental application	The method of dealing with mouse activities The importance and components of the Taskbar, the use of Start to enter the programs, the concept of loaded tasks, exit from the system Shut Down .Calculator is turned off	Power point, Lecture	Tests and reports
5		Knowledge and Experimental application	The concept of the window for any program and identifying its main components, dealing with desktop icons such as (My Document; My Computer; .(Recycle Bin	Power point, Lecture	Tests and reports
6		Knowledge and Experimental application	Learn about My Computer * in terms of disks, folders and the file and how to deal with creating floppy disks, copying folders and files, dealing with the recycle bin, and how to	Power point, Lecture	Tests and reports

		delete and retrieve files through what is provided by the recycle bin from this .aspect		
7	Knowledge and Experimental application	Take advantage of the * Control Panel programs such as the Mouse icon and the control icon in the screen saver and change the appearance of the background of the desktop and the Program in adding and .removing programs	Power point, Lecture	Tests and reports
8	Knowledge and Experimental application	Take advantage of the Run * option in executing the programs appropriately, as well as switching to the system signal (Ms-Dos) and dealing with its commands	Power point, Lecture	Tests and reports
9	Knowledge and Experimental application	Using entertainment * programs such as (Window .Media player) to play movies	Power point, Lecture	Tests and reports
10	Knowledge and Experimental application	Take advantage of the * additional programs (Accessories) such as the calculator (Calculater	Power point, Lecture	Tests and reports
11-12	Knowledge and Experimental application	Dealing with the drawing * program (Paint) in creating, saving and retrieving drawings through the commands it provides	Power point, Lecture	Tests and reports
13-14	Knowledge and Experimental application	Dealing with the notes * window (Notpad; Wordpad) in writing, saving, retrieving and printing texts, and changing	Power point, Lecture	Tests and reports

		the style and formatting of its .printing		
15	Knowledge and Experimental application	* Know how to get help and its various methods.	Power point, Lecture	Tests and reports

	12. Infrastructure
Required reading:	Available in the free section and library of the . Yo
· CORE TEXTS	institute.
· COURSE MATERIALS	Available in the free section and library of the . ٢٦ institute.
· OTHER	
Special requirements (include for example workshops, periodicals, IT software,	
websites)	
Community-based facilities	
(Include for example, guest	
Lectures, internship, field studies)	

	13. Admissions
Pre-requisites	
Minimum number of students	40
Maximum number of students	100

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAM REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the program specification.

Al Dour Technical Institute	1. Teaching Institution
Mechanical technical department	2. University Department/Centre
Parts Techniques	3. Course title/code
Seminar, Website, Internet	4. Program(s) to which it contributes
Curriculum	5. Modes of Attendance offered
second level	6. Semester/Year
1/9/2023	7. Date of production/revision of this specification
8. Aims of the Course	

9· Learning Outcomes, Teaching, Learning and Assessment Method
A-Knowledge and Understanding
A1. Study the engineering and mechanical parts
A2.machine parts aims to explain the role of mechanical parts through machine System, the relation links
them, how to conduct some calculations to design these parts and to specify all factors that are affected
A3.
A4.
B. Subject-specific skills
B1. Capability to manage projects
B2. The ability to solve problems on the job site and solve crises in this field
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
- Color politically - Colo
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer
training))
Assessment methods
Outeran Middenne avene And final avene
Quizzes; Midterm exam. And final exam.
C. Thinking Skills
Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism
C3.the best usage of all available tools to get modern progress

C4. Merge in universal and local education to put the suitable solutions for problems.
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
Quizzes; Midterm exam. And final exam.
D. General and Transferable Skills (other skills relevant to employability and personal development)
D1. Improve their debating skills

D3.

	11. Course Structure			urse Structure	
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	Knowledge and Experimental application	Review of Strength of Materials	Theoretical lecture	Tests and reports
2+3	2	Knowledge and Experimental application	Riveted Joints. Types of Riveted Joints, Design of Riveted Joints, Efficiency of Riveted Joints .	Theoretical lecture	Tests and reports
4+5	2	Knowledge and Experimental application	Welded Joint Types of welding Joints, Design of welding Joints	Power point, Lecture	Tests and reports
6+7	2	Knowledge and Experimental application	Screwed Joints, Design of Bolts for Fastening, Design of Bolts for Power Transition .	Power point, Lecture	Tests and reports
8+9	2	Knowledge and Experimental application	Keyed Joints, Types of Keys, Design of Sunk Key.	Power point, Lecture	Tests and reports
10+11	2	Knowledge and Experimental application	Frictional Clutches, Type of Frictional Clutches, Design of Frictional Clutches.	Power point, Lecture	Tests and reports
12+13	2	Knowledge and Experimental application	Types of Springs, Design of Springs	Power point, Lecture	Tests and reports
14+15	2	Knowledge and Experimental application	Types of Belts, Design of Belts.	Power point, Lecture	Tests and reports

	12. Infrastructure
Required reading: · CORE TEXTS	Available in the free section and library of the . ۲۷ institute.
· COURSE MATERIALS	Available in the free section and library of the . ۲۸ institute.

· OTHER	
Special requirements (include for example workshops, periodicals, IT software, websites)	
Community-based facilities (Include for example, guest Lectures, internship, field studies)	

	13. Admissions
Pre-requisites	
Minimum number of students	40
Maximum number of students	100

1. Teaching Institution	Al Dour Technical Institute
2. University Department/Centre	Mechanical technical department
3. Course title/code	Machine design
4. Program(s) to which it contributes	Seminar, Website, Internet
5. Modes of Attendance offered	Curriculum
6. Semester/Year	second level
7. Date of production/revision of this specification	1/9/2023
	8. Aims of the Course

9· Learning Outcomes, Teaching, Learning and Assessment Method
A-Knowledge and Understanding
A1. Study the engineering and designing of machines
A2.machine parts aims to explain the role of mechanical parts through machine System, the relation links
them, how to conduct some calculations to design these parts and to specify all factors that are affected
A3.
A4.
B. Subject-specific skills
B1. Capability to manage projects
B2. The ability to solve problems on the job site and solve crises in this field
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer
training))
Assessment methods
Quizzes; Midterm exam. And final exam.
C. Thinking Skills
Carry out his duties on the job site with professional motives.

C2.ability to enhance and advance the information's in the specialism
C3.the best usage of all available tools to get modern progress
C4. Merge in universal and local education to put the suitable solutions for problems.
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
Quizzes; Midterm exam. And final exam.
D. General and Transferable Skills (other skills relevant to employability and personal development)
D1. Improve their debating skills

D3.

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1-2	2	Knowledge and Experimental application	Design of Shafts	Power point, Lecture	Tests and reports
3-4	2	Knowledge and Experimental application	Design of Journal Bearings	Power point, Lecture	Tests and reports
5	2	Knowledge and Experimental application	Selection of Ball Bearings	Power point, Lecture	Tests and reports
6-7	2	Knowledge and Experimental application	Design of Gears by Lewis Equation	Power point, Lecture	Tests and reports
8-9	2	Knowledge and Experimental application	Gears Trains	Power point, Lecture	Tests and reports
10-11	2	Knowledge and Experimental application	Design of Simple Gears Box	Power point, Lecture	Tests and reports
12-13	2	Knowledge and Experimental application	Worm Gears	Power point, Lecture	Tests and reports
14-15	2	Knowledge and Experimental application	Cams	Power point, Lecture	Tests and reports

Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Available in the free section and library of the . ۲۹ institute. Available in the free section and library of the . ۳۰ institute.
Special requirements (include for example workshops, periodicals, IT software, websites)	
Community-based facilities (Include for example, guest Lectures, internship, field studies)	

	13. Admissions
Pre-requisites	
Minimum number of students	40
Maximum number of students	100



This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the program specification.

Al Dour Technical Institute	1. Teaching Institution		
Mechanical technical department	2. University Department/Centre		
Basics of Manufacturing process	3. Course title/code		
Seminar, Website, Internet	4. Program(s) to which it contributes		
Curriculum	5. Modes of Attendance offered		
Second level	6. Semester/Year		
1/9/2023	7. Date of production/revision of this specification		
8. Aims of the Course	8. Aims of the Course		

Knowledge and Understanding -M

A1. Analysis the processes of operations elements

A2.set the technology loop of production units

A3.emplement the working card

A4.

B. Subject-specific skills

B1. Capability to manage projects

B2. The ability to solve problems on the job site and solve crises in this field

Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer
training))
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Assessment methods
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Quizzes; Midterm exam. And final exam.
C Thinking Chille
C. Thinking Skills
Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism
C3.the best usage of all available tools to get modern progress
C4. Merge in universal and local education to put the suitable solutions for problems.
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
A 13CC35.HEIR MECHOUS
Quizzes; Midterm exam. And final exam.
Quizzes, Midteriii exam. And final exam.

D. General and Transferable Skills (other skills relevant to employability and personal development)
D1. Improve their debating skills
D2. Raise their research perceptions and move the student from education to learning
D3.
D4.

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	3	Knowledge and Experimental application	Geometric tolerances, pairings, systems of duplications, orders of tolerances, units of duality, basic deviations,	Theoretical lecture	Tests and reports
2	3	Knowledge and Experimental application	Types of tolerances, punching platform, column platform, codes of duplications, tolerances for loose dimensions, detailed duplications, choice of duplications and their economic advantages.	Theoretical lecture	Tests and reports
3	3	Knowledge and Experimental application	Geometric tolerances in shape and position and types of shape and position tolerances.	Power point, Lecture	Tests and reports
4	3	Knowledge and Experimental application	Measurement parameters, design of measurement parameters, types of measurement parameters (internal measurement parameters, external measurement parameters, adjustable measurement parameters, solid measurement parameters, special measurement parameters).	Power point, Lecture	Tests and reports
5	3	Knowledge and Experimental application	Classification of metalworking, metalworking, an introduction to the theory of reich formation and influencing factors, methods of fixing artifacts, including round and non-round, used cutting edges and longitudinal and transverse feed arrows.	Power point, Lecture	Tests and reports

6	3	Knowledge and Experimental application	Learn about the used pens and how to install them for the crafts, lathing pens.	Power point, Lecture	Tests and reports
7	3	Knowledge and Experimental application	Knowing the types of corners of the lathing pens, the effect of the corners of the lathing pen on the cutting process, the types of metal for the lathing pens, the conditions of cutting, the elements of the pieces, the uses of the cutting speeds, the use of tables and speed maps, the classification of several pieces in relation to the methods of operation and the number of cutting edges.	Power point, Lecture	Tests and reports
8	3	Knowledge and Experimental application	The cutting boundary, the emerging cutoff limit and the theory of its composition, the factors affecting it, the factors that lead to reducing its size, cooling and its importance for cutting operations, various cooling fluids.	Power point, Lecture	Tests and reports
9	3	Knowledge and Experimental application	How to make the operating card for a group of operations and calculate its elements and calculate the cutting time for each process	Power point, Lecture	Tests and reports
10	3	Knowledge and Experimental application	How to take advantage of the sequence card to create a product path through the different units.	Power point, Lecture	Tests and reports
11	3	Knowledge and Experimental application	The factors that affect the selection of the cutting speed (1- the influence of the properties of the cutting tool, 2- the influence of the operating elements, 3- the	Power point, Lecture	Tests and reports

		effect of the properties of the working metal.			
Tests and reports	Power point, Lecture	Automatic turret lathe machines, studying the processes that can be operated and analyzing the processes on the product, how to prepare operating cards.	Knowledge and Experimental application	3	12
Tests and reports	Power point, Lecture	The types of numbers used and their arrangement on the hexagonal head, front and back quadrant.	Knowledge and Experimental application	3	13
Tests and reports	Power point, Lecture	Study how to program automatic programd lathes and the factors affecting operating steps.	Knowledge and Experimental application	3	14
Tests and reports	Power point, Lecture	Milling, identifying the operations that can be performed on milling machines, the parts and components of horizontal and vertical milling machines and the nature of the work of each part.	Knowledge and Experimental application	3	15

12. Infrastructure
Available in the free section and library of the .٣١
institute.
Available in the free section and library of the . " institute.

Lectures, internship, field studies)	

	13. Admissions
Pre-requisites	
Minimum number of students	40
Maximum number of students	100

Al Dour Technical Institute	1. Teaching Institution
Mechanical technical department	2. University Department/Centre
Metal fabrication process	3. Course title/code
Seminar, Website, Internet	4. Program(s) to which it contributes
Curriculum	5. Modes of Attendance offered
Second level	6. Semester/Year
1/9/2023	7. Date of production/revision of this specification
8. Aims of the Course	

 $9\cdot$ Learning Outcomes, Teaching, Learning and Assessment Method

Knowledge and Understanding -N
A1. Analysis the processes of operations elements
A2.set the technology loop of production units
A3.emplement the working card
A4.
B. Subject-specific skills
B1. Capability to manage projects
B2. The ability to solve problems on the job site and solve crises in this field
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer
training))
Assessment methods
Quizzes; Midterm exam. And final exam.
C. Thinking Skills
Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism
C3.the best usage of all available tools to get modern progress
C4. Merge in universal and local education to put the suitable solutions for problems.

Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
Quizzes; Midterm exam. And final exam.
D. General and Transferable Skills (other skills relevant to employability and personal development)

D1. Improve their debating skills

D3.

Mook	Hours	ILOs	Unit/Madula or Tania Titla	Teaching	Assessment
Week	Hours	ilos	Unit/Module or Topic Title	Method	Method
	3	Knowledge and	Machine accessories, division	Power point,	
1		Experimental	heads, tools for connecting	Lecture	Tests and
		application	artifacts, mandrels, and		reports
			bushes.		
	3	.,	Kinds of milling knives (disc	Power point,	
2		Knowledge and	and fingerless), gear-	Lecture	Tests and
2		Experimental	brightening knives, angle		reports
		application	milling knives.		
	3		Explanation of the steps of the	Power point,	
	3		milling operations, the	Lecture	
		Knowledge and	selection of the appropriate	Lecture	
3		Experimental	machine, the initial		Tests and
		application	dimensions of the artifacts,		reports
			the methods of linking the		
			artifacts		
	3	Knowledge and	Milling of different types of	Power point,	
4	J	Experimental	gears (just, bevel, helical,	Lecture	Tests and
		application	worm gears)		reports
_	3	Knowledge and	The way the dovetail dovetail	Power point,	Tests and
5		Experimental application	works, the letter V-block interlock.	Lecture	reports
		аррисации	interiock.		
	3		Operating rates, cutting and	Power point,	
		Knowledge and	feeding speeds, and the basis	Lecture	Tests and
6		Experimental	for selecting them for the		reports
		application	following different milling		·
			operations).		
	3		Skimming: introducing the	Power point,	
			types of planers (cart, fluffer,	Lecture	
		Knowledge and	vertical) the operations that		
7		Experimental	take place on the skimming		Tests and
		application	machine, the operating		reports
			capabilities available for each		
			machine, methods of linking the artifacts.		
			the artifacts.		

8	3	Knowledge and Experimental application	Operating rates such as cutting and feeding speeds, attachments of scrapers such as dividing heads or special devices, angles of scraping pens, types of forces acting on them.	Power point, Lecture	Tests and reports
9	3	Knowledge and Experimental application	Skimming planer, clarification of (cutting stroke, return stroke), connection methods on the skimming planer machine and operating rates, calculating the cutting time for skimming, numbers of the .skimming sequence card	Power point, Lecture	Tests and reports
10	3	Knowledge and Experimental application	Grinding: Introduction to the theory of cutting and the shape of the feather in the grinding process, the grinding stones used (peripheral, facet, lateral, cup, external, internal), their specifications and uses, connecting methods .and their balances	Power point, Lecture	Tests and reports
11	3	Knowledge and Experimental application	Different grinding machines and operating capabilities for each type (internal and external cylindrical grinding machines, number grinding machines).	Power point, Lecture	Tests and reports
12	3	Knowledge and Experimental application	Preparing a comprehensive operating card for all cutting .operations	Power point, Lecture	Tests and reports
13	3	Knowledge and Experimental application	Metal Formation: Formation Theory, Foundations of Hot and Cold Forming, Types of Forming.	Power point, Lecture	Tests and reports
14	3	Knowledge and Experimental application	Rolling: the basics and methods of rolling, the rolled products, the sequence of	Power point, Lecture	Tests and reports

			processes in the rolling mill,		
			the machines used, the		
			conditions for completing the		
			rolling process.		
			Extrusion: Foundations of		
			metal and metal extrusion		
			used, direct extrusion, reverse		
			extrusion, kinds of extrusion		
			products.		
	3		Shearing and punching:	Power point,	
			Principles of shearing	Lecture	
			operations, types of dies and		
			parts thereof, in each case,		
			dimensions of the raw		
		"	material and methods of		
45		Knowledge and	selection, calculation of shear		Tests and
15		Experimental	.strength		reports
		application	(Deep clouds and clouds): the		
			foundations of deep drawing		
			and drawing processes,		
			calculating drag forces and		
			special ratios in each case,		
			types of clouds and their uses.		
			,,		

	12. Infrastructure
Required reading:	Available in the free section and library of the .٣٣
· CORE TEXTS	institute.
· COURSE MATERIALS	Available in the free section and library of the .٣٤ institute.
· OTHER	mstitute.
Special requirements (include for example	
workshops, periodicals, IT software, websites)	
Community-based facilities	
(Include for example, guest	
Lectures, internship, field studies)	

	13. Admissions
Pre-requisites	
Minimum number of students	40
Maximum number of students	100

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAM REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the program specification.

1. Teaching Institution	Al Dour Technical Institute
2. University Department/Centre	Mechanical technical department
3. Course title/code	Mineralogy and crystallography
4. Program(s) to which it contributes	Seminar, Website, Internet
5. Modes of Attendance offered	Curriculum

6. Semester/Year	second level	
7. Date of production/revision of this specification	1/9/2023	
8. Aims of the Course		
Study the engineering properties of materials and amorphous and identify the mechanical properties of		
	metals and alloys.	

9· Learning Outcomes, Teaching, Learning and Assessment Method
Knowledge and Understanding -O
A1.explain the materials and its properties
A2.the use of all lab apparatuses to examine and test the metal properties
A3.the deference between metals properties
A4.
B. Subject-specific skills
B1. Capability to manage projects
B2. The ability to solve problems on the job site and solve crises in this field
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer
training))
Assessment methods
Quizzes; Midterm exam. And final exam.

C. Thinking Skills
Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism
C3.the best usage of all available tools to get modern progress
C4. Merge in universal and local education to put the suitable solutions for problems.
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
Quizzes; Midterm exam. And final exam.

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

D1. Improve their debating skills

D2. Raise their research perceptions and move the student from education to learning

D3.

Mask	110	W.C	Unit/Madula as Tavia Title	Teaching	Assessment
Week	Hours	ILOs	Unit/Module or Topic Title	Method	Method
1	3	Knowledge and Experimental application	Definition of metallurgy, crystallization, dendritic crystallization, the effect of cooling rate on the structure of minerals.	Theoretical lecture	Tests and reports
2	3	Knowledge and Experimental application	Mineral block installation (cast freezing) Common casting defects.	Theoretical lecture	Tests and reports
3	3	Knowledge and Experimental application	Coefficient of atomic crowding, crystalline trends, crystalline levels, and entrainment phenomena.	Power point, Lecture	Tests and reports
4	3	Knowledge and Experimental application	Crystal lattice defects, point, linear.	Power point, Lecture	Tests and reports
5	3	Knowledge and Experimental application	Flexible and plastic forming (sliding, twinning)	Power point, Lecture	Tests and reports
6	3	Knowledge and Experimental application	Effective hardening, cold forming, hot forming.	Power point, Lecture	Tests and reports
7	3	Knowledge and Experimental application	Restoration, recrystallization, crystal growth.	Power point, Lecture	Tests and reports
8	3	Knowledge and Experimental application	Stress curves, strain in bending, tidal, fracture, types of fracture, wandering from ductile fracture to brittle.	Power point, Lecture	Tests and reports
9	3	Knowledge and Experimental application	Fatigue, mechanism of fatigue, factors affecting fatigue limit, fatigue resistance materials.	Power point, Lecture	Tests and reports

10	3	Knowledge and Experimental application	Creep, creep occurrence mechanism, creep-resistant material.	Power point, Lecture	Tests and reports
11	3	Knowledge and Experimental application	Composite, phase, solid solution, order, equilibrium, alloy formation, mechanical mixture, eutectic.	Power point, Lecture	Tests and reports
12	3	Knowledge and Experimental application		Power point, Lecture	Tests and reports
13	3	Knowledge and Experimental application	Thermal equilibrium diagram for fully dissolved dual system in liquid and solid state, Thermal equilibrium diagram for fully dissolved dual system in liquid and insoluble state in solid state (aiotic).	Power point, Lecture	Tests and reports
14	3	Knowledge and Experimental application	Thermal equilibrium diagram of a fully soluble binary soluble finite system	Power point, Lecture	Tests and reports
15	3	Knowledge and Experimental application	Thermal stability diagram of a fully dissolved dual system in the liquid state, forming a chemical compound upon freezing.	Power point, Lecture	Tests and reports

12. Infrastructur		
Required reading:	Available in the free section and library of the .٣٥	
· CORE TEXTS	institute.	
· COURSE MATERIALS	Available in the free section and library of the .٣٦ institute.	
· OTHER	mstitute.	
Special requirements (include for example workshops, periodicals, IT software,		
websites)		

Community-based facilities	
(Include for example, guest	
Lectures, internship, field studies)	

	13. Admissions
Pre-requisites	
Minimum number of students	40
Maximum number of students	100

1. Teaching Institution	Al Dour Technical Institute	
2. University Department/Centre	Mechanical technical department	
3. Course title/code	Physical properties of metals	
4. Program(s) to which it contributes	Seminar, Website, Internet	
5. Modes of Attendance offered	Curriculum	
6. Semester/Year	second level	
7. Date of production/revision of this specification	1/9/2023	
8. Aims of the Course		
explain the materials and its properties.		
.the use of all lab apparatuses to examine and test the metal properties		
.the deference between metals properties		

9- Learning Outcomes, Teaching, Learning and Assessment Method

Knowledge and Understanding -P
A1. A1.explain the materials and its properties
A2.the use of all lab apparatuses to examine and test the metal properties
A3.the deference between metals properties
A4.
B. Subject-specific skills
B1. Capability to manage projects
B2. The ability to solve problems on the job site and solve crises in this field
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer
training))
Assessment methods
Quizzes; Midterm exam. And final exam.
C. Thinking Skills
Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism
C3.the best usage of all available tools to get modern progress
C4. Merge in universal and local education to put the suitable solutions for problems.
Teaching and Learning Methods

Power point, Seminal	, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / gra	
	training))
	Assessment methods
Quizzes; Midt	erm exam. And final exam.
D. General and Transferable Skills (other skills relevant to employability an	d personal development)

D1. Improve their debating skills

D3.

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method	
1	3	Knowledge and Experimental application	Iron, solubility of carbon in iron, thermal equilibrium diagram of iron / carbon system, the most important reactions included in the diagram.	Power point, Lecture	Tests and reports	
2	3	Knowledge and Experimental application	Complementary to the Iron / Carbon Thermal Balance Scheme	Power point, Lecture	Tests and reports	
3	3	Knowledge and Experimental application	The formation of austenite, the mechanism of conversion of perlite to austenite	Power point, Lecture	Tests and reports	
4	3	Knowledge and Experimental application	Austenite shifts are steady degree and cryogenic transformations.	Power point, Lecture	Tests and reports	
5	3	Knowledge and Experimental application	Thermal Treatments (Annealing, Equation, Standardization)	Power point, Lecture	Tests and reports	
6	3	Knowledge and Experimental application	Complementation of heat treatments (standardization and revision), sub-zero heat treatments, aging.	Power point, Lecture	Tests and reports	
7	3	Knowledge and Experimental application	Surface hardening (carbonation of all kinds and the thermal treatments that follow it).	Power point, Lecture	Tests and reports	
8	3	Knowledge and Experimental application	Alloy steel, the effect of alloying elements on the properties of steel.	Power point, Lecture	Tests and reports	
9	3	Knowledge and Experimental application	Stainless steel, steel to number	Power point, Lecture	Tests and reports	

10	3	Knowledge and Experimental application	Cast iron production and heat treatment	Power point, Lecture	Tests and reports
11	3	Knowledge and Experimental application	Supplementing the production of cast iron and its most important types	Power point, Lecture	Tests and reports
12	3	Knowledge and Experimental application	Definition of corrosion, direct and indirect economic costs of corrosion, manifestations of corrosion, mechanism of occurrence of corrosion	Power point, Lecture	Tests and reports
13	3	Knowledge and Experimental application	Negativity, Faraday's law, general erosion, galvanic corrosion, cavernous erosion.	Power point, Lecture	Tests and reports
14	3	Knowledge and Experimental application	Soil Erosion, Facultative Erosion, Intercrystalline Erosion, Stress Erosion	Power point, Lecture	Tests and reports
15	3	Knowledge and Experimental application	Optimum selection of material, ambient relief, design and operation.	Power point, Lecture	Tests and reports

12. Infrastructure				
Required reading:	Available in the free section and library of the .٣٧			
· CORE TEXTS	institute.			
· COURSE MATERIALS	Available in the free section and library of the .٣٨ institute.			
· OTHER				
Special requirements (include for example workshops, periodicals, IT software,				
websites)				
Community-based facilities				
(Include for example, guest				
Lectures, internship, field studies)				

	13. Admissions
Pre-requisites	
Minimum number of students	40
Maximum number of students	100

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAM REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the program specification.

Al Dour Technical Institute	1. Teaching Institution
Mechanical technical department	2. University Department/Centre
Workshop 3	3. Course title/code
Seminar, Website, Internet	4. Program(s) to which it contributes
Curriculum	5. Modes of Attendance offered

6. Semester/Year	Second year
7. Date of production/revision of this specification	1/9/2023
	8. Aims of the Course

9· Learning Outcomes, Teaching, Learning and Assessment Method
Knowledge and Understanding -Q
A1. The practical work on the turning and milling , grinding drilling machines .
A2.duties to implement on the turning machine
A3.define the cutting cutter and metal preparing to work
A4.
B. Subject-specific skills
B1. Capability to manage projects
B2. The ability to solve problems on the job site and solve crises in this field
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
Quizzes; Midterm exam. And final exam.

C. Thinking Skills
Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism
C3.the best usage of all available tools to get modern progress
C4. Merge in universal and local education to put the suitable solutions for problems.
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
Quizzes; Midterm exam. And final exam.

D1. Improve their debating skills

D2. Raise their research perceptions and move the student from education to learning

D3.

	11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method	
1	2	Knowledge and Experimental application	(Freezing (5 weeks -1 Horizontal milling machine, -1 .the main university Explain the parts of the machine and the function of each, the operation of the machines and the selection of speeds and feeds, the tools and devices attached to the machines and their uses and methods of fixing them, the dividing heads, the machines, the rotary tray, the whole milling heads, the rack work head, the sewer working .head :Milling cutters -2 Types (cylindrical surface milling, shoulder milling, sewer work cutters, gear lightening cutters, cylindrical special forming cutters with (internal or peripheral hole The uses of the electrodes, methods of installing them, fixing the artifacts :Milling flat surfaces -3 Selecting and installing the appropriate electronic equipment, adjusting cutting and feeding speeds, how to install the workpieces, the sequence of operations, parts of milling operations to	Theoretical lecture	Tests and reports	

straighten flat, inclined and

			opposite surfaces and make a group of different channels		
2	2	Knowledge and Experimental application	Partition Headers and Their -1 :Uses Partitioning device and how to use it, simple division, dividing using holes circles, differential division, dividing angles, doing exercises on different types of divisions (dividing parts, .(dividing angles) 2- Milling of straight gears on general machines and amended serrated newspapers, laws relating to cutting gears, used cutters, service equipment, preparation of the processing and operation of parts of milling operations, review of the final dimensions, training on milling of a fairing arc and a modified serrated sheet.	Theoretical lecture	Tests and reports
3	2	Knowledge and Experimental application	Milling bevel gears on -1 :general machines The same method of milling) (gear gears Milling helical gears and -2 inclined serrated sheets on :general machines (The same platform as the gears milling mechanism)	Power point, Lecture	Tests and reports
4	2	Knowledge and Experimental application	Milling the artifacts with -1 the division of the corners Dredging the internal -2 .sewers 3- Milling the curves, explaining the general laws of	Power point, Lecture	Tests and reports

			each process, the steps of their implementation, preparing the raw materials, choosing the straws, choosing the operating rates, performing the milling operations, reviewing the dimensions of the works.		
5	2	Knowledge and Experimental application	Dismantling and installing -1 .the mandrel Opening, maintenance and -2 installation of the machine .table Open the gearbox of the -3 main parts and learn how to change the speed and reinstall it Open the feed speed box -4 and learn how to change and .re-install it Carrying out speed change -5 operations through belts and pulleys and identifying how to convert them and the process .of tightening them 6- Identifying the electrical control circuits for the operation of the milling machine.	Power point, Lecture	Tests and reports
6	2	Knowledge and Experimental application	(grinding (5 weeks -2 :Grinding machines -1 Internal and external) cylindrical, eccentric grinding, superficial grinding, number of (teeth :Grinding stones -2	Power point, Lecture	Tests and reports

			Shapes, types, specifications, use of each, preparation of grinding stones for operation (balance control, stone (leveling (leveling Surface grinding machines -3 Explain the parts of the machine and its function, the method of operation and the control of the course, the speed of feeding and grafting, methods of fixing the artifacts, the use of coolant fluids and its types Training on grinding flat, -4 parallel, perpendicular, and oblique surfaces 5- Sewer Grinding: Training on grinding of various sewers and round sewers.		
7	2	Knowledge and Experimental application	:Cylindrical grinding Parts of the machine and how to operate it, adjust operating speeds and rates, test the appropriate stone for the work, install works, use cooling fluids and measuring .tools 2- Exercises on external and internal cylindrical grinding.	Power point, Lecture	Tests and reports
8	2	Knowledge and Experimental application	Decentralized grinding and .linkage grinding 2- Various grinding operations using previous grinding operations, training on them.	Power point, Lecture	Tests and reports

	_				
	2		:Tool sharpening machine	Power point,	
			Operating the number-age -1	Lecture	
			machines, how to deal with		
			them, and choosing the		
			appropriate machine for the		
			age of the specific tool		
		Wa souls des sand			
0		Knowledge and	How to install the cutting -2		Tests and
9		Experimental	tool on the machine and		reports
		application	determine the required angles		
			.for the cutting edge		
			3- Carrying out tooth		
			operations for models of the		
			number of pieces (single-cut		
			tool, binary categorical,		
			polynomial.		
			polynomia.		
	2		Maintenance of grinding	Power point,	
			machines (general internal	Lecture	
			and external cylindrical		
			(grinding machine		
			How to change the coolant 1		
			How to change the coolant -1 and determine the required		
			level.		
		Knowledge and	.ievei		
10		Experimental	Determine the places of -2		Tests and
		application	lubrication and lubrication of		reports
		''	the machine and the		
			appropriate type of oil and		
			.grease		
			2. Comming out the surress of		
			3- Carrying out the process of		
			changing the rotational speed transmission belts for the		
			stone and the work.		
			Stone and the work.		
	2		(Scraping (5 weeks -3	Power point,	
				Lecture	
		Knowledge and	Detangling and vertical -1		
11		Experimental	:planers		Tests and
		application	The difference between the		reports
		app.:000.011	use of each of them, the parts		
			of the machine and the		
			method of work, the works		
			,		

15	2	Knowledge and Experimental application	Maintenance of the scraping :machine Maintenance of the cart -1 .skimming machine Opening the alligator and -2 maintenance parts for the control parts on the length of the stroke, as well as changing .the location of the stroke 3- Parts of various lubrication and lubrication operations and opening the oil pump.	Power point, Lecture	Tests and reports
14	2	Knowledge and Experimental application	Various skimming exercises.	Power point, Lecture	Tests and reports
13	2	Knowledge and Experimental application	Drills on arcs scraping, sewer work on circular crafts using splitters on planers.	Power point, Lecture	Tests and reports
12	2	Knowledge and Experimental application	Exercises to plan surfaces and complete parts of the parts, V-block, punched bases.	Power point, Lecture	Tests and reports
			and surfaces that can be operated on each of the pens used, the methods of installing them, the cutting speeds, feeding, grafting rates, and .the selection of each of them Exercises for skimming -2 straight and tilted surfaces at .different angles 3- Exercises for making internal and external channels of various shapes.		

Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Available in the free section and library of the .٣٩ institute. Available in the free section and library of the .٤٠ institute.
Special requirements (include for example workshops, periodicals, IT software, websites)	
Community-based facilities (Include for example, guest Lectures, internship, field studies)	

	13. Admissions
Pre-requisites	
Minimum number of students	40
Maximum number of students	100

1. Teaching Institution	Al Dour Technical Institute
2. University Department/Centre	Mechanical technical department
3. Course title/code	Workshop 4
4. Program(s) to which it contributes	Seminar, Website, Internet
5. Modes of Attendance offered	Curriculum
6. Semester/Year	Second year
7. Date of production/revision of this specification	1/9/2023
	8. Aims of the Course

9· Learning Outcomes, Teaching, Learning and Assessment Method
Knowledge and Understanding -R
A1. The practical work on the turning and milling , grinding drilling machines .
A2.duties to implement on the turning machine
A3.define the cutting cutter and metal preparing to work
A4.
B. Subject-specific skills
B1. Capability to manage projects
B2. The ability to solve problems on the job site and solve crises in this field
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer
training))
Annual weather de
Assessment methods
Outproces Middenness areas And Storal areas
Quizzes; Midterm exam. And final exam.
C. Thinking Chille
C. Thinking Skills
Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism

C3.the best usage of all available tools to get modern progress
C4. Merge in universal and local education to put the suitable solutions for problems.
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer
training))
Assessment methods
Quizzes; Midterm exam. And final exam.

D2. Raise their research perceptions and move the student from education to learning

D1. Improve their debating skills

D3.

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	*	Knowledge and Experimental application	(Lathing (5 weeks Decentralized turning and -1 turning using the quadrilateral eyelet and the methods of .fixing the special works 2- Exercises on various decentralized artifacts.	Power point, Lecture	Tests and reports
2	۲	Knowledge and Experimental application	 Lathing of external and internal rotations and molding lathing Exercises for various turning operations with the use of shaping pens. 	Power point, Lecture	Tests and reports
3	۲	Knowledge and Experimental application	:Tower lathes General idea of tower -1 lathes and the use of speed .and feeding tables 2- Follow up the operations of different products and prepare the sequence of their operations.	Power point, Lecture	Tests and reports
4	۲	Knowledge and Experimental application	The pens, the number -1 used, the method of controlling them, and the preparation for making .various artifacts 2- How to prepare process tracking maps.	Power point, Lecture	Tests and reports
5	۲	Knowledge and Experimental application	:Lathe maintenance Dismantling and -1 maintaining the triple and .quadruple samples	Power point, Lecture	Tests and reports

			Dismantling the moving -2 crow and performing .maintenance		
			Dismantling the small and -3		
			large plotter and conducting		
			.its maintenance		
			4- Maintaining the main		
			cutting speed box and		
			calculating the feeding speed.		
			Machines programd using G-	Power point,	
			Code	Lecture	
			A brief history of CNC -1		
			machines, the differences		
			between ordinary machines		
		Knowledge and	and CNC machines, and the		
6	۲	Experimental	stages of work on the		Tests and
		application	.programd machines		reports
			2 Defining the newtoof the		
			2- Defining the parts of the		
			machine, the axes of movement, the control panel,		
			defining and operating the		
			machine in practice.		
			Program, program -1	Power point,	
			structure, how to program	Lecture	
			milling machines, functions		
			used in programd machines,		
			machine zero-point, .movement levels functions		
			.movement levels functions		
			G17, G18, G19) Movement)		
		Knowledge and	coordinate functions (G90,		Tests and
7	۲	Experimental	.(G91		reports
		application	Simulation using simulation -2		. 660.00
			programs, how to use the		
			program, instructions for the		
			.program		
			2. The control repol of the		
			3- The control panel of the		
			CNC machine according to the ISO9001 system, carrying out		
			movements by the manual		
			movements by the manual		

			control device, the machine		
			zeroing, the triangle machine		
			zeroing, the zeroing of the		
			work piece, methods of fixing		
			the work piece.		
			Linear motion functions -1 (G1, G2), zero segment point	Power point, Lecture	
			storage functions (reference (points	3333.5	
			G52, G53, G54, G55, G56, ,°1)		
			G57, G58, G59), auxiliary functions F, M, S, T		
8	2	Knowledge and	Implementing a face -2 milling program using the		Tests and
0	2	Experimental	above instructions and		reports
		application	applying it to the calculator		
			using simulation programs and		
			practically implementing it on		
			.the machine		
			3- G2, G3 rotary motion		
			functions, repetition function,		
			mirror image formation		
			function.		
			Create a program to -1	Power point,	
			implement a circular cut	Lecture	
			(quarter circle, half circle, full		
			circle) and apply it to the		
			calculator using simulation		
			programs and implement it		
			.practically on the machine		
		Knowledge and	Radius compensation - ۲		Tests and
9	2	Experimental	functions (calibration		reports
		application	functions) G40, G41, G42,		. 550. 63
			G43, G44		
			Creating a program to -		
			carry out two exercises, one of		
			which is prominent and the		
			other is drilling, and applying		
			it to the calculator using		
			simulation programs, and		

			implementing it on the machine using the above		
			functions.		
			Fixed functions, single\	Power point,	
		stage perforation function,	Lecture		
			phase perforating function,		
			dental operation function,		
		hole expansion function, threaded loop function,			
			longitudinal slit operating		
			function, circular drilling		
			operation function.		
		W lada a ad	Implementing a program -		
10	2	Knowledge and	using the previous functions		Tests and
10	2	Experimental application	and applying it to the		reports
		аррисации	calculator using simulation programs and implementing it		
			on the machine.		
			Maintenance of the -		
			machine How to replace the		
			spare parts, check the		
			lubrication system in the		
			machine and lubricate the		
			spindle, check the cooling system and replace the		
			.coolant		
			Teestant		
			Vocabulary of the programd	Power point,	
			machine workshop that	Lecture	
			operates with the CAD-CAM		
			system		
			Introducing students to the -1		
		Knowledge and	programd machines, their		
11	2	Experimental	accessories, and the attached		Tests and
	_	application	.programs		reports
			Identify the parts of the -2		
			programd lathing machine.		
			Control panel keys and the		
			function of each of them, the		
			number of pieces, the		
			.machine axes		

			3- Using the CAD-CAM		
			program to design an		
			engineering product and		
			implement the product on the		
			simulation calculator.		
			Learn how to infer the	Power point,	
			damaged number or define a	Lecture	
			.new kit		
			Implementation of an		
		Knowledge and	integrated product on the		
12	2	Experimental	machine, starting from the		Tests and
		application	design stage on the CAD/CAM		reports
			program, through the		
			simulation process, and		
			ending with the		
			implementation of the		
			.product on the machine		
			Learning about the parts of -1	Power point,	
			the programd milling machine:	Lecture	
			the control panel keys and		
			their function, the number of		
		Knowledge and	.pieces, the machine axes		Tests and
13	2	Experimental	2 11 2 11 2 6 2 7 6 2 2 4		reports
		application	2- Using the CAD / CAM		
			program to design an		
			engineering product and		
			implement the product on the simulation calculator.		
			Silliulation Calculator.		
			Know how to replace the -1	Power point,	
			damaged number or define a	Lecture	
			.new number		
			2- Implementation of an		
		Knowledge and	integrated product on the		
14	2	Experimental	machine, starting from the		Tests and
14	2	application	design stage on the CAD/CAM		reports
		аррпсации	program, passing through the		
			simulation process, and		
			ending with the		
			implementation of the		
			product on the machine.		

15 2 Experimental application	Executing many exercises on turning and milling machines	Power point, Lecture	Tests and reports
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	12. Infrastructure
Required reading:	Available in the free section and library of the . 5 \
· CORE TEXTS	institute.
· COURSE MATERIALS	Available in the free section and library of the . 5 Y
· OTHER	institute.
Special requirements (include for example workshops, periodicals, IT software, websites)	
Community-based facilities	
(Include for example, guest	
Lectures, internship, field studies)	

	13. Admissions
Pre-requisites	
Minimum number of students	40
Maximum number of students	100

TEMPLATE	FOR CO	URSE SPE	ECIFICATION
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HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAM REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the program specification.

Al Dour Technical Institute	1. Teaching Institution
Mechanical technical department	2. University Department/Centre
Project	3. Course title/code

4. Program(s) to which it contributes	Seminar, Website, Internet	
5. Modes of Attendance offered	Curriculum	
6. Semester/Year	Second level	
7. Date of production/revision of this specification	1/9/2023	
8. Aims of the Course		

9. Learning Outcomes, Teaching, Learning and Assessment Method

Knowledge and Understanding -S

A1. Implementing the students to the production projects and training them at team work in implementing the projects

A2.train them to implement the theoretical studies

A3.

A4.

B. Subject-specific skills

B1. Capability to manage projects

B2. The ability to solve problems on the job site and solve crises in this field

Teaching and Learning Methods

Power point, Seminar, Discussion, Lecture, Test

((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))

Assessment methods

Quizzes; Midterm exam. And final exam.
C. Thinking Skills
Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism
C3.the best usage of all available tools to get modern progress
C4. Merge in universal and local education to put the suitable solutions for problems.
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test ((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
Quizzes; Midterm exam. And final exam.

D1. Improve their debating skills

D2. Raise their research perceptions and move the student from education to learning

D3.

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	Knowledge and Experimental application	Discuss the projects that are tested and determine the method and plan of action.	Theoretical lecture	Tests and reports
2	2	Knowledge and Experimental application	Defining and allocating responsibilities and setting a schedule for implementing the project.	Theoretical lecture	Tests and reports
3	2	Knowledge and Experimental application	Preparing drawings and operating cards for the various mechanics laboratories of the project parts.	Power point, Lecture	Tests and reports
4	2	Knowledge and Experimental application	Implementation of the project in the laboratories units and preparing reports for the stages that have been reached with the weekly follow-up of the workflow of production rates and operating obstacles.	Power point, Lecture	Tests and reports
5-6	2	Knowledge and Experimental application	Discussing students with a committee and evaluating implementation plans for the better (and it is considered evaluated at the end of the first semester).	Power point, Lecture	Tests and reports
7-8	2	Knowledge and Experimental application	Resumption of the implementation of the project paragraphs and completion of the practical side	Power point, Lecture	Tests and reports
9-10- 11	2	Knowledge and Experimental application	Discussing the project details and directing students to prepare the final report (the second semester evaluation is considered).	Power point, Lecture	Tests and reports

12-13	2	Knowledge and Experimental application	Completion of the project, with both theoretical and practical aspects, and preparation for final discussion	Power point, Lecture	Tests and reports
14-15	2	Knowledge and Experimental application	Final discussion of the project	Power point, Lecture	Tests and reports

	12. Infrastructure
Required reading:	Available in the free section and library of the ٤٣
· CORE TEXTS	institute.
· COURSE MATERIALS	Available in the free section and library of the . ٤٤ institute.
· OTHER	
Special requirements (include for example workshops, periodicals, IT software,	
websites)	
Community-based facilities	
(Include for example, guest	
Lectures, internship, field studies)	

	13. Admissions
Pre-requisites	
Minimum number of students	40
Maximum number of students	100

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAM REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the program specification.

1. Teaching Institution	Al Dour Technical Institute
2. University Department/Centre	Mechanical technical department
3. Course title/code	Drawing of mechanical fasteners
4. Program(s) to which it contributes	Seminar, Website, Internet
5. Modes of Attendance offered	Curriculum
6. Semester/Year	Second level
7. Date of production/revision of this specification	1/9/2023
	8. Aims of the Course

9· Learning Outcomes, Teaching, Learning and Assessment Method
Knowledge and Understanding -T
A1. Introducing the students of the importance of engineering drawings for the mechanical applications
A2.eplaine the symbols and orders of AOUTO CAD
A3.
A4.
B. Subject-specific skills
B1. Capability to manage projects
B2. The ability to solve problems on the job site and solve crises in this field
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
Quizzes; Midterm exam. And final exam.
C. Thinking Skills
Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism
C3.the best usage of all available tools to get modern progress

C4. Merge in universal and local ed	ducation to put the suitable solutions for problems.
	Teaching and Learning Methods
	Power point, Seminar, Discussion, Lecture, Test
//Theoretical lectures / practical lectures / workshe	op / example solution / graduation project / summer
((Theoretical fectures) practical fectures / worksho	training))
	Assessment methods
	Quizzes; Midterm exam. And final exam.
D. General and Transferable Skills (other skills rele	evant to employability and personal development)
	D1. Improve their debating skills
D2. Raise their research perception	ns and move the student from education to learning
	D3.
	D4.
1. Teaching Institution	Al Dour Technical Insti

2. University Department/Centre	Mechanical technical department
3. Course title/code	Gears Drawing
4. Program(s) to which it contributes	Seminar, Website, Internet
5. Modes of Attendance offered	Curriculum
6. Semester/Year	Second level
7. Date of production/revision of this specification	1/9/2023
	8. Aims of the Course

9- Learning Outcomes, Teaching, Learning and Assessment iv	ietnoa
Knowledge and Understanding	-U

 ${\bf A1.}\ Introducing\ the\ students\ of\ the\ importance\ of\ engineering\ drawings\ for\ the\ mechanical\ applications$

A2.eplaine the symbols and orders of AOUTO CAD

A3.

A4.

B. Subject-specific skills

B1. Capability to manage projects

B2. The ability to solve problems on the job site and solve crises in this field

Teaching and Learning Methods

Power point, Seminar, Discussion, Lecture, Test

((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))

Assessment methods

Quizzes; Midterm exam. And final exam.
C. Thinking Skills
Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism
C3.the best usage of all available tools to get modern progress
C4. Merge in universal and local education to put the suitable solutions for problems.
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test ((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
Quizzes; Midterm exam. And final exam.

D1. Improve their debating skills

D2. Raise their research perceptions and move the student from education to learning

D3.

				Teaching	Assessment
Week	Hours	ILOs	Unit/Module or Topic Title	Method	Method
	2		Pulleys and belts, their types	Power point,	
		Knowledge and	and uses, with two paintings	Lecture	Tests and
1-2		Experimental	drawn to assemble parts that		reports
		application	contain different types of belt wheels.		
			wheels.		
	2	Knowledge and	Gears, types, adjustable gears,	Power point,	
3-4		Experimental	basic definitions, drawing of a	Lecture	Tests and
3 1		application	fair gear with an assembly		reports
		•	plate to engage a fair gear.		
	2	Knowledge and	The bevel gears, with an	Power point,	Tests and
5		Experimental	assembly drawing of the bevel	Lecture	reports
		application	gear interlock.		100010
	2	Knowledge and	Introduction to Autodesk	Power point,	Tests and
6-7		Experimental	Inventor	Lecture	reports
		application	inventor		100010
	2	Knowledge and		Power point,	Tests and
8-9		Experimental	2D drawing environment	Lecture	reports
		application			
		Knowledge and		Power point,	Tests and
10-11	2	Experimental	Collection environment	Lecture	reports
		application			·
		Knowledge and	Dynamic and motion analysis	Power point,	Tests and
12-13	2	Experimental	environment	Lecture	reports
		application			·
		Knowledge and		Power point,	Tests and
14	2	Experimental	Additions to fees	Lecture	reports
		application			
		Knowledge and	A project with the	Power point,	
15	2	Experimental	competence of the concerned	Lecture	Tests and
		application	department for a part of any		reports
			operational system.		

	12. Infrastructure
Required reading:	Available in the free section and library of the .50
· CORE TEXTS	institute.
· COURSE MATERIALS	Available in the free section and library of the . ٤٦ institute.
· OTHER	
Special requirements (include for example workshops, periodicals, IT software,	
websites)	
Community-based facilities	
(Include for example, guest	
Lectures, internship, field studies)	

	13. Admissions
Pre-requisites	
Minimum number of students	40
Maximum number of students	100

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	Knowledge and Experimental application	A general review of first grade topics, geometric lines, projections, sections, and dimensioning using AutoCAD.	Theoretical lecture	Tests and reports
2-3	2	Knowledge and Experimental application	Methods for fastening using screw, types of nuts, with painting.	Theoretical lecture	Tests and reports
4-5	2	Knowledge and Experimental application	Connecting by switches, types, uses, drawing of an assembly plate.	Power point, Lecture	Tests and reports
6-7	2	Knowledge and Experimental application	Welding splicing, welding symbols, assembly plate drawing with welding symbols.	Power point, Lecture	Tests and reports
8-9	2	Knowledge and Experimental application	Rivet fastening, shapes of rivets, types of rivet fastening, assembly plate drawing.	Power point, Lecture	Tests and reports
10	2	Knowledge and Experimental application	Applied panel for mechanical hoist splitting and assembly.	Power point, Lecture	Tests and reports
11	2	Knowledge and Experimental application	Springs, types, uses, drawing of a compression spring.	Power point, Lecture	Tests and reports
12	2	Knowledge and Experimental application	Drawing application plate for exhaust valve segmentation and assembly.	Power point, Lecture	Tests and reports
13	2	Knowledge and Experimental application	Column connections (couplings) of all kinds, drawing an applied panel.	Power point, Lecture	Tests and reports
14	2	Knowledge and Experimental application	Clutches, their types and uses, with an application drawing.	Power point, Lecture	Tests and reports

15	2	Knowledge and Experimental	Bearings, drawing of an assembly plate for a friction	Power point, Lecture	Tests and reports
		application	bearing chair.		

	12. Infrastructure
Required reading:	Available in the free section and library of the . ' V
· CORE TEXTS	institute.
· COURSE MATERIALS	Available in the free section and library of the ٤٠٠ institute.
· OTHER	
Special requirements (include for example workshops, periodicals, IT software,	
websites)	
Community-based facilities	
(Include for example, guest	
Lectures, internship, field studies)	

	13. Admissions
Pre-requisites	
Minimum number of students	40
Maximum number of students	100

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAM REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the program specification.

1. Teaching Institution	Al Dour Technical Institute
2. University Department/Centre	Mechanical technical department
3. Course title/code	Principles of occupational safety
4. Program(s) to which it contributes	Seminar, Website, Internet
5. Modes of Attendance offered	Compulsory
6. Semester/Year	Second level
7. Date of production/revision of this specification	1/9/2023
	8. Aims of the Course

9. Learning Outcomes, Teaching, Learning and Assessment Method

Knowledge and Understanding -V

A1. Study the engineering properties of materials and amorphous and identify the mechanical properties of metals and alloys.

A2.

A3.

A4.
B. Subject-specific skills
B1. Capability to manage projects
B2. The ability to solve problems on the job site and solve crises in this field
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
truming))
Assessment methods
Quizzes; Midterm exam. And final exam.
C. Thinking Skills
Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism
C3.the best usage of all available tools to get modern progress
C4. Merge in universal and local education to put the suitable solutions for problems.
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test

((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
Quizzes; Midterm exam. And final exam.
D. General and Transferable Skills (other skills relevant to employability and personal development)
D1. Improve their debating skills
D2. Raise their research perceptions and move the student from education to learning
D3.

	11. Course Structure				
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1	Knowledge and Experimental application	Management: management and its development, stages of management development, basic principles of management, characteristics of management, levels of management.	Theoretical lecture	Tests and reports
2	1	Knowledge and Experimental application	Administration: administrative functions, industrial management, its functions, industrial engineering, characteristics of industrial management.	Theoretical lecture	Tests and reports
3	1	Knowledge and Experimental application	Industrial unit arrangement The location and arrangement of the industrial unit The main factors affecting - the selection of industrial .project sites The arrangement of the - industrial unit (the initial .(arrangement of the factory Classification of the types of .industrial unit arrangements - Advantages and limitations and the cases in which it is applied (commodity, functional, mixed, joint arrangement).	Power point, Lecture	Tests and reports
4	1	Knowledge and Experimental application	Feasibility study for industrial :projects An idea for a feasibility study .for industrial projects	Power point, Lecture	Tests and reports

			Industrial project		
			Stages of feasibility studies		
			The importance of feasibility		
			studies.		
	1		:Production planning	Power point,	
		Kanada dan and	Production planning, the	Lecture	
5		Knowledge and Experimental	concept of production		Tests and
		application	planning, objectives of		reports
			production planning and		
			control		
	1		:Production planning	Power point,	
		Knowledge and	Types of production,	Lecture	
6		Experimental	production planning methods,		Tests and
		application	linear programming methods,		reports
			graphic method and transfer method.		
			metriou.		
7	1	Knowledge and Experimental	Discussing progress reports by	Power point, Lecture	Tests and
,		application	students with a test.	Lecture	reports
	1	·			
	1	Knowledge and	:Study work and standard time	Power point, Lecture	
8		Experimental	Work study, work study	2000010	Tests and reports
		application	methods, method study, time		reports
			study, work measurement.		
	1	Knowledge and	:Maintenance	Power point,	
9		Experimental	Maintenance, the importance	Lecture	Tests and
		application	of maintenance, the concept		reports
			of the technological system		
	1	Knowledge and	:Maintenance	Power point,	Tests and
10		Experimental	Types of maintenance	Lecture	reports
		application	Types of maintenance		
	1	Knowledge and	:Training	Power point,	
11		Knowledge and Experimental	Training, training concept,	Lecture	Tests and
		application	importance of training,		reports
			training methods.		

12	1	Knowledge and Experimental application	:Industrial costs and wages Costs, classification of costs, wages.	Power point, Lecture	Tests and reports
13	1	Knowledge and Experimental application	:Industrial costs and wages Wage's calculation methods, incentives, types of incentives	Power point, Lecture	Tests and reports
14	1	Knowledge and Experimental application	:purchase management Purchases, procurement steps, inventory, types of stored materials and methods of controlling them.	Power point, Lecture	Tests and reports
15	1	Knowledge and Experimental application	Industrial safety Industrial safety, accident, types of accidents, road accidents, protective equipment, and their types.	Power point, Lecture	Tests and reports

	12. Infrastructure
Required reading:	Available in the free section and library of the . ٤٩
- CORE TEXTS	institute.
· COURSE MATERIALS	Available in the free section and library of the institute.
· OTHER	
Special requirements (include for example workshops, periodicals, IT software,	
websites)	
Community-based facilities	
(Include for example, guest	
Lectures, internship, field studies)	

Pre-requisites	
Minimum number of students	40
Maximum number of students	100

1. Teaching Institution	Al Dour Technical Institute	
2. University Department/Centre	Mechanical technical department	
3. Course title/code	Industrial management	
4. Program(s) to which it contributes	Seminar, Website, Internet	
5. Modes of Attendance offered	Curriculum	
6. Semester/Year	Second level	
7. Date of production/revision of this specification	1/9/2023	
8. Aims of the Course		

9. Learning Outcomes, Teaching, Learning and Assessment Method

Knowledge and Understanding -W

A1. The meaning of discipline, the meaning of quality

A2. Definition of quality, quality specifications, factors controlling quality, development and improvement of quality, design, quality of conformity, international and Iraqi standards A3.

A4.

B. Subject-specific skills

B1. Capability to manage projects

B2. The ability to solve problems on the job site and solve crises in this field

Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer
training))
Account weath and
Assessment methods
Quizzos Midtorm ovom And final ovom
Quizzes; Midterm exam. And final exam.
C Thinking Chille
C. Thinking Skills
Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism
C3.the best usage of all available tools to get modern progress
C4. Merge in universal and local education to put the suitable solutions for problems.
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
A 13CC35.HEIR MECHOUS
Quizzes; Midterm exam. And final exam.
Quizzes, Wildtern Caun. And Illia Exam.

D. General and Transferable Skills (other skills relevant to employability and personal development)
D1. Improve their debating skills
D2. Raise their research perceptions and move the student from education to learning
D3.
D4.

				Tanakin	
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching	Assessment Method
				Method	Wicthou
	1	Knowledge and	:Quality Control	Power point,	Tosts and
1		Experimental	The meaning of discipline, the	Lecture	Tests and reports
		application	meaning of quality.		·
	1		:Quality Control	Power point,	
			Definition of quality, quality	Lecture	
		Kanada dan sad	specifications, factors		
2		Knowledge and Experimental	controlling quality, development and		Tests and
		application	improvement of quality,		reports
			design, quality of conformity,		
			international and Iraqi standards		
	1		Quality control methods and :sample inspection plans	Power point, Lecture	
		Knowledge and		Lecture	
3		Experimental	Quality control methods, inspection and inspection		Tests and
		application	methods, quality control		reports
			steps, sampling methods,		
			sample inspection schedule.		
	1		Quality control methods and	Power point,	
		Knowledge and	:sample inspection plans	Lecture	Tests and
4		Experimental application	Operating characteristic curve,		reports
	аррисация	THE STATE	design quality, data collection (types and analysis)		
	1	Knowledge and	, ,	Power point,	
5	1	Experimental	Control schemes	Lecture	Tests and
		application			reports
	1	Knowledge and	:Control Charts	Power point,	
6		Experimental	Center outline preparation	Lecture	Tests and reports
		application	.and use		Терогіз

			Pareto chart preparation and use.		
			use.		
7	1	Knowledge and Experimental application	:Control Charts Prepare a chart with standard deviation Defect diagram preparation	Power point, Lecture	Tests and reports
8	1	Knowledge and Experimental application	:Control Charts Scatter diagram. A method for preparing a scatter plot.	Power point, Lecture	Tests and reports
9	1	Knowledge and Experimental application	:Control Charts Quality control charts for standard deviation and .percentage of defective units (Histogram (set it up and used	Power point, Lecture	Tests and reports
10	1	Knowledge and Experimental application	:Types of control schemes Control charts for variables (X- (chart	Power point, Lecture	Tests and reports
11	1	Knowledge and Experimental application	:Types of control schemes Control charts for variables (R- range control chart and- standard deviation control chart).	Power point, Lecture	Tests and reports
12	1	Knowledge and Experimental application	:Types of control schemes Features Control Charts (P(chart	Power point, Lecture	Tests and reports
13	1	Knowledge and Experimental application	:Types of control schemes Features control charts (Control chart the number of defects in a single singular C-Chart).	Power point, Lecture	Tests and reports

14	1	Knowledge and Experimental application	:Types of control schemes Characteristics control charts (control chart for the average number of defects in the U- chart vocabulary).	Power point, Lecture	Tests and reports
15	1	Knowledge and Experimental application	Discussing progress reports by students with a test.	Power point, Lecture	Tests and reports

	12. Infrastructure
Required reading:	Available in the free section and library of the .on
· CORE TEXTS	institute.
· COURSE MATERIALS	Available in the free section and library of the .o۲
· OTHER	institute.
Special requirements (include for example	
workshops, periodicals, IT software, websites)	
Community-based facilities	
(Include for example, guest	
Lectures, internship, field studies)	

	13. Admissions
Pre-requisites	
Minimum number of students	40
Maximum number of students	100

	TEMPLATE FOR COURSE SPECIFICATION
HIGHER EDUCA	ATION PERFORMANCE REVIEW: PROGRAM REVIEW
	COURSE SPECIFICATION
This Course Specification provides a concise summary outcomes that a typical student might reasonably be takes full advantage of the learning opportunities the	be expected to achieve and demonstrate if he/she
1. Teaching Institution	Al Dour Technical Institute

Mechanical technical department	2. University Department/Centre
Computer	3. Course title/code
Seminar, Website, Internet	4. Program(s) to which it contributes
Curriculum	5. Modes of Attendance offered
Second level	6. Semester/Year
1/9/2023	7. Date of production/revision of this specification
8. Aims of the Course	

9. Learning Outcomes,	Teaching Lea	rning and Assassm	ant Mathad
3. Learning Outcomes,	reaciiiig, Lea	i illing and Assessin	ent ivietnou

Knowledge and Understanding -X

A1. Study the main parts of computer

A2.how to use the computer and programs

A3.the office programs excel word...etc

A4.

B. Subject-specific skills

B1. Capability to manage projects

B2. The ability to solve problems on the job site and solve crises in this field

Teaching and Learning Methods

Power point, Seminar, Discussion, Lecture, Test

((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))

Assessment methods
Quizzes; Midterm exam. And final exam.
C. Thinking Skills
Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism
C3.the best usage of all available tools to get modern progress
C4. Merge in universal and local education to put the suitable solutions for problems.
Teaching and Learning Methods
reacting and Learning Wethous
Power point, Seminar, Discussion, Lecture, Test
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer
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((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
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((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training)) Assessment methods
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((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training)) Assessment methods

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

D1. Improve their debating skills

D2. Raise their research perceptions and move the student from education to learning

D3.

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	Knowledge and Experimental application	Introduction to the AutoCAD ,program Screen settings (Snap, Limit, Grid, Pan, Zoom,)	Theoretical lecture	Tests and reports
2-3-4	2	Knowledge and Experimental application	Draw List.	Theoretical lecture	Tests and reports
5-6	2	Knowledge and Experimental application	Modify list	Power point, Lecture	Tests and reports
7	2	Knowledge and Experimental application	Object Snap menu	Power point, Lecture	Tests and reports
8	2	Knowledge and Experimental application	Layers	Power point, Lecture	Tests and reports
9	2	Knowledge and Experimental application	Dimensions	Power point, Lecture	Tests and reports
10	2	Knowledge and Experimental application	Writing, Hatching	Power point, Lecture	Tests and reports
11	2	Knowledge and Experimental application	Store files and import and export files from other programs.	Power point, Lecture	Tests and reports
12	2	Knowledge and Experimental application	Making (Blocks) and importing parts from other programs such as: Dividing an element with equal distances (Divide), distributing elements along a path (Measure).	Power point, Lecture	Tests and reports

13-14	2	Knowledge and Experimental application	Drawing applications on the computer according to the specialization of the department.	Power point, Lecture	Tests and reports
15	2	Knowledge and Experimental application	Printing, cloning and output files to the plotter printer.	Power point, Lecture	Tests and reports

	12. Infrastructure
Required reading:	Available in the free section and library of the عام.
· CORE TEXTS	institute.
· COURSE MATERIALS	Available in the free section and library of the .of
· OTHER	institute.
Special requirements (include for example	
workshops, periodicals, IT software, websites)	
Community-based facilities	
(Include for example, guest	
Lectures, internship, field studies)	

	13. Admissions
Pre-requisites	
Minimum number of students	40
Maximum number of students	100

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAM REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the program specification.

Al Dour Technical Institute	1. Teaching Institution	
Mechanical technical department	2. University Department/Centre	
Arabic Language	3. Course title/code	
Seminar, Website, Internet	4. Program(s) to which it contributes	
Curriculum	5. Modes of Attendance offered	
Second level	6. Semester/Year	
1/9/2023	7. Date of production/revision of this specification	
8. Aims of the Course		

9- Learning Outcomes, Teaching, Learning and Assessment Method

Knowledge and Understanding -Y		
A1. Study the basic of Arabic language		
A3.parts of speech		
A4. Defining the sentence and the types of Arabic grammars		
B. Subject-specific skills		
B1. Capability to manage projects		
B2. The ability to solve problems on the job site and solve crises in this field		
Teaching and Learning Methods		
Power point, Seminar, Discussion, Lecture, Test		
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer		
training))		
Assessment methods		
Quizzes; Midterm exam. And final exam.		
C. Thinking Skills		
Carry out his duties on the job site with professional motives.		
C2.ability to enhance and advance the information's in the specialism		
C3.the best usage of all available tools to get modern progress		
C4. Merge in universal and local education to put the suitable solutions for problems.		
Teaching and Learning Methods		
Power point, Seminar, Discussion, Lecture, Test		

((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer training))
Assessment methods
Quizzes; Midterm exam. And final exam.
D. General and Transferable Skills (other skills relevant to employability and personal development)
D1. Improve their debating skills
D2. Raise their research perceptions and move the student from education to learning
D3.

11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	Knowledge and Experimental application	Debutant and khabbar	Theoretical lecture	Tests and reports
2	2	Knowledge and Experimental application	Subject and participial and lobject	Theoretical lecture	Tests and reports
3	2	Knowledge and Experimental application	pronouns	Power point, Lecture	Tests and reports
4-5	2	Knowledge and Experimental application	Pronouns and voiced symbols origin and subtype	Power point, Lecture	Tests and reports
6-7	2	Knowledge and Experimental application	The five subjects	Power point, Lecture	Tests and reports
8-9	2	Knowledge and Experimental application	Flex letters and meanings	Power point, Lecture	Tests and reports
10	2	Knowledge and Experimental application	carving and hyphenate goad	Power point, Lecture	Tests and reports
11	2	Knowledge and Experimental application	The excess letters	Power point, Lecture	Tests and reports
12	2	Knowledge and Experimental application	Noon and tanween	Power point, Lecture	Tests and reports
13	2	Knowledge and Experimental application	Administration speech	Power point, Lecture	Tests and reports
14-15	2	Knowledge and Experimental application	The most famous linguistic mistakes	Power point, Lecture	Tests and reports

	12. Infrastructure
Required reading: · CORE TEXTS	Available in the free section and library of the .oo institute.
· COURSE MATERIALS	Available in the free section and library of the .०٦ institute.

· OTHER	
Special requirements (include for example workshops, periodicals, IT software, websites)	
Community-based facilities (Include for example, guest Lectures, internship, field studies)	

	13. Admissions
Pre-requisites	
Minimum number of students	40
Maximum number of students	100

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the program specification.

1. Teaching Institution	Al Dour Technical Institute
2. University Department/Centre	Mechanical technical department
3. Course title/code	Materials properties
4. Program(s) to which it contributes	Seminar, Website, Internet

5. Modes of Attendance offered	Curriculum		
6. Semester/Year	First year		
7. Date of production/revision of this specification	1/9/2023		
8. Aims of the Course			
Study the engineering properties of materials and amorphous and identify the mechanical properties of metals and alloys.			

Quizzes; Midterm exam. And final exam.
C. Thinking Skills
C1Carry out his duties on the job site with professional motives.
C2.ability to enhance and advance the information's in the specialism
C3.the best usage of all available tools to get modern progress
C4. Merge in universal and local education to put the suitable solutions for problems. Carry out his duties
on the job site with professional motives.
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer
training))
Assessment methods
Quizzes; Midterm exam. And final exam.
Quizzes, Wilderini exami.
D. General and Transferable Skills (other skills relevant to employability and personal development)
D1. Improve their debating skills
DI. Improve their debating skills

D2. Raise their research perceptions and move the student from education to learning

D3.

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching	Assessment
				Method	Method
		Knowledge and		Theoretical	Tests and
1	2	Experimental application	Introduction	lecture	reports
		·			
2	2	Knowledge and Experimental	The atom, the element, types of bonds in engineering	Theoretical	Tests and
		application	materials.	lecture	reports
	2	Knowledge and	Crystalline and amorphous	Power point,	Tests and
3		Experimental application	materials	Lecture	reports
	_	·		_	
4	2	Knowledge and Experimental	Crystalline forms (H.C.P)	Power point, Lecture	Tests and
		application	(F.C.C) (B.C.C).		reports
	2		Mechanical properties of	Power point,	
5		Knowledge and Experimental	.materials	Lecture	Tests and
5		application	(Stress, strain-strain-strain-		reports
			flexion, ductility, collapse).		
	2	Knowledge and		Power point,	Tests and
6		Experimental application	Hardness, hardness test.	Lecture	reports
	2	Knowledge and		Power point,	
7	_	Experimental	Supplement.	Lecture	Tests and reports
		application			Терогіз
	2	Knowledge and		Power point,	Tests and
8		Experimental application	Toughness, toughness test	Lecture	reports
	2		Thermal properties of	Power point,	
	2	Knowledge and	.materials	Lecture	Tests and
9		Experimental application	(Thermal expansion, thermal		reports
		аррпсацоп	conductivity)		

10	2	Knowledge and Experimental application	Electrical properties of materials (ionic materials, insulating materials, metallic materials, factors affecting conductivity).	Power point, Lecture	Tests and reports
11	2	Knowledge and Experimental application	Magnetic properties of materials (Ferromagnetic materials, paramagnetic materials, diamagnetic materials, magnetic retardation, factors affecting magnetism).	Power point, Lecture	Tests and reports
12	2	Knowledge and Experimental application	Chemical properties of materials (Corrosion, electrochemical chain, oxidation)	Power point, Lecture	Tests and reports
13	2	Knowledge and Experimental application	Iron, its most important material, its extraction, blast furnace, and transformers.	Power point, Lecture	Tests and reports
14	2	Knowledge and Experimental application	Carbon steel, its most important types, properties, and uses.	Power point, Lecture	Tests and reports
15	2	Knowledge and Experimental application	Alloy steel, its most important types, properties, and uses	Power point, Lecture	Tests and reports

Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Available in the free section and library of the one institute. Available in the free section and library of the one institute.
Special requirements (include for example workshops, periodicals, IT software, websites)	
Community-based facilities (Include for example, guest Lectures, internship, field studies)	

	13. Admissions
Pre-requisites	
Minimum number of students	40
Maximum number of students	100

1. Teaching Institution	Al Dour Technical Institute
2. University Department/Centre	Mechanical technical department
3. Course title/code	Baath Crimes in Iraq
4. Program(s) to which it contributes	Seminar, Website, Internet
5. Modes of Attendance offered	Curriculum
6. Semester/Year	second level
7. Date of production/revision of this specification	1/9/2023
	8. Aims of the Course

Study the engineering properties of materials and amorphous and identify the mechanical properties of metals and alloys.

9- Learning Outcomes, Teaching, Learning and Assessment Method
Knowledge and Understanding-AA
A1. Crimes in Iraq
A2.deffention of crimes
A3.parts of crimes
A4.
B. Subject-specific skills
B1. Capability to manage relationship
B2. The ability to solve problems on the job site and solve crises in this field
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer
training))
Assessment methods
Quizzes; Midterm exam. And final exam.
C. Thinking Skills
C1Carry out his duties on the job site with professional motives.

C2.ability to enhance and advance the information's in the specialism
C3.the best usage of all available tools to get modern progress
C4. Merge in universal and local education to put the suitable solutions for problems. Carry out his duties
on the job site with professional motives.
Teaching and Learning Methods
Power point, Seminar, Discussion, Lecture, Test
((Theoretical lectures / practical lectures / workshop / example solution / graduation project / summer
training))
Assessment methods
Assessment methods
Quizzes; Midterm exam. And final exam.
D. General and Transferable Skills (other skills relevant to employability and personal development)
D1. Improve their debating skills

D2. Raise their research perceptions and move the student from education to learning

D3.

11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1-2	2	Knowledge and Experimental application	Baath crimes as the Iraqi criminal court for 2005	Power point, Lecture	Tests and reports
3	2	Knowledge and Experimental application	parts of crimes	Power point, Lecture	Tests and reports
4	2	Knowledge and Experimental application	bathe crime according the high Iraqi criminal court law	Power point, Lecture	Tests and reports
5	2	Knowledge and Experimental application	decisions of high criminal court	Power point, Lecture	Tests and reports
6-7	2	Knowledge and Experimental application	physiological ,socially crimes and its effects	Power point, Lecture	Tests and reports
8-9	2	Knowledge and Experimental application	mechanisms of physiological socially crimes	Power point, Lecture	Tests and reports
10-11	2	Knowledge and Experimental application	militarized of society	Power point, Lecture	Tests and reports
12-13	2	Knowledge and Experimental application	environmental crimes for baath system	Power point, Lecture	Tests and reports
14-15	2	Knowledge and Experimental application	crimes of collective graves and the temporal classification	Power point, Lecture	Tests and reports

Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Available in the free section and library of the .oq institute. Available in the free section and library of the .institute.
Special requirements (include for example workshops, periodicals, IT software, websites)	
Community-based facilities (Include for example, guest Lectures, internship, field studies)	

	13. Admissions
Pre-requisites	
Minimum number of students	40
Maximum number of students	100