

Crafts and Textiles

Technology: Gitara ni Juan

Description: Gitara ni Juan are high-quality and affordable local guitars made from Philippine wood and developed using standardized guitar-making processes in terms of design, consistency, intonation, sound quality, strength, stability and playability.

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CD-1

Technology: CNC Router “Super Lilok”

Description: A combination of a router and computer numerical control device, Super Lilok can capture sophisticated designs by cutting and engraving on wood, metals or acrylics. Its speed can be adjusted via a software controller, resulting to higher production yield and work efficiency, and consistent and uniform output.

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Crafts and Textiles

CD-2

Technology: Modified Handloom Weaving Machine

Description: PTRI's modified handloom weaving machine has a new and sleek design using metal and wood. This makes it more efficient to weave natural dyed fibers from abaca, banana, pineapple and other indigenous materials.

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CD-3

Technology: Innovation Center for Yarns and Textiles: Spinning Process

Description: PTRI's Innovation Center for Yarns and Textiles has a newly acquired ring spinning machine which spins local fibers, such as abaca, banana and pineapple, into yarns that can be used by handloom weaving communities and commercial millers or knitters in the country.

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CD-4

Technology: PTRI-Developed Natural Dyes Technologies

Description: The Philippine Textile Research Institute of the DOST champions the revival of natural dyes with the use of scientific methods and techniques. The extraction of natural dyes from over a hundred dye-yielding plants, conversion of these dyes to powder form, and scaled-up natural dyeing are technological improvements paving the way for an accelerated entry of natural dyed materials in the market. To this, silkscreen printing pastes and textile paints, currently in the research and development pipeline, add another value proposition.

An alternative to harmful synthetic dyes, natural dyes present possibilities for growing your own color and reverting to traditional dyeing with technological intervention from DOST-PTRI.

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CD-5

Technology: Twining / Twisting Machine

Description: The twining/twisting machine simplifies and fine tunes the twining and twisting process for textiles into one machine. The machine also has a suitable warping frame intended for twined/ twisted indigenous fiber materials.

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PTRI-developed twining machine with twisting attachment

CD-6

Technology: Geo Handloom Machine

Description: The geo handloom machine is a special type of loom with specific reeds, harnesses and cloth beam and has a modified warping mechanism to help in the production of geotextile nets and mats.

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