



Undergraduate projects of chemistry department 2025-2026

No.	Title	Supervisor	Student name
1	Infrared spectroscopy and its analytical Applications	Dr. Subhi Muhsin Jarallah	Abrar Khalaf Ismaeel
2	Spectrophotometric Determination of Some Pharmaceutical Compounds Using Methyl Red Dye	Assist. Lec. Esraa A. Khaleel	Aasha Salman Hussein
3	Spectrophotometric Determination of Methyldopa in Pharmaceutical Formulations	Assist. Lec. Esraa A. Khaleel	Athraa Fahmi Jaafar
4	Fluorescence technique and its analytical applications	Assit.Prof.Dr. Zeena Z. Salih	Rafal Dhanoon Younis
5	High performance liquid chromatographic and its analytical applications	Assit.Prof.Dr. Zeena Z. Salih	Furat Ibraheem Mohammed Ali
6	Spectroscopic determination of the tetracycline compound	Hind Shaker Mamhood	Qamar Abdul-hakeem Naef
7	Spectral determination of haloperidol in pharmaceutical preparations	Hind Shaker Mamhood	Ali Mohammed Hussein
8	Methods for estimating the drug compound ciprofloxacin hydrochloride in its pharmaceutical preparations	Assist.Prof. Dr. Rawoa Abdul-aleem Ahmed	Aya Munther Qasim
9	Determination of several blood pressure-lowering drug compounds using different analytical methods	Assist.Prof. Dr. Rawoa Abdul-aleem Ahmed	Amnia Yahya
10	Developing spectroscopic methods for the determination of pharmaceutical compounds in their binary mixtures and applying them to pharmaceutical preparations.	Assist.Prof.Dr. Nagham Nadhim Habeeb	Fwazya Salah Idrees
11	Applications of gold and silver nanoparticles in pharmaceutical preparation estimation	Assist.Prof.Dr. Nagham Nadhim Habeeb	Katia Saeed Dawood



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12	Spectrophotometric determination of metronidazole	Assist.Prof .Dr. Omar Abdul-hay Mohammed	Saeef Ahmed Afar
13	Spectrophotometric determination of some antibiotics drugs	Assist.Prof .Dr. Omar Abdul-hay Mohammed	Kawther Hussein Hashim
14	The analytical methods used for the determination of selected antihistamines in pharmaceutical dosage forms and biological fluids	Assist.Prof.Dr. Mohammed Yahya Dhmara	Saja Raed Khaleel
15	Polyamine compounds in food	Prof.Dr. Omar Younis Mohammed	Mohammed Emad Salih
16	Lipase enzymes	Prof.Dr. Omar Younis Mohammed	Sufyan Ali Sultan
17	Breast Cancer	Prof.Dr. Nashwan Ibraheem Abo	Huda Dhiab Salo
18	Mood- regulating neurotransmitters(Happiness hormones)	Assist.Prof.Rana Taib	Maryam Omran Naef
19	Genetic abnormalities in individuals with autism	Prof.Dr. Luma Abdel-monem Baker	Rehan Wadah Mohammed Anwar
20	The role of biochemical techniques in early tumor detection	Prof.Dr. Luma Abdel-monem Baker	Shukran Qasay Abdul-Wahab
21	Fats and fatty acids and their relationship with heart disease	Assist.Prof. Dr. Mohammed Abdul-hadi Jasim	Rana Sawfan Ahmed
22	The impact of Captagon on human health	Assist.Prof. Dr. Mohammed Abdul-hadi Jasim	Abdul-wahid
23	Drugs of their types and their effect on the body	Assist.Prof. Dr. Mohammed Abdul-hadi Jasim	Zharaa Younis Sadek
24	Parkinson's disease: causes, symptoms and treatment	Lec.Dr. Kinda Masood Bilal	Shymaa Mohamod Badr
25	Epilepsy: its causes, symptoms, and relationship to vitamin B12	Lec.Dr. Kinda Masood Bilal	Eman Ahmed Taha
26	Studying the effect of fats on women with polycystic ovary syndrome	Assist.lec. Amal Mofawk Salih	Samood Abdul-Raof Sultan



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27	Blood pressure, types, causes, treatment, and effects on humans	Dr. Nawfal Sheet Mohammed	Ahmed Alawi Hmood
28	Diabetes, types, causes, treatment, and effects on humans	Dr. Nawfal Sheet Mohammed	Mohammed Readh Hazim
29	Anaerobic glycolysis as a mechanism for cancer cell survival and the potential for targeting them with metabolic starvation	Assist.Prof.Dr. Hamza Namaq Hameed	Amna Ghanem Refaee
30	"Role of SMOC1 Gene in β -Cell Identity Loss and Pathogenesis of Type 2 Diabetes Mellitus"	Assist.Prof.Dr. Hamza Namaq Hameed	Rema Bassam Hani
31	Hormonal Disorders in Obese Patients	Dr. Heba Rafid kamal	Rahma Mohammed Akram
32	Evaluation of Biochemical Parameters Associated with Chronic Kidney Disease	Dr. Heba Rafid kamal	Rania Taha Salim
33	A Biochemical Study of Some Biochemical Parameters Associated with Diabetes Mellitus	Dr. Heba Rafid kamal	Noor Jamal
34	The Manufacture of Dyes and Pigments: Classification, Properties, and Applications	Assist.Prof.Dr. Qidar Salim Jerjees	Fahad Omar Halleem
35	Chemical (Conversion) Processes and Their Applications in the Petroleum Industry	Assist.Prof.Dr. Qidar Salim Jerjees	Ameen Salih Jerjees
36	Cosmetics Industry	Dr.Aws Nazar Abdul-azzez	Redhaa Mahmood Hussein
37	Chemical Structure of Perfume Industry	Dr.Aws Nazar Abdul-azzez	Abdul-rahman Faisal Hamid
38	Asphalt and its chemical and physical properties	Ass. Lec. Anwar Mahmood Ahmed	Hala Abdulla Khalaf
39	Air pollution and treatment methods	Ass. Lec. Anwar Mahmood Ahmed	Amal Ahmed Mahmood
40	The Use of Agricultural Waste in Water Pollution Treatment	Prof.Dr. Ammar A. Hamdoon	Khansaa Hameed Saray



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41	Activated Carbon: From Source to Evaluation	Prof.Dr. Ammar A. Hamdoon	Ashia Abdul-kareem Abdulla
42	Global warming: its causes, effects, and solutions.	Prof.Dr. Khalid A. Aoid	Malak Mohammed Abdul-kareem
43	The impact of household waste on the pollution of the Tigris River	Dr. Mohammed Haji Ali	Mariam Omar Sadeek
44	The Uses of Zeolite in treatment water pollutants with household Detergents	Dr. Mohammed Haji Ali	Rahma Hazim Khazal
45	Sustainable development of plastics	Assit.Prof.Dr. Mohammed Hazim Sabry	Mariam Mohammed Abdul-Motalab
46	Sustainable development of paper	Assit.Prof.Dr. Mohammed Hazim Sabry	Ahad Khalid
47	Production of car paint protection films	Assist.Prof.Dr. Ahmed Ghalib Shekho	Zainab Mohammed Abdul-Qader
48	Polyvinyl chloride production	Assist.Prof.Dr. Ahmed Ghalib Shekho	Alaa Hamid Saray
49	water pollution with heavy metals	Assist.Prof.Dr. Ragheed Mohammed Ghazal	Taghreed Mohammed Monem
50	catalytic reforming of naphtha	Assist.Prof.Dr. Ragheed Mohammed Ghazal	Tara Raed Abdulla
51	Chemical structure of Cars paint	Dr. Osma Mohammed Majeed	Saef Husam Shams Aldeen
52	A study on oil derricks and refining derricks	Dr. Osma Mohammed Majeed	Walaa Ahmed Nawaf
53	The Motivation Level of Chemistry Department Students Toward Learning with Artificial Intelligence	Prof.Dr.Mahmood Abdul-Salam	Tariq Ahmed Abdullah
54	Psychological discipline among students of Chemistry Department Secondary stage	Assit .Lec. Maysaa Mohammed Qasim	Hiba Khalid Walee



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55	The importance of using computer simulation models for first intermediate students in teaching chemistry	Assit. Lec. Maysaa Mohammed Qasim	Tuqa Omar Ghanem
56	The role of working memory in learning abstract concepts in chemistry	Assit.Prof.Dr. Tanheed Adel fadel	Asmaa Haziim Qasim
57	The role of a positive classroom environment in promoting intrinsic motivation to learn chemistry	Assit.Prof.Dr. Tanheed Adel fadel	Safaa Bashar Abdul-ghani
58	The K. W. H strategy and its role in the academic achievement of chemistry students	Assit.Prof.Dr. Waad Ghanem Bedawi	Enam Abdullah Younis
59	Cognitive modeling and its role in teaching chemistry at the secondary level	Assit.Prof.Dr. Waad Ghanem Bedawi	Alaa Salim Mohammed Saeed
60	The effectiveness of using virtual realities in developing spatially perception and a deep understanding of abstract chemical concepts molecular bonds and reactions in VR environment	Assist.Prof.Dr. Mohammed Jasim Mohammed	Maryam Basim Mohammed
61	The spidermap strategy and its role in the academic achievement of chemistry students	Assist.Prof.Dr. Mohammed Jasim Mohammed	Rahma Anas Abdullah
62	The use of the cognitive acceleration strategy and its relationship to achievement among students in the chemistry department.	Dr.Rana Khatab Omar	Maryam Abdul-alah Majeed
63	Laboratory skills and their relationship to scientific thinking among chemistry students	Dr.Rana Khatab Omar	Eman Shehab Ahmed
64	Indole synthesis	Nameer Sadalah Azza	Maryam Salim Ibraheem
65	Robinson annulation reaction	Nameer Sadalah Azza	Omar Najim Abdullah
66	Mannich Bases	Dr.Neam Hazim Saleem	Furat Idrees
67	Biginelli Reaction	Dr.Neam Hazim Saleem	Amajd Ibraheem
68	Declofane (preparation , reactions , applications)	Assist.Prof.Dr. Hadeel Sameer Aziz	Salman Fahad Aid
69	Baclofen (preparation , reaction , applications)	Assist.Prof.Dr. Hadeel Sameer Aziz	Ali Adel Namar



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70	Hybrid chalcones: Methods of preparation, reactions, and uses	Prof.Dr. Omar Thanoon Ali	Safa Ibraheem Jubrael
71	Synthesis of some compounds 1,3,4-oxadiazoles	Assit.Prof.Dr. Amna Elias Ahmed	Ahmed Yasir Ghazal
72	Synthesis of dye azo compounds derived from(1-amino - 4-methyl - 6-phenyl pyrimidine - 2-thione	Assit.Prof.Dr. Amna Elias Ahmed	Hiba Shamil
73	Organometallic compounds - Crynyard reagents	Dr. Linda Readh Abdul-Raheem	Mohanad Yaseen Hazim
74	Epoxides: Methods of Preparation and Reactions	Dr. Linda Readh Abdul-Raheem	Amal Fadil Ali
75	Two dimensional (2D) Nuclear magnatic resonance	Prof.Dr. Yasir Shakeeb Mohammed	Ahmed Mohammed Ahmed
76	The carbine Reactions	Prof.Dr. Yasir Shakeeb Mohammed	Abdullah Mohammed Othamn
77	Preparation and study of the reactions of hydrazine compounds	Assist.Prof.Dr. Shymaa Samir Ismail	Duoar Faris Waad allah
78	Study of the formation and reactions of some active organic intermediates	Assist.Prof.Dr. Shymaa Samir Ismail	Omar Saad Arheel
79	A study in the methods of preperation and reactions of oxazines compounds	Assit .Prof.Dr. Ghufraan Dhanoon Sadeeq	Hmaza Taqi Aldeen Ismael
80	A study in the methods of preperation and reactions of isatin	Assit .Prof.Dr. Ghufraan Dhanoon Sadeeq	Raed Hamed Atia
81	Tetrazole compounds and their applications	Assit.Prof.Dr. Entsar Qahtan Mohammod	Aya Mohammed Salih
82	Oxazepine compounds and their applications	Assit.Prof.Dr. Entsar Qahtan Mohammod	Hazim Hasan Doman
83	Carbonyl compounds: their reactions and methods of preparation	Dr.Omar Abdulalh Salih	Taha Ali Abdulillah
84	Carbanion Reactions	Dr.Omar Abdulalh Salih	Noor Amar Hazim



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85	Comparison between quinoline and isoquinoline compounds	Prof.Dr. Mohanad Yakdhan Salih	Ahmed Basman Mohammed
86	Preparing a mixture of pharmaceutical compounds to obtain the best pharmaceutical outcome	Prof.Dr. Mohanad Yakdhan Salih	Hiba Majeed Ahmed
87	Aspirin (preparation, reactions, and uses)	Dr.Hussein Yousef Redha	Mohammed Anwar Hasan
88	named reactions (Aldol condensation, Claisen condensation, Diels-Alder condensation)	Dr.Hussein Yousef Redha	Hala Maysar Mohammed Ali
89	Drug Interactions of Aspirin and Paracetamol from a Physicochemical Perspective	Assit.Prof.Dr. Noor Hazim Mohammed	Mohammed Raed Salim
90	Kinetics of Paracetamol Oxidation and the Effects of Its Oxidation Products in the Human Body	Assit.Prof.Dr. Noor Hazim Mohammed	Shymaa Marwan
91	Electrical cells: their benefits and risks	Assist.Prof.Dr. Safwan Abdul-Sattar Mohammed Ali	Omar Salim Jasim
92	Surface chemistry and its applications	Assist.Prof.Dr. Safwan Abdul-Sattar Mohammed Ali	Faisal Barkat Rasho
93	X-rays and their applications	Lec. Ayman Saeed Mohammed	Mustafa Khalid Fathi
94	Applications of Surface Chemistry in Water Treatment and Pollutant	Lec. Ayman Saeed Mohammed	Ammar Yasir Ahmed
95	Kinetic and Mechanistic Study of Permanganate Ion Oxidation	Dr. Ibraheem Younis Mohammed	Fahad Bashar Hashim
96	A study in physico kinetic chemistry and its role in achieving sustainable development	Dr. Ibraheem Younis Mohammed	Mohammed Bahjat Hadi
97	Study the Electrochemical behaviour and determination of uric acid.	Assit Prof.Dr. Mohammed Mohammed Ameen	Dhua Zaki Awn Aldeen



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98	Voltammetric determination of miniral responsible of infertility for men	Assit Prof.Dr. Mohammed Mohammed Ameen	Ruqia Ali Tariq
99	The Role of Surface Properties of Nanomaterials in Removing Chemical Pollutant	Dr. May Ghanim Ameen	Zeyad Jehad Ahmed
100	Optical and Electrical Properties of Nanomaterials	Dr. May Ghanim Ameen	Seyaf Basman Mohammed
101	Applications of physical chemistry in environmental conservation and reducing heat emissions	Assist.Prof.Dr. Raed Tariq Ghanim	Ula Salih Ahmed
102	The effect of salt on the rate of chemical reactions	Assist.Prof.Dr. Raed Tariq Ghanim	Mohammed Hussein Shamideen
103	Sensors for greenhouse gases	Dr.Dunia Butris Toma	Abdulmuhsan Sabhan Abdul-mosen
104	Removing heavy metal ions from wastewater using nanomaterials.	Dr.Dunia Butris Toma	Azz Aldeen Ali hamad
105	The role of the Physical and chemical properties in the stability of the Ecco system	Assit.Prof.Dr. Fedaa Hasan Marie	Salih Moafak Najm
106	Water treatment using nanotechnology	Assit.Prof.Dr. Fedaa Hasan Marie	Otman Abd Khalaf
107	Study the electrical conductivity for organic compounds in liquid state	Assit.Prof.Dr. Zaheda Ahmed Najm	Taha Mohammed Taha
108	Calculation of the binding constant for a binary mixture of organic solvent using UV spectroscopy	Assit.Prof.Dr. Zaheda Ahmed Najm	Sufyan Adel Hussein
109	Application of Laser in chemistry	Assist .Prof.Dr. Mohammed Mahmood Hussein	Zedan Khalaf Qasim
110	Activation energy and the effect of temperature on the rate of chemical reactions	Assist .Prof.Dr. Mohammed Mahmood Hussein	Abdul-rahman Ali Abdul-rahman
111	Statistical method for the determination of melting point for waxes	Prof.Dr. Emad Abdulial Salih	Harith Ammar Ayob



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112	Determination the chemical shifts of carbon-13 atom nuclei in methylcyclohexane derivatives by additional linear method	Prof.Dr. Emad Abdulial Salih	Eman Mahmood Dawood
113	Nanomaterials and Their Medical Applications	Dr. Alaa Abdul-Azeez Ahmed	Mina Amal Faisal
114	Gas and liquid lasers: Medical and chemical applications	Dr. Roaa Daood Suliman	Rasool Jamal Rasho
115	colloidal systems and their applications	Dr. Roaa Daood Suliman	Othman Abdul-Qader Mohammed
116	Spectroscopic and Docking Study of Curcumin with Creatininase Enzyme	Assist.Prof.Dr. Ahmed Mowfak Sadoon	Abdulah Salim Ahmed
117	Spectroscopic and Docking Study of Gemcitabine with Alanine Aminotransferase Enzyme	Assist.Prof.Dr. Ahmed Mowfak Sadoon	Manar Redwan Hamza
118	Green Synthesis of Nanoparticles: A Sustainable Approach in Modern Chemistry	Dr. Younis Turki Mahmood	Yousef Kanan Abdulla
119	The Role of Nanomaterials in Enhancing Solar Energy Conversion Efficiency:	Dr. Younis Turki Mahmood	Hamza Sabah Abdullah
120	A theoretical study of thiourea and its complexes with metallic elements	Dr. Abeer Salim Mohammed	Ramaq Nawar Hussein
121	A theoretical study of acetyl acetone and its complexes with divalent elements	Dr. Abeer Salim Mohammed	Mustafa Thamir Jasim
122	Azo dyes, their complexess, and their applications in the field of sustainable development	Prof.Dr. Amal Younis Redha	Raghad Talib Mahmood
123	Ciprofloxacin: Properties, Complexes, and Biological Applications	Prof.Dr. Amal Younis Redha	Tabark Mahmood Ahmed
124	Study of some transition element complexes with hydrazone-derived ligands and their biological activity	Assit.Lec. Braa Salih Abdul-Qader	Yousef Abdul-Jabbar Ismael
125	Study of some transition element complexes with heterocyclic ligands derived from imidazole	Assit.Lec. Braa Salih Abdul-Qader	Mohammed Hussein Mohammed Ali
126	Gadolinium (properties, preparation, reactions, uses, and compounds)	Assit.Prof.Dr. Akram Abdul-Qader Mohammed	Mutaib Ghazi Mohammed



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127	Thulium (properties, preparation, reactions, uses and compounds)	Assit.Prof.Dr. Akram Abdul-Qader Mohammed	Massod Ghanim Saboor
128	Theoretical Study of Chalcone Ligand and Its Complexes with Transition Elements and Their Chemical and Biological Activities	Assit.Prof.Dr. Alyaa Sabah Mohammed	Safa Mohammed Jasim
129	Theoretical Review on the Chemistry of Macrocyclic Schiff Base Complexes with Transition Elements and Their Coordination Properties	Assit.Prof.Dr. Alyaa Sabah Mohammed	Yahya Qasim Yousef
130	The chemistry of zinc and their schiff base	Prof.Dr. Jasim Mohammed Alyas	Human Muthana Mohammed
131	The chemistry of zinc and their schiff base	Prof.Dr. Jasim Mohammed Alyas	Majd Ammar Jenan
132	Preparation, characterization, and study of cobalt(II), copper(II), and zinc(II) complexes derived from Schiff bases as environmentally friendly antibacterial agents."	Assit.Prof.Dr. Fadya Jelal Ahmed	Barzan Nawaf Ahmed
133	Studying iron and its complexes as green catalysts in the chemical industry	Assit.Prof.Dr. Fadya Jelal Ahmed	Muhsain Amjad Ahmed
134	The phosphorus and its importance in chemistry	Assist.Prof.Dr. Rana Ramzi Abd	Ali Waleed Khalid
135	Zinc element and its therapeutic properties	Assist.Prof.Dr. Rana Ramzi Abd	Amani Haithim Mohammed