Essential Features of an academic website

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1. Security features:

   (a) **Setting up SSL Certificate** (enables websites to use HTTPS, which is more secure than HTTP. An SSL certificate is a data file hosted in a website's origin server. SSL certificates make SSL/TLS encryption possible, and they contain the website's public key and the website's identity, along with related information.)

   (b) **Data backup** to prevent website data breaches and loss.

   (c) **Password control** for secure user access and password management.

   (d) **Content Delivery Networks (CDNs)** use of which decrease website load times by bringing bandwidth-intensive content closer to end users. A CDN also decreases a website's vulnerability to isolated network and hardware failures.

   (e)

2. Design features:

   (a) **Responsive website pages:** Plan a responsive layout in such a way that it must be able to adopt whichever device the potetial users are using.

   (b) **Search engine optimization (SEO):** the art and science of getting pages to rank higher in search engines such as Google.

   (c) **Page quality:** How a page is structured, how the text reads and how it speaks to potential users.

   (d) **Ensuring easy navigation:** Limit the top level navigation menu to no more than seven clearly labeled tabs with related pages organised under them. A

clear way to get back to the home page no matter where the readers land such as a clickable logo on the top.

3. Technical features:

   (a) **Personalise domain name:** To have a registered domain name.

   (b) **Dynamic XML sitemap:**

   (c) **Reliable web hosting service:**

4. **Technical Requirements:**

   (a) Setting up SSL certificate; must have data backup; secure user access and password management; responsive website pages; search engine optimization.

   (b) A strong layout that showcase the offered academic programs and upcoming events by featuring a video at the top of its homepage.

   (c) Website must be adaptable to all device screen sizes.

   (d) Website must be able to send and retrieve data to and from the database.

5. **Functional Requirements:**

   (a) Website must require users to login to access certain features. Both faculties and students must be able to login using the provided credentials.

   (b) Faculties must be able to manage their courses and must be able to give feedback on student grades.

   (c) Students should be able to access institute information, register courses, view their course grades.

   (d) Admin must be authorised to access the web portal to the websites database and backend.

   (e) Admin must be able to manage user account information and must be able to update website information.

   (f) Webpage must have a utility bar and a main navigation bar that remain consistent on different pages of the website, making it easy for prospective students to access key pages on the site.

   (g) Essesntial tabs: Adminstration, Academics, IQAC, NAAC, Research, Events & Notice, Student's Corner, Contact Us.

   (h) Subtabs: Departments, Faculty showcase, Student's feedback, Alumni Association