Pharmacognosy is an important discipline in the Pharmacy curriculum in Iran. The branch is focusing on natural products research, traditional medicine, ethnobotany and phytochemistry from plant, marine and other life origins on both analytical and preparative scale. Department of Pharmacognosy is located in the Faculty of Pharmacy, an integral part of the Tabriz University of Medical Sciences.

Department of Pharmacognosy is committed to provide outstanding training in the natural sciences through accredited programs and to conduct quality research at international level. Our Department is equipped with efficient devices and instruments, offering scientific research opportunities at the research labs under the supervision of experienced subject specialists and competent academic staff.

Our Mission is to train competent high-skilled pharmacists and scientists equipped with the knowledge, skills and values required to perform scientific research at the highest levels by integrating multidisciplinary approaches. We aim to be the implementer and pioneer in conducting research of which results will contribute in science and improve the quality of life standards of our society as well as humanity.

Phrmacognosy Courses:

Advanced Plant Biochemistry
Objective: Understanding the primary metabolite production systems in plants

Plant communities and ecological issues in Iran
Objective: Identification of the plant community's ecology in Iran

Economic and marketing of natural raw materials and phytomedicines
Objective: Identification of issues and economic factors influencing the marketing of crude plants materials and phytomedicines

Medical information systems
Objective:
Introduction to statistical softwares
Recognition of pharmacognosy databases

Advanced Organic Chemistry
Objective: Learning Advanced Organic Chemistry as a base course and recognizing different chemical groups of natural compounds

Advanced methods of instrumental analysis
Objective: Ability to identify and determine the molecular structure of natural compounds Contents

Extraction, isolation and identification of natural products
Objective: Acquiring ability and skills to perform all forms of extraction, isolation and identification of natural products

Advanced phytochemistry

Objective:

Identifying and assessing the biosynthetic pathways of biomaterials
Understanding the chemical structure of the compounds generated in the secondary biosynthetic pathways

Industrial processing of Medicinal Plants

Objective: Familiarity with devices and industrial process for the preparation and storage of the plant material used in the herbal preparations

Control of natural products

Objective:

Understanding different methods for Control of natural products
Industrial processing of Medicinal Plants
Ability to perform Control of natural products

Phytotherapy and medicinal plants informations

Objective: Understanding the application of medicinal plants in the treatment of diseases

Iranian Traditional Medicine

Objective: Familiarity with Iranian Traditional Medicine

Featured topics in pharmacognosy

Objective: Understanding other important issues of the day in pharmacognosy

Plant cell and tissue culture

Objective:

Introduction to plant cell and tissue culture techniques for the production of plant metabolites
Ability in performing plant cell and tissue culture techniques for the production of plant metabolites

Fermentation and genetic engineering

Objective: Learning about the fermentation and genetic engineering methods products