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Roll No: F2019-445

Assignment: Final assignment

Material Technology is a course that talks about multiple materials used in the world of textile and fashion. This course has been taught to us by Sir Kamran Nawaz, he is the finest instructor one can ask for. This course introduced us to modern textile materials and their impacts on the environment. We dived deeper into our textile industry. We not only studied its benefits, advantages, uses, but the damage it has done to our ecosystem. We learned about innovations where science and nature were fused. New technologies that made our life easier. New fabrics and their process are made more environment friendly. Innovations that are environmentally friendly. We are now fighting for conserving our environment, reducing water and air pollution. Boycotting the old methods of production of fabrics that created tons of waste and was harmful to the environment. Water which is very essential for our survival was depleting because of our traditional methods of dyeing. Air dyeing technology has solved this problem. We learned about certain materials like yarns and fabric, how they are made from scratch, their properties, and their uses. We also talked about phase change materials its applications in different fields and accessories. The incorporation of textile materials with nontextile materials have introduced us to a new concept. Being a fashion student, this subject benefited me by providing information about the fashion world. I have learned a lot of new stuff that I didn't know about fashion. Fashion is evolving every day, so new fibers and techniques are introduced to make things attractive. Just

like that, we studied fabrics which have LED's knitted into them, technologies like collaborating digital technology and computer 3D graphics to create futuristic fabrics and textiles.

Microencapsulation of fragrances into fibers. Nanotechnology making it difficult

for dirt to stick to the fabrics. All these advancements have revolutionized the world of textile.

We have learned about various yarns with innovative technologies like phosphorescent yarns that would glow brightly in dark. One of the most salutary things that I have acquired is problem-solving, finding solutions to problems. Some assignments made us explore the fields of textile and look for possible solutions to problems. I have learned textiles aren't only related to clothing field it's much more diverse and has applications in many fields like; Architecture, Arts, Science, Aerospace, Medical, etc. Artists today are using weaving, dyeing, printing, etc in their works.

Architecture exists to create the physical environment in which people live. The use of extremely lightweight

polymer substances in the replacement of traditional building materials has been made possible due to material technology. The latest textile materials making has made it possible to realize the concept of smart and responsive building systems. We have realized the importance of ecofriendly textiles, textile recycling, and the concept of sustainable materials for textile manufacturing. This module has made us realize that the future of textiles lies in the development of new materials, fibers, and fabrics. The information which was fed to us has broadened my vision. This module has undoubtedly aided me to enhance my understanding of fabrics and technologies and I am looking forward to implementing this information into my life and profession.

