



INDIRA GANDHI DELHI TECHNICAL UNIVERSITY

UNIVERSITY RESEARCH MANAGEMENT SYSTEM

PRESENTED TO
Ms. Manu Shree

PRESENTED BY
Sanjana Goel (05704092023)
Lovely Kumari (03604092023)

AGENDA

- 1 Problem definition
- 2 Aim and objective
- 3 Tools and platform
- 4 Modules description
- 5 Implementation
- 6 Future scope
- 7 Conclusion

PROBLEM DEFINITION

- This platform is designed to address the challenges faced by users in managing university ongoing research projects, record of winning publications, awardees.
- Currently, users navigate different sites for searching information about research papers, mentors, funds allocated. This website aims to streamline these processes, providing a centralized hub for efficient research management.



AIM AND OBJECTIVE

This university research management system is tailored to efficiently handle various aspects of academic research.

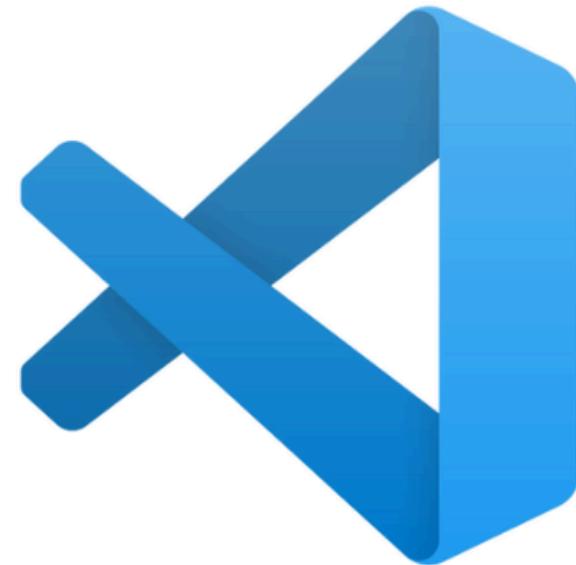


- User Authentication allows users to access specific modules based on their roles.
- Updates on research ceremonies, events.
- Ongoing Research Projects in different departments.
- User can edit Research project details.
- dashboard showing university performance and achievements in research

TOOLS AND PLATFORM

VS Code

Visual Studio Code is a lightweight but powerful source code editor which runs on your desktop and is available for Windows, macOS and Linux



MySQL

MySQL is a relational database management system based on the Structured Query Language, which is the popular language for accessing and managing the records in the database.



HTML

HTML is the standard markup language for creating web pages. It provides a structure for content on the web, using a system of tags.

CSS

Cascading Style Sheets (CSS) provides the separation of content and presentation in HTML documents.

Javascript

JavaScript is a scripting language that enables you to create dynamically updating interactive webpages . It also allows event handling .



SQL

Structured Query Language (SQL) allows to create database storing details of awardees, projects etc. It allows retrieve, update, delete records. SQL queries are used to verify user credentials against the login table.



Node.js

Node.js allows you to run JavaScript on the server. It handles HTTP requests from the client, manages database connections to fetch and update profile data. It facilitates communication between the front-end and back-end.



MODULES DESCRIPTION

User Login:

Users authenticate with their research ID, username, and password to access their project details

Research work

Users can view and filter information about ongoing research projects.

Reports

Dashboard provides reports of university achievements in research through charts and graph.

Awardees

Information on awarded projects is displayed. User can filter records on basis of department , award category

Research project profile

After validation, project mentor can update and maintain their project-related details in their research profile.

Events and notification

It provides updates of research ceremonies , events of university to users

HOME PAGE



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Research is a process of discovery and continuous learning

It feels great to be the wind beneath the wings of one of the top ranking Emerging Engineering Institutes of Technology in India. The devouring stride of IGDTUW, since its inception in 1998 as IGIT, has been exemplary, culminating in transforming itself into an icon for women empowerment. "To accomplish great things, we must not only act, but also dream; not only plan, but also believe" The faculty members and students of IGDTUW have a passionate commitment to maintain high standards of excellence in research and academics, which is reflected by the large number of publications in international journals and conferences. The faculty members have also actively pursued research in their respective fields of interest by undertaking R&D projects funded by DST, MHRD, Nokia, Intel, Microsoft, MEITY, MCIT etc. IGDTUW's research is to lay the foundations for a unique education culture and new ways of learning, an innovation culture that cultivates and promotes entrepreneurship, spin-outs, and corporate innovation, and on the basis of academic freedom and independence deliver and develop scientific advice and decision-support systems for the benefit of national and international authorities, private organizations and enterprises.



Useful Links

NIRF data
NAAC
Anvanshan Foundation
ARIIA Data

Quick links

ERP Portal
Life@IGDTUW
IGDTUW Privacy Policy

Contacts

Indira Gandhi Delhi Technical University For Women
Madrasa Road Opposite St. James Church
Kashmere Gate Delhi-110006
Telephone: 011- 23900261, 23900264

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RESEARCH WORK



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Sponsored Research Projects



Department: **Status:**

Name of the Project	Name of the Principal Investigator/Co-Investigator(If Applicable)	Name of the Funding agency	Year of Project Sanctioned	Funds Sanctioned (INR in lakhs)
Capacity Building in Information Security Education Awareness Project	Prof. R K Singh	MciTY	2015	65

AWARDEES



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Research Awardees



Department: Information Technology **Category:** premier research awards **Year:** 2021

Author Name	Paper Title	Journal with Publication Details
Bhawna Narwal , Amar K. Mohapatra	SAMAKA: secure and anonymous mutual authentication and key agreement scheme for wireless body area networks	Arabian Journal for Science and Engineering 46, 9197–9219

For more details please refer Research Award Booklet: [Research Award Booklet](#)

Contact us



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Contact Information

Address: Madrasa Road Opposite St. James Church Kashmere Gate Delhi-110006
Phone: 011- 23900261, 23900264
Email: helpdesk@igdtuw.ac.in

Feedback Form

Name:

Email:

Message:

Dashboard

Top 3 departments in Research

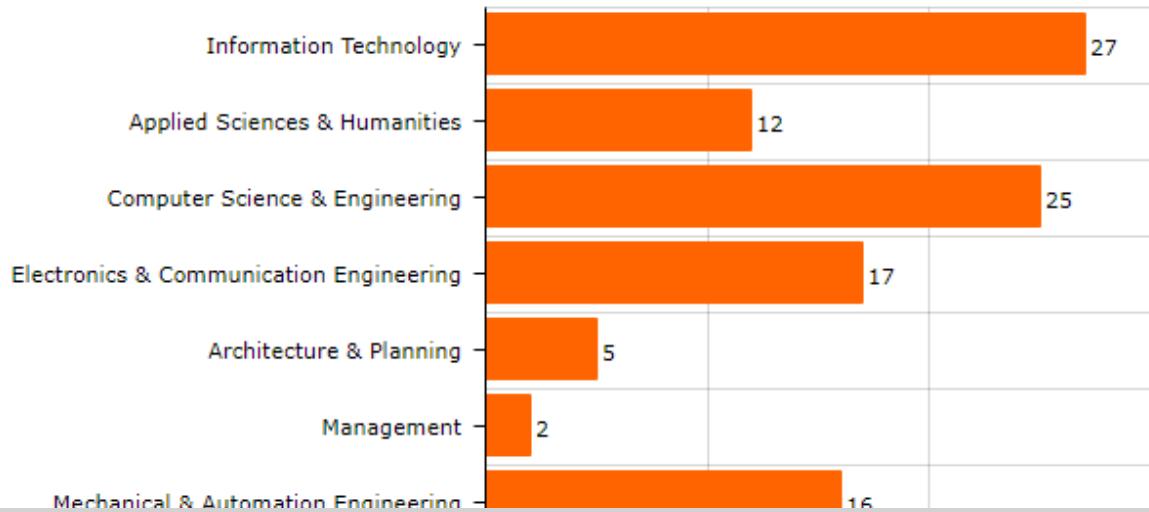
Information technology

Computer Science & Engineering

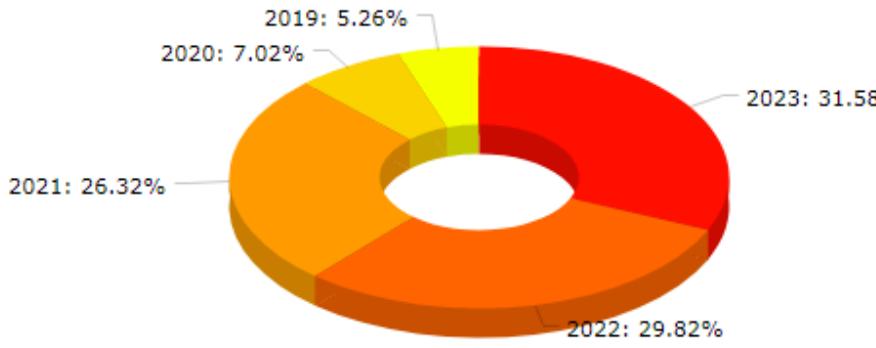
Mechanical & Automation Engineering

Research projects in various departments

departments



FUND ALLOCATED (in thousands) TO PROJECTS



YEARLY RESEARCH RECORDS :

YEAR	Total projects
2015	10
2016	7
2017	10
2018	11
2019	11
2020	11
2021	14



PATENTS GRANTED :

Inventor's Name	Title of Invention
Ritu Rani, Rashmi Gandhi, Amita Dev, Arun Sharma	Tomcrop: A Deep Learning Architecture for Tomato Leaf Disease Detection
Pooja Pandey, Nidhi Goel, Monika Mathur, Inderdeep Kaur, Rashmi Gupta, Amita Dev	Single Foggy Image Restoration Method and System Based on Principal Component Analysis

User Login



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Home Login Updates Research Work Awardees Reports Contact

Username:

Project ID:

Password:

Login

Invalid credentials

RESEARCH PROFILE



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Logout

edge computing

Mentor Name: abc

Department Name: IT

Students: Alice, Bob, Charlie

Project description: computing using Ai

Project report:

No file chosen

DATABASE TABLES

RESEARCH

	R_id	R_Name	Investigator	Fund_agency	Year	Fund	Status	DNo
<input type="checkbox"/>	R01	Capacity Building in Information Security Education...	Prof. R K Singh	McTY	2015	65	ongoing	1
<input type="checkbox"/>	R02	Development of Framework for abnormality identific...	Prof. Nidhi Goel	DST	2022	31.26	ongoing	4

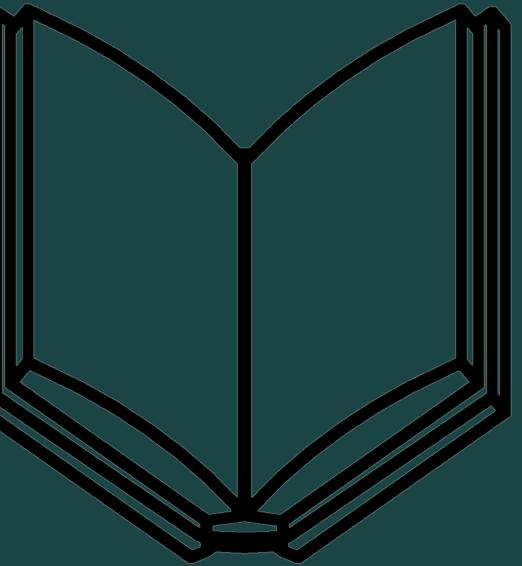
LOGIN

	username	password	projectid
<input type="checkbox"/>	admin	12345	R01
<input type="checkbox"/>	hello	abcde	R02

AWARDEES

	A_Name	Title	Pub_details	DNo	category	year
<input type="checkbox"/>	Edit Copy Delete Ritu Chaudhari, Chhaya R. Kant, Alka Garg	Bismuth tri-iodide-polystyrene composite for X-ray...	Radiation Physics & Chemistry, 186, 109538	2	premier	2021
<input type="checkbox"/>	Edit Copy Delete Garima Jaiswal,Arun Sharma,Sumit Kumar Yadav	DFD-SS: Document Forgery Detection using Spectral ...	Journal of Visual Communication and Image Represen...	1	commendable	2022
<input type="checkbox"/>	Edit Copy Delete Aishwarya Singh, Bhavani Prasad	Facile synthesis of Te-doped ZnO nanoparticles and...	Chemical Papers, 75,4317–4326	2	premier	2021
<input type="checkbox"/>	Edit Copy Delete Annu Dabas,Richa Yadav,Maneesha Gupta	Improved performance recycling folded cascode OTA ...	Sadhana 47	4	motivational	2022
<input type="checkbox"/>	Edit Copy Delete Krishnakant Sahu, S.C. Sharma, N.R. Chauhan	Misalignment and Surface Irregularities Effect in...	International Journal of Mechanical Sciences 221,...	7	commendable	2022
<input type="checkbox"/>	Edit Copy Delete Neha Deepak Saxena, Nathi Ram Chauhan	Modelling and Analysing the Performance of Journal...	Petroleum Chemistry, Pleiadas publishing	7	motivational	2022
<input type="checkbox"/>	Edit Copy Delete Parnika Kansal, Ashwni Kumar, M. Gangadharappa	Optimized Extreme Learning Machine for Intelligen...	Journal of the Communications Technology and Elect...	4	commendable	2021
<input type="checkbox"/>	Edit Copy Delete Siddhi Mishra, Abhigya Verma, Kavita Meena, Rishab...	Public reactions towards Covid-19 vaccination thro...	Social Network Analysis and Mining 12	1	UG/PG incentive	2022

Future Scope



- Discussion Forum for interaction between Students and Mentors.
- Creation of Sub Admin
- Connection with Agencies for Fund Allocation

CONCLUSION



This project effectively integrates a secure user login system with comprehensive modules for managing research work, generating reports, highlighting awardees, and maintaining detailed research profiles.

Utilizing Node.js for the server-side operations and SQL for database interactions ensures efficient data handling and a smooth user experience.

The platform empowers researchers to easily access, update, and manage their project information, facilitating a well-organized and collaborative research environment.

