



## ۴ اختصارات مورد استفاده در مراجع آموزش مهندسی

در جدول ۴ برخی از اختصارات مورد استفاده در مراجع آموزش مهندسی به ترتیب حروف الفبا معرفی شده‌اند. در مواردی به دلیل اینکه زبان اصلی انگلیسی نبوده، حروف استفاده شده در فرم اختصاری با متن انگلیسی تطابق ندارد. در این موارد نام کامل فرم اختصاری به زبان اصلی متعلق به آن کشور نیز ارائه شده‌است.

Table 4: Some commonly used acronyms in engineering education literature; sorted alphabetically

#	Acronym	Full Name
1	ABET	Accreditation Board for Engineering and Technology (US)
2	AMS	Accreditation Management System (Australia)
3	ANECA	National Agency for the Quality Assessment and Accreditation (Spanish: Agencia Nacional de Evaluación de la Calidad y Acreditación)
4	AQAS	Agency for Quality Assurance through Accreditation of Study Programmes
5	ARL	Action Reflection Learning
6	ASCAL	Quality Assurance Agency of Higher Education (Albanian: Agjencia e Sigurimit të Cilësisë në Arsimin e Lartë)
7	ATMAE	Association of Technology, Management, and Applied Engineering
8	CBI	Challenge-Based Instructions
9	CDIO	Conceiving, Designing, Implementing and Operating
10	CEENQA	Central and Eastern European Network of Quality Assurance Agencies in Higher Education
11	CESU	Ministry of National Education and the National Council of Higher Education
12	CNA	National Accreditation Council (Spanish: Consejo Nacional de Acreditación de Colombia)
13	CROHO	Central Register of Higher Education programmes (Dutch: Centraal Register van Opleidingen in het Hoger Onderwijs)
14	DBL	Design-Based Learning



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#	Acronym	Full Name
15	DL	Discovery Learning
16	EBE	Evidence-Based Education
17	EBL	Inquiry-Based Learning
18	EBTN	The Evidence-Based Teachers Network
19	ECA	European Consortium for Accreditation in higher education
20	EL	Experiential Learning
21	ENQA	European Association for Quality Assurance in Higher Education
22	EQAR	European Quality Assurance Register for Higher Education
23	EVA	Danish Evaluation Institute
24	FIBAA	Foundation for International Business Administration Accreditation
25	HEA	Higher Education Academy (UK)
26	HEFCE	Higher Education Funding Council (UK)
27	IEE	Institute For Effective Education
28	IEP	Individualized Education Program
29	INQAAHE	International Network for Quality Assurance Agencies in Higher Education
30	JCALT	JISC Committee for Awareness, Liaison and Training
31	JCAS	JISC Committee for Authentication and Security
32	JCEI	JISC Committee for Electronic Information
33	JCIEL	JISC Committee for Integrated Environments for Learners



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#	Acronym	Full Name
34	JCN2	JISC Committee on Networking
35	JISC	Joint Information Systems Committee (UK)
36	LdL	Learning By Teaching (Germany: Lernen Durch Lehren)
37	LLL	Life Long Learning
38	LMS	Learning Management System
39	LO	Learning Outcomes
40	MACTE	Montessori Accreditation Council for Teacher Education
41	MCCEE	Medical Council of Canada Evaluating Examination
42	MLE	Managed Learning Environment
43	MSETM	Master of Science in Engineering Technology Management
44	MULTRA	Multilateral Agreement on the Mutual Recognition of Accreditation Results regarding Joint Programmes
45	NAC	National Assessment Collaboration
46	NL	Networked Learning
47	NSES	National Science Education Standards (America)
48	NVAO	Accreditation Organization of the Netherlands and Flanders (Dutch: Nederlands-Vlaamse Accreditatieorganisatie)
49	OSCE	Objective Structured Clinical Examination
50	OSPE	Objective Structured Practical Examination
51	PBL	Problem-Based Learning



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#	Acronym	Full Name
52	PDP	Personal Development Plan
53	PhBL or PhenoBL	Phenomenon-Based Learning
54	PjBL	Project-Based Learning
55	PKA	Polish Accreditation Committee (Polish: Polska Komisja Akredytacyjna)
56	PLE	Personal Learning Environment
57	POGIL	Process Oriented Guided Inquiry Learning
58	POLARIS	Problem Oriented Learning And Retrieval Information System
59	QAA	Quality Assessment Agency
60	RIACES	The Ibero-American Network for Accreditation of the Quality of Higher Education (Spanish: Red Iberoamericana para la Acreditaci?n de la Calidad de la Educaci?n Superior)
61	SDL	Self-Directed Learning
62	SQAA	Slovenian Quality Assurance Agency for Higher Education
63	STEM	Science, Technology, Engineering, and Mathematics
64	STS	Science Technology and Society
65	STSE	Science, Technology, Society and Environment Education
66	TEAL	Technology-Enabled Active Learning
67	UKCME	The UK Center of Materials Education
68	UK-SPEC	The UK Specification for Accreditation of Engineering Degrees
69	VaNTH	Vanderbilt, Northwestern, Texas, and Harvard



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#	Acronym	Full Name
70	VFM	Value For Money
71	VLE	Virtual Learning Environment
72	WBL	Work-Based Learning

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