Soran University

Learning Resources, Facilities, and Infrastructure

Executive Report

Evidence folder. All documents cited in this file are held in the FC15 folder of the KAAE FC Document Portal: https://main.soran.edu.iq/public/sun_fc/folder.php?fc=15. Each evidence ID in the register at the end of this section links to that folder; web-published sources link directly to the page concerned.

1. Key figures at a glance

Indicator	Value	Source
Teaching halls (all types)	148	FC15-E03, FC15-E05
Total seat capacity	4,801	FC15-E03
Theory halls / seats	105 / 3,692 (avg. 35 seats)	FC15-E03
Practical halls (laboratories and workshops) / seats	42 / 1,059 (avg. 25 seats)	FC15-E04
Multi-purpose hall (theory and practical)	1 / 50 (Engineering Drawing Lab)	FC15-E04
Scientific Research Centre laboratories	9 specialised research laboratories	FC15-E08
Central Library – books	37,713 in 13 categories	FC15-E01
Central Library – theses	3,004 (2,428 Master's, 576 PhD)	FC15-E01

Indicator	Value	Source
Faculty of Education Library – catalogued records	≈10,000 in 23 subject sheets; 20 reading seats; 5 shelving bays	FC15-E06, FC15-E07
Enrolment used for ratios	≈7,000 students (to be reconciled with FC17)	FC17

1.1 Ratios of students to halls, laboratories, books and reading places

The ratios below use an enrolment of approximately 7,000 students. Halls are timetabled in two daily shifts (morning and evening), so the effective seat provision is roughly double the physical figure.

Ratio	Calculation	Result	Reading
Students per teaching hall	7,000 ÷ 148	47.3	about 47 students share each hall
Students per theory hall	7,000 ÷ 105	66.7	about 67 students per lecture hall
Students per laboratory	7,000 ÷ 42	166.7	about 167 students per laboratory
Seats per student (all halls)	4,801 ÷ 7,000	0.69	0.69 physical seats; ≈1.4 with two shifts
Students per seat (all halls)	7,000 ÷ 4,801	1.46	1.46 students per seat
Students per laboratory seat	7,000 ÷ 1,059	6.6	6.6 students per lab seat; lab groups of ≈25
Central Library books per student	37,713 ÷ 7,000	5.4	5.4 volumes per student
Books per student incl. Faculty of Education Library	(37,713 + ≈10,000) ÷ 7,000	6.8	6.8 volumes per student

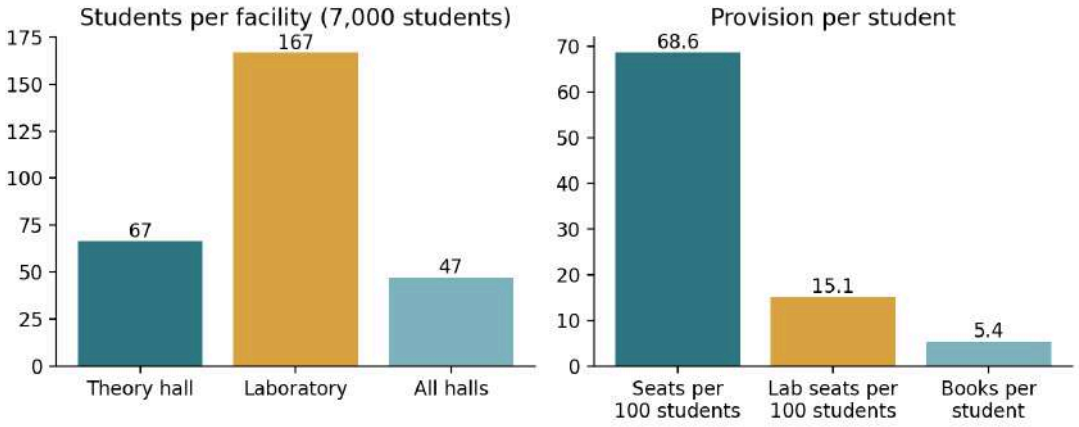


Figure 1. Students per facility and provision per student (≈7,000 students).

2. Teaching halls

Soran University operates 148 teaching halls in three main buildings – Building A, Building B and the Education Building – plus two further halls. The halls were inventoried for the self-study in March 2026 (FC15-E05) and reported by type in FC15-E03 (theory) and FC15-E04 (practical).

2.1 Halls by type

Hall type	Count	Total capacity	Avg. capacity	Share
Theory (lecture rooms)	105	3,692	35	70.9%
Practical (laboratories and workshops)	42	1,059	25	28.4%
Both (theory and practical)	1	50	50	0.7%
Grand total	**148**	**4,801**	**32**	**100%**

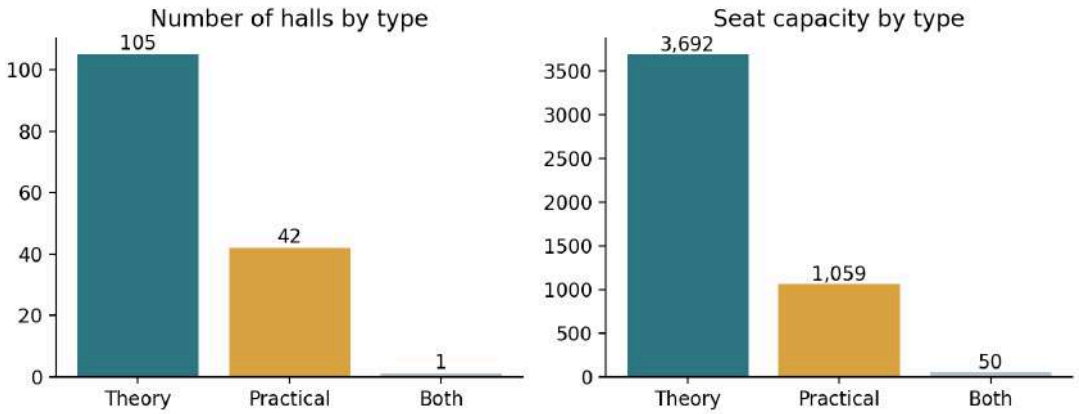


Figure 2. Number of halls and seat capacity by hall type (FC15-E03).

2.2 Halls by building

Building	Theory	Practical	Both	Total halls	Capacity
Building A	31	29	1	61	1,975
Building B	39	3	0	42	1,589
Education Building	33	10	0	43	1,187
Other	2	0	0	2	50
Grand total	**105**	**42**	**1**	**148**	**4,801**

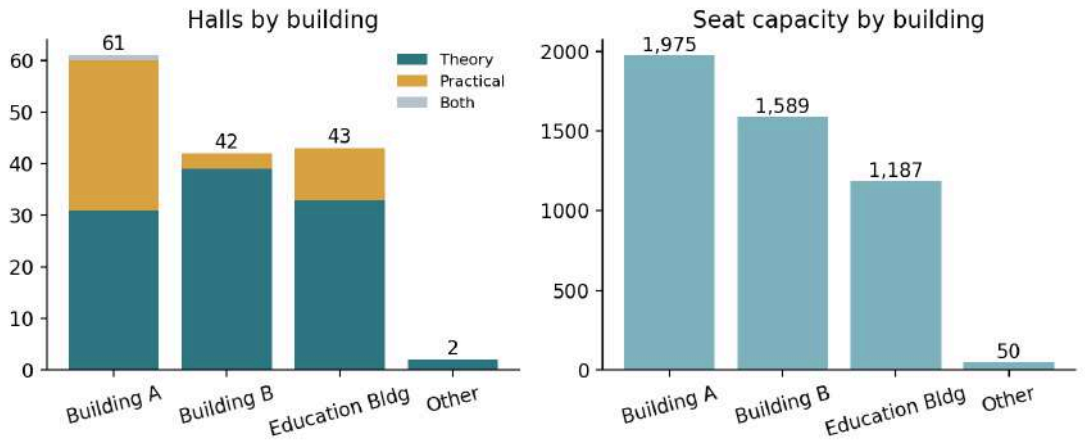


Figure 3. Halls and seat capacity by building (FC15-E03).

2.3 Halls by faculty

Faculty	Theory	Practical	Both	Total halls	Capacity
Arts	26	2	0	28	1,049
Education	35	10	0	45	1,237
Engineering	11	11	1	23	690
Law	13	1	0	14	540
Science	20	18	0	38	1,285
Grand total	**105**	**42**	**1**	**148**	**4,801**

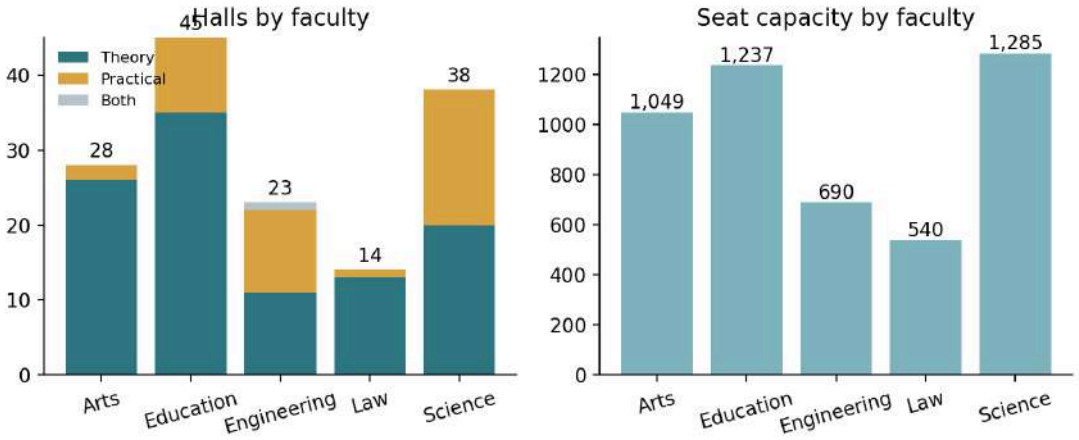


Figure 4. Halls and seat capacity by faculty (FC15-E03).

2.4 Photographs of teaching halls

The following photographs show representative halls of each type, along with brief information about each facility. To give the reviewer a complete picture, we have included some photographs of buildings for theory halls.For an example gallery of additional photographs, please view the image folder here.



Photo 1. Theory hall, Building A .



Photo 2. Theory hall, Building B .



Photo 3. Theory hall, Education Building.



Photo 4. Sports facility, Faculty of Education.



Photo 5. Theory hall, Building A.



Photo 6. Faculty of Education.



Photo 7. Theory hall, Building B.



Photo 8. Theory hall, Building B.



Photo 9. Theory hall, Jazari Building A.



Photo 10. Pedagogy hall, Building A.

2.5 Full list of theory halls (105)

Source: FC15-E03 (Study Halls Report – Theory). Numbers are the hall IDs used in the master inventory (FC15-E05).

#	Hall name	Building	Faculty	Seats
13	Build A- B5	Building A	Science	60
15	Build A- B3	Building A	Science	40
16	Build A- B2	Building A	Science	40
17	Build A- B1	Building A	Science	60
23	Build A- S15	Building A	Engineering	40
24	Build A- S17	Building A	Engineering	40
26	Build A- S16	Building A	Science	35
28	Build A- S14	Building A	Engineering	40
29	Build A- S13	Building A	Engineering	40
31	Build A- S12	Building A	Engineering	40
32	Build A- F12	Building A	Engineering	40
33	Build A- F13	Building A	Engineering	50
34	Build A- F14	Building A	Engineering	50

#	Hall name	Building	Faculty	Seats
35	Build A- F15	Building A	Engineering	40
36	Build A- F16	Building A	Engineering	40
37	Build A- F17	Building A	Engineering	40
38	Build A- F18	Building A	Science	40
39	Build A- F19	Building A	Science	40
40	Build A- F20	Building A	Science	40
41	Build A- F21	Building A	Science	40
42	Build A- F22	Building A	Science	40
43	Build A- F23	Building A	Science	40
52	Build A- Hall 2	Building A	Science	40
202	Hall F18	Building A	Science	40
203	Hall F19	Building A	Science	40
204	Hall F20	Building A	Science	40
205	Hall F21	Building A	Science	40
206	Hall F22	Building A	Science	40
207	Hall F23	Building A	Science	40
208	Hall B1	Building A	Science	60
209	Hall B2	Building A	Science	40
53	Build B- B2	Building B	Arts	35
54	Build B- B7	Building B	Law	42
55	Build B- B8	Building B	Law	35
56	Build B- B10	Building B	Law	35
57	Build B- B11	Building B	Law	35
60	Build B- S13	Building B	Law	42
61	Build B- S14	Building B	Law	39
62	Build B- S15	Building B	Law	39
63	Build B- S16	Building B	Law	42
65	Build B- S18	Building B	Law	42

#	Hall name	Building	Faculty	Seats
66	Build B- S19	Building B	Law	42
68	Build B- S21	Building B	Arts	35
69	Build B- S22	Building B	Arts	35
70	Build B- S23	Building B	Law	42
71	Build B- G11	Building B	Arts	35
72	Build B- G12	Building B	Arts	60
73	Build B- G13	Building B	Arts	60
74	Build B- G14	Building B	Arts	60
75	Build B- G15	Building B	Arts	35
76	Build B- G16	Building B	Arts	35
77	Build B- G17	Building B	Arts	35
78	Build B- G18	Building B	Arts	35
79	Build B- G19	Building B	Arts	35
84	Build B- F12	Building B	Arts	35
85	Build B- F13	Building B	Arts	35
86	Build B- F14	Building B	Arts	35
87	Build B- F15	Building B	Arts	35
88	Build B- F16	Building B	Arts	35
89	Build B- F17	Building B	Arts	35
90	Build B- F18	Building B	Arts	35
91	Build B- F19	Building B	Arts	35
92	Build B- F20	Building B	Arts	35
93	Build B- F21	Building B	Arts	35
94	Build B- F22	Building B	Arts	35
95	Build B- F23	Building B	Arts	35
134	Build B- B1	Building B	Arts	35
135	Build B- B15	Building B	Arts	35
187	B17	Building B	Law	35

#	Hall name	Building	Faculty	Seats
188	B20	Building B	Law	35
96	Edu- 1	Education Building	Education	25
97	Edu- 2	Education Building	Education	25
98	Edu- 3	Education Building	Education	25
99	Edu- 4	Education Building	Education	25
100	Edu- 5	Education Building	Education	25
101	Edu- 6	Education Building	Education	25
102	Edu- 7	Education Building	Education	25
103	Edu- 8	Education Building	Education	25
104	Edu- 9	Education Building	Education	25
105	Edu- 10	Education Building	Education	25
106	Edu- 11	Education Building	Education	25
107	Edu- 12	Education Building	Education	25
108	Edu- 13	Education Building	Education	25
109	Edu- 14	Education Building	Education	25
110	Edu- 15	Education Building	Education	25
111	Edu- 16	Education Building	Education	25
112	Edu- 17	Education Building	Education	25
113	Edu- 18	Education Building	Education	25
114	Edu- 19	Education Building	Education	20
115	Edu- 20	Education Building	Education	35
116	Edu- 21	Education Building	Education	25
117	Edu- 22	Education Building	Education	25
118	Edu- 24	Education Building	Education	12
119	Edu- 23	Education Building	Education	35
130	gymnastics Hall	Education Building	Education	35
186	Edu- 25	Education Building	Education	25
192	Edu- 26	Education Building	Education	25

#	Hall name	Building	Faculty	Seats
193	یاریگای چیمەنی دەستکرد	Education Building	Education	–
194	یاریگای سۆران	Education Building	Education	–
195	یاریگای تێنس	Education Building	Education	–
196	هۆڵی داخراو	Education Building	Education	–
197	یاریگای گۆرەپان ومەیدان	Education Building	Education	–-
199	Edu25	Education Building	Education	25
200	EDU-27	Other	Education	25
201	EDU-28	Other	Education	25
	Subtotal – theory halls			**3,692**

3. Laboratories and practical facilities

The University has 42 dedicated laboratories and workshops (1,059 seats) across the faculties, one multi-purpose Drawing Lab, and nine specialised research laboratories in the Scientific Research Centre. Laboratory provision follows the programme requirements of each department; the descriptions below are taken from the faculties' published laboratory pages and from the department submissions for this criterion.

3.1 Full list of practical halls (42) and the multi-purpose hall

Source: FC15-E04 (Study Halls Report – Practical). Hall IDs as in FC15-E05.

#	Laboratory / workshop	Building	Faculty	Seats
1	Build A- Heat transfer Lab (CHED)	Building A	Engineering	15
2	Build A- Fluid Mechanic Lab (CHED)	Building A	Engineering	15
3	Build A- Construction Materials and Structures Research Hub (CEED)	Building A	Engineering	15
4	Build A- Geotechnical Lab (CEED)	Building A	Engineering	15
5	Build A- Mechatronics and Robotics Lab	Building A	Engineering	15
7	Build A- Computer Lab (A)	Building A	Engineering	30
8	Build A- Computer Lab (B)	Building A	Engineering	30
9	Build A- G11 Chemistry Lab (PED)	Building A	Engineering	10
10	Build A- G12 Drilling Lab (PED)	Building A	Engineering	10
11	Build A- G13 Reservoir Lab (PED)	Building A	Engineering	10
12	Build A- Lab 2 Nursing	Building A	Science	25
14	Build A- Lab Nursing	Building A	Science	25
18	Build A- S23 computer lab	Building A	Science	25
19	Build A- S22 computer lab	Building A	Science	25
20	Build A- S20 computer lab	Building A	Science	25
21	Build A- S19 computer lab	Building A	Science	25
22	Build A- S18 computer lab	Building A	Science	25
44	Build A- LAB CH. 1	Building A	Science	25
45	Build A- LAB CH.2	Building A	Science	25
46	Build A- LAB CH.3	Building A	Science	25

#	Laboratory / workshop	Building	Faculty	Seats
47	Build A- LAB BIO.1	Building A	Science	25
48	Build A- LAB BIO.2	Building A	Science	25
49	Build A- LAB BIO.3	Building A	Science	25
50	Build A- LAB PG.1	Building A	Science	20
51	Build A- LAB PG.2	Building A	Science	20
189	Lab 4 Biology	Building A	Science	25
190	Lab 1 physic	Building A	Science	20
191	Lab 2 physic	Building A	Science	20
198	Build A- S23 Lab	Building A	Engineering	15
80	Build B- Lab Law	Building B	Law	35
82	Build B- Lab1	Building B	Arts	32
83	Build B- Lab2	Building B	Arts	32
120	Edu- Computer LAB	Education Building	Education	35
121	Edu- G. Physics	Education Building	Education	35
122	Edu- Electricity	Education Building	Education	35
123	Edu- Biology 1	Education Building	Education	35
124	Edu- Biology 2	Education Building	Education	35
125	Edu- Chemistry	Education Building	Education	35
126	Physical Edu 7	Education Building	Education	35
127	Physical Edu 8	Education Building	Education	35
128	Physical Edu 9	Education Building	Education	35
129	Physical Edu 10	Education Building	Education	35
	Subtotal – practical halls			1,059
6	Build A- Drawing Lab (theory and practical)	Building A	Engineering	50

3.2 Faculty of Engineering

Published at eng.soran.edu.iq/feng/feng-labs (FC15-E09), with photographs and experiment manuals for each laboratory.

Laboratory	Department	Purpose and main experiments	Seats
Fluid Mechanics / Fluid Flow Lab	Chemical Engineering (also Petroleum and Civil)	Flow meters, pumps and tanks; volumetric flow rate, Reynolds number, buoyancy, surface tension, Bernoulli's theorem, minor losses in pipes, centrifugal pumps in series and parallel.	15
Heat Transfer Lab	Chemical Engineering	Forced-convection heat-transfer bench, composite-wall apparatus, drop- and film-wise condensation, fluidised-bed heat transfer.	15
Construction Materials and Structures Research Hub	Civil and Environmental Engineering	Testing of concrete, mortar, paste, aggregates and steel for strength, durability and compliance with standards.	15
Geotechnical Lab	Civil and Environmental Engineering	Soil and rock analysis, classification, strength and permeability for foundation and infrastructure design.	15
Reservoir Engineering Lab	Petroleum and Mining Engineering	Core plugging, helium porosimetry, gas permeametry, contact-angle and interfacial-tension measurement, core flooding.	10
Drilling Fluid and Cementing Lab	Petroleum and Mining Engineering	Preparation of drilling mud and measurement of density, viscosity, gel strength, yield point, fluid loss, sand content and pH.	10
Chemistry Lab (G11)	Petroleum and Mining Engineering	General chemistry experiments supporting first-year engineering modules.	10
Mechatronics and Robotics Lab	Mechatronics and Robotics Engineering	Robotics, control and mechatronic systems for practical modules and projects.	15
Computer Labs A and B	Faculty-wide	Programming, CAD and simulation classes.	30 + 30
Drawing Lab	Faculty-wide	Engineering drawing; used for theory and practical sessions.	50

3.3 Faculty of Science

Department of Physics

General Physics and Mechanics Laboratory – fully equipped with educational apparatus for fundamental experiments in mechanics, thermodynamics and properties of matter, including digital motion detectors, force and friction systems, rotational-motion units and pressure-measurement devices, giving physics students a complete hands-on environment (Lab 1 Physics, 20 seats).

Electrical Laboratory – a set of electrical equipment used by first- and second-year physics students for the modules Electricity and Magnetism I and Circuit Analysis II (Lab 2 Physics, 20 seats).

Department of Computer Science

The department operates four computer laboratories (S18–S23 block) that support practical teaching, programming and applied coursework, providing **124 workstations** in total. Labs 1 and 2 each have 32 all-in-one computers (64 workstations); Lab 3 has 28 all-in-one computers; Lab 4 has 32 desktop (tower) computers, which allow easier upgrades and maintenance. Each laboratory is set up for hands-on instruction so that students can work on individual assignments, software development and technical training in a structured environment.

Department of Biology

Laboratory	Function
Laboratory 1 – Microbiology	Culture, isolation and identification of micro-organisms; aseptic technique, staining, microscopy and microbial culture; laboratory-safety skills.
Laboratory 2 – Clinical Biochemistry, Human Physiology and Entomology	Biochemical analysis of biological samples, study of human physiological processes, observation and identification of insects and other entomological specimens.
Laboratory 3 – Histology and General Biology	Preparation, observation and examination of biological tissues with microscopes; identification of cellular and tissue structures; general biology practicals.
Laboratory 4 – Plant Physiology and Anatomy	Experiments on photosynthesis, respiration, transpiration, water relations and mineral nutrition; microscopic and anatomical study of plant tissues and organs.
Laboratory 5 – Student Research Laboratory	Research projects of Bachelor's and Master's students under supervision: sample preparation, experiments and data collection.

Laboratory	Function
Laboratory 6 – Advanced Biological and Physiological Research Laboratory	Advanced cell and tissue culture under sterile conditions, cell-line maintenance and physiological experiments; platform for Master's and PhD research, collaborative projects and publications.

Departments of Chemistry and Petroleum Geosciences

The Department of Chemistry operates three teaching laboratories (LAB CH.1–CH.3, 25 seats each) covering general, organic, inorganic and analytical chemistry practicals, and the Department of Petroleum Geosciences operates two laboratories (LAB PG.1–PG.2, 20 seats each) for mineralogy, petrology and reservoir-geology practicals.

3.4 Faculty of Education

The Faculty of Education operates ten practical halls (350 seats): a Computer Laboratory, a General Physics laboratory, an Electricity laboratory, two Biology laboratories and a Chemistry laboratory serving the General Sciences and Mathematics departments, and four practical halls (Physical Edu 7–10) for the Department of Physical Education and Sports Science. Sports teaching is further supported by a gymnastics hall, an indoor hall, an artificial-turf pitch, a tennis court, an athletics field and the Soran stadium, which are recorded in the hall inventory (FC15-E03).

3.5 Scientific Research Centre

The Scientific Research Centre (src.soran.edu.iq, FC15-E08) was planned in 2010, funded with more than five million US dollars and completed in 2014. It supports staff, postgraduate and final-year student research from all faculties through nine specialised laboratories, each with a published equipment list, research fellows and gallery:

Laboratory	Focus / key instruments (as published)
GIS and Remote Sensing	Geographic information systems and remote-sensing analysis.
Biogeoscience	Biological and geological sample analysis.
Phytochemistry	Extraction and analysis of plant-derived compounds.
Analytical	Analytical chemistry services for research and industry.
SEM-XRD Analysis	PANalytical X'Pert PRO X-ray diffractometer; FEI Quanta 450 scanning electron microscope with Bruker EDS; SKYRay portable XRF analyser.
Geo-Workshop	Sample preparation and geological workshop.
Optical	Optical characterisation.

Laboratory	Focus / key instruments (as published)
Nanotechnology	Green nanotechnology for sustainable materials.
Molecular	Molecular biology techniques.

3.6 Photographs of laboratories

Insert one photograph per laboratory type. The Faculty of Engineering and the Scientific Research Centre already publish photographs on the linked pages; the Faculties of Science and Education are to supply photographs of the laboratories listed in 3.3 and 3.4.



Photo 11. Engineering laboratory (Fluid Mechanics Lab).



Photo 12. Science laboratory (Biology Lab).



Photo 13. Computer Science laboratory



Photo 14. Faculty of Education laboratory.



Photo 15. Petroleum Geoscience lab



Photo 16. Education Computer laboratory.



Photo 17. Research center laboratory



Photo 18. Research center laboratory.

4. Libraries and reading spaces

4.1 Central Library

The Central Library (online catalogue at Soran University Academic Digital Library) holds 37,713 books classified into 13 subject categories and 3,004 postgraduate theses (FC15-E01, FC15-E02). The collection covers the disciplines of all five faculties.

#	Category	Books	Share
1	General Sciences	1,336	3.5%
2	Philosophy	531	1.4%
3	Psychology	899	2.4%
4	Religious Studies	1,919	5.1%
5	Social Sciences	5,526	14.7%
6	Law	5,048	13.4%
7	Language, Literature and Culture	11,304	30.0%
8	Natural Sciences	1,926	5.1%
9	Applied Sciences	1,232	3.3%
10	Arts	322	0.9%
11	Geography, History and Notes	4,747	12.6%
12	Persian Books	468	1.2%
13	Journals and Newspapers	2,455	6.5%
	Grand total	**37,713**	**100%**

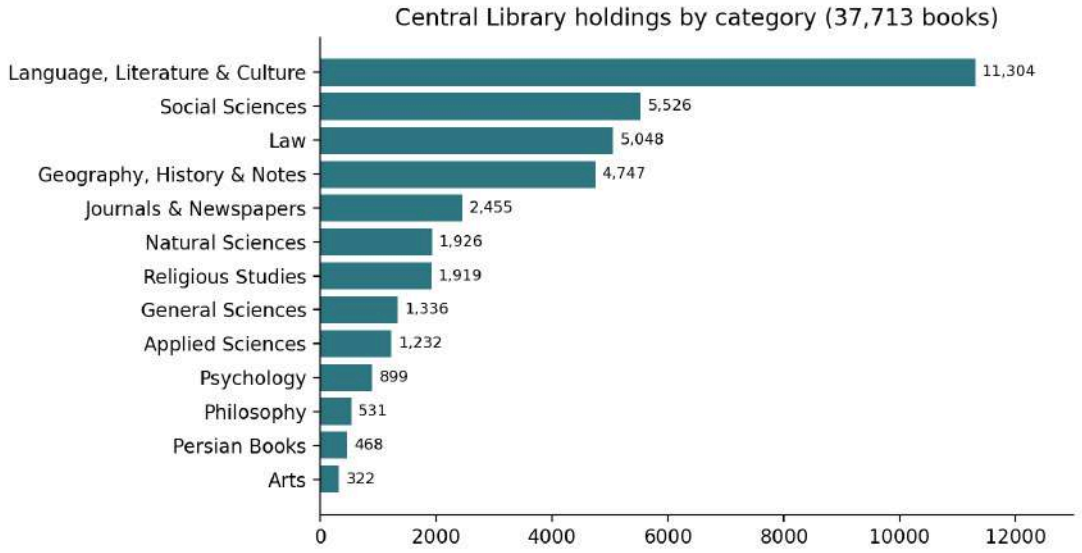


Figure 5. Central Library holdings by category (FC15-E01).

Language	Master's	PhD	Total	Share
Kurdish	708	144	852	28.4%
Arabic	1,534	407	1,941	64.6%
English	186	25	211	7.0%
Grand total	**2,428**	**576**	**3,004**	**100%**

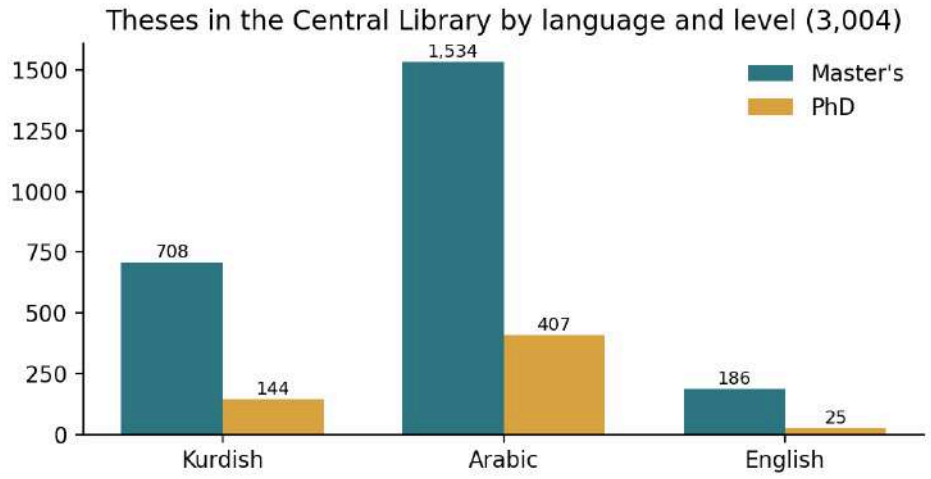


Figure 6. Theses by language and degree level (FC15-E01).

4.2 Faculty of Education Library

The Faculty library occupies the third floor of the Faculty of Education building and works two shifts – 08:30 to 13:00 (library head and two permanent staff) and 15:00 to 19:00 (two permanent staff). It has five large shelving bays, a reading area with 20 seats for private

study and supervised group discussion, and heating and cooling equipment operated by staff. Every item carries a subject code, and the coded inventory is kept in an Excel register of about 10,000 records in 23 subject sheets (FC15-E06, FC15-E07).

Subject section	Records	Subject section	Records
Kurdish literature and poetry	1,576	English-language books	≈2,500
History (Kurdish)	729	Journals	≈420
Biology	662	Politics	≈500
Psychology	600	Physics	≈240
Religious studies	422	Chemistry	≈210
Philosophy	318	Computer science	211
Kurdish grammar	313	Mathematics	≈180
Dictionaries	280	Engineering	88
Management	159	Geography	171
Sociology	156	Medical research reports	≈370

Table: Faculty of Education Library holdings by subject (FC15-E06 for the reported counts; ≈ values are record counts from the Excel register FC15-E07).

Borrowing and use. Books are lent for two weeks against the student's university ID card, with extensions of three to five days on request; borrowers are responsible for lost or damaged items; MA and PhD theses are consulted in the library only, in line with Ministry guidance on protecting researchers' intellectual property; and donated books are registered under the donor's name. Reading-room rules cover quiet, food and drink, mobile phones and supervised group discussion (FC15-E06).

4.3 Photographs of the libraries and reading areas

Photographs of the shelving and the reading area of both libraries are in this link



Photo 19. Central Library .



Photo 20. Central Library – reading area.



Photo 21. Faculty of Education Library .



Photo 22. Faculty of Education Library.