

# **“Website Development for IPS, UoA”**

## **A MAJOR PROJECT REPORT**

*Submitted by*

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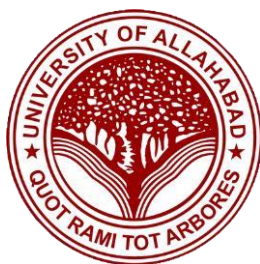
*In partial fulfillment for the award of the degree*

*Of*

**MASTER OF COMPUTER APPLICATIONS**

*from*

**CENTRE OF COMPUTER EDUCATION**



**INSTITUTE OF PROFESSIONAL STUDIES  
UNIVERSITY OF ALLAHABAD**

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## **DECLARATION**

## **ACKNOWLEDGEMENT**

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## **INTRODUCTION**

The purpose of this report is to provide a comprehensive overview of the university website project. This report will detail the scope, objectives, methodology, and outcomes of the project. The website is intended to serve as a platform to disseminate information about the university to the public, including students, faculty, staff, and other stakeholders. The project aimed to create a user-friendly, informative, and visually appealing website that reflects the university's brand and values.

This report will begin by outlining the project's background and context, including the rationale for the website's development. The report will then discuss the project's scope and objectives, which include the website's features and functionality, as well as its target audience. The methodology used to develop the website will then be described, including the tools and technologies utilized, the project management approach, and the timeline for the project's completion.

Following the methodology, the report will detail the outcomes of the project, including the website's key features and functionality, design elements, and overall user experience. The report will also discuss the website's impact on the university's stakeholders and its potential for future development and growth.

Finally, the report will conclude with a summary of the project's achievements and limitations, as well as recommendations for future improvements and enhancements to the website. The university website project is a critical initiative that will help the institution achieve its strategic goals and objectives, and this report aims to provide a detailed account of its development and implementation.

## **PROBLEM DEFINITION**

The aim of this project is to design and develop a user-friendly website for a university that will provide comprehensive information to current and prospective students, faculty members, staff, and the public. The current university website lacks intuitive navigation, is cluttered with outdated information, and has a poor user experience.

The project aims to address the following problems with the current website:

**Poor User Experience:** The current website does not provide a user-friendly experience for visitors. The website design is outdated, and the navigation is not intuitive, which makes it difficult for visitors to find relevant information.

**Outdated Information:** The website contains outdated information, which is confusing for visitors. It is important to keep the website content up-to-date to provide accurate and relevant information to the visitors.

**Inefficient Management:** The current website is difficult to manage and update. There is a lack of a centralized system for managing the website content, which results in inefficient updates and maintenance.

**Inadequate Communication:** The current website does not provide effective communication channels between the university and its stakeholders. The website should have a platform for students, faculty members, and staff to communicate with each other.

The proposed solution is to design and develop a new website that is modern, user-friendly, and easy to navigate. The website will have a centralized content management system that will allow for easy updates and maintenance. The website will also provide effective communication channels between the university and its stakeholders. The new website will be designed to improve the overall user experience and provide accurate and up-to-date information to visitors.

## OBJECTIVES

### 1. Homepage Module:

- To design a visually appealing and user-friendly homepage that welcomes visitors and provides quick access to important information.
- To showcase the university's unique selling points, such as its mission, values, and achievements, in a compelling way.
- To include clear calls-to-action that encourage users to explore the website further, such as links to degree programs, events, and social media.

### 2. Degree Program Module:

- To create a comprehensive directory of the university's degree programs, including descriptions, requirements, and faculty information.
- To highlight the benefits of each program, such as career prospects, research opportunities, and hands-on learning experiences.
- To ensure that the module is organized in a logical and intuitive way, so that users can easily find the information they need.

### 3. Faculty and Staff Module:

- To provide a searchable directory of the university's faculty and staff, including contact information and areas of expertise.
- To showcase the achievements and contributions of faculty and staff, such as research publications, awards, and community service.
- To ensure that the module is up-to-date and accurate, so that users can easily connect with the right people.

### 4. Events Module:

- To create a calendar of upcoming university events, including academic, cultural, and social activities.
- To allow users to filter events by type, date, and location, so that they can find events that are relevant to their interests.
- To provide detailed information about each event, such as the agenda, speakers, and registration process.

### 5. News Module:

- To publish news and stories about the university's achievements, research breakthroughs, and community impact.
- To engage users with multimedia content, such as photos, videos, and infographics.



- To ensure that the module is updated frequently, so that users can stay informed about the latest developments at the university.

Overall, the objective of a university website project report is to design and develop a website that meets the needs of its users, promotes the university's brand and values, and enhances its reputation and impact.

## **MOTIVATION**

The internet has revolutionized the way information is accessed and shared, and universities have not been left behind. Today, students, faculty, staff, and other stakeholders in higher education rely heavily on university websites to access crucial information such as course schedules, admission requirements, academic policies, and research opportunities. A well-designed university website not only makes it easy for users to find the information they need but also creates a positive image for the institution.

Despite the importance of university websites, many of them are outdated, cluttered, and difficult to navigate. This often leads to frustration among users, who may end up missing critical information or giving up altogether. To address this problem, many universities are investing in website redesign projects that aim to create modern, user-friendly, and accessible websites that meet the needs of their users.

The motivation for this project report is to document the process of designing and implementing a university website redesign project. The report will provide insights into the various stages of the project, including the initial planning phase, requirements gathering, design, development, testing, and launch. It will also highlight the key challenges and successes of the project and provide recommendations for future website redesign projects.

By documenting the university website redesign project, this report aims to provide a valuable resource for other universities that are considering a similar project. It will offer guidance on best practices, lessons learned, and potential pitfalls to avoid, helping other institutions to achieve their website redesign goals more efficiently and effectively.

Overall, the motivation for this project report is to contribute to the ongoing efforts to improve the user experience of university websites, ultimately enhancing the reputation and success of higher education institutions.

## REQUIREMENTS

The requirements for a university website project report can vary depending on the specific modules involved. Here are some potential requirements for different modules:

### 1. User Interface Module:

- The website should have a modern and visually appealing design.
- The website should be easy to navigate and use, with clear labels and intuitive menus.
- The website should be mobile-responsive, meaning it should display well on different screen sizes and devices.
- The website should have clear calls-to-action, such as buttons or links, to encourage users to take desired actions.

### 2. Content Management Module:

- The website should have a content management system (CMS) that allows for easy creation, editing, and deletion of content.
- The CMS should have user roles and permissions, so that different users can have different levels of access to the website.
- The CMS should allow for the categorization and tagging of content, to make it easy for users to find what they are looking for.

### 3. Student Module:

- The website should have a student portal where students can log in and access their personal information, such as grades, schedules, and financial aid information.
- The student portal should allow students to communicate with their professors and advisors.
- The website should have a directory of student organizations and clubs, as well as information on upcoming events and activities.

### 4. Faculty Module:

- The website should have a faculty portal where faculty members can log in and access their course schedules, rosters, and other important information.

- The faculty portal should allow faculty members to communicate with their students and colleagues.
- The website should have a directory of faculty members and their areas of expertise.

#### **5. Admissions Module:**

- The website should have information on the admissions process, including application deadlines and requirements.
- The website should allow prospective students to apply online.
- The website should have a virtual campus tour, so that prospective students can get a sense of what it's like to attend the university.

#### **6. Alumni Module:**

- The website should have a section dedicated to alumni, with information on alumni events, fundraising campaigns, and volunteer opportunities.
- The website should allow alumni to update their contact information and connect with other alumni.
- The website should have a directory of notable alumni and their achievements.

These are just a few examples of the requirements that might be included in a university website project report. The specific requirements will depend on the needs of the university and its stakeholders.

### **Hardware Requirements:**

1. Web Server: A web server is required to host the website.
2. Database Server: A database server is required to store data related to students, faculty, courses, and other information. MySQL, Microsoft SQL Server can be used as a database server.
3. Storage: Adequate storage is required to store all the website data, including web pages, images, videos, and other multimedia content.
4. Network: A stable and fast internet connection is required to ensure that the website can be accessed from anywhere at any time.

### **Software Requirements:**

1. Operating System: The server should run on a stable operating system such as Windows Server or Linux.
2. Programming Language: The website can be built using HTML, CSS, JavaScript, ejs, Vue etc.
3. Content Management System: A content management system such as WordPress or Google ads, Ubersuggest can be used to manage website content and simplify the content creation process.
4. Database Management System: A database management system such as MySQL or MongoDB can be used to store and manage website data.
5. Web Analytics: A web analytics tool such as Google Analytics can be used to track website traffic and user behaviour.
6. Search Engine Optimization: A search engine optimization tool such as Keyword overview SEO or All-in-One SEO can be used to optimize website content for search engines.
7. Security: Security software such as firewalls and antivirus software should be installed to protect the website from security threats. SSL/TLS certificate should be installed for secure communication.

# DESIGN

## Architectural Design

The architecture of a university website project report can be divided into two parts:

Front-end Architecture

Back-end Architecture

Front-end Architecture:

The front-end architecture of a university website project report includes the following components:

1. User Interface (UI) Design
2. HTML/CSS
3. JavaScript
4. Web Frameworks (if any)

The user interface design component is responsible for creating an aesthetically pleasing, user-friendly design for the website. The HTML/CSS component is responsible for structuring the web pages and styling them. JavaScript is used for adding interactivity and dynamic features to the website. Web frameworks like React, Angular, Vue, etc., can be used to develop the front-end of the website.

### Back-end Architecture:

The back-end architecture of a university website project report includes the following components:

1. Server-side Scripting Languages .
2. Database Management Systems (MySQL, Oracle, MongoDB, etc.)

The purpose of this project is to design and develop a new website for a university. The current website is outdated and difficult to navigate, resulting in poor user experience and limited functionality. The new website aims to address these issues and provide a modern, user-friendly, and informative platform for students, faculty, and staff. The website design process started with gathering requirements from key stakeholders, including students, faculty, staff, and the university administration. Based on these requirements, a design brief was developed, outlining the key features and functionalities of the new website.

The next step was to create wireframes and mockups of the website. The wireframes were used to develop the website's information architecture, which included the site map,

navigation structure, and page hierarchy. The mockups were then created to visualize the website's look and feel, including the color scheme, typography, and visual elements.

#### Development Process:

Once the website's design was finalized, the development process began. The website was developed using HTML, CSS, and JavaScript, with a focus on creating a responsive design that would be compatible with different screen sizes and devices.

The website's content management system (CMS) was developed using WordPress, allowing for easy content updates and management. The CMS was customized to meet the university's specific needs, including features such as event management, course registration, and student profiles.

#### Testing and Deployment:

The website was extensively tested during the development process to ensure that it was free of bugs and errors. User testing was also conducted to ensure that the website was intuitive and easy to use.

Once the testing was complete, the website was deployed on a secure web server, ensuring that it was accessible to users worldwide. The website was also optimized for search engines, ensuring that it would rank well in search engine results pages (SERPs).

The new university website is a significant improvement over the old website, providing a modern and user-friendly platform for students, faculty, and staff. The website's development process followed a rigorous design and development process, ensuring that the website met the university's requirements and provided a high-quality user experience.

# TESTING

The purpose of this testing report is to evaluate the University website project to ensure its functionality and usability. The testing will be conducted in several stages to identify any issues, errors, or bugs that could impact the website's performance.

Test Objectives: The objectives of the testing are as follows:

1. Evaluate the website's functionality
2. Check the website's compatibility with different browsers
3. Verify the website's responsiveness across various devices
4. Test the website's security features
5. Ensure that the website is user-friendly

Testing Stages:

1. **Functional Testing:** Functional testing involves testing the website's features to ensure that they are working correctly. The following tests will be performed:
  - Navigation: Check if all navigation links work correctly and that all pages are accessible.
  - Search Functionality: Verify if the search function provides relevant search results.
  - Forms: Check if all forms are working correctly and that they submit data correctly.
2. **Compatibility Testing:** Compatibility testing is performed to ensure that the website is compatible with different browsers. The following tests will be performed:
  - Browser Compatibility: Test the website on different browsers such as Chrome, Firefox, Safari, and Internet Explorer to ensure that it works correctly.
  - Operating System Compatibility: Test the website on different operating systems such as Windows, macOS, and Linux.
3. **Responsive Testing:** Responsive testing is performed to ensure that the website is responsive across various devices. The following tests will be performed:
  - Mobile Devices: Test the website on different mobile devices to ensure that it is responsive.
  - Tablets: Test the website on different tablets to ensure that it is responsive.
  - Desktops: Test the website on different desktops to ensure that it is responsive.



4. **Security Testing:** Security testing is performed to ensure that the website is secure. The following tests will be performed:

- **Vulnerability Testing:** Perform vulnerability testing to identify any security vulnerabilities.
- **Authentication and Authorization:** Test the website's authentication and authorization features to ensure that they are working correctly.
- **Data Protection:** Test the website's data protection features to ensure that they are working correctly.

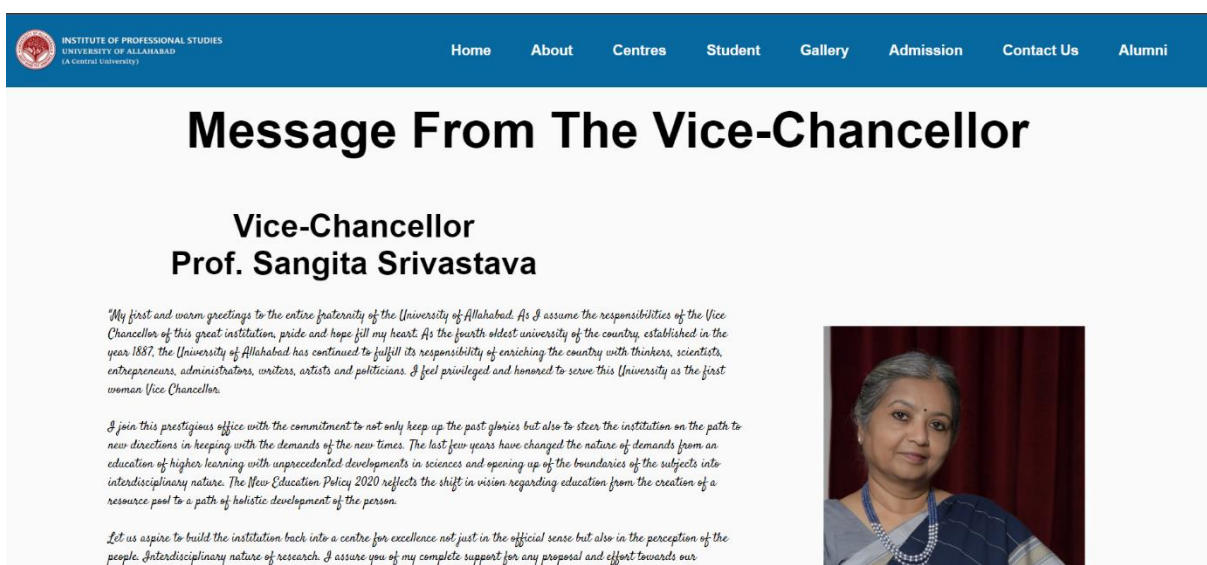
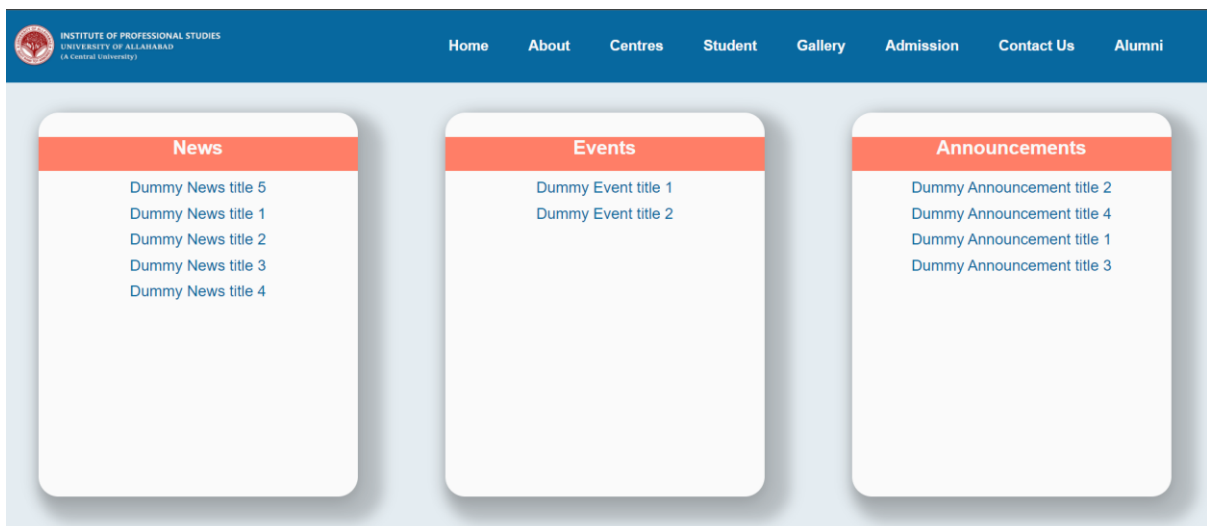
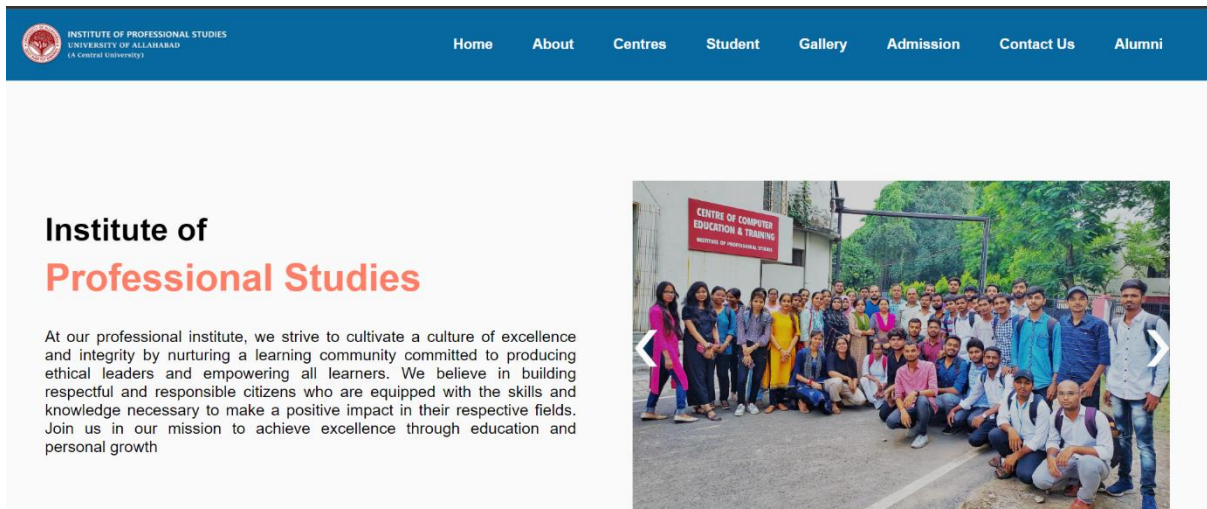
5. **Usability Testing:** Usability testing is performed to ensure that the website is user-friendly. The following tests will be performed:

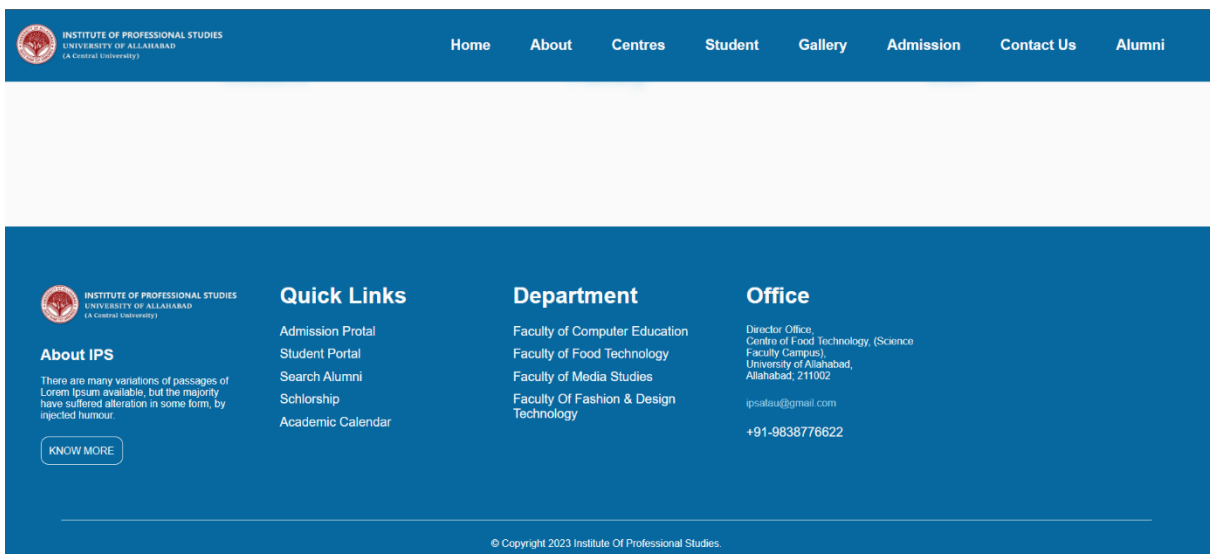
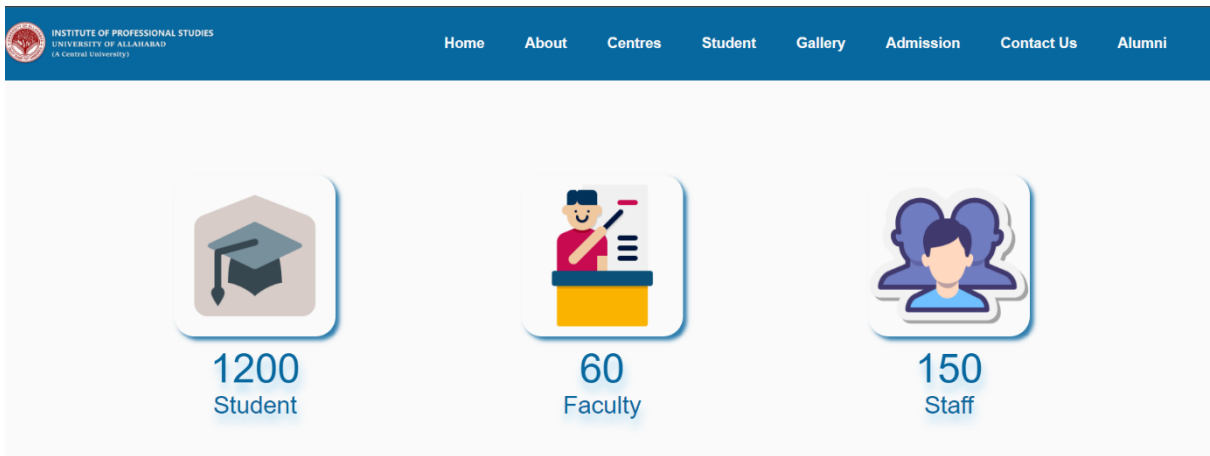
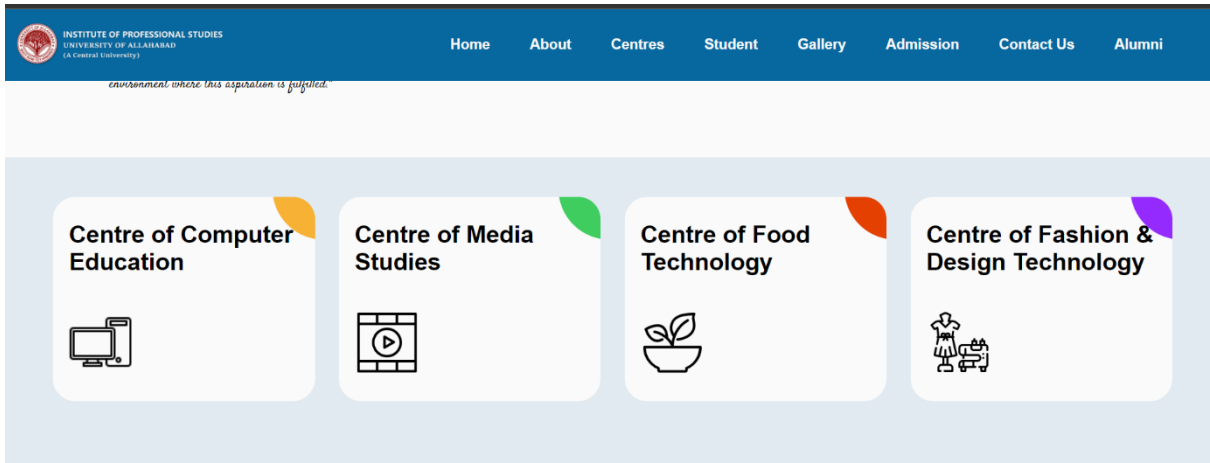
- **Navigation Testing:** Test the website's navigation to ensure that it is easy to use.
- **Content Testing:** Test the website's content to ensure that it is relevant and informative.
- **Accessibility Testing:** Test the website's accessibility features to ensure that they are working correctly.


The testing report has evaluated the University website project's functionality, compatibility, responsiveness, security, and usability. Any issues, errors, or bugs that have been identified have been addressed, and the website is now ready for launch.

## DIAGRAM

## SCREENSHOTS








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## About

### Institute Of Professional Studies



Institute of Professional Studies was set up in May 2000 by the Executive Council of the University of Allahabad under Section 44 of the Act. Institute of Professional Studies (IPS) is a UNIVERSITY INSTITUTE under Statute 30 (I) (ii), read with section 3(Y) & section 27 (L) of the University of Allahabad Act 2005. It was instituted in the year 2000-2001 by the Executive Council of the University, on the recommendation of the Academic Council, under Section 44 of the U.P. State Universities Act 1973. It is an institute established and maintained by the University. The basic objective is to develop linkages between the 'world of learning' and the 'world of work' through professional courses.

The Institute of Professional Studies (IPS) has been created to provide short, medium and long-term professional courses on a regular and self-financing basis under the aegis of Centres dedicated to specific



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## Centre of Computer Education


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### About

The Centre of Computer Education & Training was established under Institute of Professional Studies, University of Allahabad in December 2000. Initially it offered to University students short-term courses on Computer Basics, Programming, Hardware & Networking, Web Design and Computer-Aided Financial Management and training for DOEACC 'O' Level examination.

In 2006 the Centre was granted full accreditation by DOEACC Society (An autonomous body of Dept. of Information Technology, Ministry of Communication & Information Technology, Govt. of India, New Delhi) for a period of 6 years to conduct DOEACC 'O' Level computer courses. Later in the year 2007 the centre also initiated Master of Computer Applications (MCA) and Bachelor of Computer Applications (BCA).

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## Centre of Fashion & Design Technology

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### About

Today fashion is seen everywhere. With rising income levels, growing 'Look Good, Feel Good' attitude and development in the retail sector the fashion world indeed holds a good prospect. It has almost become a fashion in the business to be in the business of fashion.

Fashion can be simple and yet so elegant. It was only in India where unstitched fabrics created fashion for men and women that has been termed as the most innovative invention in the world of fashion. The Indians mastered the art of draping fabrics around the body and taught the world how a few yards of fabric like a sari or a dhoti or a shawl can make a wonderful fashion statement.

has been worn by Indian women for as long as 5000 years - and has been the most popular style in the history of women's fashion. Fashion creators of our country our master spinners, weavers, knitters and dyers, were known the world over for their exquisite craftsmanship and skill. The blend of Indian and Western cultures have made sarees and salwar kameez an international fashion statement. Ritu Kumar , Ritu Beri, Hemant Trivedi have made their way in the fashion scenario of PARIS - The fashion capital of



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# Centre of Food Technology

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## About

Food and Nutrition Sciences are the sciences of the 21st century. The need is to have a multi-disciplinary focus on food. This was achieved by the creation of the Centre of Food Technology under the Institute of Professional Studies. Centre of Food Technology (CFT) has taken a holistic view of manpower planning in the food industry. The vision encompasses food science, food production, food processing, food technology, food safety, food management, entrepreneurship development, food processing and rural development; agriculture and industry linkage through food processing, quality assurance for safe food, research and development on functional foods.

Sound technical training in food industries and research institutes is also provided to the students so as to equip them with meticulous practical knowledge and build a competitive professional interface. We are proud to maintain a good placement record and strong collaboration with other premier food industries, research institutes, Ith institutes, and hospitals of the country. It is the only centre of the university to offer the programs- B. Voc. (Bachelor of Vocation) in Food Processing and Technology, M.Sc. Food technology,



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# Centre of Media Studies


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## About

In 21st Century the media has a wide spectrum to cover e.g.newspaper , television, radio, mobile, and internet and so on and so forth. The Media Industry is going global, becoming digital and converging. In our country Media Industry is growing at the rate of 20 percent per annum. Entertainment and media, together, form the country's sixth biggest industry, with 3.5 million people working in it.

Within the next 4-5 years, the industry is expected to cross eighty thousand crores annually. Media organization is now looking to optimize its reach across platforms such as newspaper, T.V., IPTV, Radio, Internet and Mobile. As converging media (Cross Media) content involves more than one platform, so it has a high demand of multi-skilled media persons.

The Centre prepares students for employment in the media industry. The courses has been designed for the real world of contemporary media. Students will work with industry-standard equipment gaining skills in media production (print, broadcast and online), research, communication, reporting and media handling. We believe that a combination of writing and production skills either in print, television or radio;



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# Syllabus

Centre	Course	Syllabus
Centre of Food Technology	M. Sc. Food Technology	<a href="#">Download</a>
	M. Sc. Nutritional Sciences	<a href="#">Download</a>
	B.Voc in Food Technology (5-Year integrated programme)	<a href="#">Download</a>
Centre of Computer Education	Master of Computer Applications (MCA)	<a href="#">Download</a>
	Bachelor of Computer Applications (BCA)	<a href="#">Download</a>
	Post Graduate Diploma in Computer Applications(PGDCA)	<a href="#">Download</a>
	Five Year Integrated BCA+MCA (Data Science)	<a href="#">Download</a>
	B. A. in Media Studies	<a href="#">Download</a>





## Libraries at the Centres



The mission of the Library is to provide information services and access to full text both in digital and printed resources to support the scholarly and information needs of all students, faculty members and staff and to facilitate creation of new knowledge.



The individual Centers of IPS have their own library. Each library exclusively developed an excellent collection of documents in area of Food Technology, Sciences, Media Studies, Computer Science and Fashion Design

localhost:3000/home/library#



## Contact Us



### Director's Office

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**Phone :** 0532-2460289, 09838776622  
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## **IMPLEMENTATION**



## MILESTONE

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# MEETING

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