



Dr. Pham Thi Hong Phuong



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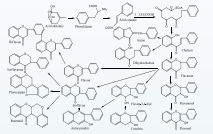
- Dyeing & printing technology for textile materials
- Color chemistry
- Natural dyes for Industrial Application
- Natural Compounds
- Specializing in training and consulting

Education:

- B.S: Chemical Engineering (HCM City University of Technology, 2001)
- Mc.S. Chemical Engineering (HCM City University of Technology, 2005)
- Bachelor of English Literature (Ho Chi Minh City Open University, 2014)
- Doctor: Chemical Engineering (Hanoi University of Science and Technology, 2016)

Experience:

- Lab Staff: Giditexco, Binh Thanh District, Tp.HCM (2001 - 2002)
- Sale Executive: Tan Chau co., Tan Binh District, Tp.HCM (2002 - 2006)
- Head of Department Chemical Technology_Materials; Chemical Engineering Department, IUH (2006 - present)



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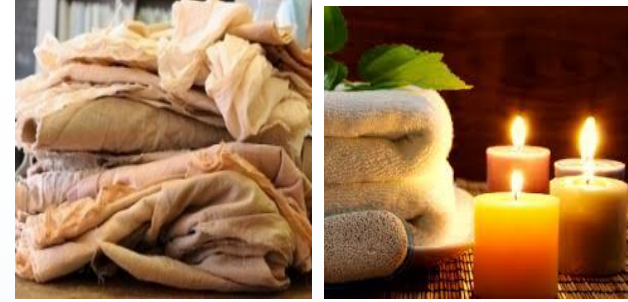


Experience of specialize:

- Specializing in research, training, consulting and technology transfer on:
 - [1]. Natural colors, textiles, organic fabrics, dyeing and printing techniques and sustainable fashion;
 - [2]. Natural compound products, essential oils, cosmetic and personal care products;
 - [3]. Valuable applied products from waste products and by-products of agriculture and other industries;
 - [4]. Materials for dyeing wastewater treatment and other industries.
- Expert in training, consulting, improving production, enhancing competitiveness and managing businesses under the supporting industry program of the Ministry of Industry and Trade, Ministry of Science and Technology;
- Specializing in training and consulting: Skills for managing incubation projects, startups and innovation, managing start-up businesses, managing technology and intellectual property, supporting businesses in registering their property. intellectual property, ISO certifications.



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Research interest:

1. Natural compounds and color science:
 - Extracting and testing natural compounds from plants: *Structural chemistry, biological activities...*
 - Color science: *color natural for dyeing textile, color natural for food technology*
2. Organic fabric technology, textile dyeing and dyeing textile materials with natural pigments, wastewater treatment
 - Organic fabric technology: *Fabrics from Banana tree, pineapple leaves, water hyacinth, tiger tongue tree*
 - The dyeing and printing technology of textile materials by new method: *Microwave, ultrasound...*
 - Dyeing process for textile materials (cotton, silk, polyamide, polyester ...) with aqueous extracted from: *Diospyros Mollis, Mangosteen Pericarp and other natural dyes...*
 - Wastewater treatment: *Textile, dyeing, printing and others industry...*
3. Surfactant technology, cosmetic fragrances, personal care products, leather tanning technology, paint, plastics; Organic Synthesis in industry.



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List of publication Research

1. Head of 1 project and secretary of 1 project in 2022 at ministerial level, accepted in December 2022;
2. Head of ministerial-level project 2021, accepted in December 2021: "Training human resources, providing technical advice, improving production and working environment to increase competitiveness for textile-dyeing enterprises-sewing in the southern region";
3. Head of the 2020 Ministry-level project, accepted in December 2020: "Management training, technical support, production improvement, product quality improvement and environmental treatment for textile and garment enterprises";
4. Head of the school-level project, accepted: "Design of a pilot system to extract natural color compounds combined with dyeing textile materials"; Subject code: 171.4101; Contract No. 17/HD-ĐHCN, dated 12/4/2017;
5. Head of the school-level project, accepted: "Research on the process of dyeing silk fabric with an extract from mangosteen peel applied on a self-designed winch dyeing machine model"; Topic code: 1502; Contract No. 258/HD-DHCN-KHCN, dated April 3, 2012;
6. Participating in a ministerial-level project and has been accepted, registration number: 2019-24-1146/KQNC: "Research, design and manufacture a freezer model with electromagnetic field support in food to improve product quality";
7. Participate in the 2020 school-level project: "Research on production technology and manufacture of composite polymer flooring materials from scrap leather fibers";
8. Participate in a school-level project: "Research on the process of producing color-evening aids from waste oil for application in dyeing technology";
9. Participating in the university-level project: "Research on the process of dyeing silk fabrics with extracts from colored cashews";
10. Technology transfer: Contract to transfer the formula for producing antibacterial water with VT-Cons Cosmetics company 1/2020; and 10 technology transfer contracts with textile dyeing enterprises;
11. Patent in 2020 with members of BKHN University, Patent number: 25697; Decision No: 12891w/QD-SHTT
12. Patent in 2023 with members of BKHN University, Degree number: 25697; Decision No: 97w/QD-SHTT
13. 31 scientific articles in ISI_Scopus magazine (5 articles), domestic magazines, domestic and international conferences;
14. Participating in a graduate training course: "Natural Compounds" has been accepted for 12/2021
15. Editor of a university training textbook: "Dyeing technique" for acceptance 8/2023.

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OTHER KNOWLEDGE, EXPERIENCE:

- Having 22 years of experience in production, teaching, consulting and production management in the textile and dyeing industry, used to be a business development project specialist, is currently the head of the Department of Chemical and Materials Technology and has capacity to connect businesses in the fields of Chemical Technology and materials such as textiles and dyeing, leather and footwear, plastic, paper, tanning... learn in practice.
- As one of the participating members in the 5S Committee (Jica project) of Ho Chi Minh City University of Industry. HCM
- Being one of the 200 members (teamleader) of the Vietnamese consultant training project organized by the Department of Industry, granted the Certificate of Expert in Production and Quality Improvement Implemented production and quality improvement. at Gia Phat Desiccant Production Co., Ltd (Supporting Industry Development Program 2019 jointly implemented by the Ministry of Industry and Trade - Samsung Group).
- Join Phong Phu Textile and Garment Corporation in a project in conjunction with CleanDye to introduce clean production technology with the support of dyeing equipment according to the mechanism of using supercritical CO₂ in 2019
- Project manager: Project under Supporting Industry, Department of Industry Industry, Ministry of Industry and Trade:
 - ✓ 2020: "Management training, technical support, production improvement, product quality improvement and environmental treatment for textile and garment enterprises"
 - ✓ 2021: "Human resource training, technical consulting, production improvement and working environment to increase competitiveness for textile, dyeing and garment enterprises in the southern region"
 - ✓ 2022: "Experimental production and natural dyeing of finished fabrics from banana and pineapple fibers for the garment industry" And project: "Management training, technical consulting, production improvement and working environment to increase competitiveness for textile enterprises in the Central and North Central regions"
- From October 2022 to present, supporting Departments of Science and Technology of Binh Thuan and Tay Ninh provinces: connecting trade promotion, training, mentoring and judging startup competitions in provinces and schools university and National Techfest.

