

Department of Industrial Engineering				
2K21 FYDP FINAL YEAR DESIGN PROJECTS LIST				
#	Supervisor	Topics	Reg. No.	Name
1	Prof. Dr. Mirza Jahanzaib	Recycling Collection for Recovered Paper and Pulp Recyclables using TOPSIS Technique	21-IE-17	Alishba Rizwan
			21-IE-38	Amail Fatima
2		Solving n Jobs and m Machines Scheduling Problems with Minimum Makespan	21-IE-29	Syed Huzaifa Irfan
			21-IE-57	M. Khizar Majeed
3		Energy generation Life Cycle Assessment and Management using Bioenergy	21-IE-13	M. Ali Sidique
			21-IE-39	Syed M. Zunair Gilani
4	Prof. Dr. Wasim Ahmed	Industry 4.0 Embedded Innovative Product Development	21-IE-9	M. Burhan ul Din
			21-IE-40	Abdul Rehman
5		Enhancing the Production using Lean with Simulation Modeling	21-IE-48	Muhammad Abdullah
			21-IE-50	Ammar Shafqat
6	Dr. Muhammad Khurram Ali	Development of a Multi Agent Deep Reinforcement Learning Model for Dynamic Investment Decisions	21-IE-33	Mujahid Ahsan
			21-IE-47	Hafiz Mohammad
7		Development of a Multi Agent Deep Reinforcement Learning Model for Product Marketing	21-IE-7	Talal Ahmed
			21-IE-11	Muhammad Tahir
8	Dr. Salman Hussain	Design of an Artificial Intelligence based Manufacturing Process for Sustainable Production	21-IE-25	Unzila Rehman Pracha
			21-IE-37	Syeda Umm-ul-baneen
9		An Intelligent Street Sweeper Robot for Suatainable Environment	21-IE-04	M. Iqbal Rawal
			21-IE-06	Sheraz Ahmed

10		A Smart Scheduling System for the Factories of Future	21-IE-26	Areeb Ahmed
			21-IE-42	M. Zain-ul-Abideen
11	Dr. Saifullah	Digital Twins based Prototype Flow Shop and it's Production Planning and Control	21-IE-15	Zainab Noor
			21-IE-31	Midhat Agha
12		An Innovative Ergonomic Design of Shoe Insole for Market Penetration	21-IE-51	Hamza Nadeem
			21-IE-53	Hasnain Riaz
13	Dr. Muhammad Sajid	Design and Development of Innovative Extrusion Machine for Recycleable Filaments	21-IE-27	Nmuhammad Huzaifa
			21-IE-56	Arslan Ahmed Hussain
14		Life Cycle Analysis and Cost Modeling of Metal Casting Process to Achieve Economic Sustainability	21-IE-03	Syeda Fatima Zaidi
			21-IE-16	Noor-ul-Fajar
15		Smart Gating System Design for Foundry 4.0	21-IE-10	Ahmed Javed
			21-IE-30	Muhammad Mujtaba
16	Dr. Zaheer Ahmad	The Performance and Cost Analysis of four stroke petrol engine using biofuel blends.	21-IE-12	Hamza Shahzad
			21-IE-24	Turab Ali
17		Design and Fabrication of Automated Guided Vehicle for A Small-Scale Industry.	21-IE-08	Tabish Ali Zunair
			21-IE-49	Muhammad Haris
18		Retrofitting of Automated Storage and Retrieval System (AS/RS)	21-IE-5	Ahmad Hammad
			21-IE-18	Zain Bin Amir
19	Engr. Zahid Rashid	Impact of ISO 9001:2015, 14001:2015 and 45001:2018 on Business Performance of Manufacturing Industries	21-IE-34	Ahmed Azeem Khan
			21-IE-36	M. Anas Liaquat
20	Dr. Aisha Tariq	Simulation-Based Optimization of Production Processes in SMEs	21-IE-19	M. Sajeel Tariq
			21-IE-22	Shaheer Ahmed

21	Dr. Aisha Tayyib	Digital Twin Development for Manufacturing SMEs	21-IE-20	M. Mubashir Hussain
			21-IE-46	Umair Anwar
22	Dr. Abid Ali	Smart Factory Design for SMEs Using Industry 4.0 Concepts	21-IE-23	M. Taha
			21-IE-43	M. Saad Khan
23		Big Data Analytics for Quality Control in Manufacturing SMEs	21-IE-01	Qudratullah
			21-IE-21	M. Ali Raza
24	Dr. Muhamad Jawad	Electric discharge machining of titanium alloy under different tool geometric paramters: A step toward sustainable approach	21-IE-14	Ali Sajjad
			21-IE-41	Sikandar Abbas