

Department of Materials Engineering
<MM-410> Final Year Design Project
Project List



FISOP/FYDP 02/03/00

Batch: 2022

Semester Fall 2025 + Spring 2026

S.No.	Project Title	Student Name	Supervisor/Co-Supervisor	Industry
01	Design and Development of Sustainable Triboelectric Nanogenerators For Energy Harvesting Applications	1. Emad Ahmed Siddiqui (MM-22020) 2. Muhammad Umar (MM-22037)	Dr. Muhammad Sajid Ali Asghar (Adv) Prof. Dr Fayaz Hussain (Co. Adv)	-
02	Development of Nano cellulose From Paper Waste For Biodegradable Applications	1. Alina Batool (MM-22017) 2. Faseeh Haider. (MM-22031)	Dr. Muhammad Sajid Ali Asghar Engr. M. Umair	SSGCL, Karachi
03	Development of sustainable bricks from recycled plastic and industrial waste	1. Laiba Batool (MM-22002) 2. Syed Waleed Ahmed (MM-22022)	Dr. Sajida Sheikh (Adv) Engr. Mudassir Farooq (Co. Adv) Engr. M. Tariq (Ind. Adv.)	Constructio n 2 Day
04	Synthesis and Characterization of Perovskite Ceramics for Different Electronic Applications.	1. Muahmmad Hassan Khalid (MM-22044) 2. Syed Muhammad Maqsood (MM-22021)	Prof. Dr. Fayaz Hussain (Adv.) Dr. Fahad Riaz (Co. Adv)	DUET
05	Design and Development of Transparent Wood Composite Incorporated with Downshifting Luminophores for Optoelectronic Applications	1. Urooj Fatima Muzaffar (MM-22018) 2. Habiba Ghulam Fareed (MM-22003)	Dr.Ing. Iftikhar Ahmed Channa (Adv.) Prof. Dr. Fayaz Hussain (Co. Adv)	MYD
06	Enhancing Weldability And Mechanical-Performance of Aluminum Alloy Using Nano filler Reinforcement	1. Syed Anas Muzammil (MM-22030) 2. Muhammad Farahat Ali (MM-22043)	Dr. Muhammad Sohail Hanif Engr. Danish Majeed	-
07	Synthesis and Characterization of Flexible Piezoelectric composites for energy Harvesting Devices	1. Hanzla Ajaz (MM-22023) 2. Muhammad Naqshband (MM-22042)	Prof. Dr. Fayaz Hussain (Adv.) Dr. Sajida Sheikh (Co. Adv)	
08	Design and development of Zinc doping in Sodium iron phosphate for ion Battery Applications	1. Yahya Bin Shuja (MM-22041) 2. Afza Khan Subhani (MM-22010)	Dr. Faaz Ahmed Butt (Adv.) Dr. Sajid Ali Asghar (Co. Adv.)	-

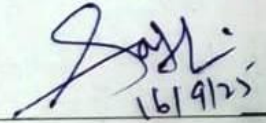
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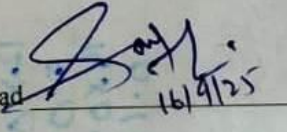
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09	Mitigation of thermal cracking in FC250A grey cast iron disc brakes through compositional changes for improved thermal conductivity and mechanical integrity	1. Muhammad Ahsan Zia (MM-22040) 2. Taha Mirza (MM-22048) 3. Abdul Rehman Qureshi (MM-22033)	Dr. Muhammad Sohail Hanif Dr. Abdul Rauf Jamali (Adv.) Engr. Shehzad (Co. Adv)	HEWL, Karachi
10	Improving the barrier performance of biodegradable films via incorporation of natural clay	1. Atika Bint e Arif (MM-22016) 2. Maryam Bint e Jamal (MM-22011)	Dr. Ing. Iftikhar Ahmed Channa (Adv.) Dr. Abdul Rauf Jamali (Co. Adv)	MYD
11	Synthesis, Characterization and coating of Mesoporous bioactive glass nanoparticles (MBGNs) for biomedical implants	1. Zunaira Amir Bajwa (MM-22013) 2. Meezab e Rehmat (MM-22001)	Dr. Muhammad Rizwan (Adv.) Dr. Sajid Ali Asghar (Co. Adv.)	MYD

FYDP Coordinator


16/9/25

FYDP Review Committee Head


16/9/25

Chairperson


16/9/25