

**From:** Dr. Sheraz Hussain Siddique <[siddique@neduet.edu.pk](mailto:siddique@neduet.edu.pk)>

**Subject:** Final Year Project (MEB)

Dear Sir,

Department of Textile Engineering, NED University of Engineering & Technology offers final year design projects (FYDPs) to all the students (BE Textile Engineering & BSc. Textile Science programs) as it is the mandatory part of their degree. It is a practical course offered to the students having the worth of 200 marks, all the students have to pass this course in order to complete their degree.

A group of maximum four students can register for the project, these projects are offered to them in the third week of October and the projects are started in the first week of November every year. Each project is supervised by the faculty member of the department as a supervisor.

At the end of these projects we believe that the students will achieve the attributes of project management, communication, team player and get the awareness of finding the solution of the problems, ethical practices involved. Each project is related with the UN Sustainable Development Goals.

All the industries are requested to suggest the projects for the current Batch in the final year before 15th September 2023. For your guidance, I am attaching a list of 35 FYDPs with this e mail, these projects were conducted by different faculty members of the department in the current year. If you want you can choose the project form the list as well.

All the industrial partners are encouraged to collaborate with us by suggesting and conducting the FYDPs with us. If they commit for the project you have to provide all the resources in order to conduct and complete the project.

A maximum of two projects will be allowed from each industry, the project committee of the department will choose the project based on the availability of the expertise to conduct the project. I look forward for the positive response from your side.

Best Regards

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## BE Project List

No.	FYP Title
1	High Performance textile based composite system for retrofitting application group members.
2	Prediction of air permeability of multilayered textile structures
3	Parametric heat transfer analysis of yarn with and without PCM
4	Hybrid composites based on woven fiberglass and bagasse fiber reinforcement
5	To investigate the effects of different chemical finishes on properties of cotton twill fabric
6	Optimization of Effluent treatment plant
7	Development of reactive inks for Digital printing of cotton.
8	To estimate the sound transmitting properties of textile materials
9	Heat transfer analysis of functional composites
10	Fabric simulation by using CGI
11	Development and characterization of textile composite structures for sports
12	To analyze the effect of bleach washing on elastane in cotton fabric
13	To investigate the effect of fibrous materials on performance of asphalt mixtures
14	Investigation and optimization of process parameters of self-cleaning denim fabric using metal oxide nano particles
15	To Investigate the seam performance of laundered garment
16	Eco-friendly dyeing of cotton using salt-free multifunctional dyeing approaches
17	Experimental investigation of polyester-fibre reinforced cement composites

## BS Project List

No.	FYP Title
1	Manufacturing & Characterization of Bicycle Helmet
2	Sustainable development of waste wrapper fabric
3	Development of odorless clothing
4	Hand-Gesture Controlled, Textile Actuator Glove for Rehabilitation Applications
5	Effect of knit Fabric Parameters on Sportswear Functional Properties
6	Heat transfer analysis of composites with or without microencapsulating phase change material.
7	Manufacturing & Characterization of braided composites
8	To investigate the effect of different washes on Pumice Stone
9	A sustainable transition for Pakistan Manufacturing and Packaging of Disaster Relief Blanket
10	Development of textile based triboelectric nanogenerators for energy harvesting
11	Thermal Characterization of Printed Heating Elements & Performance Enhancement
12	Investigate The Effects Of Various Process Parameter On Dyeing & Printing of low temperature dye-able Polyester (Pbt)
13	Development of eco-friendly water repellent finish for durable washing
14	Development of Sensing Platform embedded Shirt for ambulatory monitoring of vital signs.
15	Application of Artificial Intelligence and Machine Learning in Operational Planning of Textile Production
16	Dyeing of cotton fabric with banana leaves with various mordanting techniques
17	Removal of Particulate Matter (PM) with Biomass-Based Air Filters
18	Softening of Lingocellulosic Fibers for Textile Application