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India develops technology to manufacture affordable & effective anti-viral fabric

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Anti-viral fabric Ã¢â?¬Ë?Fabium' destroys 99.9% microbes within 30 minutes



After three years of rigorous research & development, Fabiosys Innovations, a deep-tech healthcare startup incubated at the Indian Institute of Technology Delhi (IIT-D), has developed an extremely affordable high-performance medical textile Fabium, which destroys ~ 99.9% of the bacteria and viruses within 30 minutes.
Ordinary antimicrobial fabric products available in the market inhibit microbes in a span of 24 hours and that too with an unsatisfactory efficiency. This time span of 24 hours makes those antimicrobial fabric products impractical to be used in everyday life because a typical bacterium doubles itself in a span of around 20-30 minutes.

Fabium is developed using a technology called Hi-PAT, which makes it highly effective against bacteria, viruses, and fungi. Fabium starts working within seconds of contact with the pathogens.

The team has successfully completed large scale manufacturing trials in collaboration with a textile industry partner in Delhi-NCR region to ensure that the large scale fabric manufacturing can be done while maintaining its high-efficiency and affordability.

Fabiosys was recognized as one of the most promising startups by IIT Delhi Alumni Association having won the “IIT Delhi Alumni Faculty & Startup Awards 2021”.