

- **If a student's name does not appear in any group, they are allowed to join an existing group freely and deliver the presentation together with that group.**

Group	Members	Presentation Title	Research Key Words	Key Points (as Subtitles)
GP2	Mezhoud Sidra, Krim Nouara, Daghi Tinhinane, Nasri Yassmina, Hamadou Melina, Yahiou Massinta, Iazougen Ines, Djabara Rahma	Sustainable Innovations in Process Engineering	Green processes, energy efficiency, pollution control, sustainable industry	- Introduction to Sustainable Process Engineering - Green Processes for Industry - Strategies for Energy Efficiency - Pollution Control Technologies - Case Studies in Clean Process Innovation
GM3/ELT3	Salhi Abderraouf, Lahlah Rayane, Ouadfel Mohand, Yajedd Nassim, Lounis Menad, Bendris Massinissa, Massioum Benheni, Kouabah Yahia	Interdisciplinary Applications in Mechatronics	Mechatronics, automation, control systems, mechanical systems, energy management	- The Role of Mechatronics in Modern Engineering - Integration of Mechanical and Electrical Systems - Automation and Control: Key Concepts - Energy Management in Mechatronic Systems - Real-World Examples of Interdisciplinary Applications
GP2	Charifi Manel, Assoul Lynda, Boubarim Sendes, Addour Maissa, Mena Lina, Ouatah Iman, Bouriah Fazia, Baazizi Ikram, Kemacha Anais	Green Chemistry and Industrial Process Sustainability	Eco-friendly materials, waste minimization, process optimization, circular economy	- Introduction to Green Chemistry Principles - Eco-Friendly Materials and Their Impact - Waste Minimization Techniques - Process Optimization for Sustainability - Industry Case Studies: Circular Economy in Action

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ELT2/ GM4/ ELT3 /GM3	Ikni Mhine Henane, Moussaoui Leticia, Kadi Mounir, Mihoubi Aymene, Slimani Rafik, Tairi Seif Eddine, Amari Nizar, Sadou Bilal	Smart Technologies in Industrial Automation	Smart factories, PLCs, sensors, control engineering, IoT in industry	- Overview of Smart Industrial Technologies - PLCs and Sensor Integration - Industrial Control Engineering Basics - Internet of Things (IoT) in Industry - Emerging Trends: Industry 4.0
GC2	Azeggagh Lynda, Hadjar Samia, Ighil Hamout Inas, Maouche Chaïma, Medghour Wassim, Ouchene Mahie Eddine, Idir Kamel, Yahiaoui Abdelkader, Merzouk Md. Nadir	Innovations in Civil Infrastructure for Smart Cities	Smart cities, infrastructure resilience, sustainable construction, civil engineering technology	- Smart Cities: Definition and Needs - Innovations in Civil Engineering Infrastructure - Building Resilient and Sustainable Structures - Technological Challenges for Future Cities
GM	Mazouz Asma, Mezghiche Kawla, Boudjou Melaaz, Mezaine Ferial, Lahlah Nafaa, Sahki Fadel, Zemmoura Seddik, Saoudi Alaeddine, Boubid Mohamed	Advanced Mechanical Systems for Modern Industries	Mechanical systems, material strength, automation in mechanics, energy efficiency	- Advanced Mechanical Systems: An Overview - Material Strength and Engineering Innovations - Automation in Mechanical Industries - Applications in Automotive and Aerospace
ELT+GM	Rostome Ouari, Roslane Hamoudi, Ghilas Hassam, Idris Mseroua, Damia Tinsalhi, Melina Chebbi, Imene Ouhenia, Ines Zaidi	Development and Challenges of Electric Vehicles	Electric vehicles, battery technology, charging infrastructure, energy	- Evolution of Electric Vehicles - Battery Technologies and Innovations - Charging Infrastructure Challenges - Future

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			management, automotive innovation	Trends in Electric Mobility
GC2	Roumane Meriem, Soukir Liliaa, Mokrane Chaima, Bouali Line, Idir Zineddine	Green Construction Techniques for Sustainable Development	Eco-construction, green materials, carbon footprint reduction, energy-efficient buildings	- Principles of Green Construction - Eco-Friendly Building Materials - Reducing the Carbon Footprint in Construction - Sustainable Urban Planning Strategies
GM/GC2	Brinis Anaïs, Khaoua Anaïs, Hocina Hanane, Medjmadj Ndjwa, Zemmouri Isra, Slimani Inès, Djenane Imane	Mechanical Innovations for the Next Generation of Manufacturing	Smart manufacturing, robotic systems, Industry 4.0, advanced manufacturing technologies	- Smart Manufacturing and Robotics - Integration with Industry 4.0 - Advanced Manufacturing Technologies - The Future of Manufacturing Industries