This academic program description provides a brief summary of the most important characteristics of the program and the learning outcomes expected of the student, proving whether he has made maximum use of the available opportunities. It is accompanied by a description of each course within the program

((Colleges and Institutes Academic Program Description Form)) University: Northern Technical University Faculty / Institute: - Technical Institute of Dour Scientific Department: - Medical laboratory techniques Date of filling out the file: 1/9/2021

Signature: -

Signature: - Habor A.

The name of the head of the department: -. Dr. Luay Manna Ibrahim The name of the scientific assistant: -Assist.Prof.Dr. Maqsood Adel Mahmoud

Check the file by

Quality Assurance and University Performance Division

Name of the director of the Quality Assurance and University Performance

Division: - Assist.Lec. Haider Ali Mohsen

Dating .- Vu

Signature:-

Assist.Prof.Dr. Maha Elttayef Jasim Dean's endorsement

1	Educational institution	Northern Technical University/Technical Institute of Dour	
2	Scientific Department / Center	Medical laboratory techniques	
3	Academic or professional program name	Laboratory techniques and quality control DIP11	
4	Final certificate name	Technical Diploma in Medical Laboratories	
5	Academic system: annual / courses / other	Annual	
6	Accredited Accreditation Program	World Federation of Medical Education (WFME)	
7	Other external influences	Practical training in state institutions, conferences and seminars	
8	The date the description	1/9/2021	
9	Educational institution	Northern Technical University/Technical Institute of Dour	
A- Cognitive goals			
A – 1	To identify the priorities of laboratory machines and equipment as well as to identify the principles of microbiology		
A – 2	To identify the principles of bacteriology and the principles of hematology		
A – 3	3 To identify the principles of urine analysis and the principles of quality control		
	B- The skills object	ctives of the program	
B – 1	The ability to work and integrate int	to multidisciplinary teams	
B – 2	The ability to design and conduct se	eminars as well as analyze and interpret data.	
B – 3	The ability to use modern technolog	gies, skills and specialized tools	
B -4	$\mathbf{B}-4$ The ability to identify and formulate medical problems in the field of specialization		
Teaching and learning methods ((Theoretical lectures / discussion and dialogue / practical lectures / field visits / seminars / laboratories / office activities / solving examples / graduation project / summer training)) Evaluation methods ((Oral exams/ Written exams/ Weekly reports/ Daily attendance/ Semester and final			
exams)) C - emotional and value goals			
C entoronar and tarde Source			

C – 1			
	specialization		
C – 2	Acknowledgment of the need and the ability to engage in lifelong learning		
C – 3	Knowledge of contemporary issues in the field of specialization		
C – 4	4 The broad learning necessary to understand the impact of solutions globally,		
	economic problems and the social environment		
Teachi	ng and learning methods		
((Theor	retical lectures / discussion and dialogue / practical lectures / field visits / seminars		
/ labora	atories / office activities / solving examples / graduation project / summer training))		
Evalua	tion methods		
((Oral	((Oral tests / written tests / observation / cumulative record of the student))		
D- Tra	D- Transferred general and rehabilitative skills (other skills related to employability and		
persona	personal development)		
D – 1	Improve their debating skills		
D – 2	Raising their research perceptions and transferring students from education to		
	learning		

0 Infrastructure	
Required course books	Available for free in the department and the institute's library
Key references (main)	Available for free in the department and the institute's library
Electronic references, websites	The internet

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Curriculum development plan

-Creating curricula that are appropriate to the labor market

-Holding scientific symposia and conferences aimed at updating the curricula

1	Educational institution	Northern Technical University/Technical Institute of Dour	
2	Scientific Department / Center	Medical laboratory techniques	
3	Academic or professional program name	Histological and cellular slides DIP12	
4	Final certificate name	Technical Diploma in Medical Laboratories	
5	Academic system: annual / courses / other	Annual	
6	Accredited Accreditation Program	World Federation of Medical Education (WFME)	
7	Other external influences	Practical training in state institutions, conferences and seminars	
8	The date the description	1/9/2021	
9	Educational institution	Northern Technical University/Technical Institute of Dour	
A- Cognitive goals			
A - 1	The student's ability to prepare fixed slides for different parts of the body		
A - 2	Fixation of dyes for tissue slides and body fluid smears		
A – 3	Preparing all chemical fluids needed and fixing and preserving the tissue sample		
	B- The skills objec	tives of the program	
B – 1	The ability to work and integrate into multidisciplinary teams		
B – 2	The ability to design and conduct seminars as well as analyze and interpret data.		
B - 3	The ability to use modern technologies, skills and specialized tools		
B-4 The ability to identify and formulate medical problems in the field of specialization			
Teaching and learning methods ((Theoretical lectures / discussion and dialogue / practical lectures / field visits / seminars / laboratories / office activities / solving examples / graduation project / summer training))			
Evaluation methods ((Oral exams/ Written exams/ Weekly reports/ Daily attendance/ Semester and final exams))			

	C - emotional and value goals		
C – 1	 The ability to communicate effectively with stakeholders in the field of specialization 		
C – 2	Acknowledgment of the need and the ability to engage in lifelong learning		
C – 3	Knowledge of contemporary issues in the field of specialization		
C - 4	2-4 The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment		
((Theor	Teaching and learning methods ((Theoretical lectures / discussion and dialogue / practical lectures / field visits / seminars / laboratories / office activities / solving examples / graduation project / summer training))		
Evaluation methods ((Oral tests / written tests / observation / cumulative record of the student))			
D- Transferred general and rehabilitative skills (other skills related to employability and personal development)			
D - 1	Improve their debating skills		
D – 2	Raising their research perceptions and transferring students from education to learning		

0 Infrastructure	
Required course books	Available for free in the department and the institute's library
Key references (main)	Available for free in the department and the institute's library
Electronic references, websites	The internet

-Holding scientific symposia and conferences aimed at updating the curricula

1	Educational institution	Northern Technical University/Technical Institute of Dour	
2	Scientific Department / Center	Medical laboratory techniques	
3	Academic or professional program name	Laboratory equipment DIP13	
4	Final certificate name	Technical Diploma in Medical Laboratories	
5	Academic system: annual / courses / other	Annual	
6	Accredited Accreditation Program	World Federation of Medical Education (WFME)	
7	Other external influences	Practical training in state institutions, conferences and seminars	
8	The date the description	1/9/2021	
9	Educational institution	Northern Technical University/Technical Institute of Dour	
A- Cognitive goals			
A - 1	Cover and understand all machines used in laboratories		
A - 2	Know the types of equipment which are used in technical laboratories		
A – 3	Knowledge of the working principle of each of the machines and their uses		
	B- The skills objec	tives of the program	
B – 1	The ability to work and integrate in	o multidisciplinary teams	
B – 2	The ability to design and conduct set	minars as well as analyze and interpret data.	
B - 3	The ability to use modern technologies, skills and specialized tools		
B - 4	B-4 The ability to identify and formulate medical problems in the field of specialization		
Teaching and learning methods ((Theoretical lectures / discussion and dialogue / practical lectures / field visits / seminars / laboratories / office activities / solving examples / graduation project / summer training)) Evaluation methods ((Oral exams/ Written exams/ Weekly reports/ Daily attendance/ Semester and final exams))			

	C - emotional and value goals		
C – 1	 The ability to communicate effectively with stakeholders in the field of specialization 		
C – 2	Acknowledgment of the need and the ability to engage in lifelong learning		
C – 3	Knowledge of contemporary issues in the field of specialization		
C - 4	2-4 The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment		
((Theor	Teaching and learning methods ((Theoretical lectures / discussion and dialogue / practical lectures / field visits / seminars / laboratories / office activities / solving examples / graduation project / summer training))		
((Oral t	Evaluation methods ((Oral tests / written tests / observation / cumulative record of the student))		
D- Transferred general and rehabilitative skills (other skills related to employability and personal development)			
D - 1	Improve their debating skills		
D – 2	Raising their research perceptions and transferring students from education to learning		

0 Infrastructure	
Required course books	Available for free in the department and the institute's library
Key references (main)	Available for free in the department and the institute's library
Electronic references, websites	The internet

-Holding scientific symposia and conferences aimed at updating the curricula

1	Educational institution	Northern Technical University/Technical Institute of Dour
2	Scientific Department / Center	Medical laboratory techniques
3	Academic or professional program name	DIP14. Blood Transfusion
4	Final certificate name	Technical Diploma in Medical Laboratories
5	Academic system: annual / courses / other	Courses
6	Accredited Accreditation Program	World Federation of Medical Education (WFME)
7	Other external influences	Practical training in state institutions, conferences and seminars
8	The date the description	1/9/2021
9	Educational institution	Northern Technical University/Technical Institute of Dour
	A- Cogn	itive goals
A - 1 Identify the work of the blood bank and the work of the different blood groups, and conducting tests of blood compatibility. Doing other blood bank checks		
	B- The skills objec	tives of the program
B – 1	The ability to work and integrate integrate	o multidisciplinary teams
B – 2	The ability to design and conduct set	minars as well as analyze and interpret data.
B - 3	The ability to use modern technologies, skills and specialized tools	
B-4 The ability to identify and formulate medical problems in the field of specialization		
Teaching and learning methods ((Theoretical lectures / discussion and dialogue / practical lectures / field visits / seminars / laboratories / office activities / solving examples / graduation project / summer training)) Evaluation methods ((Oral exams/ Written exams/ Weekly reports/ Daily attendance/ Semester and final exams))		

	C - emotional and value goals		
C – 1	 The ability to communicate effectively with stakeholders in the field of specialization 		
C – 2	Acknowledgment of the need and the ability to engage in lifelong learning		
C – 3	Knowledge of contemporary issues in the field of specialization		
C - 4	C-4 The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment		
((Theor	Teaching and learning methods ((Theoretical lectures / discussion and dialogue / practical lectures / field visits / seminars / laboratories / office activities / solving examples / graduation project / summer training))		
((Oral t	Evaluation methods ((Oral tests / written tests / observation / cumulative record of the student))		
D- Transferred general and rehabilitative skills (other skills related to employability and personal development)			
D - 1	Improve their debating skills		
D – 2	Raising their research perceptions and transferring students from education to learning		

0 Infrastructure	
Required course books	Available for free in the department and the institute's library
Key references (main)	Available for free in the department and the institute's library
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-Holding scientific symposia and conferences aimed at updating the curricula

1	Educational institution	Northern Technical University/Technical Institute of Dour	
2	Scientific Department / Center	Medical laboratory techniques	
3	Academic or professional program name	Histology and Anatomy DIP15	
4	Final certificate name	Technical Diploma in Medical Laboratories	
5	Academic system: annual / courses / other	Annual	
6	Accredited Accreditation Program	World Federation of Medical Education (WFME)	
7	Other external influences	Practical training in state institutions, conferences and seminars	
8	The date the description	1/9/2021	
9	Educational institution	Northern Technical University/Technical Institute of Dour	
	A- Cognitive goals		
A - 1	 Identify the general anatomy of the human body and vision of a system mechanism member. The study also investigates all kinds of tissue under the microscope 		
A - 2	Recognize the structure and shape of each organ in all parts of the body		
A - 3	Learn how to take samples from all parts of the body		
A - 4	Knowing the differences between the different tissues of the body and knowing the microscopic structure to help in studying all cases of abnormal tissues of the patient.		
	B- The skills objec	tives of the program	
B – 1	The ability to work and integrate in	o multidisciplinary teams	
B – 2	The ability to design and conduct set	The ability to design and conduct seminars as well as analyze and interpret data.	
B - 3	The ability to use modern technolog	The ability to use modern technologies, skills and specialized tools	
B - 4	The ability to identify and formulate medical problems in the field of specialization		

Teaching and learning methods

((Theoretical lectures / discussion and dialogue / practical lectures / field visits / seminars / laboratories / office activities / solving examples / graduation project / summer training))

Evaluation methods

11

((Oral exams/ Written exams/ Weekly reports/ Daily attendance/ Semester and final exams))

	C - emotional and value goals	
C – 1	The ability to communicate effectively with stakeholders in the field of specialization	
C – 2	Acknowledgment of the need and the ability to engage in lifelong learning	
C – 3	Knowledge of contemporary issues in the field of specialization	
C - 4	The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment	
((Theor	ng and learning methods retical lectures / discussion and dialogue / practical lectures / field visits / seminars atories / office activities / solving examples / graduation project / summer training))	
	tion methods tests / written tests / observation / cumulative record of the student))	
D- Transferred general and rehabilitative skills (other skills related to employability and personal development)		
D - 1	Improve their debating skills	
D – 2	Raising their research perceptions and transferring students from education to learning	

10 Infrastructure	
Required course books	Available for free in the department and the institute's library
Key references (main)	Available for free in the department and the institute's library
Electronic references, websites	The internet

-Creating curricula that are appropriate to the labor market

-Holding scientific symposia and conferences aimed at updating the curricula

1	Educational institution	Northern Technical University/Technical Institute of Dour	
2	Scientific Department / Center	Medical laboratory techniques	
3	Academic or professional program name	Nursing Essentials DIP16	
4	Final certificate name	Technical Diploma in Medical Laboratories	
5	Academic system: annual / courses / other	Annual	
6	Accredited Accreditation Program	World Federation of Medical Education (WFME)	
7	Other external influences	Practical training in state institutions, conferences and seminars	
8	The date the description	1/9/2021	
9	Educational institution	Northern Technical University/Technical Institute of Dour	
	A- Cogn	itive goals	
A - 1	Learn the basics of nursing, first aid, laboratory and professional in the field of nursing and ways of dealing with the patient during his presence in the medical laboratories.		
	B- The skills objec	tives of the program	
B – 1	The ability to work and integrate int	o multidisciplinary teams	
B – 2	The ability to design and conduct se	minars as well as analyze and interpret data.	
B - 3	The ability to use modern technolog	gies, skills and specialized tools	
B - 4	B-4 The ability to identify and formulate medical problems in the field of specialization		
((Theor / labora Evaluat	tories / office activities / solving exam tion methods exams/ Written exams/ Weekly repor	gue / practical lectures / field visits / seminars mples / graduation project / summer training)) ts/ Daily attendance/ Semester and final	

C - emotional and value goals	
C – 1	The ability to communicate effectively with stakeholders in the field of specialization
C – 2	Acknowledgment of the need and the ability to engage in lifelong learning
C – 3	Knowledge of contemporary issues in the field of specialization
C - 4	The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment
((Theor	ng and learning methods retical lectures / discussion and dialogue / practical lectures / field visits / seminars tories / office activities / solving examples / graduation project / summer training))
	ion methods ests / written tests / observation / cumulative record of the student))
D- Transferred general and rehabilitative skills (other skills related to employability and personal development)	
D - 1	Improve their debating skills
D – 2	Raising their research perceptions and transferring students from education to learning

10 Infi	rastructure
Required course books	Available for free in the department and the institute's library
Key references (main)	Available for free in the department and the institute's library
Electronic references, websites	The internet

-Holding scientific symposia and conferences aimed at updating the curricula

1	Educational institution	Northern Technical University/Technical Institute of Dour	
2	Scientific Department / Center	Medical laboratory techniques	
3	Academic or professional program name	General Chemistry DIP17	
4	Final certificate name	Technical Diploma in Medical Laboratories	
5	Academic system: annual / courses / other	Annual	
6	Accredited Accreditation Program	World Federation of Medical Education (WFME)	
7	Other external influences	Practical training in state institutions, conferences and seminars	
8	The date the description	1/9/2021	
9	Educational institution	Northern Technical University/Technical Institute of Dour	
	A- Cognitive goals		
A - 1	 Taking the general objectives of organic compounds and biochemistry and studying the differences of scientific experience and chemical interaction 		
A - 2	The use and cleaning of laboratory equipment, the ability to use different chemical reagents, and the student's ability to prepare different concentrations of liquids		
A - 3	Identify the components of human biochemistry using laboratories and chemical methods, and enable the use of laboratory tools		
	B- The skills objec	tives of the program	
B – 1	The ability to work and integrate into	o multidisciplinary teams	
B – 2	The ability to design and conduct seminars as well as analyze and interpret data.		
B - 3	The ability to use modern technolog	ties, skills and specialized tools	
B - 4	The ability to identify and formulate medical problems in the field of specialization		
	Teaching and learning methods ((Theoretical lectures / discussion and dialogue / practical lectures / field visits / seminars		

/ laboratories / office activities / solving examples / graduation project / summer training))

Evaluation methods

((Oral exams/ Written exams/ Weekly reports/ Daily attendance/ Semester and final exams))

C - emotional and value goals	
C – 1	The ability to communicate effectively with stakeholders in the field of specialization
C – 2	Acknowledgment of the need and the ability to engage in lifelong learning
C – 3	Knowledge of contemporary issues in the field of specialization
C - 4	The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment
((Theor	ng and learning methods retical lectures / discussion and dialogue / practical lectures / field visits / seminars atories / office activities / solving examples / graduation project / summer training))
	tion methods tests / written tests / observation / cumulative record of the student))
D- Transferred general and rehabilitative skills (other skills related to employability and personal development)	
D - 1	Improve their debating skills
D – 2	Raising their research perceptions and transferring students from education to learning

10 Infrastructure	
Required course books	Available for free in the department and the institute's library
Key references (main)	Available for free in the department and the institute's library
Electronic references, websites	The internet

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Curriculum development plan

-Creating curricula that are appropriate to the labor market

-Holding scientific symposia and conferences aimed at updating the curricula

	Educational institution	Northern Technical University/Technical
1	Educational institution	Institute of Dour
2	Scientific Department / Center	Medical laboratory techniques
3	Academic or professional program name	Computer Applications (1) DIP18
4	Final certificate name	Technical Diploma in Medical Laboratories
5	Academic system: annual / courses / other	Annual
6	Accredited Accreditation Program	World Federation of Medical Education (WFME)
7	Other external influences	Practical training in state institutions, conferences and seminars
8	The date the description	1/9/2021
9	Educational institution	Northern Technical University/Technical Institute of Dour
A- Cognitive goals		
	8	8
A - 1	<u> </u>	eal with a computer, know how to use
A - 1	The student should be able to d it, and understand how to use it	eal with a computer, know how to use
A - 1 B - 1	The student should be able to d it, and understand how to use it	eal with a computer, know how to use s software. tives of the program
	The student should be able to d it, and understand how to use it B- The skills objec The ability to work and integrate integrate	eal with a computer, know how to use s software. tives of the program
B – 1	The student should be able to d it, and understand how to use it B- The skills objec The ability to work and integrate integrate	eal with a computer, know how to use s software. tives of the program o multidisciplinary teams minars as well as analyze and interpret data.
B – 1 B – 2	The student should be able to d it, and understand how to use it B- The skills objec The ability to work and integrate into The ability to design and conduct set	eal with a computer, know how to use s software. tives of the program o multidisciplinary teams minars as well as analyze and interpret data. gies, skills and specialized tools
B – 1 B – 2 B - 3 B - 4 Teachin ((Theor	The student should be able to d it, and understand how to use it B- The skills objec The ability to work and integrate inter The ability to design and conduct set The ability to use modern technolog The ability to identify and formulate specialization ng and learning methods retical lectures / discussion and dialog	eal with a computer, know how to use s software. tives of the program o multidisciplinary teams minars as well as analyze and interpret data. gies, skills and specialized tools

C - emotional and value goals	
C – 1	The ability to communicate effectively with stakeholders in the field of specialization
C – 2	Acknowledgment of the need and the ability to engage in lifelong learning
C – 3	Knowledge of contemporary issues in the field of specialization
C - 4	The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment
((Theor	ng and learning methods retical lectures / discussion and dialogue / practical lectures / field visits / seminars tories / office activities / solving examples / graduation project / summer training))
((Oral t	tion methods ests / written tests / observation / cumulative record of the student))
D- Transferred general and rehabilitative skills (other skills related to employability and personal development)	
D - 1	Improve their debating skills
D – 2	Raising their research perceptions and transferring students from education to learning

10 Infrastructure	
Required course books	Available for free in the department and the institute's library
Key references (main)	Available for free in the department and the institute's library
Electronic references, websites	The internet

-Holding scientific symposia and conferences aimed at updating the curricula

1	Educational institution	Northern Technical University/Technical Institute of Dour	
2	Scientific Department / Center	Medical laboratory techniques	
3	Academic or professional program name	Human Rights and Democracy DIP19	
4	Final certificate name	Technical Diploma in Medical Laboratories	
5	Academic system: annual / courses / other	Annual	
6	Accredited Accreditation Program	World Federation of Medical Education (WFME)	
7	Other external influences	Practical training in state institutions, conferences and seminars	
8	The date the description	1/9/2021	
9	Educational institution	Northern Technical University/Technical Institute of Dour	
	A- Cogn	itive goals	
A - 1	Human rights aim to achieve cultural progress among the people, to achieve social welfare, and to protect the basic freedom of the individual in general by respecting his basic rights in freedom, justice and equality.		
	B- The skills objec	tives of the program	
B – 1	The ability to work and integrate into	o multidisciplinary teams	
B -2	The ability to design and conduct set	minars as well as analyze and interpret data.	
B-3	The ability to use modern technolog	ties, skills and specialized tools	
B - 4	The ability to identify and formulate medical problems in the field of		
Teaching and learning methods ((Theoretical lectures / discussion and dialogue / practical lectures / field visits / seminars / laboratories / office activities / solving examples / graduation project / summer training)) Evaluation methods ((Oral exams/ Written exams/ Weekly reports/ Daily attendance/ Semester and final exams))			

	C - emotional and value goals		
C – 1	The ability to communicate effectively with stakeholders in the field of specialization		
C – 2	Acknowledgment of the need and the ability to engage in lifelong learning		
C – 3	Knowledge of contemporary issues in the field of specialization		
C - 4	- 4 The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment		
((Theor	ng and learning methods retical lectures / discussion and dialogue / practical lectures / field visits / seminars atories / office activities / solving examples / graduation project / summer training))		
((Oral t	tion methods tests / written tests / observation / cumulative record of the student))		
D- Transferred general and rehabilitative skills (other skills related to employability and personal development)			
D - 1	Improve their debating skills		
D – 2	Raising their research perceptions and transferring students from education to learning		

10 Infrastructure	
Required course books	Available for free in the department and the institute's library
Key references (main)	Available for free in the department and the institute's library
Electronic references, websites	The internet

-Holding scientific symposia and conferences aimed at updating the curricula

1	Educational institution	Northern Technical University/Technical Institute of Dour	
2	Scientific Department / Center	Medical laboratory techniques	
3	Academic or professional program name	Clinical Chemistry DIP21	
4	Final certificate name	Technical Diploma in Medical Laboratories	
5	Academic system: annual / courses / other	Annual	
6	Accredited Accreditation Program	World Federation of Medical Education (WFME)	
7	Other external influences	Practical training in state institutions, conferences and seminars	
8	The date the description	1/9/2021	
9	Educational institution	Northern Technical University/Technical Institute of Dour	
	A- Cogn	itive goals	
A - 1	A-1 Human rights aim to achieve cultural progress among the people, to achieve social welfare, and to protect the basic freedom of the individual in general by respecting his basic rights in freedom, justice and equality.		
A - 2	To familiarize with clinical chemistry laboratories and the type of equipment which are used.		
	B- The skills objec	tives of the program	
B – 1	The ability to work and integrate into	o multidisciplinary teams	
B – 2	The ability to design and conduct set	minars as well as analyze and interpret data.	
B - 3	The ability to use modern technolog	ies, skills and specialized tools	
B-4 The ability to identify and formulate medical problems in the field of specialization			
Teaching and learning methods ((Theoretical lectures / discussion and dialogue / practical lectures / field visits / seminars / laboratories / office activities / solving examples / graduation project / summer training)) Evaluation methods			

((Oral exams/ Written exams/ Weekly reports/ Daily attendance/ Semester and final exams))

C - emotional and value goals		
C – 1	The ability to communicate effectively with stakeholders in the field of specialization	
C – 2	Acknowledgment of the need and the ability to engage in lifelong learning	
C – 3	Knowledge of contemporary issues in the field of specialization	
C - 4	C - 4 The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment	
((Theor	ng and learning methods retical lectures / discussion and dialogue / practical lectures / field visits / seminars atories / office activities / solving examples / graduation project / summer training))	
	tion methods tests / written tests / observation / cumulative record of the student))	
D- Transferred general and rehabilitative skills (other skills related to employability and personal development)		
D - 1	Improve their debating skills	
D – 2	Raising their research perceptions and transferring students from education to learning	

10 Infrastructure	
Required course books	Available for free in the department and the institute's library
Key references (main)	Available for free in the department and the institute's library
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Curriculum development plan

-Creating curricula that are appropriate to the labor market

-Holding scientific symposia and conferences aimed at updating the curricula

1	Educational institution	Northern Technical University/Technical Institute of Dour	
2	Scientific Department / Center	Medical laboratory techniques	
3	Academic or professional program name	Hematology DIP22	
4	Final certificate name	Technical Diploma in Medical Laboratories	
5	Academic system: annual / courses / other	Annual	
6	Accredited Accreditation Program	World Federation of Medical Education (WFME)	
7	Other external influences	Practical training in state institutions, conferences and seminars	
8	The date the description	1/9/2021	
9	Educational institution	Northern Technical University/Technical Institute of Dour	
	A- Cognitive goals		
A - 1	A - 1 Identify what is in the blood of laboratory equipment and various analysis and look at the different components of blood.		
A - 2	Identify the conduct analyzes of laboratory blood and the knowledge of clinical conditions associated with this analysis.		
	B- The skills objec	tives of the program	
B – 1	The ability to work and integrate into	o multidisciplinary teams	
B – 2	The ability to design and conduct set	minars as well as analyze and interpret data.	
B-3	The ability to use modern technolog	gies, skills and specialized tools	
B - 4	B - 4 The ability to identify and formulate medical problems in the field of specialization		
Teaching and learning methods ((Theoretical lectures / discussion and dialogue / practical lectures / field visits / seminars / laboratories / office activities / solving examples / graduation project / summer training)) Evaluation methods ((Oral exams/ Written exams/ Weekly reports/ Daily attendance/ Semester and final exams))			

	C - emotional and value goals		
C – 1	The ability to communicate effectively with stakeholders in the field of specialization		
C – 2	Acknowledgment of the need and the ability to engage in lifelong learning		
C – 3	Knowledge of contemporary issues in the field of specialization		
C - 4	- 4 The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment		
((Theor	ng and learning methods retical lectures / discussion and dialogue / practical lectures / field visits / seminars atories / office activities / solving examples / graduation project / summer training))		
((Oral t	tion methods tests / written tests / observation / cumulative record of the student))		
D- Transferred general and rehabilitative skills (other skills related to employability and personal development)			
D - 1	Improve their debating skills		
D – 2	Raising their research perceptions and transferring students from education to learning		

10 Infrastructure	
Required course books	Available for free in the department and the institute's library
Key references (main)	Available for free in the department and the institute's library
Electronic references, websites	The internet

-Holding scientific symposia and conferences aimed at updating the curricula

1	Educational institution	Northern Technical University/Technical Institute of Dour	
2	Scientific Department / Center	Medical laboratory techniques	
3	Academic or professional program name	Spores DIP23	
4	Final certificate name	Technical Diploma in Medical Laboratories	
5	Academic system: annual / courses / other	Annual	
6	Accredited Accreditation Program	World Federation of Medical Education (WFME)	
7	Other external influences	Practical training in state institutions, conferences and seminars	
8	The date the description	1/9/2021	
9	Educational institution	Northern Technical University/Technical Institute of Dour	
	A- Cogn	itive goals	
A - 1	At the end of the year, the student will be able to identify different microorganisms and the diseases resulting from those microorganisms.		
A - 2	Identify the different techniques to isolate the bacteria from clinical		
	B- The skills objec	tives of the program	
B – 1	The ability to work and integrate into	o multidisciplinary teams	
B -2	The ability to design and conduct set	minars as well as analyze and interpret data.	
B - 3	The ability to use modern technolog	ties, skills and specialized tools	
B - 4	B-4 The ability to identify and formulate medical problems in the field of specialization		
Teaching and learning methods ((Theoretical lectures / discussion and dialogue / practical lectures / field visits / seminars / laboratories / office activities / solving examples / graduation project / summer training)) Evaluation methods ((Oral exams/ Written exams/ Weekly reports/ Daily attendance/ Semester and final exams))			

	C - emotional and value goals		
C – 1	The ability to communicate effectively with stakeholders in the field of specialization		
C – 2	Acknowledgment of the need and the ability to engage in lifelong learning		
C – 3	Knowledge of contemporary issues in the field of specialization		
C - 4	- 4 The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment		
((Theor	ng and learning methods retical lectures / discussion and dialogue / practical lectures / field visits / seminars atories / office activities / solving examples / graduation project / summer training))		
((Oral t	tion methods tests / written tests / observation / cumulative record of the student))		
D- Transferred general and rehabilitative skills (other skills related to employability and personal development)			
D - 1	Improve their debating skills		
D – 2	Raising their research perceptions and transferring students from education to learning		

10 Inf	rastructure
Required course books	Available for free in the department and the institute's library
Key references (main)	Available for free in the department and the institute's library
Electronic references, websites	The internet

-Holding scientific symposia and conferences aimed at updating the curricula

1	Educational institution	Northern Technical University/Technical Institute of Dour
2	Scientific Department / Center	Medical laboratory techniques
3	Academic or professional program name	Parasite DIP24
4	Final certificate name	Technical Diploma in Medical Laboratories
5	Academic system: annual / courses / other	Annual
6	Accredited Accreditation Program	World Federation of Medical Education (WFME)
7	Other external influences	Practical training in state institutions, conferences and seminars
8	The date the description	1/9/2021
9	Educational institution	Northern Technical University/Technical Institute of Dour
	A- Cogn	itive goals
A - 1	At the end of the year, the stude human parasites and diseases.	ent will be able to identify and diagnose
A - 2	Recognize the different techniq parasites.	ues for diagnosing pathogenic
	B- The skills objec	tives of the program
B – 1	The ability to work and integrate into	o multidisciplinary teams
B – 2	The ability to design and conduct set	minars as well as analyze and interpret data.
B - 3	The ability to use modern technolog	gies, skills and specialized tools
B - 4	The ability to identify and formulate specialization	medical problems in the field of
((Theorem / Laborated / Labora	tories / office activities / solving exam tion methods exams/ Written exams/ Weekly report	gue / practical lectures / field visits / seminars mples / graduation project / summer training)) ts/ Daily attendance/ Semester and final

	C - emotional and value goals
C – 1	The ability to communicate effectively with stakeholders in the field of specialization
C – 2	Acknowledgment of the need and the ability to engage in lifelong learning
C – 3	Knowledge of contemporary issues in the field of specialization
C - 4	The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment
((Theor	ng and learning methods retical lectures / discussion and dialogue / practical lectures / field visits / seminars tories / office activities / solving examples / graduation project / summer training))
	ion methods ests / written tests / observation / cumulative record of the student))
	nsferred general and rehabilitative skills (other skills related to employability and al development)
D - 1	Improve their debating skills
D – 2	Raising their research perceptions and transferring students from education to learning

10 Inf	rastructure
Required course books	Available for free in the department and the institute's library
Key references (main)	Available for free in the department and the institute's library
Electronic references, websites	The internet

-Holding scientific symposia and conferences aimed at updating the curricula

1	Educational institution	Northern Technical University/Technical Institute of Dour
2	Scientific Department / Center	Medical laboratory techniques
3	Academic or professional program name	DIP25 . Viruses
4	Final certificate name	Technical Diploma in Medical Laboratories
5	Academic system: annual / courses / other	Courses
6	Accredited Accreditation Program	World Federation of Medical Education (WFME)
7	Other external influences	Practical training in state institutions, conferences and seminars
8	The date the description	1/9/2021
9	Educational institution	Northern Technical University/Technical Institute of Dour
	A- Cogn	itive goals
A - 1	Student will get knowledge about to diagnose that.	out diseases caused by viruses and how
	B- The skills objectives of the program	
B – 1	The ability to work and integrate integrate	o multidisciplinary teams
B – 2	The ability to design and conduct set	minars as well as analyze and interpret data.
B - 3	The ability to use modern technolog	gies, skills and specialized tools
B - 4	The ability to identify and formulate specialization	medical problems in the field of
((Theor	Teaching and learning methods ((Theoretical lectures / discussion and dialogue / practical lectures / field visits / seminars / laboratories / office activities / solving examples / graduation project / summer training))	
((Oral e	Evaluation methods ((Oral exams/ Written exams/ Weekly reports/ Daily attendance/ Semester and final exams))	
	C - emotional	and value goals
C-1	The ability to communicate effective specialization	ely with stakeholders in the field of
1	20	

C – 2	Acknowledgment of the need and the ability to engage in lifelong learning
C – 3	Knowledge of contemporary issues in the field of specialization
C - 4	The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment
((Theor	ng and learning methods retical lectures / discussion and dialogue / practical lectures / field visits / seminars tories / office activities / solving examples / graduation project / summer training))
	tion methods ests / written tests / observation / cumulative record of the student))
	nsferred general and rehabilitative skills (other skills related to employability and al development)
D - 1	Improve their debating skills
D – 2	Raising their research perceptions and transferring students from education to learning

10 Infr	astructure
Required course books	Available for free in the department and the institute's library
Key references (main)	Available for free in the department and the institute's library
Electronic references, websites	The internet

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Curriculum development plan

-Creating curricula that are appropriate to the labor market

-Holding scientific symposia and conferences aimed at updating the curricula

	Educational institution	NI - when we there is a little income iter / The sharing l	
1	Educational institution	Northern Technical University/Technical Institute of Dour	
2	Scientific Department / Center	Medical laboratory techniques	
3	Academic or professional program name	Medicinal fungicide DIP26	
4	Final certificate name	Technical Diploma in Medical Laboratories	
5	Academic system: annual / courses / other	Annual	
6	Accredited Accreditation Program	World Federation of Medical Education (WFME)	
7	Other external influences	Practical training in state institutions, conferences and seminars	
8	The date the description	1/9/2021	
9	Educational institution	Northern Technical University/Technical Institute of Dour	
	A- Cogn	itive goals	
A - 1	A-1 The student will get knowledge about medical mycology and diseases caused by how to diagnose and treat		
	B- The skills objec	tives of the program	
B – 1	The ability to work and integrate int	o multidisciplinary teams	
B – 2	The ability to design and conduct se	minars as well as analyze and interpret data.	
B - 3	The ability to use modern technolog	gies, skills and specialized tools	
B - 4	The ability to identify and formulate specialization	medical problems in the field of	
((Theor / labora Evaluat	tories / office activities / solving examination methods	gue / practical lectures / field visits / seminars mples / graduation project / summer training)) ts/ Daily attendance/ Semester and final	
exams))		

	C - emotional and value goals
C – 1	The ability to communicate effectively with stakeholders in the field of specialization
C – 2	Acknowledgment of the need and the ability to engage in lifelong learning
C – 3	Knowledge of contemporary issues in the field of specialization
C - 4	The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment
((Theor	ng and learning methods retical lectures / discussion and dialogue / practical lectures / field visits / seminars atories / office activities / solving examples / graduation project / summer training))
((Oral t	tion methods tests / written tests / observation / cumulative record of the student))
	nsferred general and rehabilitative skills (other skills related to employability and al development)
D - 1	Improve their debating skills
D – 2	Raising their research perceptions and transferring students from education to learning

10 Inf	rastructure
Required course books	Available for free in the department and the institute's library
Key references (main)	Available for free in the department and the institute's library
Electronic references, websites	The internet

-Holding scientific symposia and conferences aimed at updating the curricula

- Follow up on scientific developments in the field of specialization

11

1	Educational institution	Northern Technical University/Technical Institute of Dour
2	Scientific Department / Center	Medical laboratory techniques
3	Academic or professional program name	DIP27 Sera and Immunity
4	Final certificate name	Technical Diploma in Medical Laboratories
5	Academic system: annual / courses / other	Annual
6	Accredited Accreditation Program	World Federation of Medical Education (WFME)
7	Other external influences	Practical training in state institutions, conferences and seminars
8	The date the description	1/9/2021
9	Educational institution	Northern Technical University/Technical Institute of Dour
	A- Cogn	itive goals
A - 1	At the end of the study stage, the student is expected to master the basics of immunology, serology, immunological tests, methods of performing them, and techniques in order to reach the most accurate results. He is also expected to learn about the parts of the immune system and its work and how diseases are resisted in the body. He is also expected to be familiar with making laboratory tools and how to deal with laboratory samples that are submitted to the serology laboratory.	
A - 2	Handling and obtaining laborate examinations, making the require methods, and using tubes. And and writing reports after reading	ory samples for immunological red dilutions, using micro-expression performing serological examinations g the results, as well as interpreting gens and antibodies with locally
A - 3	<u> </u>	diseases and immunological methods. seases. Investigate many diseases of uses that cause parasites.

	Identify the parts of the electrophoresis device, as well as the performance of the immunoelectrophoresis for the diagnosis of
A - 4	cancerous cases. Preparation of vaccines, as well as vaccinations and
	doses given from different types of vaccines. Preparation of solutions
	for immunological assays such as saline and buffer solution
	B- The skills objectives of the program
B – 1	The ability to work and integrate into multidisciplinary teams
B – 2	The ability to design and conduct seminars as well as analyze and interpret data.
B - 3	The ability to use modern technologies, skills and specialized tools
B - 4	The ability to identify and formulate medical problems in the field of specialization
Teachin	ng and learning methods
1.1	retical lectures / discussion and dialogue / practical lectures / field visits / seminars
	tories / office activities / solving examples / graduation project / summer training))
	tion methods
exams)	exams/ Written exams/ Weekly reports/ Daily attendance/ Semester and final
entains)	
	C - emotional and value goals
C – 1	
	The ability to communicate effectively with stakeholders in the field of specialization
C – 2	
	specialization
	specialization Acknowledgment of the need and the ability to engage in lifelong learning Knowledge of contemporary issues in the field of specialization The broad learning necessary to understand the impact of solutions globally,
C - 3 C - 4	specialization Acknowledgment of the need and the ability to engage in lifelong learning Knowledge of contemporary issues in the field of specialization The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment
C-3 C-4 Teachin	specialization Acknowledgment of the need and the ability to engage in lifelong learning Knowledge of contemporary issues in the field of specialization The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment ng and learning methods
C-3 C-4 Teachin ((Theor	specialization Acknowledgment of the need and the ability to engage in lifelong learning Knowledge of contemporary issues in the field of specialization The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment
C – 3 C - 4 Teachin ((Theor / labora Evaluat	specialization Acknowledgment of the need and the ability to engage in lifelong learning Knowledge of contemporary issues in the field of specialization The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment ng and learning methods retical lectures / discussion and dialogue / practical lectures / field visits / seminars itories / office activities / solving examples / graduation project / summer training)) tion methods
C – 3 C - 4 Teachin ((Theor / labora Evaluat ((Oral t	specialization Acknowledgment of the need and the ability to engage in lifelong learning Knowledge of contemporary issues in the field of specialization The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment ng and learning methods retical lectures / discussion and dialogue / practical lectures / field visits / seminars itories / office activities / solving examples / graduation project / summer training)) tion methods rests / written tests / observation / cumulative record of the student))
C – 3 C - 4 Teachin ((Theor / labora Evaluat ((Oral t D- Tran	specialization Acknowledgment of the need and the ability to engage in lifelong learning Knowledge of contemporary issues in the field of specialization The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment ng and learning methods retical lectures / discussion and dialogue / practical lectures / field visits / seminars itories / office activities / solving examples / graduation project / summer training)) tion methods rests / written tests / observation / cumulative record of the student)) nsferred general and rehabilitative skills (other skills related to employability and
C – 3 C - 4 Teachin ((Theor / labora Evaluat ((Oral t D- Tran	specialization Acknowledgment of the need and the ability to engage in lifelong learning Knowledge of contemporary issues in the field of specialization The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment ng and learning methods retical lectures / discussion and dialogue / practical lectures / field visits / seminars itories / office activities / solving examples / graduation project / summer training)) tion methods rests / written tests / observation / cumulative record of the student))
C – 3 C - 4 Teachin ((Theor / labora Evaluat ((Oral t D- Tran persona	specialization Acknowledgment of the need and the ability to engage in lifelong learning Knowledge of contemporary issues in the field of specialization The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment ng and learning methods retical lectures / discussion and dialogue / practical lectures / field visits / seminars tories / office activities / solving examples / graduation project / summer training)) tion methods ests / written tests / observation / cumulative record of the student)) nsferred general and rehabilitative skills (other skills related to employability and al development)
C – 3 C - 4 Teachin ((Theor / labora Evaluat ((Oral t D- Tran persona D - 1	specialization Acknowledgment of the need and the ability to engage in lifelong learning Knowledge of contemporary issues in the field of specialization The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment ng and learning methods retical lectures / discussion and dialogue / practical lectures / field visits / seminars tories / office activities / solving examples / graduation project / summer training)) tion methods ests / written tests / observation / cumulative record of the student)) nsferred general and rehabilitative skills (other skills related to employability and al development) Improve their debating skills

10 Infrastructure	
Required course books	Available for free in the department and the institute's library
Key references (main)	Available for free in the department

	and the institute's library
Electronic references, websites	The internet

Curriculum development plan

-Creating curricula that are appropriate to the labor market

11

-Holding scientific symposia and conferences aimed at updating the curricula

1	Educational institution	Northern Technical University/Technical Institute of Dour	
2	Scientific Department / Center	Medical laboratory techniques	
3	Academic or professional program name	DIP28 Research Project	
4	Final certificate name	Technical Diploma in Medical Laboratories	
5	Academic system: annual / courses / other	Annual	
6	Accredited Accreditation Program	World Federation of Medical Education (WFME)	
7	Other external influences	Practical training in state institutions, conferences and seminars	
8	The date the description	1/9/2021	
9	Educational institution	Northern Technical University/Technical Institute of Dour	
	A- Cognitive goals		
A - 1	A-1 Determines the salient goals of the project and learns how to deal with a group of students in order to support teamwork and draws the foundations for pathological analyzes in scientific laboratories through the practical project		
	B- The skills objec	tives of the program	
B – 1	The ability to work and integrate into multidisciplinary teams		
B – 2	The ability to design and conduct seminars as well as analyze and interpret data.		
B - 3	The ability to use modern technologies, skills and specialized tools		
B-4 The ability to identify and formulate medical problems in the field of specialization			
Teaching and learning methods ((Theoretical lectures / discussion and dialogue / practical lectures / field visits / seminars / laboratories / office activities / solving examples / graduation project / summer training)) Evaluation methods ((Oral exams/ Written exams/ Weekly reports/ Daily attendance/ Semester and final exams))			

	C - emotional and value goals		
C – 1	C -1 The ability to communicate effectively with stakeholders in the field of specialization		
C – 2	Acknowledgment of the need and the ability to engage in lifelong learning		
C – 3	C-3 Knowledge of contemporary issues in the field of specialization		
C - 4	C - 4 The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment		
((Theor	Teaching and learning methods ((Theoretical lectures / discussion and dialogue / practical lectures / field visits / seminars / laboratories / office activities / solving examples / graduation project / summer training))		
Evaluation methods ((Oral tests / written tests / observation / cumulative record of the student))			
D- Transferred general and rehabilitative skills (other skills related to employability and personal development)			
D - 1	Improve their debating skills		
D – 2	Raising their research perceptions and transferring students from education to learning		

10 Infrastructure	
Required course books	Available for free in the department and the institute's library
Key references (main)	Available for free in the department and the institute's library
Electronic references, websites	The internet

-Holding scientific symposia and conferences aimed at updating the curricula

1	Educational institution	Northern Technical University/Technical Institute of Dour	
2	Scientific Department / Center	Medical laboratory techniques	
3	Academic or professional program name	Professional Ethics DIP29	
4	Final certificate name	Technical Diploma in Medical Laboratories	
5	Academic system: annual / courses / other	Annual	
6	Accredited Accreditation Program	World Federation of Medical Education (WFME)	
7	Other external influences	Practical training in state institutions, conferences and seminars	
8	The date the description	1/9/2021	
9	Educational institution	Northern Technical University/Technical Institute of Dour	
	A- Cognitive goals		
A - 1	 A-1 Learn the basic ethics of professional behavior for workers in medical specialties. Qualifying the graduate on professional behavior in dealing with his profession and achieving compatibility with himself and his professional environment (the patient and his companions, health workers and medical devices) 		
	B- The skills objec	tives of the program	
B – 1	B -1 The ability to work and integrate into multidisciplinary teams		
B – 2	2 The ability to design and conduct seminars as well as analyze and interpret data.		
B - 3	The ability to use modern technologies, skills and specialized tools		
B-4 The ability to identify and formulate medical problems in the field of specialization			
Teaching and learning methods ((Theoretical lectures / discussion and dialogue / practical lectures / field visits / seminars / laboratories / office activities / solving examples / graduation project / summer training))			
	Evaluation methods ((Oral exams/ Written exams/ Weekly reports/ Daily attendance/ Semester and final exams))		
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	C - emotional and value goals		
C – 1	C -1 The ability to communicate effectively with stakeholders in the field of specialization		
C – 2	Acknowledgment of the need and the ability to engage in lifelong learning		
C – 3	C-3 Knowledge of contemporary issues in the field of specialization		
C - 4	C - 4 The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment		
((Theor	Teaching and learning methods ((Theoretical lectures / discussion and dialogue / practical lectures / field visits / seminars / laboratories / office activities / solving examples / graduation project / summer training))		
Evaluation methods ((Oral tests / written tests / observation / cumulative record of the student))			
D- Transferred general and rehabilitative skills (other skills related to employability and personal development)			
D - 1	Improve their debating skills		
D – 2	Raising their research perceptions and transferring students from education to learning		

10 Infrastructure	
Required course books	Available for free in the department and the institute's library
Key references (main)	Available for free in the department and the institute's library
Electronic references, websites	The internet

-Holding scientific symposia and conferences aimed at updating the curricula

1	Educational institution	Northern Technical University/Technical Institute of Dour	
2	Scientific Department / Center	Medical laboratory techniques	
3	Academic or professional program name	Computer Applications (2) DIP210	
4	Final certificate name	Technical Diploma in Medical Laboratories	
5	Academic system: annual / courses / other	Annual	
6	Accredited Accreditation Program	World Federation of Medical Education (WFME)	
7	Other external influences	Practical training in state institutions, conferences and seminars	
8	The date the description	1/9/2021	
9	Educational institution	Northern Technical University/Technical Institute of Dour	
	A- Cogn	itive goals	
A - 1	A-1 The student should be familiar with the different applications of the computer. And that he can distinguish between the types of software that can be dealt with.		
	B- The skills objec	tives of the program	
B – 1	B -1 The ability to work and integrate into multidisciplinary teams		
B – 2	The ability to design and conduct seminars as well as analyze and interpret data.		
B - 3	The ability to use modern technologies, skills and specialized tools		
B-4 The ability to identify and formulate medical problems in the field of specialization			
Teaching and learning methods ((Theoretical lectures / discussion and dialogue / practical lectures / field visits / seminars / laboratories / office activities / solving examples / graduation project / summer training)) Evaluation methods ((Oral exams/ Written exams/ Weekly reports/ Daily attendance/ Semester and final exams))			

C - emotional and value goals		
C – 1	C – 1 The ability to communicate effectively with stakeholders in the field of specialization	
C – 2	Acknowledgment of the need and the ability to engage in lifelong learning	
C – 3	Knowledge of contemporary issues in the field of specialization	
C - 4	C - 4 The broad learning necessary to understand the impact of solutions globally, economic problems and the social environment	
Teaching and learning methods ((Theoretical lectures / discussion and dialogue / practical lectures / field visits / seminars / laboratories / office activities / solving examples / graduation project / summer training))		
Evaluation methods ((Oral tests / written tests / observation / cumulative record of the student))		
D- Transferred general and rehabilitative skills (other skills related to employability and personal development)		
D - 1	D-1 Improve their debating skills	
D – 2	Raising their research perceptions and transferring students from education to learning	

10 Infrastructure	
Required course books	Available for free in the department and the institute's library
Key references (main)	Available for free in the department and the institute's library
Electronic references, websites	The internet

-Holding scientific symposia and conferences aimed at updating the curricula