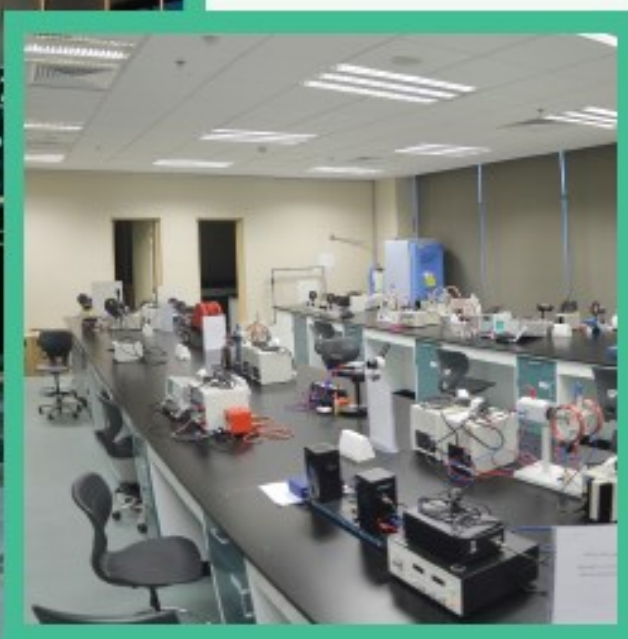




Ministry of Education
King Faisal University
College of Science

Student Manual



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King Faisal University in brief



King Faisal bin Abdul Aziz was born in Safar of the year 1324 AH / April 1906 AD, and he received his legal education from his maternal grandfather Sheikh Abdullah bin Abdul Latif Al Sheikh. He was also raised in the school of his father, King Abdul Aziz administratively, politically and socially. He participated in a number of campaigns to unify the country during his father's reign. King Faisal took power in 1384 AH / 1964 AD and devoted his utmost attention to industrial, agricultural and economic projects, which raised the name of the Kingdom globally and made it with influence, prestige and respect at the Arab, Islamic and global level. His reign lasted for eleven years and God rest his soul in the year 1395 AH / 1975 AD. King Faisal University was established in the same year in implementation of his will (may God have mercy on him) to establish a university in the Eastern Province. The university was opened during the reign of his brother King Khalid bin Abdul Aziz, according to the noble Royal Decree No. 67/H on the 28th of Rajab in 1395 AH. The judge found the university in the city of Al-Hofuf, Al-Ahsa Governorate, in the Eastern Province. The number of university students has grown from 170 students in 1395/1396 AH, until it has now reached more than 64,368 students and the number of faculty members, lecturers and teaching assistants has developed. The university had 46 members until it became now more than 2075 members operating 18 scientific, literary and educational colleges. The first batch of university graduates was 9 students from Saudi graduates in 1398/1399 AH, then the number increased until the total number of graduates from the university in 1439 -1440 AH was 22141 graduates. They are involved in vital and important disciplines: medicine, science, agricultural sciences, food, veterinary medicine, livestock, clinical pharmacy, applied medical sciences, dentistry, the specialties of the Education College, College of Business Administration and Computer Science. King Faisal University seeks to be one of the leading universities in the service of Society through excellence in teaching, learning and scientific research related to community issues, providing continuous learning opportunities, effective leadership, and community partnership to achieve mutual enrichment. So, the university has established many specialized scientific and research centers, which work to achieve its set goals under the leadership and supervision of many highly scientifically qualified national expertise.

About the College of Science

The College of Science was established by Royal Decree No. 10522/7 / B on 1/4/1423 H. The college included four academic departments: Biological Sciences - Chemistry - Physics - Mathematics and Statistics, as these departments were transferred from the College of Education to become all under the umbrella of the College of Science.

The college awards four bachelor's degrees in science in the disciplines of chemistry, biological sciences, physics, mathematics and statistics to male and female students and six degrees in master's including mathematics, physics, chemistry, microbiology, zoology and botany specialization. Currently college departments prepared doctoral programs in chemistry, physics and mathematics and statistics and higher diploma program in radiation protection.

The college offers courses of basic science for students of the colleges of medicine, veterinary medicine, agricultural sciences and food and some courses for the colleges of computer science and engineering.

The college has a number of scientific laboratories equipped with the latest laboratory devices and tools for teaching both male and female students. The college aims to prepare highly qualified graduates in basic sciences to work in the public and private sectors. It also provides academic and scientific advice and enables researchers to actively contribute to serving community issues in line with the 2030 vision. The university funds many research projects in the college with the aim of completing scientific research. Innovative institutions that contribute to community service and raising the scientific competence of scientific research. In addition to that there is a number of external bodies that contribute to financing a number of research projects in the college.

Vision

That the College of Sciences be the leading college locally and regionally, in the academic and research field, and in providing scientific advice and community service in basic sciences.

Message

The mission of the College of Science is to prepare and qualify human cadres and competencies capable of carrying out their duties with high efficiency and actively contribute to the developmental renaissance, reinforced by the following:

- Adopting an educational philosophy that encourages a fruitful mix between critical and practical thinking.
- Paying attention to serious scientific research by providing the best research capabilities.
- Providing equal opportunities for students and faculty members.
- Advancing responsibility in a manner that meets the expectations and aspirations of all stakeholders, including students, faculty members, employees and society.

The goals

Goals are inspired by many values including scientific freedom, social responsibility, systematic attention, problem-solving, mutual discussions, quality assurance, and self-respect. With our aspiration to be the leading accredited institution in science education in the Kingdom of Saudi Arabia, we aim to:

- Working on developing curricula to become dynamic and innovative to keep pace with the tremendous progress in science with a focus on the needs of society.
- Providing programs that encourage the development of a spirit of excellence with a focus on creativity, independence, innovation, self-motivation and teamwork.
- Providing an interactive learning environment that encourages communication between students and faculty members, lifelong learning and career development.
- Ensuring the availability of appropriate and contemporary capabilities for education and scientific research for extracurricular student activities.
- Creating and disseminating a qualitative culture, environmental awareness and responsibility towards society among students, faculty members and employees.
- Encouraging the participation of students, faculty members and employees in local and international professional and extracurricular activities.
- Stimulating the continuous development of faculty members, students and employees.
- Encouraging interdisciplinary research programs.
- Strengthening research capabilities, both human and material.
- Establishing close partnerships with the scientific and industrial bodies to serve the community.

Funding parties for the college

The scientific research carried out by the college has been funded through several external parties, the most important of which are:

King Abdul-Aziz City for Science and Technology

A scientific governmental institution with an independent legal personality. Its headquarters is in Riyadh. Established in 1977 AD. It supports and encourages scientific research for applied purposes and coordinating the activities of scientific research institutions and centers in this field in line with the requirements of development in the Kingdom of Saudi Arabia. It also, cooperate with the competent authorities to define national priorities and policies in the field of science and technology in order to build a scientific and technical base to serve development in the agricultural, industrial and mining fields. It works on developing national scientific competencies and attracting highly qualified researchers who are able to work in the city in developing and adapting modern technology to serve the development in the Kingdom. The city includes scientific research requirements such as laboratories, means of communication and information sources.

Aramco Saudi Arabia :

A giant Saudi oil company operating in the field of manufacturing and refining petroleum and petrochemical products.

SABIC: (Saudi Basic Industries Corporation)

One of the world's leading companies in the manufacture of specialty chemicals, innovative plastics, fertilizers, polymers and minerals.

Administration

Male Section

Occupation	Phone number	Ext	E-mail
Dean of the College	5899589	9589	anajjar@kfu.edu.sa
Vice Dean for Academic Affairs	5899590	9590	vicedean@kfu.edu.sa
Vice Dean for Postgraduate Studies and Scientific Research	5899588	9588	malmalki@kfu.edu.sa
Vice Dean for Development and Community Engagement	5899593	9535	anaim2@kfu.edu.sa
Dean's Office Manager	5899581	9581	balbaqshi@kfu.edu.sa
Dean's Secretary	5899403	9403	maalsunaid@kfu.edu.sa
Secretary of the Vice Dean for Academic Affairs	5897427	7427	aalahmed@kfu.edu.sa
Secretary of the Vice Dean for Postgraduate Studies and Scientific Research	5897425	7425	aalbajuber@kfu.edu.sa
Secretary of the Vice Dean of the College of Science for Studies, Development and Community Service	5897449	7449	aalmusawi@kfu.edu.sa
Transcriber and Secretary of the College Council	5897426	7426	althaqeb@kfu.edu.sa
Head of the Department of Physics	5897417	7417	physics@kfu.edu.sa
Secretary of the Department of Physics	5897441	7441	aaaalismail@kfu.edu.sa
Head of the Department of Chemistry	5899576	9523	chem@kfu.edu.sa
Secretary of the Department of Chemistry	5899576	9576	falshammari@kfu.edu.sa
Head of the Department of Biological Sciences	5899542	9542	biology@kfu.edu.sa
Secretary of the Department of Biological Sciences	5899404	9404	aalabdulathim@kfu.edu.s a
Head of the Department of Mathematics and Statistics	5899417	9417	math@kfu.edu.sa
Secretary of the Mathematics Department	5899457	9457	aalhuball@kfu.edu.sa
Manager of Administrative Affairs in the faculty	5899987	9987	aziz@kfu.edu.sa
Secretary of Administrative Affairs	5897429	7429	malbusilan@kfu.edu.sa
Secretary of Administrative Affairs	5899105	9105	ealawas@kfu.edu.sa
Administrative affairs transcriber	5897425	7425	kshanout@kfu.edu.sa
Technical Affairs Manager	5897407	7407	aaldughish@kfu.edu.sa
Secretary of the Technical Affairs Manager	5895284	5284	aaljbarh@kfu.edu.sa
Administrative Communications	5899416	9416	aalthani@kfu.edu.sa
Faculty Registrar	5897428	7428	aalbadi@kfu.edu.sa
Broadcast Operation Technician	5899517	9517	naboanz@kfu.edu.sa
	5899445	9445	
College technical support	5899410	9410	yalmujaljl@kfu.edu.sa
	5899453	9453	

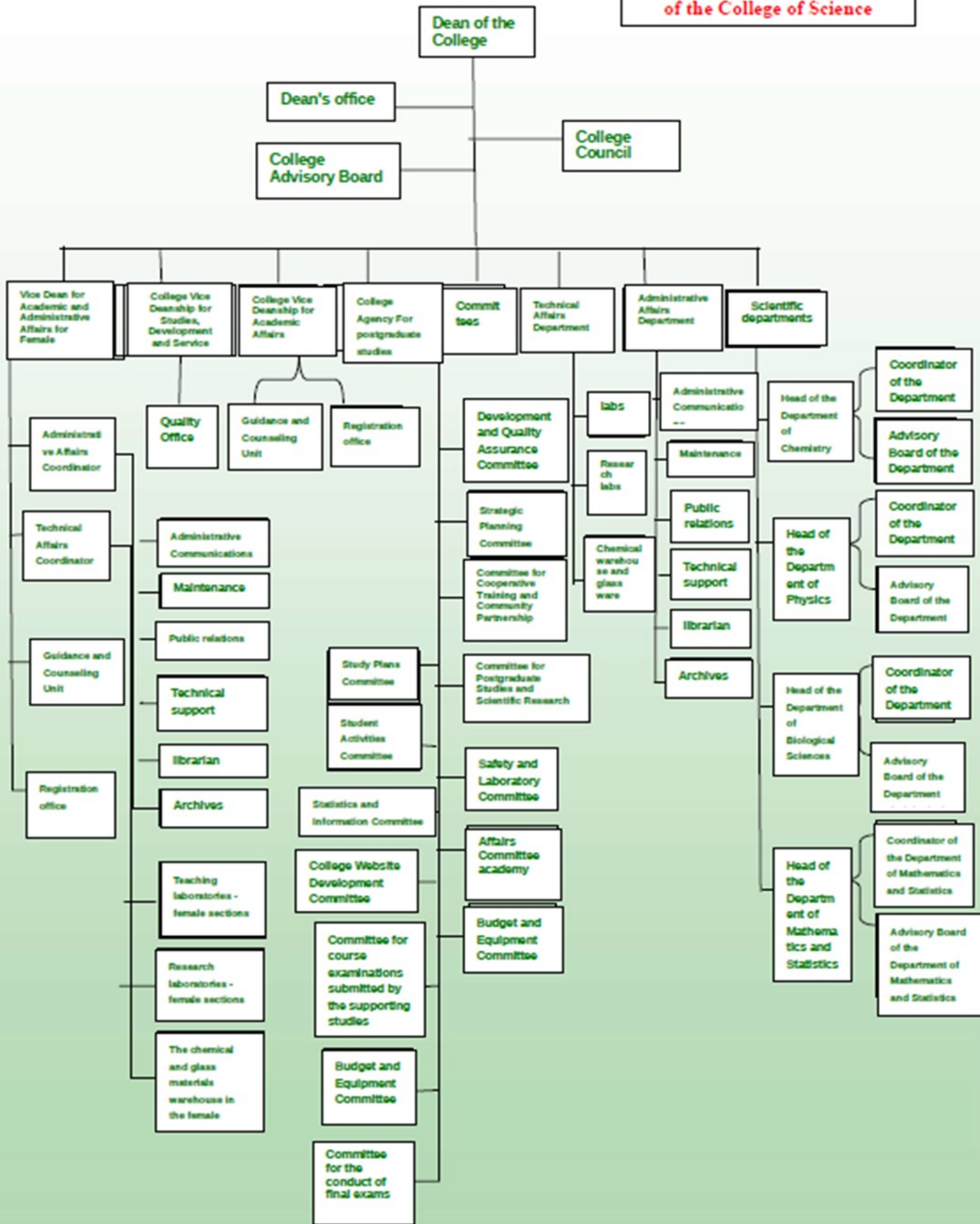
Female Section

Administrative position	Phone number	Ext	E-mail
College Vice Dean	5897474	7474	kaltisan@kfu.edu.sa
Administrative Affairs Coordinator	5897462	7462	ealfuwaires@kfu.edu.sa
Director of the Vice Dean's Office	5897458	7458	jalsaltan@kfu.edu.sa
Technical Affairs Coordinator	5897585	7585	lalmarzoog@kfu.edu.sa
Vice Dean Secretary	5897464	7464	kalasri@kfu.edu.sa
Student activities	5897576	7576	mmalqhatani@kfu.edu.sa
Alumni office	5897587	7587	malmohis@kfu.edu.sa
Academic affairs	5897465	7465	reomair@kfu.edu.sa
Administrative Communications	5898008	8008	salhulibi@kfu.edu.sa
College register	5897463	7463	abogbie@kfu.edu.sa
College register	5897528	7528	falqhtani@kfu.edu.sa
Psychological guidance and counseling unit	5896477	6477	mmalqhatani@kfu.edu.sa
Coordinator of the Department of Physics	5895646	5646	salaithan@kfu.edu.sa
Physics Secretary	5897514	7514	nalnagar@kfu.edu.sa
Coordinator of the Department of Chemistry	5897503	7503	Walarjan@kfu.edu.sa
Secretary of the Department of Chemistry	5897527	7527	galjuhani@kfu.edu.sa
Coordinator of the Department of Biological Sciences	5897459	7459	najlaks@kfu.edu.sa
Secretary of the Department of Biological Sciences	5897709	7709	aalmubirik@kfu.edu.sa
Coordinator of the Department of Mathematics and Statistics	5898350	8350	falmukahal@kfu.edu.sa
Secretary of the Department of Mathematics and Statistics	5897493	7493	Salhadi@kfu.edu.sa
College Library	5897586	7586	kalabdalkadar@kfu.edu.sa
Supervisor of Building 54	5897712	7712	aalmokahwie@kfu.edu.sa
Photography office	5897598	7598	hbushaeb@kfu.edu.sa
Photography Officer	5897588	7588	galshrany@kfu.edu.sa
Testament and maintenance	5897460	7460	balrahman@kfu.edu.sa
Supervisor (Maintenance)	5897460	7460	walhaqbani@kfu.edu.sa
Building Superintendent (Maintenance)	5897500	7500	aalmahbob@kfu.edu.sa
Technical assistant (conditioning)	5899463	9463	hallhilal@kfu.edu.sa
Technical operation	5897553	7553	aalshaib@kfu.edu.sa
Light current electricity	5897553	7553	nrallyousif@kfu.edu.sa
Responsible librarian	5897589	7589	hbushaeb@kfu.edu.sa
Technical support	5897599	7599	eiaotheemyn@kfu.edu.sa
Nursing	5897571	7571	ahaleid@kfu.edu.sa
Correspondence	5898003	8003	malasmakh@kfu.edu.sa

Capacity of halls and laboratories at the College of Science

Lab capacity at the College			Capacity of halls at the College		
Male Section			Male Section		
			No	The number of halls	Its capacity
Chemistry	12	25			
Physics	12	25	1	6	28
Biology	12	25	2	14	64
Research lab	12	25	3	1	72
Computer lab	1	13	4	1	84
Computer lab	1	14	5	1	182
Computer lab	4	15			
Computer lab	1	16	Female Section		
Computer lab	1	18	The number of halls		
Computer lab	1	63	Its capacity		
Female Section			1	4	40
			2	6	50
Chemistry	7	20	3	4	65
Chemistry	1	35	4	6	100
Physics	5	20	5	1	120
Physics	2	35	6	1	143
Biology	8	20	7	1	48
Computer lab	2	20	8	2	144
Computer lab	1	30	9	1	240
Research lab	2	25			
Research lab	4	4			
Research lab	4	12			
Research lab	2	35			

The administrative structure of the College of Science



Administrative tasks in the college:

The college administration forms several committees, each with administrative tasks as follows:

Strategic Planning Committee:

- 1-Knowing the college's vision, mission and goals, and proposing amendments to the current vision, mission and goals, or building a new vision, mission and goals.
- 2-Periodically reviewing the strengths, weaknesses, risks and opportunities of the college, and linking them to the college's goals.
- 3-Provide recommendations to the Dean of the College on the challenges facing the educational, research and service process in the college.
- 4-Develop the college's operating plan, follow-up and implement it.
- 5-Establishing a time plan for the academic accreditation and supervision of the various college programs.
- 6-Identifying research interests and their tracks in the college, and linking them to the university's strategic line.
- 7-Follow up on everything issued by the university administration regarding the strategic plan of the university, as well as what is issued by the strategic planning department and circulate it to the various departments of the college.
- 8-Work to spread the culture of strategic planning among the faculty staff.
- 9-Following up the other general committees in the college in carrying out their roles and performing their duties, and coordinating among the committees with common tasks.

Study Plans Committee:

- 1-Introducing the visions of the academic programs in the college, their missions and goals, and proposals for modification of the current vision, mission and goals, or building a new vision, mission and goals, in accordance with the requirements of the university's study plans guide.
- 2-Review the outcomes of the various college programs, according to the requirements and needs of the labor market.
- 3-Proposing external and internal academic reviewers to evaluate the study plans for the various college programs.
- 4-Proposing the activation of new programs, building their study plans, stopping work on existing programs or modifying their study plans, according to the requirements of the labor market, and based on the results of the beneficiaries' evaluation.

Budget and Equipment Committee:

- 1-Study the needs of the different departments, laboratories and classes, reconcile them, and provide priorities. In order to better invest in the approved budget for the college.
- 2-Proposing a mechanism for distributing the college's budget and allocations to the various departments in the college, taking into account the number of students in each department, and the equipment available in the laboratories of the different departments.
- 3-Recommend to increase or reduce allocations to some departments based on the data available to the committee, in terms of the number of courses offered, the number of its laboratory lessons, and its training needs.
- 4-Evaluate the budget provided by the university administration, measure its compatibility with the requirements of the academic plans of the academic departments, and the research interests of the college. It provides the results of the evaluation to the Development and Quality Assurance Com-

Development and Quality Assurance Committee:

- 1-Follow-up of everything issued by the National Commission for Academic Accreditation and Assessment and the Deanship of Development and Quality Assurance on quality and development, and circulate it to the various departments of the college.
- 2-Knowing the requirements for academic accreditation and providing the academic departments of the college with these requirements.
- 3-Evaluating the quality of the educational, research and service process in the college (self-evaluation) by conducting surveys or investigation of individuals and beneficiaries.
- 4-Spreading the culture of quality and defining it within the college, by holding internal courses for students, faculty members, technicians and administrators.
- 5-Study the reports (course evaluation) conducted by the college students, and come up with appropriate recommendations for each course, and discuss them with the head of the relevant academic department.
- 6-Prepare an annual plan to determine the training needs of faculty members and technicians and follow up on their implementation.
- 7-Supervising and following up the induction programs for new faculty members.
- 8-To propose a mechanism to stimulate excellence at the college, university and community levels.
- 9-Follow up the implementation of the course report, the program report with the academic departments in the college at the end of each semester (or quarterly) and receive the final reports of the workshops held by the departments. Reports of the courses and programs.

The Cooperative Training and Community Partnership Committee:

- 1-List the social and environmental needs that the various departments of the college can provide to the community.
- 2-Providing scientific, technical and training guidance to external bodies to achieve the principle of community partnership.
- 3-Evaluating the extent of faculty members' participation in providing community services, and measuring the extent of the beneficiaries' satisfaction with the university's community services.
- 4-Organizing introductory events for the college, such as the open day and career day Communicating with graduates and strengthening the relationship with them.
- 5-Establishing a timetable for each academic year for cooperative training programs in cooperation with external agencies.
- 6-Communicating with external parties and open communication channels with them in everything that achieves cooperative training plans, and the goals of community partnership.
- 7-Evaluating the performance of students and training bodies, and addressing the obstacles that hinder the cooperative training processes.

Study the needs of the labor market:

- 1-The committee carries out an integrated study of the needs of the labor market with preparing the forms for the questionnaires aimed at studying the needs, analyzing and summarizing the results and preparing a final report on what has been achieved.
- 2-The working plan includes all of the following:
 - A- Preparing the questionnaires aimed at studying the need for the labor market.
 - B - Determine the beneficiaries of the study.
 - C - Communicate with the authorities and collect data.
 - D- Data analysis, preparation of final reports and recommendations.

Statistics and Information Committee:

- 1-Documenting the college's activities.
- 2-Collecting the college's internal executive regulations and administrative decisions, and facilitating the process of viewing them.
- 3-Supervising the faculty page, and the pages of faculty members on the university's website, following up their implementation and updating them.
- 4-Establishing and updating a data hall every semester or (two quarterly), and it includes:
 - Collecting data related to matters of scientific publishing, writing, translation and service activity in the academic departments of the college and preparing them in graphical tables, and making them available to the Committee for Postgraduate Studies and Scientific Research.
 - Preparing tables related to the number of students, faculty members, technicians and administrators, and providing them to the Development and Quality Assurance Committee to link them to the college's development needs.
 - Preparing tables related to laboratories, offices, multi-purpose halls and various devices, and providing them to the Safety Committee and Laboratories to help it take appropriate recommendations for purchase requests.
 - Preparing spreadsheets of the names of external bodies that are related to the departments of the academic college and its various scientific programs. The committee provides cooperative training and community partnership, to link them in the events of the committee and its various activities.

Postgraduate Studies and Scientific Research Committee:

1- Coordinating the work of graduate students, which includes: coordinating the academic schedule of the college, registering courses, deleting and adding, postponing, discontinuation, folding and re-turning registration, denial, coordinating examination schedules, following up on the delivery of results, receiving new students, reviewing records of students expected to graduate, and considering excuses provided by students in the absence of their studies, in accordance with university rules and regulations.

2- Coordination with the Deanship of Graduate Studies in all matters related to the affairs of students in the master's and doctoral levels.

3- Development and review of admission requirements for graduate studies.

4- Coordination with the Deanship of Scientific Research and research centers at the university regarding conducting research and obtaining support for it

5- Motivating faculty members in the college and helping them to submit research proposals to external support bodies.

6- Considering the research proposals of faculty members submitted to the Deanship of Scientific Research, and making sure that they are compatible with the research interests of the college.

7- Consider research proposals for postgraduate students, and ensure that they are sound research methodology, and that it is compatible with the research interests of the faculty, related to the needs of the environment and society.

8- Coordination with the departments of the faculty in creating new graduate studies programs, updating existing programs, or evaluating them.

9- Evaluate and encourage research performance and scientific publication in the college, identify their obstacles, and search for ways to overcome these obstacles.

10- Working on rooting scientific publishing in scientific journals with great influence.

11- Supervising and operating the central laboratory in the college, in case of its existence.

12- Assisting male and female teaching assistants in scholarships to prestigious universities; To achieve a high level of future performance of faculty members.

13- Contributing to following up the conditions of the faculty scholars abroad and helping them.

14- Contribute to attracting distinguished researchers for the college

Safety and Laboratories Committee:

- 1-Interdepartmental coordination to standardize common-purpose devices.
 - 2-Ensure that the laboratory equipment available in the college's laboratories is not repeated, and coordinate between departments by investing the available equipment at the college level.
 - 3-Examining requests for hardware purchases submitted by the college departments.
 - 4-Work to spread the culture of (safety first) in all college facilities.
 - 5-Inventorying all movable and immovable devices, ensuring their suitability for work, and following up their permanent maintenance.
 - 6-Inventorying laboratory equipment and chemicals in laboratories and ensuring the safety of the methods used for preservation.
 - 7-Evaluating the laboratory capabilities and scientific equipment, measuring their compatibility with the requirements of the study plans of the academic departments, the research interests of the faculty, and providing the evaluation results to the Development and Quality Assurance Committee.
 - 8-Ensure that the college's departments abide by written and clear safety requirements in the department's laboratory.
- Ensure that all analytical procedures and scientific methods are written in standardized forms - at the college level - as explained as following:
- a. The name of the analysis or method.
 - b. The location of the laboratory in which the analysis or method will be conducted and its number.
 - c. The equipment and materials used in the analysis, with mentioning the materials' type and risks.
 - d. A description of the analysis, stating the risks - if any - of carrying out such an analysis.
 - e. Precautions needed to be taken to conduct such an analysis.
 - f. Method of disposal and disposal of used chemicals and their resulting materials.

Academic Affairs Committee:

- 1-Coordination of academic affairs for undergraduate students, which includes: coordinating the academic schedule of the college, registering courses, deleting and adding, transferring, discontinuation, folding and returning registration, denial and transfer, coordinating the examination schedule, following up on the delivery of results and receiving new students, reviewing the records of students expected to graduate, and looking into the excuses provided by students for their absence from studies, in accordance with the university's rules and regulations.
- 2-Examining the applications submitted to the committee regarding reexam of the semester or final exams for the Bachelor's or Master's level
- 3-Coordination with the Deanship of Admission and Registration in everything related to academic affairs for undergraduate students.
- 4-Preparing and updating the student guide periodically, ensuring that it includes the study plans for the college programs in brief, and the internal regulations of the college - if any - along with the rules related to the study regulations and undergraduate exams.
- 5-Establishing a mechanism for distributing college students to the various departments and applying it after approval by the College Council.
- 6-Establishing a mechanism to help in supporting defaulting students, and submitting recommendations regarding them to the College Council.
- 7-Establishing a clear and announced mechanism for how to receive students' complaints, and applying it after the approval of the College Dean.
- 8-To propose a mechanism to stimulate excellence and creativity in students' performance, and to nominate distinguished ones for excellence awards at the college, university and community levels.

Organizing the conduct of the final exams:

- 1-Preparing the halls necessary for conducting the tests.
- 2-Establish the schedule of observations, their distribution, and ensure compliance with them.
- 3-Organizing procedures for receiving and submitting exam questions.
- 4-Coordination with the bodies supporting the testing process from outside the college (security and safety, public services, medical services, movement)
- 5-Coordination with other colleges regarding the courses submitted to these colleges by the College of Science.
- 6-Ensure the proper way of the testing process and ensure its regularity.

Organizing the conduct of the quarterly and final exams for the general courses:

- 1-Counting the general courses taught to female students, and counting the number of female students (regular or Black Board)
- 2-Communicate with faculty members to organize procedures for receiving and submitting exam questions (regularity).
- 3-Communicating with the Center for the Deanship of E-Learning about examining the courses taught through the quarterly and final Black Board system.
- 4-Preparing the halls necessary for conducting the quarterly and final exams.
- 5-Nominating faculty members for observing examinations and submitting them for approval by the Dean of the College.
- 6-Submitting the supervisory schedules received to the college by the Support Services Center.
- 7-Ensure the proper way for the semester and final exams.
- 8-Receive excuses for students who missed the semester and final exams and raise them to the faculty committee.
- 9-Study the notes received by the Deanship of E-Learning.

Student Activities Committee:

- 1-Preparing a time plan for the student's scientific, sports, cultural and entertainment activities, following them up, and supervising their implementation within the college.
- 2-Evaluating the activities of all kinds of student activities and submitting the necessary proposals to raise their level.
- 3-Coordination for the holding of cultural and social meetings, scientific exhibitions and field visits.
- 4-Encouraging and adopting student initiative, and working to implement it in coordination with the Deanship of Student Affairs.
- 5-Coordination with the Deanship of Student Affairs in everything related to student activities, and with other concerned authorities within the university
- 6-Receiving visiting delegations to the college.

The Graduate Unit Commission:

- 1-Inventorying the graduates in the college for five previous years and creating a data base for graduates of previous years.
- 2-Collecting alumni data for each semester and creating a mechanism to communicate with them after graduation.
- 3-Communicating with graduates of previous years to know the extent of their benefit from the certificates they obtained.
- 4-Submitting a link on the college website to communicate with the graduates, through which advertisements of interest to graduates are placed, such as introducing for employment for companies or institutions, as well as addresses of the most important companies to know the extent of their need for college graduates Also to know what are the possibility of employment for graduates after graduation and what companies can the graduate work for them through a voluntary way to gain experience in the field of work.

College Website Development Committee:

- 1-Working on preparing two interfaces for the college website in both languages (Arabic and English) for all departments of the college.
- 2-Review the website (Arabic _ English) and update the content periodically.
- 3-Inclusion of the study plans and course content for the college departments in both languages.
- 4-Provide the college students for the undergraduate and graduate studies with all important and useful information about the college and include it on the website.
- 5-Documenting what the college has of the capabilities, equipment, etc. (photographs) in order to be used when necessary.
- 6-Show the various activities of the college on the site and update them continuously.
- 7-Easy access to faculty members' personal websites by including their addresses, résumés, and scholarly papers.

Admission requirements:

Obtaining a General Secondary Certificate- Department of Natural Sciences with a percentage of not less than 75%. Passing the tests of the National Center for Measurement and Evaluation. That the weighted percentage be 30% of the GPA of the General Secondary Certificate, 30% of the Aptitude Test score, and 40% of the Achievement Test score. The applicant must obtain a weighted percentage of 70% and higher to enter the preference for admission.

No more than five years have passed since the General Secondary Certificate or its equivalent, and the University Council may make an exception from this requirement if there are convincing reasons. Attend the English language placement test.

The study began in the year 1439-1440 AH in the English language, and the college applies the condition of passing the preparatory year. Obtaining the approval of the employer to devote time to study and attendance, if the applicant is an employee in one of the government or private sectors. To fulfill any other conditions determined by the University Council and announced at the time of application.

Study Regulations:

The college presents its courses in consecutive semesters according to what is stated in the study plan, with the application of all other academic and regulatory rules and procedures contained in the undergraduate study and examination regulations.

The study at the college is on the levels system and the study consists of eight levels.

The duration of the academic level is one semester.

The student progresses in studying and succeeding in the courses of the academic levels in accordance with the provisions of the transition from one level to another.

The student registers the academic courses electronically on the (Banner) system according to the university calendar schedule and the rules and regulations announced by the Deanship of Admission and Registration on the university's website.

Courses are registered in a manner that guarantees the student the minimum academic load in each semester,

the following points are taken into account:

1-No conflict in the study schedule.

2-Satisfying the previous requirements of the course or courses to be registered.

study attendance:

The regular student must attend the lectures and practical lessons and is prohibited from entering the final exam if his attendance rate is less than (75%) of the lectures and practical lessons specified for each course during the semester. The student who was denied entry to the exam due to his absence is considered to be failed in the course, and a deprived grade will be assigned to him (DN).

The college council or whomever it delegates may delete the ban and allow the student to enter the exam, conditioning that the student submits an excuse acceptable to the council.

The student who is absent from the final exam will have a score of zero in that test, and his grade in that course is calculated on the basis of the semester work grades obtained.

If the student is unable to attend the final exam in any of the semester courses for a compulsive excuse, the College Council may, in cases of extreme necessity, accept his excuse and allow him to be given an alternative test within a period not exceeding the end of the next semester, and the grade obtained after performing the alternative test is given.

Postponement, apology and dropping out of study

A student may submit a request to postpone the study for an excuse accepted by the College Council, considering that the period of postponement does not exceed two consecutive academic semesters or three non-consecutive semesters as a maximum for his study duration at the university and then his registration is folded after that. The University Council may, in case of necessity, make an exception from that, and the postponement period is not counted within the period necessary to complete his graduation requirements.

It is permissible for the student to apologize for continuing to study a semester without being considered as a failing if he submits an acceptable excuse to the College Council during the period specified by the rules and regulations of the Deanship of Admission and Registration at the faculty. The student is given a grade of (W) and this semester is counted from the period necessary to complete the graduation requirements (4 years), and the approval of the student's guardian is required when she submits to apologize for continuing in the study or postponing.

If a student stops studying for a semester without requesting a postponement, his registration in the university will be terminated, and the University Council may terminate the student's registration if he stops studying for a shorter period. The student is not considered to be terminated studying for the semester he is studying as a visitor at another university.

Re-enroll the student for study

The student whose registration has been withdrawn (who has dropped out of study) may apply for re-registration with his number and his record prior to discontinuation in accordance with the following regulations:

- To apply for re-registration within four semesters from the date of the enrollment revocation.
- The College Council approves the re-registration of the student.
- If four semesters or more have passed since the student's enrollment has been terminated, he can apply to the university as a new student without referring to his previous academic record, provided that he meets all the admission requirements announced at the time. The University Council has an exception from this in accordance with regulations issued by the Council.
- It is not permissible to re-enroll a student more than once, and the University Council - in case of necessity - may make an exception.
- It is not permissible to re-enroll a student whose registration has been withdrawn if he is academically dismissed.
- A student who withdraws from the university may be re-registered so that his application is submitted to the College Council to study the possibility of returning to study if there is a convincing reason, provided that he is not academic warning of the last semester in which he studied, and no more than two semesters have passed since his withdrawal from the university.
- No postponement or apology may be given after re-enrolling the student for study for the semester in which he was re-enrolled.
- It is not permissible to re-enroll a student who was dismissed from the university for educational or disciplinary reasons, or who was dismissed from another university for disciplinary reasons, and if it becomes clear after his re-enrollment that he was previously dismissed for such reasons, his registration is considered canceled from the date of re-registration.

Graduation

The student will graduate after the completion of the graduation requirements successfully according to the study plan, provided that his GPA is not less than acceptable, and the College Council - based on the recommendation of the relevant department council - determines appropriate courses that the student will study to raise his GPA in the case that he succeeds in the courses and fails in the GPA.

Dismissal from the university

The student is dismissed from the university in the following cases:

If he gets three consecutive warnings at most because his GPA is lower than (2.0 out of 5), and the University Council, based on the recommendation of the College Council, may give a fourth opportunity to whoever can raise his GPA by studying the available courses.

If the student does not complete the graduation requirements within a maximum period (half of the period prescribed for graduation in addition to the duration of the program), the University Council may give an exceptional opportunity to the student to complete the graduation requirements with a maximum of double the original period specified for graduation.

In exceptional cases, the University Council may address the conditions of students to whom the provisions of the two previous paragraphs apply, to give them an exceptional opportunity that does not exceed two semesters at most.

Transferring to the College of Science from another college outside King

Faisal University

A student may be transferred from outside the university according to the following regulations:

A - The student must have studied at a recognized college or university.

B- Passing the preparatory year or if the language of study at the university from which he is transferred is English.

C- He must have spent at least two semesters at the university from which he wishes to transfer, provided that the number of study units registered in his academic record is not less than (24) units, and that his results in the courses that will be calculated for him after the transfer are not less than good. (C)

D - He should not be dropped from his study, academically dismissed, or his enrollment suspended from the university from which he is transferred.

E- His cumulative GPA upon transfer is not less than (3.00) from (5.00) or (2.40) from (4.00), and that the student studies at King Faisal University at least 70% of the graduation requirements, and the College Council can make an exception from that.

F - To submit the transfer application electronically at least five weeks before the start of the semester to which he wishes to transfer.

The College Council equates the courses that the student has studied outside the university based on the recommendations of the departments that offer these courses. The courses that have been equated to him are recorded in the student's academic record and are not included in the calculation of his GPA.

Attachments required when submitting a transfer application from outside the university:

Fill out the transfer request form electronically with each of the following:

- A copy of the secondary school certificate.
- Academic registration.
- Description of the courses previously studied at the university to be transferred from.
- A copy of the national identity card.
- Any other documents for people with social and humanitarian conditions.

Transferring to the College of Science from another college within King

Faisal University

The College Council may approve requests for transfer from other colleges within the university in accordance with the following regulations:

- a) The student must pass the preparatory year with a grade of no less than 2.75.
- B) He must not have dropped out of the college from which he wishes to transfer.
- C) To submit the transfer application electronically at least five weeks before the beginning of the semester to which he wishes to transfer.
- E) Any other conditions specified by the College Council.

Transferring between colleges of the university is allowed for one time during the duration of the university study.

All courses previously studied, including grades, semester and cumulative averages, are recorded in the academic record of the student transferred from one college to another throughout his studies at the university.

Attachments required when submitting the transfer application from within the university:

Fill out the transfer request form.

A copy of the secondary school certificate.

Academic registration.

A copy of the national identity card.

The college council may make an exception when transferring from one university to another, or from one college to another, for female students with exceptional circumstances, taking into account the following rules:

- a) The student has completed a semester at her university or college.
- B) To attach to her application an official document proving the human condition, the new place of residence and the need to move after acceptance, such as (the death of the guardian - divorce - marriage - the retirement of the guardian - the transfer of the guardian outside the place of study).

Transferring between scientific departments within the College of Science.

After the approval of the Dean of the faculty, the student may transfer from one major to another within the college according to regulations set by the University Council.

All subjects previously studied will be recorded in the academic record of the transferred student, including grades, semester and cumulative averages.

The transfer is made between departments of the college according to the possibility of the department to which the transfer is requested, after fulfilling the following conditions:

- A- The student finishes (24) hours of the program that includes the common core courses in the first year of the study plan.
- B - Approval of the faculty academic affairs committee.
- C - The transfer is for one time for the duration of the university study.

Attachments required when submitting the transfer application from within the

university:

Fill out the transfer request form.

A copy of the secondary school certificate.

Academic registration.

A copy of the national identity card.

Visiting student:

Students who studies some courses at another university or in a branch of the university to which he belongs without transferring him, and the courses he studied will be equivalent to him according to the following regulations:

The approval of the college in which he is studying in advance to study.

The study must be in an accredited college or university.

The course the student is studying outside the university must be equivalent or (balanced) in its syllabus to one of the courses included in the graduation requirements.

To equivalent the courses taken as the visiting student outside the university, the student must pass the course with a grade of no less than good.

The grades of the courses that are equivalent to the visiting student from another university are not counted in his GPA, and the courses are recorded in his academic record.

A student is not entitled to study as a visitor student for more than two semesters, so that the total number of study units that can be calculated from outside the university does not exceed 30% of the total units needed for graduation.

The student must have completed at least two semesters before submitting the study application as a visitor student outside the university.

College examination regulations

Entry of the exam by the student's university card and adhere to the official uniform.

A student may not enter the final exam after half an hour has passed from its beginning, and he is not allowed to leave the exam before half of the exam time has elapsed.

Cheating or attempting to cheat and violating the instructions and rules for conducting the exams are not allowed for which the student is punished in accordance with the Student Disciplinary Regulations issued by the University Council.

A student who wishes to re-mark the exam answer sheet may submit a request to do so to the Dean of the College or his authorized representative within two weeks from the date of announcing the result.

Bring all the necessary and permitted tools to the exam, such as pens, a calculator, and so on, and it is not allowed to trade or borrow these tools during the exam.

If the calculator is allowed to be used, the student may perform the calculations through the calculator and not through the calculator applications found in watches, mobile phones, or any other device.

Committing to calm while sitting for the exam and completely avoiding engaging in any work that is contrary to academic and ethical norms before and during the exam.

Not possessing electronic devices such as cell phones, electronic watches and so on while sitting for the exam, and possessing them is a clear violation of the test instructions and falls at least under "attempted cheating," even if possession of them is not intended to attempt to cheat.

Academic Consultation and Guidance:

Academic counseling represents a fundamental pillar in the educational system, as with the beginning of students' enrollment in the scientific departments of the college, they are distributed among academic advisors from the faculty members, each according to his / her specialization.

The goals of academic advising:

- To enhance the student's love of belonging to the educational institution and to adapt to the university environment.
- Addressing student, academic, behavioral and social problems that affect educational and intellectual achievement for them.
- Benefiting from the experiences of faculty members in helping the student to formulate his goals and make appropriate and responsible decisions related to his professional and scientific future.
- Linking student support and quality standards.
- Contributing to the formation of the university student's personality on foundations of correct belief and sound behavior.

Tasks of the academic advisor

- Introduce the new student to the courses system.
- Building a good relationship with the student and working to provide help and assistance to him.
- Follow up the student's academic record.
- Helping the student to follow the study plan prepared by the department through electronic guidance to the student.
- Provide the student with accurate information about the institution's policies, regulations, laws and capabilities.
- Monitor and discuss topics related to the student's academic progress.
- Demonstrate to the student the concept of office hours and the importance of communicating with his teachers.
- Preparing the student's academic advising file (making sure of the student's registered credit hours).
- Answering inquiries and welcomes student visits.
- Organizing a schedule for academic advising sessions (according to the forms designated for this).
- Guide and direct the student who is late in his study.
- Taking care of outstanding students.
- Providing aid and advice to struggling students.
- Encouraging students to participate in extra-curricular activities inside and outside the university.
- Monitoring the student's achievements.

Rights and Duties :

Male and female students are committed to values, standards and moral codes towards the systems, regulations and provisions in force in Kingdom and they pledge in particular what

Follows:

- Towards the university
- Towards a faculty member
- Towards colleagues
- Towards research and field training
- Towards student activities

Towards the university

- Commitment to Islamic and national values and reinforcing the university's values in its behavior inside and outside the university.
- Good representation of the university in the activities, programs and tasks that it participates in internally and externally.
- Ensuring the implementation of the university's vision, mission, goals, instructions, programs and activities.
- Respect for all university employees and respect the authorities assigned to them.
- Pride in belonging to the university and reflecting a positive image of it.
- Commitment to good behavior and morals and adherence to public morals.
- Take care and preserve the good appearance of the people in line with prevailing traditions.
- Knowing the rights and duties of the student in accordance with the rules and regulations of the university and abiding by them.
- Commitment to perform the academic and non-academic duties assigned to the student in accordance with the rules and regulations of the university.
- To be keen on knowing and following up everything related to the study system and graduation requirements at the university, and to assume full responsibility for that.
- Preserving public and private property and not tampering with it.
- Observing the administrative hierarchy in the event of claims or complaints, and complying with the procedures followed at the university.
- Constant communication with the university after graduation through the alumni office.
- Adherence to the rules, regulations, instructions and procedures that regulate the progress of the educational process at the university (lectures, exams, cheating) And others ...

Towards a faculty member

- Respect the faculty member and abide by his instructions that regulate his relationship with students at the university.
- Adhering to the etiquette of dialogue and discussion with him, and asking permission before speaking, as well as when entering or leaving the room.
- Focus during lectures with a faculty member and not be preoccupied with side conversations or anything that loses focus and mental presence.
- Ensure to respond to the questionnaires for evaluating faculty members, and to investigate the truth and objectivity of that.

Towards colleagues (other students)

- Dealing with colleagues with respect, courtesy and appreciation, and maintaining a good relationship with them without discrimination.
- Reject fanaticism based on sectarian, racial or other grounds.
- Cooperate and work with colleagues in a team spirit.
- Adhere to the etiquette of dialogue when talking with his colleagues and avoid verbal or physical violence.
- Avoid mentioning to colleagues on social media things that may hurt their feelings, or expose them, and their reputation.

Towards Research and field training

- Truthfulness and objectivity when preparing scientific research and checking accuracy when transmitting and quoting.
- Adherence to the dates of attendance and departure specified for the lectures, adherence to the dates specified in the field training, and completion of the required hours.
- Commitment to the duties specified in the courses.
- Ensure compliance with all tasks specified by the training authority in field training.
- Adherence to the ethics of the profession and all the rules and regulations governing the training authority.
- Maintaining the confidentiality of the information that the student can see in the field training authority and not disclosing or circulating it.
- Cooperation and exchange of experiences and knowledge with colleagues in the completion of field training tasks.

Towards Student activities

- Active participation in student activities and programs organized by the university to achieve balanced development for the student.
- Ensure that he appears positively during his participation in student activities.
- Exhibiting sportsmanship and avoiding fanaticism that spoils the spirit of honest competition.
- Honesty and credibility in everything related to financial and other matters.
- Supervising representation of the university during its appearance in any means of social or media.
- Commitment to all tasks assigned to him in any event or activity, and to act with a sense of responsibility.

Complains and Grievances

The College recognizes an individual's right to raise an issue or concern regarding the conduct of the College's and University's operations, services, staff and facilities, and the applications of its policies and procedures. The College encourages an organizational culture that responds to issues and concerns in a receptive and constructive manner and in accordance with the principles of procedural fairness and natural justice. The College welcomes your feedback and provides a comprehensive Complaint and Grievance framework to ensure best practices and support as you engage in a resolution process. Before student submit a formal complaint or grievance, we encourage student to try and resolve the issue informally with the person or area responsible, provided you feel comfortable to do so. The formal complaint and grievance will require student to outline the history and provide evidence of the issue or concern. Then, you need to prepare an official letter to be send to your head-department with a copy to the Dean of College emails.

Calculations of the semester GPA and GPA according to the executive rules of King Faisal University

The grades obtained by the student in each program / course are calculated as follows:

Value (English)	Value (Arabic)	Points (out of 5)	Grade Range	Symbol (English)	Symbol (Arabic)
Exceptional	ممتاز مرتفع	5.00	100-95	+A	أ+
Excellent	ممتاز	4.75	90-95	A	أ
Superior	جيد جداً مرتفع	4.50	85-90	+B	ب+
Very Good	جيد جداً	4.00	80-85	B	ب
Above Average	جيد مرتفع	3.50	75-80	+C	ج+
Good	جيد	3.00	70-75	C	ج
Pass-High	مقبول مرتفع	2.50	65-70	+D	د+
Pass	مقبول	2.00	60-65	D	د
Fail	راسب	1.00	less than 60	F	هـ
In-Progress	مستمر	--	--	IP	م
In-Complete	غير مكتمل	--	--	IC	ل
Denial	محروم	1.00	--	ND	ح
No grade-Pass	ناجح دون درجة	--	60 and more	NP	ن د
No grade-Fail	راسب دون درجة	--	Less than 60	NF	هـ د
Withdrawn	منسحب بعذر	--		W	ع

Calculating points for each subject:

Points = Points representing the course grade X the number of hours of the course

Example:

Islamic Culture (2 hours) A +

Points = 5 x 2 = 10 points

Another example:

Literary savor (2 hours) C

Points = 3 x 2 = 6 points

Calculating the semester's average grade and GPA (examples):

First Semester:

Course Code	Course Name	Credit Hours	Grade	Letter Grade	Points
•٢٣١١٠١	Health & Fitness	٢	٩١	A	٩,٥
•٨١٥١٠١	G. Chemistry 1	٤	٦٥	D+	١٠
•٨١٤١٠١	G. Physics 1	٤	٨١	B	١٦
•٨١٦١٠١	G. Biology	٤	٧٥	C+	١٤
•٨١٧١٠٣	G. Mathematics	٣	٨٥	B+	١٣,٥
Total	---	١٧	---	---	٦٣

First Semester Average Grade = total points/total hours = $63/17 = 3.7$

Second Semester:

Course Number	Course Name	Credit Hours	Grade	Letter Grade	Points
•٢٠٢١٣٢	Literary Appreciation	٢	٧٣	C	٦
•٨١٥١١١	G. Chemistry 2	٤	٧٣	C	١٢
•٨١٥١١٢	Organic Chemistry 1	٤	٨١	B	١٦
•٨١٧١١٠	Calculus 1	٣	٧٥	C+	١٠,٥
١٨١٧٢٠٧	Introduction to Statistics	٢	٨٥	B+	٩
Total	---	١٥	---	---	٥٣,٥

Second Semester Average Grade = total semester points/total semester hours = $53.5/15 = 3.57$,

GPA = total points/total hours = $(53.5+63)/(15+17) = 3.64$

The student's average can be calculated electronically through the link on the Deanship of Admission and Registration website.

Obtaining an honors degree:

- First class honors are awarded to a student with a GPA of (4.75) to (5.00) out of (5.00) upon graduation.
- A second honors degree is granted to a student with a GPA of (4.25) to less than (4.75) out of (5.00) upon graduation.
- Requirements to obtain a first or second honors degree:
 1. The student should not have failed a course he studied at the university or at another university.
 2. That the student has completed the graduation requirements within a maximum period of average duration between the minimum and maximum stay in his college.
 3. The student must have studied at the university from which he will graduate, at least 60% of the graduation requirements.

Levels table:

Department	Levels/Credit Hours (from - to)							
	First	Second	Third	Fourth	Fifth	Sixth	Seventh	Eighth
Biological Sciences	١-١٧	١٨-٣٣	٣٤-٥٠	٥١-٦٥	٦٦-٨٢	٨٣-٩٨	٩٩-١١٤	١١٥-١٢٩
Chemistry	١-١٧	١٨-٣٣	٣٤-٥٠	٥١-٦٦	٦٧-٨٣	٨٤-٩٩	١٠٠-١١٥	١١٦-١٣٠
Mathematics & Statistics	١-١٧	١٨-٣٣	٣٤-٥١	٥٢-٦٧	٦٨-٨٣	٨٤-١٠٠	١٠١-١١٥	١١٦-١٢٩
Physics	١-١٧	١٨-٣٣	٣٣-٤٩	٥٠-٦٦	٦٧-٨٣	٨٤-٩٩	١٠٠-١١٤	١١٥-١٢٩

The student is allowed to study additional courses where:

The course should be within the student's study plan and at the academic level that qualifies him for registration.

That the student's GPA allow the student to add courses provided that they are as follows:

University requirements and elective courses:

Registration of courses relative to the average grade	
GPA	Maximum Hours
or greater ξ	٢٣
٢,٥ - ξ	١٩
٢ - ٢,٥	١٥
or less ψ	١٢

The student studies courses as requirements for the university within the departments' study plans.

In addition to studying two optional courses from the following:

- Islamic ethics and professional ethics
- The economic system in Islam
- Social order in Islam
- Islam and issues of science and technology
- Political system and human rights in Islam
- Jurisprudence of biography

Study plan of the Department of Biological Sciences (old plan)

First year

*First level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
٠٨١٧١٠١	Math 101	G. Mathematics	٢	١	٣	---
٠٨١٥١٠١	Chem 101	G. Chemistry 1	٣	١	٤	---
٠٨١٤١٠١	Phys 101	G. Physics 1	٣	١	٤	---
٠٨١٦١٠١	Bio 101	G. Biology	٣	١	٤	---
٠٢٣١١٠١	Edu 101	Health & Fitness	٢	---	٢	---
Total			١٣	٤	١٧	

*Second level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
٠٨١٧٢٠٧	Math 207	Introduction to Statistics	٢	٠	٢	---
٠٨١٦١٢	Bio 112	Invertebrate Science	٣	١	٤	Bio 101
٠٨١٦١١٣	Bio 113	Cytology	١	١	٢	Bio 101
٠٨١٦٢١٣	Bio 213	Basics of Ecology	٢	١	٣	Bio 101
١٧٠٠١٠١	Ngl 101	English Language	٣	---	٣	---
٧٤٠١٣٠١	Art 301	Contemporary Cultural Issues	٢	---	٢	---
Total			١٣	٣	١٦	

Second year

*Third level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
٠٨١٥١١٣	Chem 113	Organic Chemistry	٢	١	٣	Chem 101
٠٨١٧١٨٠	Math 180	Introduction to Computer Science	٢	١	٣	---
٠٨١٦١١١	Bio 111	Plant Ecology	٢	١	٣	Bio 213
٠٨١٦٢١١	Bio 211	Genetics	٢	١	٣	Bio 113
٠٨١٦٢١٢	Bio 212	The Plant Kingdom	٢	١	٣	Bio 101
٧٤٠٢١٠٢	Art 102	Arabic Editing	٢	---	٢	---
Total			١٢	٥	١٧	

*Fourth level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
٠٨١٦٢٠١	Bio 201	Microscopic preparations	٢	١		Bio 101
٠٨١٦٢٢١	Bio 221	Bacteria & Viruses	٢	١		Bio 212
٠٨١٦٢٢٢	Bio 222	Chordology	٣	١		Bio 113
٠٨١٦٢٢٣	Bio 223	Environmental Pollution	٢	---		Bio 213
١٧٠٨١٠٣	Ngl 103	Scientific English	٢	---		Ngl 101
٧٤٠١١٠١	Art 101	Islamic belief and contemporary doctrines	٢	---		---
Total			١٢	٣	١٥	

Third year

*Fifth level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
٠٨١٦٣٣٢	Bio 332	Fungi and algae	٢	١	٣	Bio 212
٠٨١٦٣٣٣	Bio 333	Plant organ functions (1(٢	١	٣	Bio 212
٠٨١٦٣٤٢	Bio 342	General entomology	٢	١	٣	Bio 112
٠٨١٦٣٤٧	Bio 347	Animal organ functions (1)	٢	١	٣	Bio 222
٠٨١٥٣٠١	Chem 301	Biochemistry	٢	١	٣	Chem 113
٧٤٠٢١٠٣	Art 103	Literary Appreciation	٢	---	٢	---
Total			١٢	٥	١٧	

*Sixth level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
٠٨١٦٣٣٥	Bio 335	Classification of flowering plants	٢	١	٣	Bio 212
٠٨١٦٣٣٦	Bio 336	Plant form and anatomy	٣	١	٤	Bio 212
٠٨١٦٣٤٣	Bio 343	Parasitology	٢	١	٣	Bio 112
٠٨١٦٣٤٦	Bio 346	Medicinal and economic arthropods	١	١	٢	Bio 342
٠٨١٦٣٤٨	Bio 348	Histology	١	١	٢	Bio 113
University requisite			٢	---	٢	---
Total			١١	٥	١٦	

Fourth year

*Seventh level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
٠٨١٦٤٠١	Bio 401	Molecular genetics	٢	١	٣	Bio 211
٠٨١٦٤٢١	Bio 421	Archeology	٢	١	٣	Bio 335
٠٨١٦٤٣٦	Bio 436	Economic plant	٢		٢	Bio 335
٠٨١٦٤٤٢	Bio 442	Fundamentals of immunology	١	١	٢	Bio 347
٠٨١٦٤٤٥	Bio 445	Fundamentals of embryology	١	١	٢	Bio 222 Bio 348
٠٨١٦٤٤٨	Bio 448	Graduation project	---	٢	٢	Bio 347 Bio 335
University requisite			٢	---	٢٢	---
Total			١٢	٤	١٦	

*Eighth level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
٠٨١٦٤٣٣	Bio 433	Plant organ functions (2)	٢	١	٣	Bio 333
٠٨١٦٤٣٧	Bio 437	Cultivation of plant cells and tissues	١	١	٢	Bio 333
٠٨١٦٤٤١	Bio 441	Comparative anatomy	٢	١	٣	Bio 222
١٨١٦٤٤٣	Bio 443	Animal organ functions (2)	٢	١	٣	Bio 347
١٨١٦٤٤٦	Bio 446	Environment and animal behavior	٢	---	٢	Bio 213 Bio 347
٠٨١٦٤٤٧	Bio 447	Biodiversity	٢	---	٢	Bio 213 Bio 335
Total			١١	٤	١٥	

Study plan of the Department of Chemistry (old plan)

First year

*First level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
٠٨١٧١٠٣	Math 103	General Mathematics	٣	---	٣	---
٠٨١٥١٠١	Chem 101	General Chemistry (1)	٣	١	٤	---
٠٨١٤١٠١	Phys 101	General Physics (1)	٣	١	٤	---
٠٨١٦١٠١	Bio 101	General Biology	٣	١	٤	---
٠٢٣١١٠١	Edu 101	Health and Fitness	٢	---	٢	---
Total			١٤	٣	١٧	

*Second level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
٠٨١٥١١١	Chem 111	General Chemistry (2)	٣	١	٤	Chem 101
٠٨١٥١١٢	Chem 112	Organic Chemistry (1)	٣	١	٤	Chem 101
٠٨١٧١١٠	Math 110	Calculus (1)	٣	---	٣	---
١٧٠٠١٠١	Ngl 101	English Language	٣	---	٣	---
٧٤٠١٣٠١	Art 301	Contemporary Cultural Issues	٢	---	٢	---
Total			١٤	٢	١٦	

Second year

*Third level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
٢٣١٠٨١٥	Chem 231	Inorganic Chemistry (1)	٢	١	٣	Chem 101
٢٤١٠٨١٥	Chem 241	Analytical Chemistry	٣	١	٤	Chem 101
٢٥١٠٨١٥	Chem 251	Organic Chemistry (2)	٣	---	٣	Chem 112
٠٨١٧١٨٠	Math 180	Introduction to Computer	٢	١	٣	---
٠٨١٧٢٠٧	Math 207	Introduction to Statistics	٢	---	٢	---
٧٤٠٢١٠٢	Art 102	Arabic Editing	٢	---	٢	---
Total			١٤	٣	١٧	

*Fourth level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
٠٨١٠٢٢١	Chem 221	Physical chemistry (1)	٢	---	٢	Chem 111
٠٨١٠٢٣٢	Chem 232	chemistry of transitional elements	٢	---	٢	Chem 231
٠٨١٠٢٥٢	Chem 252	chemistry of heterocyclic compounds	٢	---	٢	Chem 251
٠٨١٠٢٦١	Chem 261	biochemistry (1)	٣	١	٤	Chem 112
٠٨١٠٢٧١	Chem 271	environmental pollution	٢	---	٢	---
١٧٠٨١٠٣	Ngl 103	scientific English language	٢	---	٢	Ngl 101
٧٤٠١١٠١	Art 101	Islamic belief and contemporary doctrines	٢	---	٢	---
Total			١٥	١	١٦	

Third year

*Fifth level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
٠٨١٠٣٢٢	Chem 322	Kinetics of chemical reactions	٢	١	٣	Math 110 Chem 221
٠٨١٠٣٢٣	Chem 323	Surface and Catalytic chemistry	٣	---	٣	Chem 221
٠٨١٠٣٣٣	Chem 333	Harmonic Chemistry	٢	١	٣	Chem 232
٠٨١٠٣٥٣	Chem 353	Structural Chemistry	٢	---	٢	Chem 251
٠٨١٠٣٦٢	Chem 362	Biochemistry (2)	٢	١	٣	Chem 261
٠٨١٨٣٧٢	Chem 372	Computer applications in chemistry	---	١	١	Math 180
٧٤٠٢١٠٣	Art 103	Literary appreciation	٢	---	٢	---
Total			١٣	٤	١٧	

*Sixth level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
٠٨١٠٣٢٤	Chem 324	Photochemistry	٢	---	٢	Chem 232
٠٨١٠٣٤٢	Chem 342	instrument chemical analysis	٣	---	٣	Chem 241
٠٨١٠٣٥٤	Chem 354	mechanics of organic reactions	٢	---	٢	Chem 353
٠٨١٠٣٥٥	Chem 355	organic spectra	٢	١	٣	Chem 251
٠٨١٠٣٥٦	Chem 356	petroleum chemistry and petrochemical industries	٢	---	٢	Chem 251
٠٨١٠٣٧٣	Chem 373	environmental chemistry	٢	---	٢	---
University requisite			٢	---	٢	---
Total			١٥	١	١٦	

Fourth year

*Seventh level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
• ۸۱۰۴۲۰	Chem 425	Electrochemistry	۲	---	۲	Chem 221
• ۸۱۰۴۲۶	Chem 426	Colloid Chemistry	۲	---	۲	Chem 323
• ۸۱۰۴۳۴	Chem 434	Group Theory	۱	۱	۲	Chem 333
• ۸۱۰۴۴۳	Chem 443	Instrumentation Chemical Analysis	---	۲	۲	Chem 342
• ۸۱۰۴۵۷	Chem 457	Natural Product Chemistry	۲	---	۲	Chem 354 Chem 355
• ۸۱۰۴۵۸	Chem 458	Polymer Chemistry	۲	---	۲	Chem 251
• ۸۱۰۴۷۴	Chem 474	Research Project	۲	---	۲	---
University requisite			۲	---	۲	---
Total			۱۲	۴	۱۶	

*Eighth level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
• ۸۱۰۴۲۷	Chem 427	Quantum chemistry	۲	---	۲	Chem 322 Math 110
• ۸۱۰۴۳۰	Chem 435	chemistry of lanthanides and actinides	۲	---	۲	Chem 333
• ۸۱۰۴۳۶	Chem 436	inorganic spectra	۲	---	۲	Chem 434
• ۸۱۰۴۵۹	Chem 459	organic preparations	۱	۲	۳	Chem 354
• ۸۱۰۴۳۷	Chem 437	mechanical inorganic reactions	۲	---	۲	Chem 333
• ۸۱۰۴۲۸	Chem 428	corrosion	۲	---	۲	Chem 425
• ۸۱۰۴۷۵	Chem 475	Organo-metallic chemistry	۲	---	۲	Chem 333
Total			۱۳	۲	۱۵	

Study plan for the Department of Mathematics and Statistics (old plan):

First year

*First level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
•٨١٧١٠٣	Math 103	General Mathematics	٢	١	٣	---
•٨١٥١٠١	Chem 101	General Chemistry (1)	٣	١	٤	---
•٨١٤١٠١	Phys 101	General Physics (1)	٣	١	٤	---
•٨١٦١٠١	Bio 101	General Biology	٣	١	٤	---
•٢٣١١٠١	Edu 101	Health and Fitness	٢	---	٢	---
Total			١٣	٤	١٧	

*Second level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
•٨١٤١٠٢	Phys 102	General Physics (2)	٣	١	٤	---
•٨١٧١١٠	Math 110	Calculus (1)	٢	١	٣	---
•٨١٧١٢٤	Math 124	Logic and Methods of Proof	١	١	٢	---
•٨١٧١٢٦	Math 126	Group Theory	١	١	٢	---
١٧٠٠١٠١	Ngl 101	English Language	٣	---	٣	---
٧٤١٠١٠١	Art 101	Contemporary Cultural Issues	٢	---	٢	---
Total			١٢	٢	١٦	

Second year

*Third level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
•٨١٧١٨٠	Math 180	Introduction to Computers	٢	١	٣	Math 103
•٨١٧٢١١	Math 211	Calculus (2)	٢	١	٣	Math 110
•٨١٧٢٣١	Math 231	Principles of Algebra	٢	١	٣	Math 103 Math 126
•٨١٧٢٣٣	Math 233	Linear Algebra	٢	١	٣	Math 103
•٨١٤٢٠١	Phys 201	General Physics (3)	٣	١	٤	Phys 101
٧٤٠١١٠١	Art 101	Islamic belief and contemporary doctrines	٢	---	٢	---
Total			١٣	٥	١٨	

*Fourth level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
•٨١٧٢٠٧	Math 207	Introduction to Statistics	١	١	٢	Math 103
•٨١٧٢١٢	Math 212	Calculus (3)	٢	١	٣	Math 211
•٨١٧٢١٤	Math 214	Regular Differential Equations	٢	١	٣	Math 211
•٨١٧٢٤٢	Math 242	Principles of Analysis	٢	١	٣	Math 103 Math 126
•٨١٧٢٨٠	Math 280	Introduction to Programming	٢	١	٣	Math 180
٧٤٠٢١٠٢	Art 102	Arabic Editing	٢	---	٢	---
Total			١١	٥	١٦	

Third year

*Fifth level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
•٨١٧٣٣١	Math 331	Algebra (1)	٢	١	٣	Math 231
•٨١٧٣٤١	Math 341	Real Analysis (1)	٢	١	٣	Math 242
•٨١٧٣٧١	Math 371	Probability Theory	٢	١	٣	Math103 Math 110
•٨١٧٣٧٣	Math 373	Transformation Engineering	٢	١	٣	Math 233
٧٤٠٢١٠٣	Art 103	Literary Appreciation	٢	---	٢	---
University requisite			٢	---	٢	---
Total			١٢	٤	١٦	

*Sixth level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
•٨١٧٣٣٢	Math 332	Algebra (2)	٢	١	٣	Math 331
•٨١٧٣٤٢	Math 342	Real Analysis (2)	٢	١	٣	Math 242
•٨١٧٣٦٢	Math 362	Topology	٢	١	٣	Math 126
•٨١٧٣٧٤	Math 374	Statistics and its applications	٢	١	٣	Math 371
١٧٠٨١٠٣	Ngl 103	Scientific English Language	٢	---	٢	Ngl 101
•٨١٤٢٠٨	Phys 208	Waves	٣	---	٣	Phys 101
Total			١٣	٤	١٧	

Fourth year

*Seventh level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
٠٨١٧٤١١	Math 411	Numerical Analysis	٢	١	٣	Math 211 Math 233
٠٨١٧٤١٢	Math 412	Partial Differential Equations	٢	١	٣	Math 212 Math 214
٠٨١٧٤٤٣	Math 443	Differential Formulas and Vector Analysis	٢	١	٣	Math 212 Math 233
٠٨١٧٤٧١	Math 471	Fundamentals of Engineering	٢	١	٣	Math 126
٠٨١٤٢٠٤	Phys 204	Modern Physics	٣	---	٣	Phys 101 Phys 102
Total			١١	٤	١٥	

*Eighth level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
٠٨١٧٤١٣	Math 413	Applied Mathematics	٢	١	٣	Math 212 Math 214
٠٨١٧٤٣٤	Math 434	Number Theory	٢	١	٣	Math 331
٠٨١٧٤٤٤	Math 444	Complex Analysis	٢	١	٣	Math 341
٠٨١٧٤٨٤	Math 484	Functional Analysis	٢	١	٣	Math 342 Math 362
University requisite			٢	---	٢	---
Total			١٠	٤	١٤	

Study plan of the Department of Physics (old plan):

First year

*First level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
٠٨١٤١٠١	Phys 101	General Physics (1)	٣	١	٤	---
٠٨١٧١٠٣	Math 103	General Mathematics	٢	١	٣	---
٠٨١٥١٠١	Chem 101	General Chemistry (1)	٣	١	٤	---
٠٨١٦١٠١	Bio 101	General Biology	٣	١	٤	---
٠٢٣١١٠١	Edu 101	Health and Fitness	٢	---	٢	---
Total			١٣	٤	١٧	

*Second level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
٠٨١٤١٠٢	Phys 102	General Physics (2)	٣	١	٤	---
٠٨١٧١١٠	Math 110	Calculus (1)	٢	١	٣	---
٠٨١٥١١١	Chem 111	General Chemistry (2)	٣	١	٤	---
١٧٠٠١٠١	Ngl 101	English Language	٣	---	٣	---
٧٤٠١٣٠١	Art 301	Contemporary Cultural Issues	٢	---	٢	---
Total			١٣	٣	١٦	

Second year

*Third level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
٠٨١٤٢٠١	Phys 201	General Physics (3)	٣	١	٤	Phys 101
٠٨١٧٢١١	Math 211	Calculus (2)	٢	١	٣	Math 103 Math 110
٠٨١٧١٨٠	Math 180	Introduction to Computer	٢	١	٣	---
٠٨١٤٢٠٣	Phys 203	Optics	٢	---	٢	Phys 102
٠٨١٧٢٠٧	Math 207	Introduction to Statistics	١	١	٢	Math 103
٧٤٠١١٠١	Art 101	Islamic belief and contemporary doctrines	٢	---	٢	---
Total			١٢	٤	١٦	

*Fourth level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
٠٨١٤٢٠٤	Phys 204	Modern Physics	٣	---	٣	Phys 101 Phys 102
٠٨١٤٢٠٦	Phys 206	Astronomy	٣	---	٣	Phys 102
٠٨١٤٢٠٨	Phys 208	Waves	٣	---	٣	Phys 101
٠٨١٤٢١٠	Phys 210	Mathematical Physics (1)	٣	---	٣	Math 211
١٧٠٨١٠٣	Ngl 103	Scientific English	٢	---	٢	Ngl 101
٠٨١٧٢١٢	Math 212	Calculus (3)	٢	١	٣	Math 211
Total			١٦	١	١٧	

Third year

*Fifth level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
٠٨١٤٣٠١	Phys	Classical Mechanics (1)	٣	---	٣	Phys 210
٠٨١٤٣٠٣	Phys	Electromagnetism (1)	٣	---	٣	Phys 210
٠٨١٤٣٠٥	Phys	Thermodynamics	٣	---	٣	Phys 201
٠٨١٤٣٠٧	Phys	Electronics (1)	٣	---	٣	Phys 102
٠٨١٤٣٠٩	Phys	Mathematical Physics (2)	٣	---	٣	Phys 210
٧٤٠٢١٠٣		Literary Appreciation	٢	---	٢	---
Total			١٧	---	١٧	---

*Sixth level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
٠٨١٤٣٠٢	Phys 302	Classical Mechanics (2)	٣	---	٣	Phys 301
٠٨١٤٣٠٤	Phys 304	Electromagnetism (2)	٣	---	٣	Phys 303
٠٨١٤٣٠٦	Phys 306	Physics Laboratory (1)	---	٢	٢	Phys 201
٠٨١٤٣٠٨	Phys 308	Electronics (2)	٢	١	٣	Phys 207
٠٨١٤٣١٠	Phys 310	Quantum Mechanics (1)	٣	---	٣	Phys 210 Phys 204
University requisite			٢	---	٢	---
Total			١٣	٣	١٦	

Fourth year

*Seventh level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
٠٨١٤٤٠٤	Phys 404	Nuclear Physics	٣	---	٣	Phys 310
٠٨١٤٤٠٥	Phys 405	Statistical Physics	٣	---	٣	Phys 305
٠٨١٤٤٠٧	Phys 407	Physics Laboratory (2)	---	٢	٢	Phys 306
٠٨١٤٤١١	Phys 411	Quantum Mechanics (2)	٣	---	٣	Phys 310
٧٤٠٢١٠٢	Art 102	Arabic Editing	٢	---	٢	---
University requisite			٢	---	٢	---
Total			١٣	٢	١٥	

*Eighth level

Course Number	Course Code	Course Name	Units			Prerequisite
			Theoretical	Practical	Total	
٠٨١٤٤٠٢	Phys 402	Atomic Physics	٣	---	٣	Phys 310
٠٨١٤٤٠١	Phys 401	Solid State Physics	٣	---	٣	Phys 310
٠٨١٤٤٠٦	Phys 406	Computational Physics	٢	---	٢	Math 180
٠٨١٤٤٠٨	Phys 408	Biophysics	٣	---	٣	Phys 210
٠٨١٤٤١٠	Phys 410	Selected Topics	٣	---	٣	Phys 201 Phys 204
٠٨١٤٤١٢	Phys 412	Seminar	١	---	١	---
Total			١٥	---	١٥	---

Study plan for the Department of Biological Sciences (New Plan):

First Year											
First Level						Second Level					
Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite	Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite
٠٨٢٦١٠١	G. Biology	٣				١٩ xxxxx	University elective (table 1)	٢			
٠٨٢٦١١١	G. Biology Lab.			١		٧٤٠٢١٠٢	Arabic Editing	٢			
xxxxx١٩	University elective (table 1)	٢				٠٨٢٧١٠١	Calculus 1	٢	١		
٧٤٠٢١٠٣	Literary Appreciation	٢				٠٨٢٧١٠٢	Introduction to computer science	٢			
٠٨٢٥١٠١	G. Chemistry 1	٣				٠٨٢٧١١١	Introduction to computer science Lab.				١
٠٨٢٥١١١	G. Chemistry 1 Lab.			١		٠٨٢٤١٠١	G. Physics	٣			
٠٨٢٧١٠٣	Introduction to statistics	٣	١			٠٨٢٤١١١	G. Physics Lab.				١
Total Units		١٣	١	٢	١٦	Total Units		١٣	١	٢	١٦

Second Year											
Third Level						Fourth Level					
Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite	Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite
٠٨٢٦٢٠١	Cell biology	٢			٠٨٢٦١٠١	٠٨٢٦٢٠٠	Histology	٢			٠٨٢٦١٠١
٠٨٢٦٢١١	Cell biology Lab.			١		٠٨٢٦٢١٠	Histology Lab.			١	
٠٨٢٦٢٠٢	Invertebrates	٢			٠٨٢٦١٠١	٠٨٢٦٢٠٦	Microbiology	٢			٠٨٢٦١٠١
٠٨٢٦٢١٢	Invertebrates Lab.			١		٠٨٢٦٢١٦	Microbiology Lab.			١	
٠٨٢٦٢١٣	Laboratory techniques			١		٠٨٢٦٢٠٧	Plant form and anatomy	٢			٠٨٢٦١٠١
٠٨٢٦٢٠٤	Plants evolution & diversity	٢			٠٨٢٦١٠١	٠٨٢٦٢١٧	Plant form and anatomy Lab.			١	
٠٨٢٦٢١٤	Plants evolution & diversity Lab.			١		٠٨٢٦٢٠٨	G. Genetics	٢			٠٨٢٦١٠١
٠٨٢٥٢٠٢	Organic chemistry	٣			٠٨٢٥١٠١	٠٨٢٦٢١٨	G. Genetics Lab.			١	
٠٨٢٥٢١٢	Organic chemistry Lab.			١		٠٨٢٥٢٠٧	Biochemistry	٣			٠٨٢٥٢٠٢
١٩٠٠١٠١	Creed and doctrines	٢				٠٨٢٥٢١٧	Biochemistry Lab			١	
Total Units		١١	٠	٥	١٦	Total Units		١٣	٠	٥	١٨

Third Year											
Fifth Level						Sixth Level					
Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite	Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite
٠٨٢٦٣٠١	Comparative Vertebrate	٢			٠٨٢٦١٠١	٠٨٢٦٣٠٤	world of insects	٢			٠٨٢٦٣٠٢
٠٨٢٦٣١١	Comparative Anatomy of Vertebrates			١		٠٨٢٦٣١٤	Entomology is practical			١	
٠٨٢٦٣٠٢	Classification of flowering and flora plants	٢			٠٨٢٦٣٠٧	٠٨٢٦٣٠٥	Molecular biology	٢			٠٨٢٦٣٠٨
٠٨٢٦٣١٢	Classification of flowering and flora plants practical			١		٠٨٢٦٣١٥	Practical Molecular Biology			١	
٠٨٢٦٣٠٣	Microbial physiology	٢			٠٨٢٦٣٠٦	٠٨٢٦٣٠٦	Functions of plant organs	٣			٠٨٢٦٣٠٧
٠٨٢٦٣١٣	Microbial Cassiology Practical			١		٠٨٢٦٣١٦	The functions of plant organs are practical			١	
٠٨٢٦ XXX	Department's Elective 1 of Table 3	٣				٠٨٢٦٣٠٧	The functions of the animal's organs	٣			٠٨٢٦٣٠٥
٠٨٢٦ XXXX	College elective of Table 2	٣				٠٨٢٦٣١٧	The functions of the animal organs are practical			١	
Total Units		١٢	٠	٣	١٥	Total Units		١٠	٠	٤	١٤
						٠٨٢٦٣٩٩	summer training	٣			Acquisition of 81 hours

Fourth Year

Seventh Level						Eighth Level					
Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite	Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite
٠٨٢٦٤٠١	Plant Ecology	٣			٠٨٢٦٣٠٢	٠٨٢٦٤٠٧	The environment and behavior of the animal	٣			٠٨٢٦٣٠٧
٠٨٢٦٤١١	Plant Ecology is practical			١		٠٨٢٦٤١٧	The environment and behavior of the animal is practical			١	
٠٨٢٦٤٠٢	Evolutionary Biology	٣			٠٨٢٦٣٠٥	٠٨٢٦٤٠٨	Immunology	٣			٠٨٢٦٣٠٧
٠٨٢٦٤١٢	Evolutionary biology is practical			١		٠٨٢٦٤١٨	Immunology is practical			١	
٠٨٢٦٤٠٣	Parasitology	٣			٠٨٢٦٣٠٢	٠٨٢٦٤٠٩	Economical plant	٣			٠٨٢٦٣٠٢
٠٨٢٦٤١٣	Parasitology is practical			١		٠٨٢٦٤١٠	Medical Microbiology	٣			٠٨٢٦٤٠٤
٠٨٢٦٤٠٤	Applied Microbiology	٣			٠٨٢٦٣٠٣	XXX٠٨٢٦	Department's elective 2 of Table 3	٣			
٠٨٢٦٤١٤	Applied Microbiology is practical			١		XXX٠٨٢٦	Department's elective 3 of Table 3	٣			
٠٨٢٦٤٠٥	Plant Biotechnology	٣									
٠٨٢٦٤١٥	Plant Biotechnology Practical			١							
٠٨٢٦٤٠٦	graduation project	٣									
Total Units		١٣	٠	٥	١٨	Total Units		١٤	٠	٣	١٦

Table 1: The student must register two courses from the university's elective courses list

Course Number	Course Name	Number of Units
١٩٠٠١٠٣	Islamic ethics and professional ethics	٣
١٩٠٠١٠٤	Studies in the Prophet's biography	٣
١٩٠٠١٠٥	Medical jurisprudence	٣
١٩٠٠١٠٦	Economy and Politics in Islam	٣
١٩٠٠١٠٧	Social system and family behavior	٣
١٩٠٠١٠٨	Management and entrepreneurship	٣
١٩٠٠١٠٩	Health and fitness	٣
١٩٠٠١١٠	Research skills	٣
١٩٠٠١١١	Volunteer work	٣
١٩٠٠١١٢	Medication: type and use	٣
١٩٠٠١١٣	Human rights in Islam	٣
١٩٠٠١١٤	Food and nutrition	٣

Table 2: The student must register one course from the faculty electives list

Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite
٠٨٢٤٤٢٦	Astronomy	٣	-	-	-
٠٨٢٧٢٠٤	Linear Algebra 1	٣	-	-	-
٠٨٢٧٢١٠	probability theory	٣	-	-	٠٨٢٧١٠٣
٠٨٢٥٢٠٣	analytical chemistry	٣	-	-	٠٨٢٥١٠١
٠٨٢٥٢٠٨	Inorganic chemistry 1	٣	-	-	٠٨٢٥١٠١
٠٨٢٥٤٢١	Environmental chemistry	٣	-	-	-

Table 3: The student must register 3 courses from the elective department's list of courses

Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite
٠٨٢٦٣٢٠	Microbial inheritance	٣	-	-	٠٨٢٦٢٠٦
٠٨٢٦٣٢١	Bioinformatics	٣	-	-	٠٨٢٦١٠١
٠٨٢٦٣٢٢	Cell and tissue diseases	٣	-	-	٠٨٢٦٢٠٥
٠٨٢٦٣٢٣	Microbial environment	٣	-	-	٠٨٢٦٢٠٦
٠٨٢٦٣٢٤	Plant relationships with organisms	٣	-	-	٠٨٢٦٢٠٧
٠٨٢٦٣٢٥	Petroleum Microbiology	٣	-	-	٠٨٢٦٢٠٦
٠٨٢٦٤٢٠	Sustainable plant environment	٣	-	-	٠٨٢٦٤٠١
٠٨٢٦٤٢١	Pest Control	٣	-	-	٠٨٢٦٣٠٤
٠٨٢٦٤٢٢	Animal Biotechnology	٣	-	-	٠٨٢٦٣٠٥
٠٨٢٦٤٢٣	Applied Botany	٣	-	-	٠٨٢٦٣٠٦

Study plan for the Department of Chemistry (New Plan):

First Year											
First Level						Second Level					
Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite	Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite
.۸۲۶۱.۰۱	G. Biology		۳			xxxxx۱۹	University elective from Table 1		۲		
.۸۲۶۱۱۱	Practical G. biology			۱		۷۴.۲۱.۰۲	Arabic Editing		۲		
۱9xxxx	University elective from		۲			.۸۲۷۱.۰۱	Calculus 1		۳	۱	
۷۴.۲۱.۰۳	Literary Appreciation		۲			.۸۲۷۱.۰۲	Introduction to computer science		۳		
.۸۲۰۱.۰۱	General Chemistry 1		۳			.۸۲۷۱۱۲	Introduction to computer science - practical				۱
.۸۲۰۱۱۱	General Chemistry 1			۱		.۸۲۴۱.۰۱	General Physics 1		۳		
.۸۲۷۱.۰۳	Introduction to Statistics		۳	۱		.۸۲۴۱۱۱	General Physics 1 Practical				۱
Total Units			۱۳	۱	۲	Total Units			۱۳	۱	۲
Second Year											
Third Level						Fourth Level					
Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite	Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite
.۸۲۰۲.۰۱	General Chemistry 2		۳		.۸۲۰۱.۰۱	.۸۲۰۲.۰۰	Physical chemistry 1		۳		.۸۲۰۲.۰۱
.۸۲۰۲۱۱	General Chemistry 2			۱	.۸۲۰۱۱۱	.۸۲۰۲۱۰	Physical chemistry 1 practical			۱	.۸۲۰۲۱۱
.۸۲۰۲.۰۲	Organic Chemistry 1		۳		.۸۲۰۱.۰۱	.۸۲۰۲.۰۶	Organic Chemistry 2		۳		.۸۲۰۲.۰۲
.۸۲۰۲۱۲	Organic Chemistry 1			۱	.۸۲۰۱۱۱	.۸۲۰۲۱۶	Practical Organic Chemistry II			۱	.۸۲۰۲۱۲
.۸۲۰۲.۰۳	analytical chemistry		۳		.۸۲۰۱.۰۱	.۸۲۰۲.۰۷	Biochemistry		۳		.۸۲۰۲.۰۲
.۸۲۰۲۱۳	Analytical -Chemistry			۱	.۸۲۰۱۱۱	.۸۲۰۲۱۷	Practical Biochemistry			۱	.۸۲۰۲۱۲
.۸۲۰۲۱۴	Computer applications in chemistry			۱	.۸۲۷۱۱۲	۱۹.۰.۱.۰۲	Islamic culture		۲		
۱۹.۰.۱.۰۱	Creed and doctrines		۲			.۸۲۰۲.۰۸	Inorganic chemistry 1		۳		.۸۲۰۱.۰۱
Total Units			۱۱		۴	Total Units			۱۴		۳

Third Year											
Fifth Level						Sixth Level					
Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite	Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite
.۸۲۰۳.۰۱	Physical chemistry 2		۳		.۸۲۰۲.۰۰ .۸۲۷۱.۰۱	.۸۲۰۳.۰۰	Physical chemistry 3		۳		.۸۲۰۳.۰۱
.۸۲۰۳۱۱	Physical chemistry 2			۱	.۸۲۰۲۱۰	.۸۲۰۳.۰۶	Material Chemistry		۳		.۸۲۰۲.۰۰
.۸۲۰۳.۰۲	Mechanics of organic reactions		۳		.۸۲۰۲.۰۶	.۸۲۰۳.۰۷	Organic Spectra		۳		.۸۲۰۲.۰۶
.۸۲۰۳.۰۳	Automated analysis by devices 1		۳		.۸۲۰۲.۰۳	.۸۲۰۳.۰۸	Automated analysis by devices 2		۳		.۸۲۰۳.۰۳
.۸۲۰۳۱۳	Automated analysis devices 1 practical			۱	.۸۲۰۲۱۳	.۸۲۰۳.۰۸	Automated analysis devices 2 practical			۱	.۸۲۰۳۱۳
.۸۲۰۳.۰۴	Inorganic chemistry 2		۳		.۸۲۰۲.۰۸	.۸۲۰۳.۰۹	Organo-Mineral chemistry		۳		.۸۲۰۳.۰۴
.۸۲۰۳۱۴	Inorganic chemistry 2			۱							
Xxxx.۰۸۲	Elective College 1 from Table 2		۳								
Total Units			۱۰		۳	Total Units			۱۰		۱
					۱۸						۱۶
						.۸۲۰۳۹	summer training		۳		Acquisition hours of 8۲

Fourth Year											
Seventh Level						Eighth Level					
Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite	Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite
•٨٢٥٤٠١	Quantum chemistry	٢			•٨٢٥٣٠١	•٨٢٥٤٠٦	Corrosion Chemistry	٢			•٨٢٥٣٠٥
•٨٢٥٤٠٢	Polymer Chemistry	٢			•٨٢٥٣٠٦	•٨٢٥٤١٦	Corrosion chemistry and surface chemistry are practical			١	
•٨٢٥٤٠٣	The chemistry of heterocyclic compounds	٢			•٨٢٥٣٠٦	•٨٢٥٤١٧	Inorganic process preparations and diagnostics			٢	•٨٢٥٣٠٩
•٨٢٥٤١٤	Organic process preparations			٢	•٨٢٥٣١٦ •٨٢٥٣٠٧	•٨٢٥٤٠٨	research project	٢			Hours of ٩٨ the study plan
•٨٢٥٤٠٥	Mechanics of inorganic reactions	٢			•٨٢٥٣٠٩	•٨٢٥٤٢٤ •٨٢٥٤٢٥ •٨٢٥٤٢٦ •٨٢٥٤٢٧ •٨٢٥٤٢٨ •٨٢٥٤٢٩	Department's elective 2 of Table 3	٣			
•٨٢٥٤٢٠ •٨٢٥٤٢١ •٨٢٥٤٢٢ •٨٢٥٤٢٣	Department's elective 1 of Table 3	٣					Department's elective 3 of Table 3	٣			
Total Units		١٢	.	٢	١٤	Total Units		١٠	.	٣	١٣

Table 1: The student must register two courses from the university's elective courses list

Course Number	Course Name	Number of Units
١٩٠٠١٠٣	Islamic ethics and ethics profession	٢
١٩٠٠١٠٤	Studies in the biography of the Prophet	٢
١٩٠٠١٠٥	Medical jurisprudence	٢
١٩٠٠١٠٦	Economy and Politics in Islam	٢
١٩٠٠١٠٧	Social system and family behavior	٢
١٩٠٠١٠٨	Management and entrepreneurship	٢
١٩٠٠١٠٩	Health and fitness	٢
١٩٠٠١١٠	Research skills	٢
١٩٠٠١١١	Volunteer work	٢
١٩٠٠١١٢	Medication; type and use	٢
١٩٠٠١١٣	Human rights in Islam	٢
١٩٠٠١١٤	Food and nutrition	٢

Table 2: The student must register one course from the faculty electives list

Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite
•٨٢٤٤٢٦	Astronomy	٣	-	-	
•٨٢٦٣٢١	Bioinformatics	٣	-	-	•٨٢٦١٠١
•٨٢٧٢٠٤	Linear Algebra 1	٣	-	-	
•٨٢٧٣١٠	probability theory	٣	-	-	•٨٢٧١٠٣

Study plan for the Department of Mathematics and Statistics (New Plan):

First Year											
First Level						Second Level					
Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite	Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite
٠٨٢٤١٠٠	General Physics 1	٣				xxxx١٩	University electives from Table 1	٣			
٠٨٢٤١١١	General Physics 1 Practical			١		٧٤٠٢١٠٢	Arabic editing	٣			
xxxx١٩	University electives from Table 1	٣				٠٨٢٧١٠٣	Introduction to Statistics	٣	١		
٧٤٠٢١٠٢	Literary appreciation	٣				٠٨٢٥١٠١	General Chemistry 1	٣			
٠٨٢٧١٠١	Introduction to computer science	٣				٠٨٢٥١١١	General Chemistry 1 practical				١
٠٨٢٧١١١	Introduction to science computer - practical			١		٠٨٢٦١٠١	G. Biology	٣			
٠٨٢٧١٠١	Calculus ١	٣	١			٠٨٢٦١١١	G. Biology - practical				١
Total Units		١٣	١	٢	١٦	Total Units		١٣	١	٢	١٦

Second Year											
Third Level						Fourth Level					
Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite	Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite
٠٨٢٤٢٠١	General Physics 2	٣			٠٨٢٤١٠١	٠٨٢٧٢٠٣	Group theory	٣			٠٨٢٧٢٠١
٠٨٢٤٢١١	General Physics 2 Practical			١		٠٨٢٧٢٠٤	Linear Algebra 1	٢	١		
٠٨٢٧٢٠١	Calculus 2	٣	١		٠٨٢٧١٠١	٠٨٢٧٢٠٥	Calculus 3	٣	١		٠٨٢٧٢٠٢
٠٨٢٧٢٠١	Logic and group theory	٣	١			٠٨٢٧٢٠٦	Principles of analysis	٣	١		٠٨٢٧١٠١
xxxx٠٨٢	College elective from Table 2	٣				١٩٠٠١٠٢	Islamic culture	٣			
١٩٠٠١٠١	Creed and doctrines	٣				Total Units		١٣	٢		١٦

Third Year											
Fifth Level						Sixth Level					
Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite	Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite
٠٨٢٧٢٠١	An Introduction to Topology	٣	١		٠٨٢٧٢٠١	٠٨٢٧٢٠٧	Measurement theory	٣			٠٨٢٧٢٠٦
٠٨٢٧٢٠٢	Real analysis	٣			٠٨٢٧٢٠٦	٠٨٢٧٢٠٨	Numerical analysis 1	٣			٠٨٢٧٢٠٢
٠٨٢٧٢٠٣	Discrete Mathematics	٣			٠٨٢٧٢٠١	٠٨٢٧٢٠٩	Vector analysis	٣			٠٨٢٧٢٠٥
٠٨٢٧٢٠٤	Ordinary differential equations	٣			٠٨٢٧٢٠٢	٠٨٢٧٣١٠	probability theory	٣			٠٨٢٧١٠٣
٠٨٢٧٢٠٥	Loops and fields	٣			٠٨٢٧٢٠٣	٠٨٢٧٣١١	Linear Algebra 2	٣			٠٨٢٧٢٠٤
٠٨٢٧٢٠٦	Mathematical programming	٣			٠٨٢٧١٠٢	Total Units		١٥			١٥
٠٨٢٧٣١١	Practical mathematical programming			١		٠٨٢٧٣٩٩	summer training	٣			Acquisition of 83 hours
Total Units		١٦	١	١	١٨	Total Units		١٥			١٥

Fourth Year											
Seventh Level						Eighth Level					
Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite	Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite
•٨٢٧٤•١	Numerical analysis 2	٣			•٨٢٧٣١١ •٨٢٧٣•٤	•٨٢٧٤•٥	Partial differential equations	٣			•٨٢٧٣•٤
•٨٢٧٤•٢	Special functions	٣			•٨٢٧٢•٥	•٨٢٧٤•٦	Number theory	٣			•٨٢٧٢•٣
•٨٢٧٤•٣	Statistics and its applications	٣			•٨٢٧٣١•	•٨٢٧٤•٧	graduation project	٣			Acquisition of 90 hours
•٨٢٧٤•٤	Complex analysis	٣			•٨٢٧٣•٢	xxx•٨٢٧	Department's elective 2 of Table 3	٣			
xxx•٨٢٧	Department's elective 1 of Table 3	٣				xxx•٨٢٧	Department's elective 3 of Table 3	٣			
Total Units		١٥	.	.	١٥	Total Units		١٤	.	.	١٤

Table 1: The student must register two courses from the university's elective courses list

Course Number	Course Name	Number of Units
١٩•١•٣	Islamic ethics and ethics profession	٣
١٩•١•٤	Studies in the biography of the Prophet	٣
١٩•١•٥	Medical jurisprudence	٣
١٩•١•٦	Economy and Politics in Islam	٣
١٩•١•٧	Social system and family behavior	٣
١٩•١•٨	Management and entrepreneurship	٣
١٩•١•٩	Health and fitness	٣
١٩•١١•	Research skills	٣
١٩•١١١	Volunteer work	٣
١٩•١١٢	Medication: type and use	٣
١٩•١١٣	Human rights in Islam	٣
١٩•١١٤	Food and nutrition	٣

Table 2: The student must register one course from the faculty electives list

Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite
•٨٢٤٢•١	Mathematical Physics 1	٣	-	-	•٨٢٧١•١
•٨٢٤٤٢٦	Astronomy	٣	-	-	•٨٢٤١•١
•٨٢٦٣٢١	Bioinformatics	٣	-	-	•٨٢٦١•١
•٨٢٥٢•٨	Inorganic chemistry 1	٣	-	-	•٨٢٥١•١
•٨٢٥٤٢١	Environmental chemistry	٣	-	-	-

Study plan for the Department of Physics (New Plan):

First Year											
First Level						Second Level					
Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite	Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite
٠٨٢٤١٠١	General Physics 1	٣				١9xxxx	University electives from Table 1	٢			
٠٨٢٤١١١	General Physics 1 Practical			١		٧٤٠٢١٠٢	Arabic Editing	٢			
xxxxx١٩	University electives from Table 1	٢				٠٨٢٥١٠١	General Chemistry 1	٣			
٧٤٠٢١٠٣	Literary appreciation	٢				٠٨٢٥١١١	General Chemistry 1 practical			١	
٠٨٢٧١٠١	Differentiation and Integration 1	٣	١			٠٨٢٧١٠٢	Introduction to computer science	٣			
٠٨٢٧١٠٣	Introduction to Statistics	٤				٠٨٢٧١١٢	Introduction to computer science - practical			١	
						٠٨٢٦١٠١	General Biology	٣			
						٠٨٢٦١١١	General Biology Practical			١	
Total Units		١٤	١	١	١٦	Total Units		١٣		٣	١٦
Second Year											
Third Level						Fourth Level					
Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite	Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite
٠٨٢٤٢٠٢	General Physics 2	٣			٠٨٢٤١٠١	٠٨٢٤٢٠٤	Waves	٣			٠٨٢٤٢٠١
٠٨٢٤٢١٢	General Physics 2 Practical			١		٠٨٢٤٢٠٥	Calculus 3	٣			٠٨٢٧٢٠٢
٠٨٢٧٢٠٢	Mathematical Physics 1	٣	١		٠٨٢٧١٠١	٠٨٢٤٢٠٥	Modern physics	٣	١		٠٨٢٤٢٠٣
٠٨٢٤٢٠١	General Physics 3	٣			٠٨٢٧١٠١	٠٨٢٤٢٠٦	optics	٣			٠٨٢٤٢٠٣
٠٨٢٤٢٠٣	General Physics 3 Practical	٣				٠٨٢٧٢٠٤	Linear Algebra 1	٣			
٠٨٢٤٢١٣	Creed and doctrines			١		١٩٠٠١٠٢	Islamic culture	٢			
١٩٠٠١٠١	General Physics 2	٢									
Total Units		١٤	١	٢	١٧	Total Units		١٧	١		١٨
Third Year											
Fifth Level						Sixth Level					
Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite	Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite
٠٨٢٤٣٠٢	Classical mechanics	٣			٠٨٢٤٢٠١	٠٨٢٤٣٠٤	Electromagnetism 2	٣			٠٨٢٤٣٠٣
٠٨٢٤٣٠٣	Electromagnetism 1	٣			٠٨٢٤٢٠١	٠٨٢٤٣٠٦	Electronics 2	٣			٠٨٢٤٣٠٥
٠٨٢٤٣٠٥	Electronics 1	٣			٠٨٢٤٢٠١	٠٨٢٤٣١٦	Electronics 2 - practical			٢	٠٨٢٤٣٠٥
٠٨٢٧٣٠٤	Ordinary differential equations	٣			٠٨٢٧٢٠٢	xxxx٠٨٢	College elective from Table 2	٣			
٠٨٢٤٣٠١	Mathematical Physics 2	٣			٠٨٢٤٢٠١	٠٨٢٤٣٠٧	Quantum Mechanics 1	٣			٠٨٢٤٣٠١
Total Units		١٥			١٥	Total Units		١٢		٢	١٤
						٠٨٢٤٣٩٩	summer training	٣			Acquisition of 79 hours

Fourth Year											
Seventh Level						Eighth Level					
Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite	Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite
٠٨٢٤٤٠١	Thermal and statistical physics	٣			٠٨٢٤٢٠٣ ٠٨٢٤٣٠٧	٠٨٢٤٤٠٣	Solid State Physics 2	٣			٠٨٢٤٤٠٢
٠٨٢٤٤٠٧	Quantum Mechanics 2	٣			٠٨٢٤٣٠٧		Solid State Physics - practical			٧	
٠٨٢٤٤٠٢	Solid State Physics 1	٣			٠٨٢٤٣٠٧	xxx٠٨٢٤	Department's elective 2 from Table 3	٣			
٠٨٢٤٤١١	Practical modern physics			٢	٠٨٢٤٢٠٠ ٠٨٢٤٣٠٧	xxx٠٨٢٤	Department's elective 3 from Table 3	٣			
٠٨٢٤٤٠٤	Nuclear physics	٣			٠٨٢٤٢٠٠ ٠٨٢٤٣٠٧	xxx٠٨٢٤	Department's elective 1 from Table 3	٣			
٠٨٢٤٤٠٠	graduation project	٢			Acquisition of 96 hours						
Total Units		١٤	٠	٢	١٦	Total Units		١٢	٠	٧	١٤

Table 1: The student must register two courses from the university's elective courses list

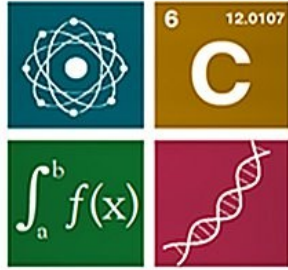
Course Number	Course Name	Number of Units
١٩٠٠١٠٣	Islamic ethics and ethics profession	٢
١٩٠٠١٠٤	Studies in the biography of the Prophet	٢
١٩٠٠١٠٥	Medical jurisprudence	٢
١٩٠٠١٠٦	Economy and Politics in Islam	٢
١٩٠٠١٠٧	Social system and family behavior	٢
١٩٠٠١٠٨	Management and entrepreneurship	٢
١٩٠٠١٠٩	Health and fitness	٢
١٩٠٠١١٠	Research skills	٢
١٩٠٠١١١	Volunteer work	٢
١٩٠٠١١٢	Medication: type and use	٢
١٩٠٠١١٣	Human rights in Islam	٢
١٩٠٠١١٤	Food and nutrition	٢

Table 2: The student must register one course from the faculty electives list

Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite
٠٨٢٥٤٢١	Environmental chemistry	٣	-	-	-
٠٨٢٥٢٠٨	Inorganic chemistry 1	٣	-	-	٠٨٢٥١٠١
٠٨٢٦٣٢١	Bioinformatics	٣	-	-	٠٨٢٦١٠١
٠٨٢٧٣١١	Linear Algebra 2	٣	-	-	٠٨٢٧٢٠٤
٠٨٢٧٣١٠	probability theory	٣	-	-	٠٨٢٧١٠٣

Table 3: The student must register 3 courses from the elective department's list of courses

Course Number	Course Name	Theoretical	Exercises	Practical	Prerequisite
٠٨٢٤٤٢٠	Materials Science and Nanotechnology	٣	-	-	٠٨٢٤٣٠٧ ٠٨٢٤٤٠٢
٠٨٢٤٤٢١	Biophysics	٣	-	-	٠٨٢٤٢٠٠
٠٨٢٤٤٢٢	Optics & optical fibers	٣	-	-	٠٨٢٤٣٠١ ٠٨٢٤٣٠٣
٠٨٢٤٤٢٣	Introduction to spectroscopy	٣	-	-	٠٨٢٤٣٠١ ٠٨٢٤٣٠٧
٠٨٢٤٤٢٤	Medical Physics	٣	-	-	٠٨٢٤٢٠٠
٠٨٢٤٤٢٥	The laser	٣	-	-	٠٨٢٤٣٠٤ ٠٨٢٤٢٠٣
٠٨٢٤٤٢٦	Astronomy	٣	-	-	٠٨٢٤١٠١
٠٨٢٤٤٢٧	Plasma Physics	٣	-	-	٠٨٢٤٣٠١ ٠٨٢٤٣٠٢ ٠٨٢٤٣٠٣
٠٨٢٤٤٢٨	Atomic Physics	٣	-	-	٠٨٢٤٢٠٠ ٠٨٢٤٣٠٧
٠٨٢٤٤٢٩	Polymer Physics	٣	-	-	٠٨٢٤٤٠١
٠٨٢٤٤٣٠	Polymer Physics Practical	١	-	-	٠٨٢٤٤٠١
٠٨٢٤٤٣١	Computational physics	٣	-	-	٠٨٢٤٢٠١ ٠٨٢٧١٠٢ ٠٨٢٧١١٢
٠٨٢٤٤٣٢	Practical Computational Physics	١	-	-	٠٨٢٤٢٠١ ٠٨٢٧١٠٢ ٠٨٢٧١١٢



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