

Department of Materials Engineering  
MM-410: Final Year Design Project  
**Project List**



F/SOP FYDP/02/00

Batch: 2021

Semester Fall-2024 & Spring 2025

S. No.	Project Title	Student Name		Supervisor/Co-Supervisor	Industry
01	Development and Characterization of Biomimetic Materials Simulating the Optical Spectra of Natural Leaves	Aleena	MM-21025	Prof. Dr. Fayaz Hussain Engr. Mudasir farooq	Nano Technology
		Summaiya	MM-21030		
		Aiman Akram	MM-21005		
02	Design and Development of Real-Time Moisture Content Detection System For Wood Veneer.	Maham Aziz	MM-21027	Engr. Danish Majeed Dr. M. Sajid Ali	Patex Pvt. Ltd
		Kashan Noor	MM-21012		
03	Synthesis and Characterization of Silica Nanoparticles Through Chemical and Green Method for Gas sensor Application.	Syeda Sarah Zehra Zaidi	MM-21002	Dr. M. Sajid Ali Engr. Danish Majeed	SSGC
		Syed Muhammad Mohsin	MM-21039		
04	Sustainable Synthesis of Anode and Cathode for Sodium Ion Batteries.	Yahya Khokhar	MM- 21043	Dr. Faaz Ahmed Butt	Skyzone Technologic
		Fuzail	MM- 21045		
05	Development and Characterization of Organic based smart and active biodegradable thin film for food packaging applications	Maryam Batool	MM-21023	Dr. A. Rauf Jamali	
		Maryam Misbah	MM-21004		
06	Ceria Nanoparticles: Synthesis, Characterization, and Application in Hydrophobic Films	Sana Ahmed	MM-21029	Dr. M. Sajid Ali Engr. Danish Majeed	SSGC
		Javeria Faisal	MM-21028		
		Ayat al Akhras	MM-21022		
07	Copper-Ore Extraction and Development of Prototype set-up	Reyan Siddiqui	MM-21042	Prof. Dr. Fayaz Hussain Dr. M. Sajid Ali	Greengate Pvt. Ltd
		Muhammad Irbaz	MM-21040		
		Muhammad Hamza	MM-21044		
08	Design and Development of tools for friction stir spot welding of Aluminum Alloy	Muhammad Abu Huraira	MM-21018	Prof. Dr. M. Sohail	
		Muhammad Anas	MM-21032		

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09	Development of Functional Ceramics for energy Harvesting Devices	Binish wajahat	MM-21006	Prof. Dr. Fayaz Hussain Dr. M. Sajid Ali	
		Aleema fatima	MM-21001		
10	Development of Metal Matrix Composites (MMCs) using Friction Stir Processing (FSP)	Jawad Ahmed	MM- 21013	Prof. Dr. M. Sohail	
		Mukesh Anmol	MM- 21017		

FYDP Coordinator **Dr. M. Sajid Ali Asghar**

FYDP Steering Committee Head: **Dr. M. Sajid**

Chairperson: **Prof. Dr. Fayaz Hussain**