International Baccalaureate · IB Diploma · Design Technology · HL

Glossary · every term in the course, A–Z

English

academic integrity
/ˌækəˈdemɪk ɪnˈtegrɪti/

accuracy
/ˈækjʊrəsi/

additive manufacturing

affordance

alloy
/ˈælɔɪ/

anthropometric data

anthropometrics

anthropometry
/ˌænθrəˈpɒmɪtrɪ/

appropriate technology

automation
/ˌɔːtəˈmeɪʃn/

batch production
/bætʃ prəˈdʌkʃn/

biomimicry

brainstorming

brittleness

carbon footprint
/ˈkɑːbən ˈfʊtprɪnt/

circular economy
/ˈsɜːkjʊlə ɪˈkɒnəmi/

clearance
/ˈklɪərəns/

clearance fit

cognitive ergonomics

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English

composite
/ˈkɒmpəzɪt/
computer numerical control
computer-aided design
computer-aided manufacture
constraint
/kənˈstreɪnt/
convergent thinking
/kənˈvɜːdʒənt ˈθɪŋkɪŋ/
copyright
/ˈkɒpɪraɪt/
cradle to cradle
density
/ˈdensɪti/
design brief
/dɪˈzaɪn briːf/
design cycle
/dɪˈzaɪn ˈsaɪkl/
design for disassembly
/dɪˈzaɪn fɔː ˌdɪsəˈsemblɪ/
design specification
design thinking
destructive testing
diffusion of innovation
disruptive innovation
divergent thinking
/daɪˈvɜːdʒənt ˈθɪŋkɪŋ/
double diamond
ductility
/dʌkˈtɪlɪti/
durability

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English

dynamic data

eco-label

elasticity
/ɪlæˈstɪsɪti/
embodied energy

ergonomics
/ˌɜːgəˈnɒmɪks/
evaluation
/ɪˌvæljuːˈeɪʃn/
factor of safety

feedback
/ˈfiːdbæk/
fidelity

finite element analysis

fit
/fɪt/
fixed cost
/fɪkst kɒst/
forming
/ˈfɔːmɪŋ/
gantt chart
/gænt tʃɑːt/
greenwashing

hardness
/ˈhɑːdnəs/
inclusive design

incremental innovation

information overload
/ˌɪnfəˈmeɪʃn ˌəʊvəˈləʊd/
injection moulding

innovation
/ˌɪnəˈveɪʃn/
intellectual property
/ˌɪntəˈlektʃuːəl ˈprɒpəti/

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English

interference fit

invention

iteration
/ˌɪtəˈreɪʃn/
iterative
/ˈɪtərətɪv/
just-in-time
/dʒʌst ɪn taɪm/
Lean production
/liːn prəˈdʌkʃn/
life cycle assessment
/laɪf ˈsaɪkl əˈsesmənt/
linear economy

mapping

market pull

mass customisation
/mæs ˌkʌstəmaɪˈzeɪʃn/
mass production

mental model

mock-up

model
/ˈmɒdl/
morphological chart

nominal size

non-destructive testing

normal distribution
/ˈnɔːml ˌdɪstrɪˈbjuːʃn/
one variable

one-off production

open source
/ˈəʊpən sɔːs/

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English

patent
/ˈpeɪtənt/
percentile
/pəˈsentaɪl/
planned obsolescence

plasticity

precision
/prɪˈsɪʒn/
primary research
/ˈpraɪməri rɪˈsɜːtʃ/
product analysis

production plan

proof of concept

prototype
/ˈprəʊtəʊtaɪp/
quality assurance
/ˈkwɒlɪti əˈʃʊərəns/
quality control
/ˈkwɒlɪti kənˈtrəʊl/
radical innovation

reach
/riːtʃ/
registered design

right to repair

risk assessment
/rɪsk əˈsesmənt/
scale model

secondary research
/ˈsekəndəri rɪˈsɜːtʃ/
signifier

simulation
/ˌsɪmjʊˈleɪʃn/
smart material

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English

specification
/ˌspesɪfɪˈkeɪʃn/
static data

stiffness
/ˈstɪfnəs/
strain
/streɪn/
strength-to-weight ratio

stress
/stres/
success criterion
/səkˈses kraɪˈtɪərɪən/
sustainability
/səˌsteɪməˈbɪlɪti/
technology push

tensile strength

thermoplastics

thermosetting polymer
/ˈθɜːməsɪtɪŋ ˈpɒlɪmə/
tolerance
/ˈtɒlərəns/
tolerance stacking

toughness

trademark

transition fit

triple bottom line

user trial

user-centred design

vacuum forming

value engineering

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English

variable

/ˈveərɪəbl/

variable cost

/ˈveərɪəbl kɒst/

virtual prototyping

wasting

weighted decision matrix

Young's modulus

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