

سوابق علمی و تحصیلی



مشخصات عمومی:

سعید یوسفی نژاد

دکترای تخصصی

عضو هیات علمی تمام وقت (دانشیار) گروه مهندسی بهداشت حرفه ای - دانشگاه علوم پزشکی شیراز

عضو هیات علمی (دانشیار) مرکز تحقیقات علوم بهداشتی - دانشگاه علوم پزشکی شیراز

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تحصیلات و دوره های تخصصی

- پسا دکتری، شیمی تجزیه زیستی - دانشکده علوم، بخش شیمی، دانشگاه شیراز (دیماه ۱۳۹۳ - دیماه ۱۳۹۴)
- پسا دکتری، شیمی پروتئین - موسسه تحقیقات بیوشیمی بیوفیزیک، دانشگاه تهران (آبان ۱۳۹۱ - آبان ۱۳۹۳)
- دکتری، شیمی تجزیه - دانشکده علوم، بخش شیمی، دانشگاه شیراز (۱۳۸۶ - اردیبهشت ۱۳۹۱)
- کارشناسی ارشد، شیمی تجزیه - دانشکده علوم، بخش شیمی، دانشگاه شیراز (۱۳۸۴ - ۱۳۸۶)

سوابق اجرایی

- مدیر گروه مهندسی بهداشت حرفه ای و ایمنی کار ، (شهریور ۱۴۰۱ تا کنون)
- مدیر مجموعه آزمایشگاههای دانشکده بهداشت (۱۳۹۴ تا کنون)
- عضو شورای مرکزی آزمایشگاه مرکزی تحقیقات دانشگاه علوم پزشکی شیراز (۱۳۹۷ تا کنون)
- عضو کمیته ارتباط با صنعت دانشکده بهداشت، دانشگاه علوم پزشکی شیراز (۱۳۹۸ تا کنون)

سوابق عضویت، افتخارات و جوایز

- ۱- پژوهشگر برتر دانشگاه علوم پزشکی شیراز (۱۳۹۶)
- ۲- پژوهشگر برتر جوان دانشگاه علوم پزشکی شیراز (۱۳۹۸)
- ۳- دریافت گرنت پژوهشگران برتر، دانشگاه علوم پزشکی شیراز (۱۳۹۶-۱۳۹۷)
- ۴- پژوهشگر دارای بیشترین مقالات ISI با ضریب تاثیر بالا در دانشکده بهداشت ۱۳۹۷
- ۵- استاد مشاور برتر دانشکده بهداشت منتخب در دانشگاه علوم پزشکی شیراز ۱۳۹۷
- ۶- پژوهشگر برتر دانشکده بهداشت ۱۳۹۸
- ۷- برگزیده جایزه مرحوم کاظمی آشتیانی، بنیاد ملی نخبگان (تایید ۱۴۰۰)
- ۸- استاد نمونه آموزشی دانشکده بهداشت ۱۴۰۱
- ۹- دریافت گرنت فناوری پنجمین دوره شهید احمدی روشن، بنیاد ملی نخبگان به عنوان استاد نخبه هسته (۱۳۹۹)
- ۱۰- دریافت دو گرنت تحقیقاتی مقالات نشر شده در مجلات با SNIP برتر از دانشگاه علوم پزشکی شیراز (۱۳۹۶)
- ۱۱- دریافت دو گرنت تحقیقاتی مقالات نشر شده در مجلات با SNIP برتر از دانشگاه علوم پزشکی شیراز (۱۳۹۷)
- ۱۲- دریافت سه گرنت تحقیقاتی مقالات نشر شده در مجلات با SNIP برتر از دانشگاه علوم پزشکی شیراز (۱۳۹۸)
- ۱۳- دریافت گرنت استادیاران جوان برتر دانشگاههای علوم پزشکی، وزارت بهداشت درمان و آموزش پزشکی (۱۳۹۷)
- ۱۴- محقق برجسته جوان زیر ۳۵ سال در حوزه علوم پپتیدی، به انتخاب انجمن بیوشیمی فیزیک ایران (۱۳۹۳)
- ۱۵- دریافت گرنت پسادکتری از بنیاد علم ایران (صندوق حمایت از پژوهشگران و فنآوران) (۱۳۹۳)
- ۱۶- دریافت بورس پسادکتری بنیاد نخبگان در گروه تحقیقاتی پروفیسور موسوی موحدی (برگزیده جایزه علامه طباطبائی)، دانشگاه تهران (۱۳۹۱)
- ۱۷- عضو دفتر استعدادهای درخشان دانشگاه شیراز (۱۳۸۹-۱۳۹۱ فارغ التحصیلی)
- ۱۸- عضو مورد حمایت بنیاد ملی نخبگان ایران (از ۱۳۹۰ تا ۱۳۹۴ - سه سال پس از فارغ التحصیلی)
- ۱۹- عضو انجمن شیمی ایران
- ۲۰- عضو انجمن بیوشیمی فیزیک ایران
- ۲۱- عضو انجمن پپتید ایران

تخصص های تحقیقاتی

- کروماتوگرافی (GC, HPLC, MS) و کروماتوگرافی یونی
- سنتز نانو مواد کاربردهای تجزیه ای آنها
- اسپکتروسکوپی فلورسانس مولکولی
- اسپکتروسکوپی دورنگ نمایی دورانی
- اسپکتروسکوپی مولکولی ماوراء بنفش-مرئی
- اسپکتروسکوپی جذب اتمی
- استخراج فاز جامد و مایع
- کمومتریکس و کمو انفورماتیک (کالیبراسیون دوراهه و چند راهه، طراحی آزمایش چند متغیره، طبقه بندی)
- مدلسازی ارتباط ساختار-تابع در مولکولهای کوچک و پپتیدها

علاقه مندیهای تحقیقاتی

❖ آنالیز و اندازه گیری مواد شیمیایی دارای خطر زیست محیطی - شغلی

- ❖ توسعه روش آنالیز و استخراج ترکیبات فرار
- ❖ شیمی تجزیه زیستی
- ❖ آنالیز و شیمی محیط زیست
- ❖ شیمی پروتئین و کمومتری پروتئین
- ❖ نانو شیمی و کاربرد در آنالیز شیمیایی
- ❖ برهمکنشهای آلاینده های شغلی و محیطی با سیستمهای زیستی
- ❖ آنالیز صنعتی (مواد غذایی، کشاورزی و نفتی)
- ❖ مدلسازی مولکولی و ارتباط ساختار-خاصیت

ثبت اختراع

- رنگ کردن قطعات موبایل به وسیله ی آندایزینگ (۱۳۹۳)
- محلول گیاهی آزمون انطباق کیفی ویژه ماسک های تنفسی نیم صورت (۱۳۹۷)
- دستگاه تصفیه هوا با فیلتر ذره گیر و بستر احیا پذیر زغال فعال مخصوص HVAC (۱۳۹۸)

طرحهای پژوهشی

- مجری در بیش از ۲۲ طرح پژوهشی و ارتباط با صنعت ملی و دانشگاهی (پایان یافته)
- مجری بیش از ۷ طرح دانشگاهی و ارتباط با صنعت (در حال اجرا)
- همکار در بیش از ۱۲ طرح پژوهشی و ارتباط با صنعت (پایان یافته و در حال اجرا)

سوابق ارتباط با صنعت

- مدرس در کارگاه های توانمندسازی مسوولین فنی بهداشت حرفه ای صنایع و شرکت های پایش بهداشت حرفه ای
- مدرس دوره های پایش عوامل شیمیایی در صنایع (شیراز، یزد، اصفهان و خوزستان، تهران)، شرکت ملی پخش و پالایش فرآورده های نفتی، شرکت عملیات غیرصنعتی بازارگاد، منطقه ویژه اقتصادی ماهشهر، شرکت صنایع معدنی گوهر زمین، و
- مجری و همکار در ۱۰ طرحهای ارزیابی عوامل شیمیایی و پایش بیولوژیک در صنایع پتروشیمی و پالایش (پالایشگاه دوم گازی پارس جنوبی (۲ طرح)، پالایشگاه سوم پارس جنوبی، پتروشیمی آریا ساسول (۲ طرح)، پتروشیمی نوری (۴ طرح)، پتروشیمی مروارید، شرکت پخش فرآورده های نفتی شیراز و صنایع مختلف در فارس)
- تاسیس شرکت قناور فعال در پارک فناوری سلامت استان فارس در زمینه تولید تجهیزات آزمایشگاهی و پایشهای زیست محیطی و شغلی

تسلط به نرم افزارها و بسته های محاسباتی

- ❖ Windows systems, and various software applications (Word, Excel, PowerPoint)

- ❖ Some computational and statistical software (Hyperchem, Dragon, SPSS, Gaussian 98, DesignExpert, etc.)
- ❖ Familiar with MATLAB software and MATLAB programming
- ❖ Familiar with Chemometrics toolbox (PLS toolbox, Multi-way toolbox, Genetic Algorithm, MCR-ALS toolbox, Neural Network)

شرکت در کارگاههای تخصصی

- ✓ 5th Iranian Chemometrics Workshop (Rank Annihilation Factor Analysis), Institute of Advanced studies in basic Sciences, Zanjan, Iran, 14-16 March 2006.
- ✓ 6th Iranian Chemometrics Workshop (Model based analysis; **Prof. Marcel Maeder** from Australia), Institute of Advanced studies in basic Sciences, Zanjan, Iran, 6-8 February 2007
- ✓ 7th Iranian Chemometrics Workshop (Model free analysis; **Prof. Roma Tauler** from Spain), Institute of Advanced studies in basic Sciences, Zanjan, Iran, 26-28 August 2008.
- ✓ 1st workshop of QSAR and modelling, (**Roberto Todeschini** from Italy) Medicinal & Natural Products Chemistry Research Center, Shiraz University of Medical Science, 14 February 2009.
- ✓ 9th Iranian Chemometrics Workshop (Multi-way analysis; **Prof. Rasmus Bro & Prof. Frans Van Den Berg** from Denmark), Institute of Advanced studies in basic Sciences, Zanjan, Iran, 1-3 November 2010.
- ✓ Chemoinformatics Workshop 2018, **Prof. Knut Baumann** (from Germany), **Prof. Igor Tetko** (from Germany) , **Prof. Roberto Todeschini** (from Italy), Medicinal and Natural Products Chemistry Research Center, Shiraz University of Medical Sciences, Shiraz, Iran, 21-23 April 2018.

مقالات منتشر شده

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- 25) Zangene F., Yousefinejad S., A Quantitative Structural Study on the Gas-Organic Solvent Partition Coefficient of Anthracene, *19th Iranian Chemistry Congress*, Shiraz University, Shiraz, Iran, 20-23, Feb **2017**.

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- Yousefinejad S., Bagheri M., Moosavi-Movahedi, A.A, Toward a Strategy to Describe and Predict Activities of Peptide Drugs Contain L/D and Unnatural Residues: QSAM of Antimicrobial Hexapeptides, *The National Conference on Protein and Peptide Science, From Basic to Medical and Industrial Applications*, Department of Biology, Shiraz University, Shiraz, Iran, 10 & 11 Dec **2014**.
- Yousefinejad S., Hemmateenejad B., Quantitative sequence activity relationship of bitter tasting threshold peptides: a comparison study between some two-way and three-way modeling methods, *5th Iranian Biennial Chemometrics Seminar*, Department of Chemistry, Faculty of Science, University of Tehran, Tehran, Iran, 25-26 Nov **2015**.

سرپرستی پایان نامه های تحصیلات تکمیلی (کارشناسی ارشد و دکترا)

#	نام دانشجو / سال دفاع	مقطع تحصیلی	نقش در سرپرستی	عنوان / موضوع پایان نامه
1	Negar Saeed 2014	کارشناسی ارشد شیمی تجزیه	استاد راهنما	Prediction of Protein Amino Acids' retardation Factor in Different Solvent Mixtures of Normal Phase-Thin Layer Chromatography
2	Leila Aalizadeh 2014	کارشناسی ارشد شیمی تجزیه	استاد راهنما	Classification of Furnace Oil, Gas Oil and Mazot Oil using ATR-FTIR Spectroscopy and Chemometrics Methods
3	Maryam Zare 2015	کارشناسی ارشد شیمی تجزیه	استاد راهنما	Comparison of different carbon nanostructures on potentiometric performance of carbon paste electrode
4	Mehrnoosh Chaabi 2015	کارشناسی ارشد شیمی تجزیه	استاد راهنما	New relationship model for solvent-solubility of pyrene based on molecular structure and experiment
5	Raziyeh Zare 2014	کارشناسی ارشد شیمی تجزیه	استاد راهنما	Investigation of solvent properties in carbon-nanotube dispersions using computational and QSPR methods
6	Ali Jafarpour 2015	کارشناسی ارشد شیمی تجزیه	استاد راهنما	Investigation of ferrocene solubility in non-aqueous solvents for chemical and electrochemical purposes
7	Somayeh Nasr 2015	کارشناسی ارشد شیمی تجزیه	استاد مشاور	Structure-Electrochemistry Relationship in Non-aqueous Solutions: Prediction of the Half-Wave Potential of Anthraquinones Derivatives in Different Organic Solvents
8	Azam Abdollahi-Dezaki	کارشناسی ارشد شیمی تجزیه	استاد راهنمای دوم	Prediction of E_N^T Polarity Scale of Ionic Liquids Using a QSPR Approach

9	Rayhaneh Eskandari 2016	کارشناسی ارشد شیمی تجزیه	استاد راهنما	Quantitative Structure-Activity Relationship to predict the activity in a set of new Antimalarial Agents
10	Marziyeh Mosahebfard 2016	کارشناسی ارشد شیمی تجزیه	استاد راهنما	Investigation of Effective Parameters on the Solubility of Trans-Stilbene with a Solvent-Solute Approach
11	Fahime Zangene 2016	کارشناسی ارشد شیمی تجزیه	استاد راهنما	Investigation and modeling of the solubility of Anthracene in Organic phase
12	Sahar Rasekh 2016	کارشناسی ارشد شیمی تجزیه	استاد راهنما	Prediction and Description of Antibacterial Activity in a New Set of Formyl Hydroxyamino Derivatives Using Structural Information and Chemometrics
13	Roya Eftekhari 2016	کارشناسی ارشد شیمی تجزیه	استاد راهنما	Solvent-Solvent Interactions in a Binary Mixture Composed by Methanol or Ethanol and a Set of Different Polar and Non-polar Solvents
14	Alireza Akbarzadeh 2017	دکترای شیمی	استاد مشاور	<i>Prediction of important physicochemical and biological properties of some porphyrins</i>
15	Fatemeh Kargar 2019	دکترای مهندسی بهداشت حرفه ای (علوم پزشکی شیراز)	استاد مشاور	<i>Field of study:</i> Genotoxicity and exposure evaluation of some Anesthetizing gases
16	Farnaz Behmami 2019	کارشناسی ارشد مهندسی بهداشت حرفه ای	استاد راهنما	<i>Field of study:</i> Development of sampling and analytical strategy to determine pesticides
17	Raziyeh Ashoori 2018	کارشناسی ارشد مهندسی بهداشت حرفه ای	استاد مشاور	<i>Field of study:</i> Removal of water pollutants using electro-coagulation
18	Zahra Jamshidi 2018	کارشناسی ارشد مهندسی بهداشت حرفه ای	استاد مشاور	<i>Field of study:</i> Removal of organic pesticides using combinational methods
19	Somayah Rahimi 2019	دکترای مهندسی بهداشت محیط (علوم پزشکی اصفهان)	استاد مشاور	<i>Field of study:</i> Application of core shell nanoparticles, Fenton and electro-Fenton processes to remove antibiotics from wastewater
20	Rasool Rahmani 2019	دکترای مهندسی بهداشت حرفه ای (علوم پزشکی شیراز)	استاد مشاور	<i>Field of study:</i> Effects of Acute and Sub-Acute Exposure to Heat Stress and trichloroethylene on Immune System, Hematological and Metabolic Parameters in Rats
21	Tahereh Rookesh 2017	کارشناسی ارشد مهندسی بهداشت محیط	استاد مشاور	<i>Field of study:</i> Electro-coagulation in water treatment
22	Sahar Mirzaie 2018	کارشناسی ارشد مهندسی بهداشت محیط	استاد مشاور	<i>The evaluation of chloroform formation possibility as trihalomethanes indicator and its carcinogenic potential in potable water transfer line from Dorudzan Dam to Shiraz city during the period of 2016-2017</i>
23	Fatemeh Jamshidi 2018	کارشناسی ارشد مهندسی بهداشت حرفه ای	استاد مشاور	<i>Removal of Alachlor from Aqueous Solutions by TiO₂ Nanoparticles under the UV radiation</i>
24	Anahita Fakhripour 2019	کارشناسی ارشد مهندسی بهداشت محیط	استاد مشاور	<i>Field of study:</i> Fitness solutions to study the fitness of respiratory masks.
25	Fatemeh Amiri 2019	دکترای مهندسی بهداشت حرفه ای (علوم پزشکی شیراز)	استاد مشاور	<i>Field of study:</i> Exposure assessment of some Anesthetizing gases in workers of clinical operation rooms.

26	Zohreh Moieni 2019	کارشناسی ارشد مهندسی بهداشت محیط	استاد مشاور	Removal of Atrazine from Water Using Titanium Dioxide Encapsulated in Salicylaldehyde-NH ₂ -MIL-101 (Cr)
27	Alireza Abbasi 2020	کارشناسی ارشد مهندسی بهداشت محیط	استاد مشاور	Field of study: Removing CO using nanocatalysts
28	Morteza Mortazavi (2020)	دکترای مهندسی بهداشت حرفه ای (علوم پزشکی شیراز)	استاد مشاور	Field of study: Design and evaluation of bioscrubbers for removal of poly-aromatic hydrocarbons from air
28	Sepideh Abbaszadeh (2020)	کارشناسی ارشد مهندسی بهداشت حرفه ای	استاد راهنما	Field of study : Application of liquid Extraction methods in Biological Monitoring
29	Mahmood Sadeghi (In Progress)	دکترای بیولوژی تولید مثل	استاد راهنمای دوم	Field of study: Metabolomics in polycystic syndrome
30	Arezoo Damokhi (2021)	کارشناسی ارشد مهندسی بهداشت حرفه ای	استاد راهنما	Field of study : Development of new liquid Extraction methods in Biological Monitoring of Occupational Pollutant
31	Fatemeh Dehghani (In Progress)	دکترای مهندسی بهداشت حرفه ای (علوم پزشکی شیراز)	استاد راهنما	Field of study: Metabolomics and Rapid-response Sensors in Occupational monitoring
32	Ghazal Nikaeen (2022)	کارشناسی ارشد مهندسی بهداشت حرفه ای	استاد راهنما	Field of study : Development of new magnetic ionic liquid micro extraction methods in Biological Monitoring of Occupational Pollutant
33	Abolfazl Moghadasi (In Progress)	دکترای مهندسی بهداشت حرفه ای (علوم پزشکی شیراز)	استاد راهنما	Field of study : Toxicology of benzene in occupational exposure and design and manufacture
34	Elnaz Taheri (In Progress)	دکترای مهندسی بهداشت حرفه ای (علوم پزشکی شیراز)	استاد راهنما	Field of study : application of magnetic molecular imprinted polymer in biological monitoring of occupational exposures

کتابهای تالیف شده

- *Chemometrics and Image Processing in Thin-Layer Chromatography, (Chapter 25, In: "Chemometrics in Chromatography", Hemmateenejad, B., Talebanpour-Bayat, E.,..., Yousefinejad, S., (2018), CRC Press, Taylor & Francis Group*

- نانوفناوری در بهداشت حرفه ای، انتشارات دانشگاه علوم پزشکی شیراز، ۱۳۹۹ (سعید یوسفی نژاد، مهدی جهانگیری، زهرا شجاعی فرد، اسماعیل سلیمانی، سعید جعفری، مجید جبیبی محرز، سمیه فرهنگ دهقان)
- راهنمای بهداشت شغلی: ویژه پیشگیری از بیماری کووید-۱۹ در محیط کار"، انتشارات حک، خرداد ۹۹ (اعضاء هیات علمی و تعدادی از دانشجویان گروه مهندسی بهداشت حرفه ای و ایمنی کار دانشگاه علوم پزشکی شیراز)

داوری در ژورنالها و کنفرانسهای بین المللی

<https://publons.com/researcher/1194360/saeed-yousefinejad/peer-review/>

- Journal of Chromatography A (*Elsevier*)
- Science of Total Environment (*Elsevier*)
- Analytica Chimica Acta (*Elsevier*)
- Amino Acids (*Springer*)
- Journal of Separation Science (*Wiley*)
- Colloids and Surfaces B: Biointerfaces (*Elsevier*)
- Food Chemistry (*Elsevier*)

- Chemosphere (*Elsevier*)
- Fuel (*Elsevier*)
- Industrial & Engineering Chemistry Research (*American Chemical Society, ACS*)
- Spectrochimica Acta A: Molecular and Biomolecular Spectroscopy (*Elsevier*)
- Analytical Methods (*Royal Society of Chemistry, RSC*)
- Journal of Biomolecular Structure and Dynamics) (*Taylor & Francis*)
- Fullerenes, Nanotubes and Carbon Nanostructures (*Taylor & Francis*)
- Journal of the Iranian Chemical Society (*Springer*)
- Computer Methods and Programs in Biomedicine (*Elsevier*)
- Current Analytical Chemistry (*Bentham Science*)
- Current Computer-Aided Drug Design (CCADD) (*Bentham Science*)
- Journal of Essential Oil Bearing Plants
- Arabian Journal of Chemistry (*Elsevier*)
- Journal of Saudi Chemical Society (*Elsevier*)
- Journal of Chemistry
- Physical Chemistry and Electrochemistry
- Journal of Applied Solution Chemistry and Modeling
- Current Chemistry Letters
- Journal of Medicinal Chemistry and Drug Designing
- Iranian Journal of Science and Technology (Sciences) (IJSTS)' (*Springer*)
- Physical Chemistry Research (*Iran Chem Soc.*)
- Food Bioscience (*Elsevier*)
- ACS Omega (*ACS, American Chemical Society*)
- Journal of Raman Spectroscopy (*Springer*)
- Environmental Research (*Elsevier*)
- Journal of Food Processing and Preservation (*Wiley*)
- Journal of Molecular Structure (*Elsevier*)
- Current Bioactive Compounds (*Bentham Science*)
- Journal of Environmental Quality (*ProQuest*)
- HELIYON (*Elsevier*)
- Critical Reviews in Analytical Chemistry (*Taylor & Francis*)
- International Journal of Environmental Analytical Chemistry (*Taylor & Francis*)
- Biomedicine & Pharmacotherapy (*Elsevier*)
- Value in Health Regional Issues (*Elsevier*)
- Histology and Histopathology (*Elsevier*)
- Journal of Environmental Management (*Elsevier*)
- Separation and Purification Technology (*Elsevier*)
- RSC Advances (*Royal Society of Chemistry*)
- Journal of Environmental Management (*Elsevier*)
- Journal of Food Processing and Preservation (*Hindawi*)
- Inorganic Chemistry Communications (*Elsevier*)
- Chemical Engineering Journal (*Elsevier*)
- Materials (*MDPI*)
- Measurement (*Elsevier*)

Conferences

- 4th Iranian biannual seminar of Chemometrics, Shiraz, Iran (2013)
- 2016 Global Conference on Polymer and Composite Materials (PCM2016)
-

سوابق تدریس

دانشگاه علوم پزشکی شیراز ■
بخش شیمی دانشگاه شیراز ■

دروس تدریس شده

دروس دکترا:

- ۱- آنالیز دستگاهی (دکترای مهندسی بهداشت حرفه ای)
- ۲- فناوری نانو در بهداشت حرفه ای، دکترای مهندسی بهداشت حرفه ای (قسمت اول: سنتز و مشخصه یابی ترکیبات نانو)
- ۳- روشهای نوین در آنالیز دستگاهی (دکترای حشره شناسی پزشکی)

دروس کارشناسی ارشد:

- ۱- تجزیه پیشرفته (ارشد شیمی تجزیه) ۲- شیمی تجزیه (ارشد بهداشت مواد غذایی) ۳- نمونه برداری و تجزیه آلاینده های هوا (ارشد مهندسی بهداشت حرفه ای) ۴- آلودگی های محیطی مواد غذایی -بخش عملی (ارشد بهداشت مواد غذایی) ۵- مدیریت کسب و کار در

HSE

دروس کارشناسی:

- ۱- شیمی تجزیه ۱ (روشهای کلاسیک)، ۲- شیمی تجزیه ۲ (الکتروشیمی) ۳- تجزیه دستگاهی، ۴- شیمی کلونیدی، ۵- شیمی محیط، ۶- شیمی تجزیه مهندسی ۷- شیمی تجزیه کشاورزی ۸- شیمی تجزیه صنایع غذایی ۹- الکتروشیمی صنعتی، ۱۰- شیمی صنعتی ۱، ۱۱- تصفیه آب و فاضلاب، ۱۲- شیمی عمومی یک، ۱۳- شیمی عمومی دو، ۱۴- کامپیوتر در شیمی ۱۵- برنامه نویسی MATLAB، ۱۶- پروژه صنایع شیمیایی، ۱۷- شیمی عمومی (علوم بهداشتی)، ۱۸- آنالیز و ارزیابی نمونه های هوا ۱۹- کارآموزی در عرصه (بهداشت حرفه ای)

دروس مختلف آزمایشگاهی

- ۱- آز تجزیه دستگاهی ۲- آز شیمی تجزیه یک و دو، ۳- آز شیمی عمومی یک و دو، ۴- آز شیمی عمومی مهندسی ۵- آز تصفیه آب و فاضلاب، ۶- آز آنالیز دستگاهی (استخراج و کروماتوگرافی- دکترای بهداشت حرفه ای) ۷- تجزیه و ارزشیابی نمونه های هوا

**Last Update on:
November/8/ 2022**

۴ آذر ۱۴۰۱