

Department of Industrial & Manufacturing Engineering
IM-409: Final Year Design Project
Project List



I/SOP/FYDP 0

Batch: 2022

Semester: Fall – 2025

S.No	G.No.	Project Title	Student Name	Seat No.	Supervisor/ Co-Supervisor	Industry
1	G-1	Improving forklift operation efficiency through route standardization and optimization.	Sabika Zehra	IM-22082	Ms Javeria	IMC
			Munza Munir	IM-22086		
			Rimsha Qidwai	IM-22088		
			Areeba Waseem	IM-22091		
2	G-2	Intelligent Process Optimization for Maintenance Operation Using Lean and Six Sigma Methodologies.	Maheen Aslam	IM-22006	Mr. Zaid Khan	IMC
			Mirza Misbah Baig	IM-22060		
			M. Mahad Zoman Siddiqui	IM-22062		
			Sara Khan	IM-22314		
3	G-3	Data driven supply chain Optimization using machine learning	Muhammad Nehal	IM-22109	Mr Danish Saleem	TAPAL
			Maheen	IM-22007		
			Uzair Ali	IM-22093		
			Hafsa Ahmed	IM-22307		
4	G-4	Optimization of repair operations through repair job tracking, standardize work and defect out flow prevention.	Zulfisha Naveed	IM-22009	Mr Danish Saleem	IMC
			Wareesha Khalid	IM-22004		
			Sakeena Maqsood	IM-22015		
			Arooba Noor	IM-22016		
5	G-5	AI based smart predictive maintenance system.	Mutiba Iqbal	IM-22044	Mr Danish Saleem	GSK
			Kisa Alam	IM-22045		
			Ifra Naz	IM-22090		
			Huziata Khalid	IM-22095		
6	G-6	Profitability enhancement via AGV Integration and work force optimization in Industry 4.0.	Rabia Zubair	IM-22001	Mr. Zaid Khan	IMC
			Yumna Mughal	IM-22005		
			Ammra Azram	IM-22011		
			Syed Muhammad Hasnain	IM-22021		
7	G-7	Improving Productivity through Ownership and Predictive Maintenance on Assembly Equipments.	Talal Haanif	IM-22115	Ms Rabia Siddiqui	IMC
			Khizra Nadeem	IM-22083		
			Eman Arshad Khan	IM-22050		
			Shamail Asghar	IM-22051		
8	G-8	Implementation of TPM Methodology to enhance the efficiency of process, machine and system.	Rafia Zunnoor Khan	IM-22008	Ms Rabia Siddiqui	IMC
			Abeera Waheed	IM-22012		
			Umm e Hani	IM-22304		
			Namira	IM-22306		
9	G-9	AI Driven Production Scheduling Optimization Tool	Tahir Yousuf	IM-22024	Mr Danish Saleem	MATCO
			Khizer Jamal	IM-22301		
			Khula Yousuf	IM-22002		
			Arisha Fazal	IM-22014		
10	G-10	Quality Control Manpower Planning and Rationalization, using Time Study & Workload Analysis for enhancement of Operational Frequency.	Roosahan Ali	IM-22036	Ms Nailma Jaweed	THAL
			Adil Hassan	IM-22032		
			Tameer Hussain	IM-22318		
			Abdul Wassay	IM-22029		
11	G-11	Augmented Reality (AR) based Assembly line tracking system for industry 4.0	Ayesha	IM-22019	Dr Wasif	
			Anas Ali	IM-22052		
			Rehan Ahmed	IM-22059		
			Murtiza Haider	IM-22096		
12	G-12	Process Optimization and Waste Reduction in Diaper Manufacturing	Urooba Tanveer	IM-22047	Ms Rabia Siddiqui	ASAIA (ontex) Pvt.Ltd.
			Abdul Rehman Salim	IM-22080		
			Mahrak Khan	IM-22326		
			Maaz Irfan	IM-22104		
13	G-13	Enhancing Organizational Safety Culture through SOP revision & Document Control at IMC	Fizza Fatima	IM-22042	Dr Asim	IMC
			Syeda Rida Fatima	IM-22046		
			Aimen Khan	IM-22310		
			Iqra Mukhtar	IM-22313		
14	G-14	A digital framework for Procurement Optimization and Operational Excellence	Hafsa Jabeen	IM-22043	Mr Sulman	Alkaram
			Muhammad Sameer Nawar	IM-22061		
			Alli Hasnain	IM-22065		
			Romir	IM-22068		

15	G-15	Implementation Good Manufacturing Practices (GMP) in the food packaging division to meet industry standards and improve product's safety and quality	Hassan Ali	IM-22110	Mr Danish Saleem	THAL
			Umer Tanveer Shah	IM-22308		
			Elsa Haseeb	IM-22312		
			Sofia Khan	IM-22321		
16	G-16	Optimizing Inventory levels using predictive modeling and Machine Learning.	Muhammad Ishaq	IM-22054	MS Rabyia Zubair	LOADS
			Hasher	IM-22058		
			Anoosha Khan	IM-22323		
			Laiba Ahsan	IM-22322		
17	G-17	Development of Lean Management game using VR technique	Masooma Akram	IM-22092	Dr Wasif	
			Shaheer Qadri	IM-22094		
			Rameel Jawad	IM-22112		
			Zoha Moiz	IM-22315		
18	G-18	Digital Twin of CNC milling Process with Real Time Sensor Integration.	Syed Mubashir Hussain	IM-22069	Dr Wasif	
			Syed Baqar Hussain	IM-22079		
			Xeruck Agakan	IM-22055		
			Muhammad Abbas	IM-22056		
19	G-19	Optimization of High Speed Milling Operation for Aerospace Grade Material.	Hassan Ali	IM-22108	Ms Rabia Siddiqui	
			Baseer Imran	IM-22113		
			SM Ahsan rashid	IM-22106		
20	G-20	Design and Implementation of an automated sachet packaging with inspection system.	Arbab Shahid	IM-22022	Mr. Zaid Khan	Dipit
			Syed Hassan Ali	IM-22037		
			Syeda Areeba Bano Rizvi	IM-22010		
			Waniya Khan	IM-22316		
21	G-21	Data driven supply chain management system & optimization using machine learning	Shahood Saleem	IM-22076	Dr Wasif	
			Nabeel Siddiq	IM-22053		
			Muhammad Jawad Zahid	IM-22057		
			Muhammad Reeyan	IM-22028		
22	G-22	Optimization of warehouse operation in a Textile Chemical Industry through Layout redesign & Digital Framework.	Syed Mahdiya Mukhtar	IM-22039	Mr. Zaid Khan	
			Mariya Wadood	IM-22034		
			Syed Uzair Ali	IM-22027		
			M. Hamza Mohiuddin	IM-22026		
23	G-23	Optimizing inventory levels for imported spare parts using analytics	Abdul Moid Siddiqui	IM-22319	Dr Aqeel	
			Mohammad Bilal Siddiqui	IM-22063		
			Ilisa anis	IM-22089		
			Muhammad Saad Malik	IM-22070		
24	G-24	AI and IOT - Based Sustainable Production and energy efficiency Optimization.	Muhammad Umer	IM-22067	Dr Wasif	
			Burhanuddin Shabbir	IM-22074		
			Aiman Nagvi	IM-22311		
			Mahnoor Rashid	IM-22081		
25	G-25	Design and Development of an Automated Quality Inspection System Using AI for Textile Industry	Muhammad Yasir	IM-22097	Dr Shakeel	
			Maaz Bin Rais	IM-22102		
			Ashad Waqas	IM-22073		
26	G-26	Lean Energy Mapping of Utility Systems to eliminate carbon foot print in Manufacturing Operations	Lomech Javed	IM-22013	Mr. Zaid Khan	
			Muaviya Ali	IM-22031		
			Muhammad Maaz	IM-22017		
				IM-22035		
27	G-27	Design of Circumferential welding tool.	Anamta Liaqat	IM-22320	Mr Raheel Adeel	
			Asra Shariq	IM-22305		
			Hafsa Noman	IM-22302		
			Summalya Zahid	IM-22303		
28	G-28	Development of AI based corrosion detector with coating facility	Shaikh Hassan Javed	IM-22100	Mr. Zaid Khan	
			Yasir Farooq	IM-22103		
			Ayaan Ahmed	IM-22114		
			M. Nabeel Sheikh	IM-22325		
29	G-29	Toyota Innovative Multiple Vehicle Defects Prevention Strategy and its Implementation	Faizan	IM-22003	Ms Naima Jaweed	Thal/Engineering
			Jawwad Ahmed Khan	IM-22030		
			Muhammad Osama Sajid	IM-22040		
			Mahnoor Badar	IM-22087		

FYDP Coordinator

FYDP Review Committee Head

Chairperson