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UPTTI Experts Made Fabric Neutralized with UltraViolet Rays

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Why in News

Recently, experts of **Uttar Pradesh Institute of Textile Technology (UPTTI)** have designed a fabric which is not affected by sunlight and ultraviolet rays.

Key Points

- The fabric is **made from nylons derived from the bio-polymer lignin**, a plant-derived plant originating in South Africa.
- This cloth will also give relief to the people from the scorching heat and will also be comfortable for the body.
- UPTTI got this research published in the Polish Journal and has also applied for a patent for this technology.
- The **bio-polymer lignin is used in building and road construction in South Africa**, but it is the first time it has been used in textiles by experts at UPTTI.
- This technique is 1/3 times cheaper than the dye used in clothing. Dye can also harm the human body, but clothes made from this technology are completely safe for human use.
- This technology has been developed by Prof. Arun Singh Gangwar in collaboration with Prof. Prashant Vishnoi.
- **UV (Ultra Violet) rays** cause sunburn, body rash, skin cancer and many other types of problems. With the development of this technology these problems can be reduced.
- According to Prof. Gangwar, the ability of the fabric to absorb UltraViolet rays depends on the **UltraViolet Protection Factor (UVPF)**. UVPF is considered good between 15 and 24, very good between 25 and 39 and best between 40 and 45.