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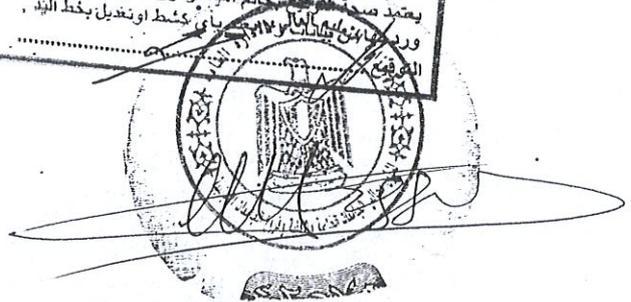
Faculty of Engineering The British University in Egypt

Bachelor of Science Bylaws for Undergraduate Programs

تعتمد اللائحة في صورتها النهائية
من لجنة قطاع الدراسات الهندسية
أ.د. محمد عبد الكريم صالح

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وزارة التعليم العالي
الإدارة العامة لشئون مجالس الجامعات
الخاصة والأجنبية وفروع الجامعات الأجنبية
يتم الشعار دون ادنى مسؤولية عما
ورد به من بيانات والأرقام بأي نشاط أو تعديل بخط اليد
التوقيع



January 2024





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Bachelor of Science Bylaws for Undergraduate Programs

January 2024

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Part A: Introduction

The Faculty of Engineering at The British University in Egypt was established in 2005 by a Presidential Decree, as the result of an inter-governmental agreement between Egypt and the UK. The BUE is an Egyptian private university within the framework of Egyptian educational law and regulations providing a British style of education with an ethos consistent with UK quality assurance and academic standards.

The Faculty of Engineering has established its academic programs underpinned by a university wide robust quality assurance system. The faculty started with five programs and about 60 students and today it houses eight undergraduate programs in addition to four post graduate programs. The student population reached 2500 students and the staff reached 300 members between academic, teaching assistant, lab engineers and administrative staff.

The faculty has maintained, over the years, the validation of its programs by our UK partners through its intricate quality assurance procedures. With the recent development of the new BUE strategy 2017-22, in support of Egypt's vision Egypt-2030, it is imperative that the Faculty of Engineering revise its new strategic plan to ensure its alignment with the strategic interests of the whole university and the country.

The Faculty of Engineering at the British University in Egypt is an effective and modern Faculty and offers the most diverse range of specialisms in Egypt. The faculty undertakes high quality academic and applied research of relevance to industry and the economy of Egypt and the Middle East. The curricula offered in the Engineering programs emphasize both theoretical and practical aspects including design and implementation. It provides students with the theoretical and practical skills that industry and employers require.

The Faculty of Engineering maintains close partnerships with industry in Egypt and beyond, which substantially benefit the students. Engineering students study in an environment that encourages diversity and innovation. Staff are not just academic experts in their fields, but often have 'real life' practical experience, which they bring to their subjects, as well as close contacts with the 'world of work'.

The Faculty of Engineering at BUE prepares its students to be competitive on the Industrial front, by giving them the opportunity to gain practical experiences, at an early stage, through the Industrial Internship program, in addition, to investigate and propose innovative solutions for real life industrial problems and challenges through their final year graduation projects.

The following Regulations operate within the regulatory framework of Egypt, as stipulated by the Egyptian Supreme Council of Universities. A student who completes successfully those programs validated by a UK partner University, in accordance with the relevant regulations, is granted two degrees, with two award classifications and two award certificates and transcripts. Students must meet the relevant regulations for both the UK and Egyptian awards to qualify for their degrees including any additional requirements set out by the UK partner.

The Egyptian award and classification are determined in accordance with the relevant regulations and the Egyptian award certificate and online transcript are issued by BUE. The UK award certificate and transcript are issued separately by the UK validating institution.

Vision

The Faculty of Engineering strives to be regionally recognized as a leading institution dedicated to professionalism, research, and community development, while offering students and researchers internationally accredited engineering programmes.

Mission

To provide a broad spectrum of education and research with a British ethos, working with UK and global partners to offer internationally recognized quality degrees that enable graduates to develop their knowledge and entrepreneurship skills and to contribute to the community development.

Core Values

To promote our unique identity through:

- Mutual respect in a multicultural environment.
- Academic honesty and integrity.
- The maintenance of high academic standards.
- Continuous quality improvement.
- The development of the faculty's community and contribution to society.
- The full engagement and involvement of staff, students, and alumni.
- Open and transparent leadership and management.
- Concern for sustainability.

Operating Principles

In accordance with the founding principles our operating principles are characterised by:

- Governance that ensures a dual Egyptian/British board and a credible system that ensures transparency and academic independence.
- Quality assurance mechanisms that ensure that standards are equal to those of the British validating institutions and that students have a comparable experience to those in the UK.
- State of the art programmes that underpin our graduates' abilities to achieve their potential in a highly evolving and developing profession.
- Emphasizing student's self-learning and critical thinking, to allow them the ability to excel and continuously develop their creative problem-solving skills.
- A research lead education with the majority of our staff engaged in state-of-the-art relevant research that informs their teaching and curriculum development.
- Industrial engagement and integration with the faculty's activities and objectives.

Article (1): Engineering Departments

The Faculty of Engineering comprises six departments as follows:

- Architectural Engineering
- Chemical Engineering
- Civil Engineering
- Electrical Engineering
- Mechanical Engineering
- Basic Sciences Department

Article (2): Offered Programs

- Architectural Engineering
- **Landscape & Urban Development (Proposed)**
- Chemical Engineering with specialization in:
 - Environmental Engineering
 - Petrochemical Engineering
 - Pharmaceutical Engineering
- Civil Engineering
- Construction Engineering & Management
- Electrical Engineering & Communications
- Computer Engineering
- Mechanical Engineering
- Mechatronics & Robotics Engineering:
 - Mechatronics Engineering
 - Robotics Engineering

Article (3a): Teaching & Learning Committee

- The faculty has a teaching and learning committee, that is chaired by the Vice Dean of Teaching & Learning and monitors, at the Faculty and Departmental levels, the implementation of the Faculty and Departmental Teaching and Learning Strategies.
- To monitor and keep under review, through a regular schedule of standing items, the effectiveness of arrangements for managing academic standards and corporate Quality Assurance processes.
- To monitor and review the design and delivery of assessment strategies.
- To consider and plan, via an annual cycle of staff development activities, the continuous quality enhancement for teaching, learning and assessment, and to ensure the identification and sharing of good practice across the Faculty and University.
- To receive, on a regular basis, reports from the coordinators for eLearning, Library and Staff Development, and to monitor developments in these areas.
- To consider proposals for teaching and learning provision, and staff and student support, and to monitor implementation of such proposals and provision.

Article (3b): Impaired Performance Panel

- The Dean shall establish an Impaired Performance Panel, which consists of at least three members (including the Chair) and, where requested, one member of any validating institution.
- The University Registrar shall be entitled to attend the panel meetings.
- The Panel shall meet at least once prior to any meeting of the relevant Board of Examiners.
- Where an Impaired Performance Panel determines that a claim is substantiated, it shall make one of the following recommendations to the relevant Programme Board of Examiners:
 - to set aside the result obtained and permit the student to be reassessed without restriction; or
 - to increase the student's marks; or
 - to substitute an alternative mark from an appropriate source; or

- to recommend that the instructor conducts a viva voce examination as a means of determining the appropriate mark(s).
- The student shall be informed of the decision in writing within 5 working days of the meeting. Students shall be notified of the right of appeal under the University Appeals Process.

Article (3c): Academic Misconduct Committee

- It is an academic misconduct for any student during any assessment to engage in one or more of the following activities:
 - Failing to comply with the relevant rules.
 - Failing to comply with the Rules for the Conduct of Students in Examination Halls.
 - Assisting another student to gain an advantage by unfair means, or receiving such assistance, for example by collusion, by impersonation or the passing off of one individual's work as another's. This includes undeclared failure to contribute to group coursework assignments.
 - Misleading the examiners by the fabrication or falsification of data.
 - Plagiarism, which is defined by the University as 'submitting work as the student's own of which the student is not the author'. This includes failure to acknowledge clearly and explicitly the ideas, words, or work of another person whether these are published or unpublished, the use of essay writing services.
 - Engaging in any other activity likely to give an unfair advantage to any student.
 - Inappropriate behaviour during oral examinations and Viva.
- All offences will be considered by a Faculty Academic Misconduct Committee.
- The University Registrar has the right to attend the Committee.
- No individual, who has a conflict of interest with the case to be heard, may serve on the Faculty Academic Misconduct Committee or act as its secretary.
- Any decision made by the Faculty Academic Misconduct Committee shall not be overturned subsequently by a Programme Examination Board.

Article (3d): Student Disciplinary Committee

- All students are expected to observe and maintain honest and peaceable behaviour at all times.
- The University defines misconduct as behaviour which, in its broadest sense, constitutes improper interference with the functioning or activities of the University, or those who work and study in the institution; or which may bring the University into disrepute with members of the public or which might damage the standing or reputation of the University.
- The faculty can call a Student Discipline Committee. This committee is empowered to exclude students from the University, either temporarily or permanently.
- The Faculty Student Discipline Committees consider allegations of misconduct under the relevant University Code.
- Allegations of academic misconduct will be considered in accordance with article 3c.

Article (3e): Exam Boards

- Student performance is considered in two stages, initially on a course-by-course basis (Module Examination Board) and subsequently by looking at the overall students' performance for each academic session (Programme Examination Board)
- Module Examination Board

- The Module Examination Board is responsible for all modules (courses) owned by a department, and will make recommendations to the Programme Examination Board on marks and credit to be awarded to students for each module (course) and its function will be:
 - To consider module (course) marks and the award of credits.
 - To take into account any special circumstances which may have impacted on a module (course).
 - To ratify module (course) marks.
- Programme Examination Board
 - The Programme Examination Board is responsible for a programme or closely related group of programmes; its functions will be:
 - To consider module (course) marks and the award of credits.
 - To take into account recommendations of the Impaired Performance Panel regarding mitigating or special circumstances.
 - To consider exceptional circumstances and cases for compensation for failure.
 - To approve the academic progression of students.
 - To determine the opportunities, if any, for the retrieval of failed modules.
 - To consider and agree the award of degrees and other awards in accordance with the Regulations.

Part B: Admission Regulations

Article (4): Admission Requirements

- Students are required to meet the minimum Faculty entry requirements, as set by the Egyptian Supreme Council of Universities, BUE Senate and the Faculty.
- Students being admitted to programmes which lead to a UK award must also meet any specific requirements set out by the validating partner.
- Students must obtain a minimum score of 6.0 on IELTS or the equivalent score agreed by BUE Senate. Equivalent score is normally determined by a standard test taken during the Admissions process.
- All students who enter the University in Faculties with UK validated programmes are initially registered on both the Egyptian Award and the UK Validated Award. Students cannot be initially registered on only the Egyptian Award.

Article (5): Transfer Guidelines

- The Dean may approve recognition of prior learning/exemptions from individual modules (courses), provided that s/he is satisfied that the student has already satisfactorily covered the content of the module(s) (course) concerned and can demonstrate that s/he has achieved the stated competencies for the module(s) (course).
- The granting of exemptions is governed and approved by the Egyptian Supreme Council of Universities.
- Exemptions can only be given before first registration: the only exemptions that are permitted once a student has registered at BUE are for internal transfer students who are transferring from one programme to another.
- Where a student has been exempted from a module (course), s/he shall be awarded the appropriate number of credit points/credit hours. No marks shall be attributed to exempted modules (courses) and exemptions will be recorded on the transcript.
- Subject to approval by the Dean, students permitted entry with advanced standing may also be required to study up to two modules (courses) of previous study years.
- No exemptions can be given for modules (courses) contributing to the calculation of the final award average in a UK validated degree.
- No exemptions can be given for modules (courses) in the final two years of an Egyptian degree.
- Students entering the University with advanced standing are required to meet the English language requirements for their programme of study.

Article (6): Tuition Fees & Scholarships

- Students who withdraw from the University before the start of semester one will be entitled to a refund for all fees. Refund for students who withdraw after that period will follow the policy agreed by the Egyptian Supreme Council of Universities.
- Fees due are payable by the time of registration on the first day of the academic year unless agreed special arrangements are made with the Finance Office. Students who have not paid their fees will be barred from taking Examinations.

Article (7): Internal Transfers

- A student shall be permitted to apply to change his/her program of study or programme specialism:
 - within two weeks from the start of the first registration for the program or specialism, if approved the student will continue on the new program.
 - prior to the start of the next academic year, if approved the change will be implemented at the start of the next academic year
- Agreed changes will be implemented at the start of the next academic year with students continuing with their studies until the following academic year.
- Students must meet the admissions conditions and requirements of the new programme of study or specialism.
- Students will be granted exemption from relevant completed modules if they achieved a pass grade

Part C: Study Regulations

Article (8): Credit Point System

- Students are required to complete the relevant number of credits on the Frameworks for Higher Education Qualifications (FHEQ) to be awarded a UK validated degree. This is in addition to the specialist courses (modules) and other requirements of the Egyptian Supreme Council of Universities required for the Egyptian degree.
- The program is divided into teaching units called modules (courses), which are each assigned a credit weighting.
- Each module (course) is assigned a Level, number of credits and weighting, this reflects the depth of learning required in the relevant program year.
- A basic 10-credit module (course) requires approximately 100 hours of student effort, which can include 36 hours of formal teaching and laboratory work. The remaining time is for coursework and tutorial completion, student-centred study and assessment.
- A 10-credit module (course) is equivalent to 3 Credit Hours and 5 ECTS units.
- Students study modules (courses) with a combined weight of 120 credit points (36 credit hours) in each year (60 credit points per semester)
- Modules (courses) that are delivered in one semester have their assessment completed within the semester in which they are taught. The program is structured such that formal examinations can take place at the end of each semester.

Article (9): Academic Semesters

- The academic year is divided into two semesters: Semester 1 and Semester 2.
- Each semester is 15-weeks in length.
- Week 13 being a revision week, and weeks 14- 15 being assessment weeks at the end of each semester.
- The Academic year includes a summer assessment period where students can resit failed modules (courses).

Article (10): Program Levels

- The whole program, of total 480 credit points, which is equivalent to 144 credit hours, is divided into four levels (120 credits each) S,4, 5 and 6, according to the Framework for Higher Education Qualifications of UK Degree-Awarding Bodies.
- These levels reflect the depth of learning required in the relevant program year.
- Students are required to complete the relevant number of credits on the Frameworks for Higher Education Qualifications (FHEQ) of the UK Degree-Awarding Bodies to be awarded a UK validated degree, in addition to the Egyptian degree.
- Each program is also divided into four levels of competencies, as per the NARS 2018, as follows:
 - Level 0, university requirements
 - Level A Faculty requirements
 - Level B Discipline requirements
 - Level C Program requirements

Article (11): Duration of Study

The allowed maximum duration of study is double the duration proposed by the programme of study provided the adherence to the following limitations, as per the university regulations:

- Students in Degree Year One can have maximum two years of regular study plus one year as external students.
- Students in Degree Year Two can repeat for one extra year as external students.
- Students in the final year who passed at least 50% of their study load shall be allowed an unlimited number of attempts to pass the remaining credits.

Article (12): Degree Requirements

- Students are required to pass a total of 480 credit points, which are equivalent to at least 144 credit hours, to be awarded the degree, including the submission of an individual research project and a group design project.
- Students are required to pass two industrial placements, one month each during the duration of study.

Article (13): Program Structure

- All taught undergraduate programs at BUE are modular in structure.
- The Program Specification for each programme sets out the specific requirements for each program of study.

Article (14): Suspension of Study & Re-enrolment

- Students may suspend their studies for the following reasons:
 - Medical conditions approved by the BUE Clinic
 - Absence or forced travel as approved by the Dean and Faculty Council.
 - Military conscription.
- Students who have terminated their studies are permitted to re-enrol on the program with permission from the Dean and University Registrar.
- Students who have failed their studies in one program are permitted to register on another program with permission from the Dean and University Registrar.
- Re-enrolment students must meet the admissions conditions.
- Re-enrolling students will be granted exemption from relevant completed modules if they have achieved a pass grade

Article (15): Personal Advisors

- All students are allocated a Personal Advisor.
- The role of the Personal Advisor is to help monitor and evaluate students' progress.
- For new students entering the University the Personal Advisor plays a key role in guiding students in the successful transition from a school ethos to a university ethos and in helping to develop independent and autonomous learning skills.
- The Personal Advisor shall review the following issues with their tutees:
 - Attendance & Punctuality
 - Address any concerns with students & find appropriate solutions
 - Ensure students understand program & University assessment requirements

- Review progress & identify any measures that need to be put in place to address underperformance
- Check that students have appropriate exam revision techniques Study Skills
- Ensure all students have a copy of the Study Skills handbook and definition and are using them
- Ensure students understand the requirement for independent study & student effort
- Ensure all students are familiar with, and are using, the appropriate facilities to promote independent study including the library, computer labs and careers advice
- Identify appropriate progression routes with students
- Refer students to appropriate agencies for any non-academic issues that are impairing student's performance.

Article (16): Graduation Projects

- Students are required to submit two graduation projects as follows:
 - Individual Research Project, where students are required to conduct research in a topic identified by their supervisors, prepare a dissertation and pass an oral examination in front of a panel with an external examiner.
 - Group Design project, where students are required to form groups of 4-5 who shall be working on a design project with clear identification of tasks, for each group member. The group submits complete documentation for their design project and shall pass an oral presentation and examination in front of a panel including an external examiner.
 - Students in Architectural Engineering must submit an individual Design project.
 - Both projects run for the whole final year and are not necessarily interrelated.
- Students should pass at least 340 credit points (102 credit hours) to be eligible for registering in their graduation projects.
- Students should pass at least 20 credit points (6 credit hours) in the area of the selected graduation projects to be eligible to register for their project of choice.

Article (17): Industrial Internships

- Students are required to attend a compulsory training program twice along their duration of study.
- Students are required to spend an average of 300 training hours/year.
- Industrial Internships are required in the summer of year 2 and year 3 of their degree program.
- Students are required to submit a report about their training and pass a viva in front of a panel to explain what they have learned during their internships.
- Industrial internships are a graduation requirement and are pass/fail modules.

Article (18): Course Grades

- Procedures for marking and moderation of marks should be fair and transparent.
- All courses shall be assessed in English.
- All assessments that contribute to the award of credit shall relate to the course competencies. Assessments shall be designed to ensure that students who pass a course and receive credit have achieved the course competencies.

- All courses shall be assessed in accordance with the University's agreed marking criteria, as described in the University Assessment Guidelines and shall comprise one or more of the following components of assessment:
 - Coursework assessment conducted during the semester(s) in which the course is completed; or
 - Unseen written examination during an examination period; or
 - Practical-based examination; or
 - Oral examination; or
 - Dissertation and Viva.
- The method of assessment for each course, including the weighting for each assessment, shall be specified in the program and course specifications.

Article (19): Award Classification

- A Final Overall Average Mark is calculated for each student from the ratio of the total sum of the weighted marks for all the courses in the student's program of study to the sum of the maximum marks possible in these courses.
- An overall grade is granted to the student based on the Final Overall Average Mark calculated as set out above, rounded up or down to the nearest percentage and in accordance with the following classifications:

Grade	Mark
Distinction	89% and higher
Very Good	76% to less than 89%
Good	67% to less than 76%
Satisfactory	60% to less than 67%

Article (20): Calculation of GPA

- The Equivalent Grade Point Average for students is calculated according to the following table:

Grade	Letter Grade	Mark	GPA
Distinction	A+	97% and above	4.0
	A	93% to < 97%	
	A-	89% to < 93%	
Very Good	B+	84% to < 89%	3.3
	B	80% to < 84%	3.0
	B-	76% to < 80%	2.7
Good	C+	73% to < 76%	2.3
	C	70% to < 73%	2.0
	C-	67% to < 70%	1.7
Satisfactory	D+	64% to < 67%	1.3
	D	60% to < 64%	1.0
	F	Less than 60%	0.0

Article (21): Honours Status

- An “Honours” standing is granted to the student provided that:
 - his/her year average has not fallen below “Very Good” in any single year of his/her program; and
 - s/he has not failed any courses during his/her program of study; and
 - s/he has no history of Academic Misconduct.

Article (22): Failure and Number of Attempts

- If a student fails a course s/he has another opportunity to attempt the course in the summer assessment period.
- Students can progress to the following study year with up to 20 trailed credit points (6 credit hours).
- Students registered for the UK / Egyptian dual award have four attempts to pass any course.
- Students registered for the UK / Egyptian dual award have a maximum of two years to pass any study year, students who fail to pass any study year after two years will be dismissed from the UK degree track.

Article (23): Impaired Performance

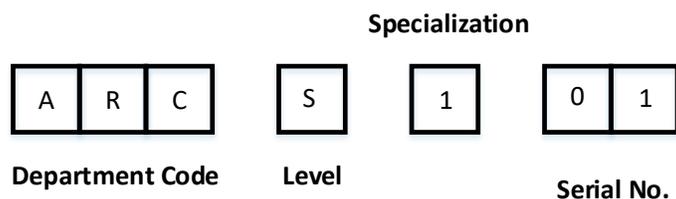
- A student has the right to report in writing circumstances that may have impaired his or her performance in any assessment by the required deadline. Relevant circumstances are defined as ‘serious and acute problems and events beyond a student’s control and ability to foresee.
- Only medical conditions approved by the BUE Clinic are accepted; Clinic approval is required within one week of return to study.
- Upheld Impaired Performance claims apply only to the component of assessment for which a claim has been made.

Article (24): Academic Appeals

- A student may appeal against the following:
 - the mark awarded for any course; and/or
 - the overall outcome of a program of study; and/or
 - the decision of a Program Examination Board in respect of the student’s progression; and/or
 - the decision of a Dean or University Committee to exclude a student from the University
 - the result of an Academic Misconduct or Impaired Performance Committee.
- Appeals against the academic judgement of examiners not permitted.
- Appeals may be made only on one or both of the following grounds:
 - procedural irregularity, prejudice, or bias in the conduct of the assessment, the Program Examination Board, the Dean or University Committee.
 - circumstances that have impaired the student’s performance, providing that these circumstances were not known by the University at the time it made its decision, that these circumstances can be substantiated, and that there is a valid reason for not notifying the University in advance of the decision.

Article (25): Coding System

- Each course is assigned a code that reflects its Level.
- Course codes are designed based on the department offering the course, its level, the specialization within the department and a sequential number.
- Courses are classified into four main levels, namely, S, 4, 5 and 6, which correspond to the Framework for Higher Education Qualifications of UK Degree-Awarding Bodies.
- Each level defines the depth of knowledge acquired within the program study year.
- Each department is assigned a three-letter code.
- The following shows a sample code, while the table outlines the letter codes for each department and/or program.



No.	Program/Specialization	Letter Code
1	Architectural Engineering	ARC
2	Landscape & Urban Development (Proposed)	LUD
3	Chemical Engineering	CHM
4	Chemical Engineering (Environmental)	ENV
5	Chemical Engineering (Petrochemical)	PCE
6	Chemical Engineering (Pharmaceutical)	PHC
7	Civil Engineering	CIV
8	Construction Engineering & Management	CEM
9	Electrical Engineering & Communications	EEC
10	Computer Engineering	CPE
11	Mechanical Engineering	MEC
12	Mechatronics & Robotics Engineering	MRB
13	Mechatronics & Robotics Engineering (Mechatronics)	MTN
14	Mechatronics & Robotics Engineering (Robotics)	ROB
15	Basic Science	BSC
16	English	LNG
17	Industrial Training Placement	TRN

Article (26): Offered Degrees

- The faculty of Engineering, upon the recommendation of the Faculty Council and the approval of the University Board, offers the following degrees:
 - B.Sc. in Architectural Engineering
 - **B.Sc. in Landscape & Urban Development (Proposed)**
 - B.Sc. in Chemical Engineering with specialization in:
 - Petrochemical Engineering
 - Environmental Engineering
 - Pharmaceutical Engineering
 - B.Sc. in Civil Engineering
 - B.Sc. in Construction Engineering & Management
 - B.Sc. in Electrical Engineering & Communications
 - B.Sc. in Computer Engineering
 - B.Sc. in Mechanical Engineering
 - B.Sc. in Mechatronics Engineering
 - B.Sc. in Robotics Engineering

To achieve these Competencies, a set of courses must be completed as a Basic Electrical Engineering Requirement, in the Computer Engineering program.

Code	Course Title	Credits and SWL				Contact Hours			
		CH	ECTS	BUE	SWL	Lec	Tut	Lab	TT
CPES101	Electric Circuits	3	5	10	125	2	1	1	4
CPES202	Data Structure and Algorithms	3	5	10	125	2	1	1	4
CPE4203	Software Engineering	3	5	10	125	2	1	1	4
CPE4301	Operating Systems	3	5	10	125	2	1	2	5
CPE4401	Digital Design	3	5	10	125	2	1	1	4
BSC4105	Calculus	3	5	10	125	2	2	0	4
CPE4402	Computer Organization	3	5	10	125	2	1	1	4
CPE4302	Database Systems	3	5	10	125	2	1	1	4
CPE4103	Automation and Control System	3	5	10	125	2	1	2	5
CPE4501	Signal Processing	3	5	10	125	2	2	0	4
BSC4106	Differential Equations	3	5	10	125	2	2	0	4
CPE5403	Microprocessor Design	3	5	10	125	2	1	2	5
CPE5502	Computer Networks	3	5	10	125	2	2	0	4
CPE5204	Analysis and Design of Algorithms	3	5	10	125	2	1	1	4
BSC5107	Discrete Mathematics	3	5	10	125	2	2	0	4
BSC5111	Probability and statistics	3	5	10	125	2	2	0	4
CPE5404	Embedded Systems Design	3	5	10	125	2	1	2	5
CPE5503	Internet Programming	3	5	10	125	2	1	1	4
CPE5303	Computer Graphics	3	5	10	125	2	1	1	4
CPE5304	Human-Computer Interaction	3	5	10	125	2	1	1	4
CPE5504	Real-Time Digital Signal Processing	3	5	10	125	2	1	2	5
BSC5110	Applied Numerical Techniques	3	5	10	125	2	2	0	4
Total		66	110	220	2750	44	29	20	93