Issue Report

Site quality report for https://skm.kmi.open.ac.uk/ produced on January 13, 2025.

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| --- | --- | --- |
| Overall Quality |                                                   | 1 pages with quality issues |
| Errors |                                                   | 1 pages with broken links or other errors |
| Accessibility |                                                   | 1 pages with accessibility problems |
| Compatibility |                                                  | 0 pages with browser specific issues |
| Search |                                                   | 1 pages with search engine issues |
| Standards |                                                   | 1 pages have W3C standards issues |
| Usability |                                                   | 1 pages with usability issues |
| Totals |  | 93 URLs checked |

# Errors

This section shows site quality issues, including broken links and server mis-configurations.

## Priority 1

3 issues on 1 pages

 This link is broken. The src or href is an empty string.

 href='' or src='' can cause unexpected effects such as traffic spikes or cookie corruption, and causes JavaScript error events to fire on Firefox.

Broken Link

Link: URL is empty. <https://skm.kmi.open.ac.uk/> line 631 1033 1068 1087 1105 ...

 This link is broken. The target anchor does not exist or is commented out.

The anchor after the # symbol points to a non-existent id on the target page. If the anchor link targets the same page nothing will happen when it's clicked. If the anchor link targets another page, then the top of the target page will be displayed instead of the intended location. In most cases the destination anchor has been removed accidentally and should be reinstated.

Broken Link

id=technologies <https://skm.kmi.open.ac.uk/> line 483

 This page contains some spelling errors.

Click the word to add it to the dictionary. Click it again if you want to remove it.

microblogging <https://skm.kmi.open.ac.uk/> line 1160

## Informative

These messages are for information only and do not indicate errors or conformance problems.

 The Check Page command does not check links or page weight.

To checks links or page weight on a single page use the Check Page and Links command.

Blocked Links

<https://skm.kmi.open.ac.uk/> line 1

# Accessibility

This section shows accessibility issues, indicating problems for older users, people with disabilities or accessibility needs. Automated testing cannot detect all accessibility issues, so should be used alongside human testing.

## Level A

4 issues on 1 pages

 ARIA control has no label.

• Add an aria-label attribute
• Add an aria-labelledby attribute

[WCAG 2.1 A 4.1.2](https://www.w3.org/WAI/WCAG21/Understanding/name-role-value.html) [Section 508 (2017) A 4.1.2](https://www.w3.org/WAI/WCAG21/Understanding/name-role-value.html)

<https://skm.kmi.open.ac.uk/> line 508

 Elements with role=listbox must contain or own an element with role=option and must not contain elements with other roles.

[HTML5](https://html.spec.whatwg.org/multipage/)  [ARIA 1.2](https://www.w3.org/TR/wai-aria-1.2/)  [WCAG 2.1 A 1.3.1](https://www.w3.org/TR/UNDERSTANDING-WCAG20/content-structure-separation-programmatic.html) [Section 508 (2017) A 1.3.1](https://www.w3.org/TR/UNDERSTANDING-WCAG20/content-structure-separation-programmatic.html)

Owned roles: link button <https://skm.kmi.open.ac.uk/> line 508

 Headings should not be empty.

Add visible text to the heading, or alt text if the heading contains an image. Screen readers read out page headings, allowing users to quickly skip to a section, but some older screen readers do not ignore empty headings.

[ARIA 1.2 5.2.8](https://www.w3.org/TR/wai-aria-1.2/#heading)

<https://skm.kmi.open.ac.uk/> line 1826

 img elements must have an accessible name.

Add an alt attribute describing the image, which screen readers voice instead of the image. Spacer images and purely decorative images should use alt="" without any global ARIA attributes. Do not use alt text containing only spaces since that's voiced as an unlabeled image.
• NVDA 2023.3 Chrome 120 Windows 10 Reading: Image ignored.
• NVDA 2023.3 FF 115 Windows 10 Reading: Image ignored.
• NVDA 2023.3 Edge 120 Windows 10 Reading: Image ignored.
• JAWS 2023.2311.34 Chrome 120 Windows 10 Reading: Image ignored.
• JAWS 2023.2311.34 FF 115 Windows 10 Reading: Image ignored.
• JAWS 2023.2311.34 Edge 120 Windows 10 Reading: Image ignored.
• VoiceOver macOS 13.6 Safari 16.6 macOS 13.6.0 Reading: Image filename read out.
• VoiceOver iOS 16.6 Safari iOS 16.6 iOS 16.6.1 Touch: Image filename read out, along with OCR text from image.

[WCAG 2.1 A F65](https://www.w3.org/TR/WCAG20-TECHS/F65.html) [Section 508 (2017) A F65](https://www.w3.org/TR/WCAG20-TECHS/F65.html)

<https://skm.kmi.open.ac.uk/> line 631 1033 1068 1087 1105 ...

## Level AA

2 issues on 1 pages

 Do not use the meta viewport tag to disable zoom.

Setting user-scalable=no or maximum-scale to less than 2.0 prevents zooming small text to make it readable. Note that iOS 10+ ignores this setting.

[WCAG 2.1 AA 1.4.4](https://www.w3.org/TR/UNDERSTANDING-WCAG20/visual-audio-contrast-scale.html) [Section 508 (2017) AA 1.4.4](https://www.w3.org/TR/UNDERSTANDING-WCAG20/visual-audio-contrast-scale.html)

<https://skm.kmi.open.ac.uk/> line 6

 The CSS outline or border style on this element makes it difficult or impossible to see the link focus outline.

Do not remove the default outline style, and change any border styles to avoid obscuring the focus outline around focusable elements. See :focus-visiblefor more information.
• Chrome (obscures the focus indicator on links, buttons, dropdowns and range controls)
• Firefox (obscures the focus indicator on links)

[WCAG 2.1 AA F78](https://www.w3.org/TR/WCAG20-TECHS/F78.html) [Section 508 (2017) AA F78](https://www.w3.org/TR/WCAG20-TECHS/F78.html)

outline-style:none or outline-width:0 outline-style:none or outline-width:0 outline-style:none or outline-width:0 outline-style:none or outline-width:0 outline-style:none or outline-width:0 <https://skm.kmi.open.ac.uk/> line 575 593 633 1052 ...

## Level AAA

3 issues on 1 pages

 Avoid specifying a new window as the target of a link with target=\_blank .

Displaying new windows without warning can be very confusing to non-sighted and mobile users. Some screen readers and mobile devices give very little indication a new tab or window has opened. If you cannot avoid displaying a new window, insert an "opens in a new window" warning into the link text or add the warning to the link using a title attribute or aria-describedby attribute.

[WCAG 2.1 AAA F22](https://www.w3.org/TR/WCAG20-TECHS/F22.html)

<https://skm.kmi.open.ac.uk/> line 771 813 823 834 ...

 Ensure that text and background colors have a 7:1 contrast ratio.

• The contrast ratio should be 4.5 or more for 18 point text, or larger
• The contrast ratio should be 4.5 or more for 14 point bold text, or larger
• The contrast ratio should be 7.0 or more for all other text

[WCAG 2.1 AAA 1.4.6](https://www.w3.org/WAI/WCAG21/Understanding/contrast-enhanced.html)

The text color to background color contrast ratio after composition is: with color: rgb(13,110,253) background: rgb(255,255,255) font-size: 16.80pt font-weight: 300 with color: rgb(13,110,253) background: rgb(255,255,255) font-size: 16.80pt font-weight: 300 with color: rgb(0,57,84) background: rgb(255,177,54) font-size: 12pt font-weight: 400 with color: rgb(255,177,54) background: rgb(0,57,84) font-size: 16.80pt font-weight: 300 with color: rgb(255,177,54) background: rgb(0,57,84) font-size: 16.80pt font-weight: 300 <https://skm.kmi.open.ac.uk/> line 738 1385 1670 1813 ...

 Link uses general text like 'Click Here' which doesn't explain link purpose.

Screen reader users often tab from one link to the next, or use the 'Next Link' command. Moving between links labelled 'click here' sounds like 'Click here, tab, click here, tab, click here'. Change the link text, or add an aria-label , so the link makes sense when read without the surrounding text.

[WCAG 2.1 AAA F84](https://www.w3.org/TR/WCAG20-TECHS/F84.html)

Link text: Learn More <https://skm.kmi.open.ac.uk/> line 515

## Informative

These messages are for information only and do not indicate errors or conformance problems.

 WCAG Success Criteria 4.1.1 is always satisfied for HTML and XML pages.

Since WCAG 2 4.1.1 was written, the HTML Standard has added requirements specifying exactly how browsers handle incomplete markup, incorrectly nested elements, duplicate attributes, and duplicate IDs. This means the "except where the specifications allow" condition in 4.1.1 is satisfied.

[WCAG 2.1 4.1.1](https://www.w3.org/TR/UNDERSTANDING-WCAG20/ensure-compat-parses.html)

<https://skm.kmi.open.ac.uk/> line 1

# Compatibility

This section shows pages that exhibit browser-specific behavior, or trigger browser bugs.

# Search

This section shows search engine guideline violations, and pages that don't comply with search optimization best practices.

## Priority 1

1 issues on 1 pages

 This page has more than one h1 element, which violates Bing webmaster guidelines.

Leave the title of the main content as h1 and change other h1 elements to a lower heading level.

[Bing](https://www.bing.com/webmasters/help/webmasters-guidelines-30fba23a)

<https://skm.kmi.open.ac.uk/> line 628 746 869 1030 1147 ...

## Priority 2

1 issues on 1 pages

 This page has more than one title element. Only the first title is displayed in search results.

Best Practice

<https://skm.kmi.open.ac.uk/> line 24 34

## Priority 3

1 issues on 1 pages

 No meta description tag found. Use a description tag that accurately describes the contents of a web page.

A well-written meta description attracts more clicks in search results than an irrelevant or missing description.

[Yahoo](https://help.yahoo.com/kb/search/search-content-quality-guidelines-sln2245.html)  [Google](https://support.google.com/webmasters/bin/answer.py?answer=35624#1)  [Bing](https://www.bing.com/webmasters/help/webmasters-guidelines-30fba23a)

<https://skm.kmi.open.ac.uk/> line 1

# Standards

This section shows pages that do not comply with W3C standards.

## Priority 1

12 issues on 1 pages

 An img element must have an alt attribute, except under certain conditions. For details, consult guidance on providing text alternatives for images.

[HTML5](https://html.spec.whatwg.org/multipage/images.html#alt)

<https://skm.kmi.open.ac.uk/> line 631 1033 1068 1087 1105 ...

 Bad value for attribute for .

[HTML5](https://html.spec.whatwg.org/multipage/)

An ID must not be the empty string. for= <https://skm.kmi.open.ac.uk/> line 3690

 Bad value for attribute href .

[HTML5](https://html.spec.whatwg.org/multipage/)

Unexpected character |Open+Sans:300 in query string href=https://fonts.googleapis.com/css?family=Arimo:400, <https://skm.kmi.open.ac.uk/> line 70

 Bad value for attribute src .

[HTML5](https://html.spec.whatwg.org/multipage/)

A URL cannot be empty. src= src= src= src= src= <https://skm.kmi.open.ac.uk/> line 821 1601 1695 1745 1793 ...

 Bad value for attribute width .

[HTML5](https://html.spec.whatwg.org/multipage/)

Expected a digit but saw % instead. width=100% width=100% width=100% width=100% width=100% <https://skm.kmi.open.ac.uk/> line 821 867 915 965 1013 ...

 Element h1 not allowed as child element in this context.

[HTML5](https://html.spec.whatwg.org/multipage/)

<https://skm.kmi.open.ac.uk/> line 345

 Element title not allowed as child element in this context.

[HTML5](https://html.spec.whatwg.org/multipage/)

<https://skm.kmi.open.ac.uk/> line 91

 Elements with role=listbox must contain or own an element with role=option and must not contain elements with other roles.

[HTML5](https://html.spec.whatwg.org/multipage/)  [ARIA 1.2](https://www.w3.org/TR/wai-aria-1.2/)  [WCAG 2.1 A 1.3.1](https://www.w3.org/TR/UNDERSTANDING-WCAG20/content-structure-separation-programmatic.html) [Section 508 (2017) A 1.3.1](https://www.w3.org/TR/UNDERSTANDING-WCAG20/content-structure-separation-programmatic.html)

Owned roles: link button <https://skm.kmi.open.ac.uk/> line 508

 No p element in scope but a p end tag seen.

[HTML5](https://html.spec.whatwg.org/multipage/)

<https://skm.kmi.open.ac.uk/> line 3722

 Reference to non-existent ID.

[HTML5](https://html.spec.whatwg.org/multipage/)

id= <https://skm.kmi.open.ac.uk/> line 3690

 Text not allowed.

[HTML5](https://html.spec.whatwg.org/multipage/)

<https://skm.kmi.open.ac.uk/> line 94 348

 The value of the for attribute of the label element must be the ID of a non-hidden form control.

[HTML5](https://html.spec.whatwg.org/multipage/)

<https://skm.kmi.open.ac.uk/> line 1860

## Priority 2

5 issues on 1 pages

 aria-required is unnecessary for elements with a required attribute.

[HTML5](https://html.spec.whatwg.org/multipage/)

<https://skm.kmi.open.ac.uk/> line 1849 1853 1857

 Consider using the h1 element as a top-level heading only.

 h1 elements are treated as top-level headings by many screen readers and other tools.

[HTML5](https://html.spec.whatwg.org/multipage/)

<https://skm.kmi.open.ac.uk/> line 473 552

 Section lacks heading.

Consider using h2 - h6 elements to add identifying headings to all sections, or else use a div element instead for any cases where no heading is needed.

[HTML5](https://html.spec.whatwg.org/multipage/)

<https://skm.kmi.open.ac.uk/> line 501 565 618

 The contentinfo role is unnecessary for element footer .

[HTML5](https://html.spec.whatwg.org/multipage/)

<https://skm.kmi.open.ac.uk/> line 1808

 The navigation role is unnecessary for element nav .

[HTML5](https://html.spec.whatwg.org/multipage/)

<https://skm.kmi.open.ac.uk/> line 426

# Usability

This section shows general usability issues, indicating navigation problems for all users.

## Priority 2

1 issues on 1 pages

 Omitting img width or height attributes makes the page layout jump about as images load.

This makes the page very hard to read or click while it's loading. Fix by adding width and height attributes to the img tag matching the image dimensions. In responsive layouts, specifying width and height prevents layout jumping because the browser can pre-calculate the final image size when CSS like this is used: img { max-width: 100%; height: auto }

[Usability.gov 14:3](https://www.powermapper.com/products/sortsite/rules/usegov14.3/) [W3C](https://developer.mozilla.org/en-US/docs/Web/Media/images/aspect_ratio_mapping)

<https://skm.kmi.open.ac.uk/> line 631 1033 1068 1087 1105 ...

## Priority 3

2 issues on 1 pages

 Use at least a 12-point font on all web pages.

• <p style="font-size: 11pt;" >
• <p style="font-size: 15px;" >
• <p style="font-size: small;" >
• <font size="2" >
• <font size="-1" >

[Usability.gov 11:8](https://www.powermapper.com/products/sortsite/rules/usegov11.8/)

<https://skm.kmi.open.ac.uk/> line 77

 Use link text between 3 and 100 characters so it's long enough to be understood, but avoids line wrapping.

A single word text link may not give enough information about the link's destination. A link that is a full sentence is difficult to read quickly, particularly if it wraps to another line.

[Usability.gov 10:11](https://www.powermapper.com/products/sortsite/rules/usegov10.11/)

<https://skm.kmi.open.ac.uk/> line 1250 1265 1500 1655 ...