

CHEMISTRY

ABOUT US



The Department of Chemistry was established in 1964 with the following mission and objectives:

- To produce graduates with the requisite all around knowledge and capability to build successful professional careers for themselves, not only in chemistry but also in other fields.
- To produce graduates with the capability to continue their further higher education and with an aptitude for research.
- To produce high quality research outcome and cutting-edge innovation.

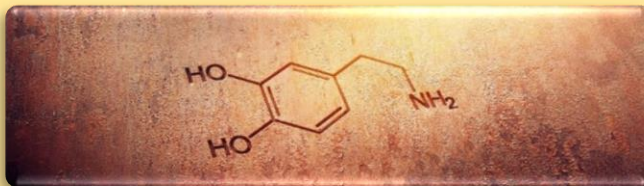
The Department of Chemistry has two recently renovated buildings equipped with modern laboratory facilities, and a new building of chemistry laboratories with world-class safety and standard.



ACADEMIC

In order to achieve our aforementioned aims of the offered curricula, the Department of Chemistry offers undergraduate programs which are sufficiently flexible in their design and choice of electives to cater for all needs.

During their study programs, students receive through instructions in the basic principles of chemistry supplemented by instruction in mathematics, physics, biology, social sciences and humanities. Each program also aims to stimulate and develop an aptitude for research work. The means for this development is included in the curriculum in the form of a fourth year research project (Special Problems in Chemistry & Special Problems in Biochemistry & Biochemical Technology) which provides the student with the opportunity to demonstrate his/her capacity for creative thinking.



Faculty Members

Aphiwat TEERAWUTGULRAG, PhD (Organic Chemistry)
Apinpus RUJIWATRA, D.Phil. (Solid State Chemistry)
Aroonchai SAI AI, Dr. rer. nat. (Organic Chemistry)
Burapat INCEESUNGVORN, PhD (Chemistry and Chemical Eng.)
Chamnan RANDORN, PhD (Chemistry)
Chanida PUANGPILA, PhD (Analytical Chemistry)
Chanisorn NGAOJAMPA, PhD (Pharmacy)
Chommanad SAWADEEMIT, MS (Chemistry)
Chumni SANGPHAGDEE, PhD (Materials Science)
Hataichanoke NIAMSUP, PhD (Biochemistry)
Jaroon JAKMUNEE, PhD (Chemistry)
Jidapha TINOI, PhD (Biotechnology)
Kanarat NA LAMPANG, PhD (Chemistry)
Kanchana DUMRI, Dr. rer. net. (Bioorganic Chemistry)
Kate GRUDPAN, PhD (Analytical Chemistry)
Kiattikun MANOKRUANG, PhD (Materials Science and Eng.)
Kongkiat TRISUWAN, PhD (Organic Chemistry)
Kontad OUNNUNKAD, PhD (Chemistry)
Kritsana JITMANEE, PhD (Analytical Chemistry)
Lalida SHANK, PhD (Biochemistry)
Laonguan SRISOMBAT, PhD (Chemistry)
Mookda PATTARAWARAPAN, PhD (Chemistry)
Naprapa PROMSAWAN, PhD (Organic Chemistry)
Narin LAWAN, PhD (Chemistry)
Nawee KUNGWAN, PhD (Physical Chemistry)
Nopakarn RATTANAKIT, PhD of Engineering (Biotechnology)
Nuchnipa NUNTAWONG, PhD (Pharmacy Chemistry)
Nuttee SUREE, PhD (Biotechnology and Molecular Biology)
Padchane SANGTHONG, PhD (Biomolecular Science)
Pakawan PUANGSOMBAT, PhD (Organic Chemistry)
Panchika PRANGKIO, PhD (Biomedical Engineering)
Paralee WAENKAEW, PhD (Chemistry)
Patnarin WORAJITTIPHON, PhD (Nanoscience and Nanotech.)



Undergraduate Curriculum

B.S. (CHEMISTRY)

First Year

Fundamental English 1
Chemistry 1
Calculus 1
Basic Biology 1
The World of Science

Fundamental English 2
Integrated Mathematical Sciences
Chemistry 2
Calculus 2
Basic Biology 2
Physics 1

Second Year

Critical Reading & Effective Writing
Organic Chemistry 1
Physical Chemistry 1
Fundamental Analytical Chemistry
Mathematics in Chemistry
Safety in the Laboratory

English in Science & Technology
Organic Chemistry 2
Inorganic Chemistry 1
Physical Chemistry 2
Electroanalytical Chemistry
Humanities & Social Sciences (3)
Learning through Activities (1)

Third Year

Organic Spectroscopy
Inorganic Chemistry 2
Physical Chemistry 3
Physical Chemistry 4
Instrumental Analysis 1
Instrumental Analysis 2

Learning through Activities (2)
Organic Chemistry 3
Inorganic Chemistry 3
Instrumental Analysis Laboratory
Job Training
Introductory Biochemistry
Humanities & Social Sciences (3)

Fourth Year

Seminar in Chemistry
Special Problems in Chemistry
Major Electives (6)
Free Electives (3)

Major Electives (8)
Free Elective (3)

B.S. (BIOCHEMISTRY & BIOCHEMICAL TECHNOLOGY)

First Year

Fundamental English 1
Chemistry 1
Calculus 1
Basic Biology 1
The World of Science

Fundamental English 2
Integrated Mathematical Sciences
Chemistry 2
Calculus 2
Basic Biology 2
Physics 1

Second Year

Critical Reading & Effective Writing
Organic Chemistry 1
Analytical Chemistry
Elementary Statistics
Learning through Activities (1)

English in Science & Technology
Organic Chemistry 2
Physical Chemistry
Microbiology
Free Electives (3)

Third Year

Instrumental Methods for Chemical Analysis
Biochemistry 1
Humanities & Social Sciences (3)
Free Electives (3)

Learning through Activities (2)
Biochemical Methods
Biochemistry 2
Instrumentation for Biochem Tech.
Industrial Training
Carbohydrate Technology
Protein Technology

Fourth Year

Gene Expression and Gene Tech.
Lipid Technology
Enzyme Technology
Biochem. of Industrial Fermentation
Major Electives (3)

Seminar in Biochemistry
Special Problems in Biochemistry
Major Electives (3)
Humanities & Social Sciences (6)

Pensiri SRIBURI, PhD (Agricultural Biochemistry)
Phumon SOOKWONG, PhD (Agricultural Science)
Pitchaya MUNGKORNASAWAKUL, PhD (Environmental Science)
Piyarat NIMMANPIPUG, PhD (Physical Chemistry)
Praput THAVORNYUTIKARN, PhD (Inorganic Chemistry)
Puttinan MEEPOWPAN, PhD (Organic Chemistry)
Runglawan SOMSUNAN, PhD (Material Eng. and Materials Design)
Saengrawee SRIWICHAI, PhD (Chemistry)
Saranphong Yimklan, PhD (Chemistry)
Sila KITTIWACHANA, PhD (Chemistry)
Sirirat CHANCHARUNEE, PhD (Organic Chemistry)
Sittichai WIROJANUPATUMP, PhD (Mat. Eng. and Mat. Design)
Somchai LAPANANTNOPPAKHUN, PhD (Chemistry)
Somporn CHANTARA, Dr. rer. nat. (Biogeography)
Sorapong JANHOM, PhD (Chemistry)
Sugunya MAHATHEERANONT, PhD (Organic Chemistry)
Sukjit KUNGWANKUNAKORN, PhD (Analytical Chemistry)
Sulawan KAOWPHONG, PhD (Materials Science)
Sunanta WANGKARN, PhD (Chemistry)
Surin SAIPANYA, PhD (Physical Chemistry)
Teraboon POJANAGAROON, PhD (Chemistry)
Thapanee SARAKONSRI, PhD (Materials Science and Eng.)
Thiti JANPIROM, MS (Organic Chemistry)
Thunwadee RITTHIWIGROM, PhD (Organic Chemistry)
Tinakorn KANYANEE, PhD (Chemistry)
Titipun THONGTEM, PhD (Chemistry)
Urai TENGJAROENSAKUL, PhD (Analytical Chemistry)
Verasak SAHACHAISAREE, MS (Biotechnology)
Wan WIRIYA, PhD (Environmental Science)
Watthanachai JUMPATHONG, PhD (Applied Biosciences)
Wimol NAKSATA, PhD (Chemistry)
Winita PUNYODOM, PhD (Physical Chemistry)
Wong PHAKHODEE, PhD (Organic Chemistry)
Woraluk ANGSUWARANGGOON, MS (Food Science)
Worraanong LEEWATTANAPASUK, PhD (Microbiology)

Available Graduate Programs:

- MS (Chemistry)
- PhD (Chemistry) (*Int'l Program*)
- MS & PhD (Biotechnology)
- MS & PhD (Environmental Science) (*Int'l Program*)

For more detail about the program, electives and course description, please visit the following website.

