

The table below presents groups categorized by affected topics, accompanied by key points and keywords to facilitate understanding. Note that the order of preparation for the presentation follows the order of the table.

Group Members	Branch of Engineering	Presentation Topic	Key Points	Keywords for Research
Berrouache Manel, Adjou Yougourthen, Yahia Nibel, Ihdene Nesrin, Yahiaoui Anais, Araoun Mourad, Gasmi Faiz, Ikone Cheickma	Electrotechnical Engineering (ELT3)	"The Role of Electrotechnical Engineers in Smart Energy Systems"	1. What is electrotechnical engineering? 2. How electrical engineers design smart grids 3. The role of automation in energy efficiency 4. Case study: Smart homes and renewable energy 5. Career paths in electrotechnical engineering	Smart grids, power distribution, renewable energy, electrical automation, energy storage, smart homes
Ouggour Zahra, Kouidmi Céline, Laouchet Ikram, Ouaret Tania, Smail Thafath	Process Engineering (GP1)	"Process Engineers: The Key to Industrial Safety"	1. What is process engineering? 2. How process engineers ensure safety in factories 3. Role in reducing industrial accidents 4. Case study: Safety measures in the oil and gas industry 5. Career opportunities in industrial safety	Process safety, risk management, chemical process design, industrial hazard prevention, refinery safety

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<p>Daouda Djigué, Amine Hamidouche, Moussa Yousouf Sidibé, Lounis Abdelli, Remtane Zeggagh, Mahaman Moustapha Abdoussalanm, Amir Mezane, Idir Zinedine</p>	<p>Civil Engineering (GC2)</p>	<p>"Civil Engineers and the Future of Sustainable Cities"</p>	<p>1. The role of civil engineers in urban development 2. Sustainable materials and eco-friendly construction 3. How civil engineers improve transportation and housing 4. Case study: Green infrastructure projects 5. Career paths in sustainable civil engineering</p>	<p>Sustainable infrastructure, urban planning, eco-friendly materials, smart city development, climate-resilient structures</p>
<p>Benseghir Salsabil, Khelloufi Ibtisam, Benamara Anis, Batoul Louiza, Brahmi Louanes, Halaili Tahar, Yachi Samir</p>	<p>Civil & Mechanical Engineering (GC2 & GM2)</p>	<p>"How Civil and Mechanical Engineers Work Together in Infrastructure Projects"</p>	<p>1. Differences between civil and mechanical engineering 2. Mechanical engineers' role in designing machinery for construction 3. Civil engineers' role in ensuring structural safety 4. Case study: Building a high-tech bridge 5. Career opportunities in infrastructure engineering</p>	<p>Bridge design, construction machinery, material strength, building safety, engineering collaboration</p>

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Amrane Mounir, Imene Mersel, Kara Alycia, Touati Akram, Moncef Benrais, Geddouche Zakaria, Skhab Walid, Benbellout Nour-El-Houda	Electrotechnical & Civil Engineering (ELT1, ELT2, GC2, GP1)	"The Impact of Electrical and Civil Engineers in Modern Infrastructure"	1. How electricity is integrated into smart infrastructure 2. The role of civil engineers in designing energy-efficient buildings 3. Case study: How engineers build smart roads 4. Future trends in infrastructure technology 5. Career paths in electrotechnical and civil engineering	Smart infrastructure, energy-efficient design, electrical integration, building automation, engineering collaboration
Maouche Abdel Halim, Koné Oumar Dellal Reda Sekour Adel Zaidi Mohand Zinet Lyzcine Rahal Amine Alaeddine Saoudi Oussama Mehaoued	Mechanical Engineering (GM02, GM1)	"The Role of Mechanical Engineers in Manufacturing and Automation"	1. What do mechanical engineers do in manufacturing? 2. Role in designing and maintaining industrial machines 3. Automation and robotics in production 4. Case study: The use of AI in smart factories 5. Career opportunities in industrial automation	Industrial automation, robotics, manufacturing processes, smart machines, AI in engineering

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<p>Mezhoud Sidra, Krim Nouara, Daghi Tinhinane, Nasri Yassmina, Hamadou Melina, Yahiou Massinta, Iazougen Ines, Djabara Rahma</p>	<p>Process Engineering (GP2)</p>	<p>"The Role of Process Engineers in Sustainable Industry"</p>	<p>1. What is process engineering? 2. How process engineers improve production efficiency 3. Role in reducing waste and pollution 4. Case study: Process engineering in wastewater treatment 5. Career opportunities in sustainable industry</p>	<p>Process optimization, sustainability, industrial waste management, energy efficiency, green production</p>
<p>Salhi Abderraouf, Lahlah Rayane, Ouadfel Mohand, Yajedd Nassim, Lounis Menad, Bendris Massinissa, Massioum Benheni, Kouabah Yahia</p>	<p>Mechanical & Electrotechnical Engineering (GM3, ELT3)</p>	<p>"The Role of Mechanical and Electrical Engineers in Automotive Industry"</p>	<p>1. How mechanical engineers design vehicle components 2. How electrical engineers develop electric vehicle systems 3. Innovations in self-driving and electric cars 4. Case study: The transition from fuel to electric vehicles 5. Career opportunities in automotive engineering</p>	<p>Automobile engineering, electric vehicles, mechanical design, power systems, self-driving technology</p>

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Charifi Manel, Assoul Lynda, Boubarim Sendes, Addour Maissa, Mena Lina, Ouatah Iman, Bouriah Fazia, Baazizi Ikram, Kemacha Anais	Process Engineering (GP2)	"Process Engineering in the Pharmaceutical Industry"	1. What is process engineering? 2. How medicines are produced and tested 3. Safety and quality control in pharmaceutical production 4. Case study: The role of process engineers in vaccine manufacturing 5. Career paths in the pharmaceutical sector	Pharmaceutical production, drug manufacturing, quality control, bioprocess engineering, medicine safety
Ikni Mhine Henane, Moussaoui Leticia, Kadi Mounir, Mihoubi Aymene, Slimani Rafik, Tairi Seif Eddine, Amari Nizar, Sadou Bilal	Electrotechnical & Mechanical Engineering (ELT2, ELT3, GM3, GM4)	"Electromechanical Engineering: The Future of Smart Systems"	1. What is electromechanical engineering? 2. How mechanical and electrical engineers collaborate 3. Role in smart devices and automation 4. Case study: The development of robotic arms and smart homes 5. Career paths in electromechanical fields	Electromechanics, automation, smart devices, industrial robotics, mechatronics, AI-driven systems
Azeggagh Lynda, Hadjar Samia, Ighil Hamout Inas, Maouche Chaïma, Medghour Wassim, Ouchene Mahie Eddine, Idir Kamel, Yahiaoui	Civil Engineering (GC2)	"The Role of Civil Engineers in Sustainable Urban Development"	1. How civil engineers design eco-friendly cities 2. The impact of urban planning on the	Sustainable urban planning, green infrastructure, eco-friendly buildings, climate resilience, smart cities

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Abdelkader, Merzouk Md. Nadir			environment 3. Case study: Sustainable transportation and infrastructure 4. The role of civil engineers in climate adaptation 5. Career opportunities in urban development	

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Ait el Hadj Tamazight, Fourar Hanane, Samaoun Meriem, AKHENAK Amine, Ait Meddour Djamila, Bouktit Tounsia, Djafri Katia	Electrotechnical, Process & Mechanical Engineering (ELT2, GP1, GM3, GP2)	"Engineering in the Oil and Gas Industry"	1. How oil is extracted and processed 2. Role of mechanical engineers in designing drilling equipment 3. Role of process engineers in refining and chemical processing 4. Case study: How engineers improve oil refinery safety 5. Career opportunities in the oil industry	Oil extraction, refining process, mechanical design, industrial safety, energy production

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ADjed AMINE, BOUAZZA HOCINE, Aoudjit Syphax, Yataghane Yanik, Medjkoune Elena, Benamara Roza, Hani Hamiche	Electrotechnical & Civil Engineering (ELT2, CC2)	"The Role of Electrotechnical and Civil Engineers in Smart Cities"	1. How electricity powers modern cities 2. Role of civil engineers in infrastructure (smart roads, green buildings) 3. Integration of renewable energy into smart cities 4. Case study: Smart city technologies 5. Career opportunities in smart city development	Smart cities, urban planning, energy efficiency, sustainable infrastructure, civil-electrical collaboration
Bitout Nada, Bachirbey Salsabil, Zahbib Sarah, Maouche Tania, Bouarouri Amine, Benkessas Mohamed, Touazi Anissa, Maouche Mélissa, Medbjer Mazigh	Civil & Process Engineering (GC1, GP1, R)	"Sustainable Construction: The Future of Civil and Process Engineering"	1. Role of civil engineers in eco- friendly buildings 2. How process engineers optimize material use 3. Sustainable construction materials and techniques 4. Case study: Green buildings and energy efficiency 5. Career paths in sustainable engineering	Green buildings, sustainable engineering, eco-friendly materials, energy-efficient design, civil-process collaboration
Dissi Dali, Idiri Athmane, Mezjani Anis, Senoune Ouacine, Announ Chaima, Ouazene Dounia, Ayad Lamia, Djilali Yasmine	Civil Engineering (GC1)	"The Role of Civil Engineers in Disaster- Resilient Infrastructure"	1. How civil engineers design earthquake and flood-resistant buildings 2. Importance of structural safety in urban planning 3. Case study: Earthquake- resistant buildings around the world	Disaster-resilient design, earthquake-resistant buildings, urban safety, civil engineering, climate adaptation

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			4. The future of disaster-proof engineering 5. Career paths in infrastructure resilience	
Abderrahmane Thanina, Bir Ibtissem, Bouzidi Kamelia, Boulahbal Nour-El Houda, Assoul Zineb, Ismail Thafath, Iken Daoud, Foudad Yasmine, Abid Ilissa Keltoum	Electrotechnical & Mechanical Engineering (ELT1, GP1, GM2, EP1)	"The Impact of Electrical and Mechanical Engineering in Modern Manufacturing"	1. Role of electrotechnical engineers in factory automation 2. Role of mechanical engineers in machine design 3. Case study: The use of robotics in manufacturing 4. Future trends in industrial automation 5. Career paths in electromechanical engineering	Factory automation, robotics, industrial manufacturing, smart machines, electromechanical systems