

# UNIVERSITY of TECHNOLOGY



الجامعة التكنولوجية

## Bachelor of Science Honours (B.Sc. Honours) – Computer Science

بكالوريوس علوم - علوم الحاسوب - فرع نظم المعلومات



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### 1. Mission & Vision Statement

#### ***Vision Statement***

The branch looks forward to preparing and qualifying competencies in the field of building and analyzing systems, which makes it a leading role model in the field of computer science.

#### ***Mission Statement***

The mission of information system program is to cope with up to system design and analysis in the field of systems and its applications. And to achieve quality assurance criteria in students, faculty, curriculum, and staff to meet the constituencies needs in all scientific and educational area.

### 2. Program Specification

<b>Programme code:</b>	BSc-Computer Science	<b>ECTS</b>	240
<b>Duration:</b>	4 levels, 8 Semesters	<b>Method of Attendance:</b>	Full Time

Computer **science** is a wonderfully wide-ranging subject. The emphasis of the programme is the whole organism to which everything is related, The degree is popular - for some it's the breadth of the subject that appeals, for others it's a path to specialisation. All students have

the opportunity to transfer onto our specialist degrees in an information system, computer, and programming at the end of the first year.

Level 1 exposes students to the fundamentals of computer, suitable for progression to all programmes within the computer programme group. Programme-specific core topics are covered at Level 2 preparing for research-led subject specialist modules at Levels 3 and 4. A computer science graduate is therefore trained to appreciate how research informs teaching, according to the University and School Mission statements.

At Levels 2, 3 and 4 students are free to choose more than half of their module credits with the proviso a range of modules are selected. This allows students to develop their own wide-ranging interests in computer field. Decisions on what to study are made with input from personal tutors.

Academic tutorials are held at Levels 1 and 2 with the same tutor, who is also the personal tutor, providing continuity and progressive guidance. Level 1 and 2 tutorials include a number of workshops to teach skills, e.g. library use and presentation skills, followed by assessed exercises, e.g. essays and talks, as opportunities to practice these skills in a subject-specific context.

International years and Industrial placements are also offered and individual needs are discussed with the appropriate tutor and accommodated wherever possible.

### **3. Program Goals**

1. To provide a comprehensive education in Computer Science that stresses scientific reasoning and problem solving across the spectrum of disciplines within Computer Science.
2. To prepare students for a wide variety of post-baccalaureate paths, including graduate school, professional training programs, or entry level jobs in any area of Computer Science.

3. To provide extensive hands-on training in electronic technology, statistical analysis, laboratory skills, and field techniques
4. To provide thorough training in written and oral communication of scientific information
5. To enrich students with opportunities for alternative education in the area of Computer Science through undergraduate research, internships, and study-abroad.

#### **4. Student Learning Outcomes**

This report contains information about the Computer Science Department, at the University of Technology/ software branch. Since the founding of Section 1983 was called the Computer branch on behalf of the branch name was changed to an information system in 1997- 1998. The graduate works in the area of learning, designing and system developing. It also has expertise in the field of infrastructures and methods of data storage, transfer and implementation of calculation algorithms and methods of object-oriented programming and networking concepts, communication and information transfer. He\she also has expertise in basic structures and methods of data storage and transfer, and the implementation of algorithms and calculation methods of object-oriented programming and concepts of networks and communication and information transfer.

##### **Outcome 1**

###### *Identification of Complex Relationships*

Graduates will be able to understand, design, and develop the systems products, and to build structures for data storage and information transfer.

##### **Outcome 2**

###### *Oral and Written Communication*

Graduates will be able to understand problems and suggest solutions. Formally communicate the results of investigations using both oral and written communication

skills. Satisfying the requirements by collecting data, executing algorithms, using computation methods, and programming.

**Outcome 3**

*Laboratory and Field Studies*

Graduates will be able to perform laboratory experiments and field studies, by using scientific equipment and computer technology while observing appropriate safety protocols.

**Outcome 4**

*Scientific Knowledge*

Graduates will be able to demonstrate a balanced concept of how scientific knowledge develops, including the historical development of foundational theories and laws and the nature of science.

**Outcome 5**

*Data Analyses*

Graduates will be able to demonstrate scientific quantitative skills, such as the ability to conduct simple data analyses.

**Outcome 6**

*Critical Thinking*

Graduates will be able to use critical-thinking and problem solving skills to develop a research project and/or paper.

**5. Academic Staff**

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## 6. Credits, Grading and GPA

### ***Credits***

Koya University is following the Bologna Process with the European Credit Transfer System (ECTS) credit system. The total degree program number of ECTS is 240, 30 ECTS per semester. 1 ECTS is equivalent to 25 student workload, including structured and unstructured workload.

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## Grading

Before the evaluation, the results are divided into two subgroups: pass and fail. Therefore, the results are independent of the students who failed a course. The grading system is defined as follows:

GRADING SCHEME مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
<b>Success Group (50 - 100)</b>	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
<b>Fail Group (0 - 49)</b>	FX - Fail	مقبول بقرار	(45-49)	More work required but credit awarded
	F - Fail	راسب	(0-44)	Considerable amount of work required

### Note:

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

### Calculation of the Grade Point Average (GPA)

- The GPA is calculated by the summation of each module score multiplied by its ECTS, all are divided by the program total ECTS.

GPA of a 4-year B.Sc. degrees:

$$\text{GPA} = [(1\text{st module score} \times \text{ECTS}) + (2\text{nd module score} \times \text{ECTS}) + \dots] / 240$$

## 7. Curriculum/Modules

### Semester 1 | 30 ECTS

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
PRFU111	Programming Fundamental	108	92	8.00	basic	
MATH112	Mathematics	108	92	8.00	basic	
STPR113	Statistics and Probability	93	57	6.00	basic	
PRIS114	Principle of Information System	63	37	4.00	core	



DEHR105	Democracy and Human Right	33	17	2.00	basic	
WSHS106	Workshop	47	3	2.00	basic	

**Semester 2 | 30 ECTS**

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
STPR121	Structured Programming	108	92	8.00	basic	
DIST122	Discrete Structures	63	62	5.00	basic	
COLD123	Computer Organization and Logic Design	93	57	6.00	basic	
ETEC124	E-Techniques	78	47	5.00	core	
INTE125	Information Technology	63	37	4.00	core	
WSHS106	Workshop	47	3	2.00	basic	

**8. Contact**

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Email:

Mobile no.:



Program Coordinator:

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Email:

Mobile no.: