

خطة سد الفجوة

Gap between NARS 2009 and NARS 2018	Gap treatment					
	Suggested courses to cover the gap	Code	Semester	Level	Academic year	Description
Engineering competencies (level A)						
- A5. Practice research techniques and methods of investigation as an inherent part of learning.	- Project	TXE6417, TXE6427	4 th year- 1 st & 2 nd semester	4 th year	2020/2021	-Student practice research techniques and methods through preparing graduation project.
				3 rd Year	2021/2022	
				2 nd year	2022/2023	
				1 st year	2023/2024	
A10. Acquire and apply new knowledge and practice new learning strategies.	-Project	TXE6417, TXE6427	4 th year- 1 st & 2 nd semester	4 th year	2020/2021	-As the students finish the graduation project, they will do a presentation and the referee Committee discuss them.
					3 rd Year	2021/2022
	-Production quality control	TXE6412	4 th year - 1 st semester	2 nd year	2022/2023	-Students prepare reports and presentations on topics related to the course suggested by the lecturer and the lecturer discuss them.
				1 st year	2023/2024	
Textile Engineering competencies (level B)						
B3.T. Engage in the <u>emerging fields relevant to textile engineering</u> to	- nonwovens	TXE6422	4 th year- 2 nd semester	4 th year	2020/2021	Suggested topics: Introduction to nanotechnology, nanotechnology

design textile products, processes and systems.	-Textiles Finishing	TXE6421	4 th year – 2 nd semester	3 rd Year	2021/2022	techniques , applications of nanotechnology in textile industry. Suggested topics: Introduction and classification of the laser technologies, Laser applications in textiles processing.
				2 nd year	2022/2023	
				1 st year	2023/2024	
Courses:						
Operation research (Eng212)	Economics and costs	TXE6424	4 th year- 2 nd Semester	4 th year	2020/2021	Suggested topics : Operational research and Art problem solving. Operation research techniques. Methodologies of operation research . Linear programming.
				3 rd Year	2021/2022	
				2 nd year	2022/2023	
				1 st year	2023/2024	

Action Plan of Gap Treatment between Courses in Bylaw 2019 & Bylaw 2005 (skills)

Gap between Bylaw 2019 & Bylaw 2005	Gap treatment					
	Suggested courses to cover the gap	Code	Semester	Level	Academic year	Description
	-Project	TXE6417	4 th year -1 st semester	4 th year	2020/2021	Suggested topics : Importance of energy , overview of energy resources, basic energy problems- conventional

-Environmental issues (MUR233)	-Textiles design and manufacturing	TXE6313	3 rd year-1 st Semester	3 rd year	2020/2021	and unconventional reserves and resources, renewable energy resources.
	-Humanities in textiles 3	TXE6216	2 nd year-1 st semester	2 nd year	2020/2021	-3 lectures are presented in the Suggested topics in weekly students meeting hours .
	-Humanities in textiles 2	TXE6116	1 st year – 1 st semester	1 st year	2020/2021	- Exams are included in the suggested courses to cover the gap for each level.

- Research & Analysis Skills (MUR221)	-Project	TXE6427	4 th year-2 nd Semester	4 th year	2020/2021	<p>Suggested topics: Introduction, preparing research proposal, methods and types of research, variables, samples, methods of data collection, description and analysis of data, preparing research findings report.</p> <p>-3 lectures are presented in the suggested topics in weekly students meeting hours .</p> <p>- Exams are included in the project.</p>
				3 rd year	2021/2022	
				2 nd year	2022/2023	
				1 st year	2023/2024	
- Communication & presentation skills (MUR114)	-Project	TXE6427	4 th year-2 nd Semester	4 th year	2020/2021	<p>Suggested topics: Kinds and Components of communication , Importance and benefits of effective</p>

				3 rd year	2021/2022	communication , the 7 C's of Effective communication , Writing Skills , Reading Skills , Speaking Skills , Listening Skills , Planning and Writing, Report writing, Kinds of Reports. -3 lectures are presented in the suggested topics in weekly students meeting hours . - Exams are included in the project.
				2 nd year	2022/2023	
				1 st year	2023/2024	

Summary of gap treatment procedures:

1- Engineering competencies (level A)

- **A5.** "Practice research techniques and methods of investigation as an inherent part of learning".
Gap treatment is carried out through courses: Project (TXE6417, TXE6427), 4th year (in academic year 2020/2021) , 3rd year (in academic year 2021/2022) , 2nd year (in academic year 2022/2023) and 1st year (in academic year 2023/2024).
- **A10.** "Acquire and apply new knowledge and practice new learning strategies".
Gap treatment is carried out through courses: Project (TXE6417, TXE6427) and Production quality control (TXE6412), 4th year (in academic year 2020/2021) , 3rd year (in academic year 2021/2022) , 2nd year (in academic year 2022/2023) and 1st year (in academic year 2023/2024).

2- Textile Engineering competencies (level B)

- **B3.T.** "Engage in the emerging fields relevant to textile engineering to design textile products, processes and systems".

Gap treatment is carried out through courses: nonwovens (TXE6422) and Textiles Finishing (TXE6421), 4th year (in academic year 2020/2021) , 3rd year (in academic year 2021/2022) , 2nd year (in academic year 2022/2023) and 1st year (in academic year 2023/2024).

3- Courses

- Operation research (Eng212)

Gap treatment is carried out through courses: Economics and costs (TXE6424), 4th year (in academic year 2020/2021) , 3rd year (in academic year 20201/2022) , 2nd year (in academic year 2022/2023) and 1st year (in academic year 2023/2024) .

4- Skills

- Environmental Issues (MUR233)

Gap treatment is carried out in the academic year 2020/2021 through courses: project (TXE6417) for 4th year, Textiles design and manufacturing (TXE6313) for 3rd year , Humanities in textiles 3 (TXE62166) for 2nd year and Humanities in textiles 2 (TXE6116) for 1st year.

- Research & Analysis Skills (MUR221)

Gap treatment is carried out through courses: Project (TXE6427), 4th year (in academic year 2020/2021) , 3rd year (in academic year 2021/2022) , 2nd year (in academic year 2022/2023) and 1st year (in academic year 2023/2024).

- Communication & presentation skills (MUR114)

Gap treatment is carried out through courses: Project (TXE6427), 4th year (in academic year 2020/2021) , 3rd year (in academic year 2021/2022) , 2nd year (in academic year 2022/2023) and 1st year (in academic year 2023/2024).