

FACTSHEET – Perfumery and Cosmetic Science Centre

Singapore Polytechnic set up the Perfumery and Cosmetic Science Centre to provide authentic learning experiences for students. The centre is strategically divided into three specific sensory training sections – Conceptualisation, Crystallisation and Communication.

Conceptualisation Room

- This sensory training section provides an inclusive space where students brainstorm new ideas for the product development of personal care cosmetics and fragrances.
- Included in this section are cubicles with movable writable walls where students are able to visually map out ideas either individually or in teams.
- On display are various personal care items such as cosmetic containers and perfume bottles samples, which aid students in the conceptualisation process.

Crystallisation Room

- This training area is where students develop the personal care products theorised in the Conceptualisation area.
- This area supports the formulation, synthesis and extraction of ingredients, training students how to create usable personal care products.
- Students are able to evaluate the applicability of their personal care products through equipment such as shower booths, humidity chambers, hair-wash chairs and washing machines housed in this area.
- This area also houses several industry-based equipment for the formulation of personal products, such as,

- a) An accelerated solvent extractor system that extracts fragrance oils from natural resources
- b) A Rudolph's refractometer and densitometer which tests the quality of the ingredients to be used in formulations
- c) A penetrometer that tests the consistency and texture of personal care and cosmetic products, such as lipstick and moisturising creams
- d) A complete skin investigation system that examines skin conditions such as degree of hydration, sebum production, skin tone, elasticity, pH, and pre-mature aging.

Communication Room

- An experimental space, this area houses sensory chambers where students can evaluate scents and cosmetics and determine their practical application and business marketability.
- This area features market perfumes sponsored by NUANCE-Watson which allows students to examine their finished products against that of the industry standard.
- On display are samples of successful student formulations that have been commercialised. These include,
 - a) Romancing Singapore, 2004: 3000 bottles sold out within 9 days in local department stores.
 - b) Romance Singapore, 2004: sold in local departmental stores from 2004 to 2007.
 - c) Romance II Singapore, 2008: sold in local departmental stories from 2008 to 2012.
 - d) Mangrove Scent, 2012: a student formulation that was exhibited at the World Expo at Yeosu, Korea.