



CSJMU

RESEARCH BULLETIN

VOLUME 2 ISSUE 2

JULY 2026





PROF. VINAY KUMAR PATHAK

Vice Chancellor

CSJM University, Kanpur

It is with immense pride and pleasure that I extend my heartfelt congratulations to the Research & Development (R&D) Cell of Chhatrapati Shahu Ji Maharaj University, Kanpur, on the successful launch of the 6th edition of the University Research Magazine. This milestone reflects the dedication of our faculty, researchers, and students in fostering a vibrant culture of research and innovation.

The introduction of new policies and amendments by the R&D Cell is highly commendable, demonstrating a progressive approach toward enhancing research quality, promoting interdisciplinary collaboration, and ensuring ethical academic practices.

This edition stands as a testament to the university's commitment to intellectual growth and meaningful societal contribution. Through initiatives like the College Research Corner, the R&D Cell has created inclusive platforms for wider academic participation. I am confident these efforts will further strengthen our research ecosystem.

I extend my best wishes to the entire team and encourage the CSJMU community to actively engage with this valuable initiative.



PROF. SUDHIR KUMAR AWASTHI

Pro-Vice Chancellor

CSJM University, Kanpur

I am pleased to extend my heartfelt congratulations to the Research & Development (R&D) Cell of Chhatrapati Shahu Ji Maharaj University, Kanpur, on the successful launch of the 6th edition of the University Research Magazine.

This achievement marks a significant step in strengthening a vibrant and sustainable research ecosystem across the university and its affiliated colleges. This edition reflects the diverse research accomplishments, innovations, and academic excellence of our faculty, researchers, and students.

The introduction of new policies and recent amendments by the R&D Cell is highly commendable, as they aim to enhance research quality, encourage interdisciplinary collaboration, and ensure ethical and impactful scholarship aligned with global standards.

The inclusive approach, especially through platforms like the College Research Corner, fosters wider participation and knowledge exchange. I sincerely appreciate the efforts of the R&D team and encourage the academic community to actively contribute.

Research Bulletin Magazine

I extend my best wishes for the continued success of this valuable initiative.



PROF. NAMITA TIWARI

Dean, Research & Development
CSJM University, Kanpur

It is my privilege to present Volume 2, Issue 2 of the CSJMU Research Bulletin, highlighting our continued efforts to strengthen research excellence through innovation, digital transformation, and evidence-based governance.

At the Research & Development Cell, we believe that research administration should be as innovative as research itself. During the past few months, we have focused not only on strengthening research quality and academic governance but also on integrating Artificial Intelligence into institutional processes.

A significant milestone in this journey has been the launch of "Vyasa (Vidya, Yash, Scholar Analytics)", CSJMU's AI-powered Research & Ph.D. Intelligence Assistant. Initially developed as an intelligent Ph.D. Admission Assistant, Vyasa has demonstrated how Artificial Intelligence can improve transparency, accessibility, efficiency, and governance in higher education.

Our vision extends far beyond admissions. Inspired by the timeless philosophy of Maharishi Ved Vyasa, we aspire to build an integrated AI-enabled Research Governance Ecosystem that empowers researchers, faculty members, scholars, and administrators through intelligent decision support and data-driven insights.

I express my sincere gratitude to our Hon'ble Vice-Chancellor for his visionary leadership and to all faculty members, researchers, Assistant Deans, Directors, Heads, supervisors, and research scholars for their unwavering support in strengthening the University's research ecosystem.

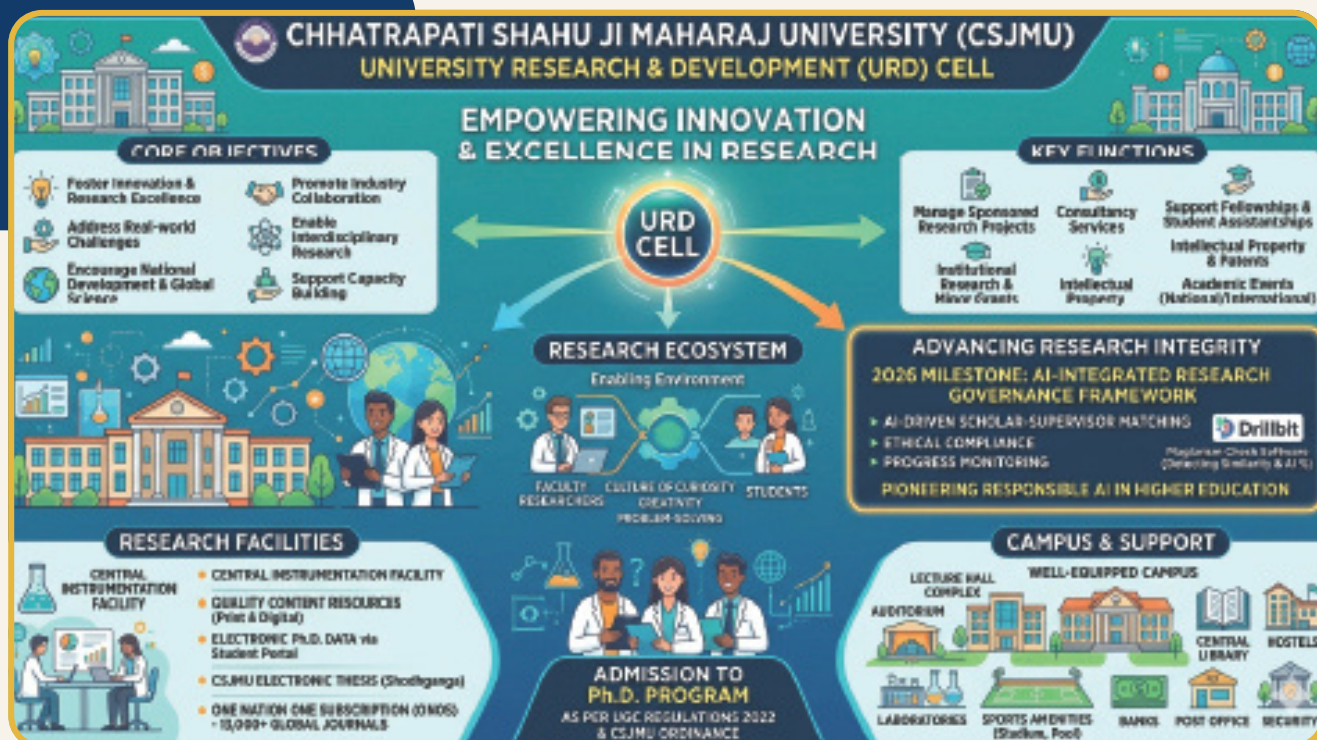
Together, we shall continue transforming knowledge into intelligence, research into innovation, and data into governance.

URDC AT GLANCE

The University Research & Development (URD) Cell at CSJMU is a dynamic hub promoting innovation, research excellence, and industry collaboration. It provides administrative and managerial support for sponsored projects, consultancy, institutional research, minor grants, intellectual property processes, fellowships and academic events.

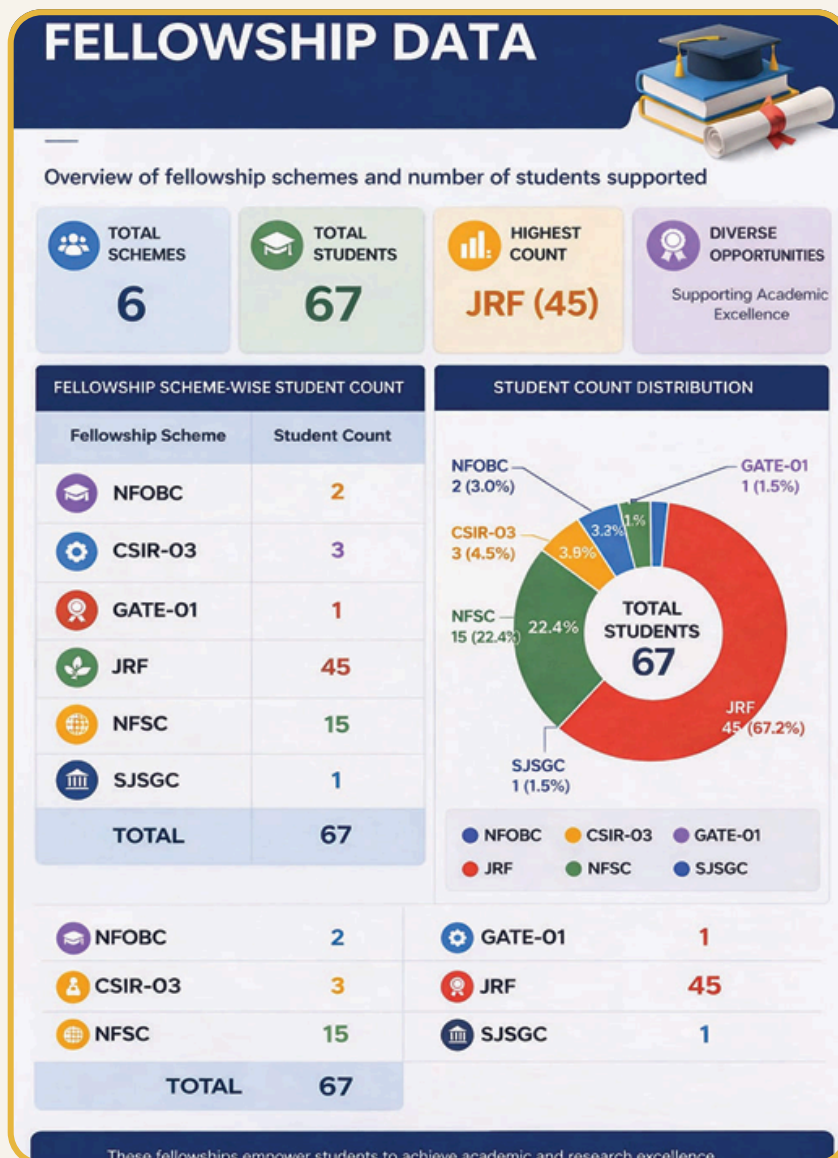
Focused on real-world challenges, the URD Cell fosters a culture of creativity, inquiry, and problem-solving among faculty and students while encouraging interdisciplinary and industry-linked research. The university supports research through well-defined policies, seed funding scholarships, and access to shared facilities. CSJMU offers a well-equipped campus with modern academic infrastructure. IT-enabled labs, a central library, and extensive sports and residential facilities. Research support includes access to Ph.D. data via student portals, central instrumentation facilities, digital and print resources, plagiarism detection tools (Drillbit), Shodhganga e-theses, and over 13,000 journals through the ONOS initiative.

Ph.D. admissions follow UGC Regulations 2022 and university ordinances. The URD Cell is introducing an AI-integrated research governance framework to enhance supervision, ethical compliance, and research monitoring, positioning CSJMU as a leader in transparent and technology-driven research ecosystems.



ACTIVE FELLOWSHIP

Chhatrapati Shahu Ji Maharaj University currently supports students under multiple fellowship schemes, reflecting its sustained commitment to academic excellence and advanced research. A total of 67 students are benefiting from these fellowships, with the majority supported under JRF (45 students), indicating strong engagement in research-driven programs. Additional support is provided through NFSC (15 students), CSIR (3 students), NFOBC (2 students), and GATE and SJSGC (1 student each). This diverse fellowship portfolio not only strengthens the University's research ecosystem but also enables scholars from varied academic backgrounds to pursue higher studies, contribute to knowledge creation, and enhance the institution's overall academic profile.



VIVA DONE

S.No.	REGISTRATION NO.	SCHOLARS NAME	SUBJECT	SUPERVISOR NAME
1.	PHD202200000314	Desh Deepak	Education Training	Dr. Rashmi Gore
2.	PHD202200001848	Shikha Singh	Commerce	Prof. Neelam Agarwal
3.	PHD202200002235	Apoorva Srivastava	Physiotherapy	Dr. Digvijay Sharma
4.	PHD202200000053	Vikram Mani Tiwari	Political Science	Dr. Pushker Pandey
5.	15320041	Sunita Singh	Sanskrit	Prof. Shalini Agarwal
6.	15330041	Anil Kumar	Sociology	Prof. (Dr)Udai Bhan Singh
7.	PHD202200000851	Shubham Dixit	Commerce	Prof.(Dr.) Pankaj Pandey
8.	19180035	Vivechana katiyar	Geography	Prof.Aruna kumari
9.	19140014	Prabhakar Singh	Economics	Prof. Prem swaroop Tripathi
10.	PHD202300000821	Ajay Kumar	Education Training	Dr Satyavah Dwivedi
11.	19180005	Deepak Vishwakarma	Geography	DR. Rana Pratap Yadav
12.	15180014	Maneesh Kumar	Geography	Prof. Prabha Shanker Srivastava
13.	PHD202300001548	Anamika Srivastava	Mathematics	Prof.Mukesh kumar Singh
14.	PHD202300000442	Chandan Kumar	Medical Laborator Technology	Dr. Praveen katiyar
15.	19190009	Sheela	Hindi	Prof. Alka Dwivedi
16.	PHD202200000387	Devesh Tiwari	Horticulture	Dr.Sanjeev Kumar
17.	PHD202200000228	Karishma Sharma	Economics	Prof.Umesh Chandra Yadav
18.	19240004	Ahana Verma	Mathematics	Dr. Maninder Singh Arora
19.	19190040	Jyoti Ravat	Hindi	Dr. Manju Tiwari
20.	19240006	Priya Verma	Mathematics	Dr. Maninder Singh Arora

S.No.	REGISTRATION NO.	SCHOLARS NAME	SUBJECT	SUPERVISOR NAME
21.	PHD202200000467	Skand Dwivedi	Mathematics	Dr. Maninder Singh Arora
22.	19330004	Kalpna Singh	Sociology	Prof. Dr. Rajiv Kumar
23.	19140025	Rinkey Chawla	Economics	Prof.R.K.Dixit
24.	PHD202300000047	Pradeep Kumar Tiwari	Education Training	Dr. Gopal Singh
25.	PHD202300000497	Shailendri Kushwaha	Medical Laboratory Technology	Dr. Praveen Katiyar
26.	PHD202300001252	Aparna Singh	Physics	Prof. R.K. Dwivedi
27.	PHD202300000058	Shireen Shukla	Chemistry	Dr. Meet Kamal
28.	PHD202300000209	Aakanksha Bajpai	Physiotherapy	Dr Digvijay Sharma
29.	PHD202300002006	Deepannita Awasthi	Physiotherapy	Dr. Digvijay Sharma
30.	19190055	Sushma Kaushal	Hindi	Dr. Indu Yadav
31.	19240001	Shubham Chaudhry	Mathematics	Prof. Shikha Singh
32.	19180030	Arti devi	Geography	Dr. Pusha Rani gangawar
33.	PHD202200002160	Arun Kumar Rai	Computer Science and Engineering	Dr. Deepak Kumar Verma
34.	PHD202200002377	Neelu Goyal	Yoga	Dr. Ram Kishore
35.	PHD202300001935	Harshita Gaur	Dept of Economics	Dr Sharad Dixit
36.	PHD20220000029	Vibha Kushwaha	Business Management	Dr. Mohit Kumar
37.	PHD202200002812	Diwakar Patel	Defence and Strategic studies	Prof. Arun Kumar Dixit
38.	PHD202300002017	Siddharam	Chemistry	Prof.Devendra Pratap Rao
39.	PHD202200002322	Nabiya Iqbal	Physics	Dr. Anju Dixit

S.No.	REGISTRATION NO.	SCHOLARS NAME	SUBJECT	SUPERVISOR NAME
40.	PHD202200002322	Nabiya Iqbal	Physics	Dr. Anju Dixit
41.	PHD202300001158	Mansi bajpai	Commerce	Prof.Sudhanshu Pandiya
42.	PHD202300002952	Raginee Gupta	Education Training	Dr. Sweety Srivastava
43.	PHD202200001959	Sweta Rai	Pharmacy	Dr.Prakash Chandra Gupta
44.	PHD202300001158	Mansi bajpai	Commerce	Prof.Sudhanshu Pandiya
45.	PHD202200002302	Shubham Goenka	Commerce	Dr. Pravin Kumar Agrawal
46	PHD202200001057	NoopurVerma	Pharmacy	Dr. Ajay Kumar Gupta
47.	PHD202200000889	Priyanka Mishra	Pharmacy	Dr. Nisha Sharma
48	PHD202200001514	Pallavi Tiwari	Pharmacy	Dr.Nisha Sharma
49	PHD202200000482	Debpriya Das	English	Dr. Shruti Srivastava
50.	PhD202200000022	Manish Kumar Chaturvedy	English	Dr. Ankit Trivedi
51.	19150005	Soni Devi	Education	Dr. Shivam Nigam
52.	PHD202300001870	Rajesh Kumar	Pharmacy	Dr. Shashi Kiran Misra
53.	PHD202300000717	Sandhya Tiwari	Economics	Dr. Pooja Singh

Key Outcomes

It will enhance the Cranio-vertebral angle in individuals with FHP. It will enhance the quality of life in such individuals.

Scholar's Thesis Insight



Apoorva Srivastava
Physiotherapy

Societal Impact

Prolonged exposure to screens can impact cervical spine which can be corrected using comprehensive physiotherapy regime.

Scholar Voice

“Challenge faced during data collection. Future vision is to promote my study and take it to a higher and International level. Thanks to the Research and Development Team for their prompt responses and cooperation round the clock.”

Assessment of Policy issues between India China engagement post the liberalization period. Modern areas of engagement include AI and advanced quantum computing. The economic engagements need to be reformulated so as to protect our economy.



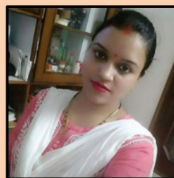
Vikram Mani Tiwari
Political Science

Cyber security challenges will be assessed more closely. AI led modern warfare techniques need to be upgraded to meet the challenges posed by China.

Scholar Voice

“Alumni of CSJMU presently in Foreign Services and other prominent positions in India and abroad were an inspiration for my research. Now I'll be trying my best towards working for the Post- Doctoral Research in the relevant discipline as per my research base thereby achieving more useful outcomes helpful in the Policy formulation matters of India. It was the best of the support I would have ever received during the course of my research work. I am extremely thankful to the respected faculty members affiliated to the CSJMU KANPUR, who in some or the other manner guided me throughout my study. I'm really thankful to the entire support staff who always ensured to make this process hassle free and student friendly.”

Vartmaan yuva pidhi ko sanskrit sahitya ke mahakavyon ki upyogita ka gyan hoga.



Sunita Singh,
Sanskrit

Sakaratomak vichar avam maanviya mulyon ka jeevan me mahatv ka gyan hoga

Scholar Voice

“Thanks to R&D Team”

Ek shikshak apne sewa kal me vidyarthiyo se antah kriya ke madhyam se samaj ki mukhya dhara se juda rahta hai. doosre vyavshay ki apeksha shikshan vyavshay vyakti se udatt moolyo evam aadarsho ki apeksha karta hai. Shikshak moolyo aur aadarsho ke madhya apni bhoomika nirvahan karta hua doosro ke liye ek praroop taiyar karta hai.



Anil Kumar
Sociology

Sewanivritti poorva paramarsh ke karkramo ko badhana evam sahayta diye jane ki avashyakta hai. Sewanivritti ke bad bhi arthoparjan me logo ki ruchi bani rahni chahiye

Scholar Voice

“My research supervisor is a source of inspiration for me. He has taught me the value of hard work and working in the right direction. The main objective of research is to discover new facts and to obtain complete, accurate and detailed information regarding the problems of retired teachers. Thanks to research and development team”

The study found that digital banking services significantly improved the operational performance of banks by enhancing transaction speed, reducing operational costs, increasing efficiency, and minimizing manual banking processes in both State Bank of India and HDFC Bank. The research concluded that digital banking positively influenced customer service quality by providing greater convenience, accessibility, security, and customer satisfaction through services such as mobile banking, internet banking, and UPI-based transactions.



Shubham Dixit
commerce

The study highlights that digital banking has contributed to the growth of a cashless economy by promoting financial inclusion, increasing digital payment adoption, and encouraging people from different sections of society to access banking services conveniently. The research demonstrates that digital banking has improved the overall lifestyle of consumers by saving time, reducing dependency on physical bank visits, and enabling secure, fast, and transparent financial transactions in daily life.

Scholar Voice

“Research is not only about earning a degree, but about creating knowledge that can contribute to society and the banking sector. My vision is to promote awareness and advancement of digital banking for a more efficient and financially inclusive India. Thanks to the Research and Development Team”

Increase former income. FPO
change living life of former.
Nabard help of former



Prabhakar Singh
Economics

In my research we find
changes income of formers.
Former save for missing of
lekege price of our goods

Scholar Voice

“In my research we find major problems of agriculture of
farmers. And in My research role in india many sectors very
important . Thanks of RND csjm university”

1- स्नातक स्तर
2- विद्यार्थी
3- जीवन कौशल



Ajay Kumar
Education Training

1-जीविका वरीयता
2- सामाजिक व्यवहार

Scholar Voice

“Research is not only about earning a degree, but about creating knowledge that
can contribute to society and the banking sector.
My vision is to promote awareness and advancement of digital banking for a
more efficient and financially inclusive India.
Thanks to the Research and Development Team”

Fast Growth Rate. Less
Development level. Inverse
Relation between population
and development



Deepak Vishwakarma
Geography

Got balanced development.

Scholar Voice

“Inspiration
Future vision
Thanks to research and development team”

This Research Reveals the actual Socio-economic development of scheduled castes in Hamirpur District . A positive correlation between education and socio-economic development. Employment changes from 2001 to 2011 show a sharp decline in rural cultivators alongside a parallel rise in lower-earning agricultural labourers. This research also reveals that the socio-economic development of Scheduled Castes is neither proper nor rapid.



Maneesh Kumar
Geography

1.This research will assist local, state, and central governments in formulating and restructuring policies to ensure proper socio-economic development for Scheduled Castes in Hamirpur District.
2. This research is also helpful for the government in restructuring policies for the proper socio-economic development of Scheduled Castes in Hamirpur District

Scholar Voice

“In Data collection and Discussion to Subject experts and pursuing research also.

My Research is beneficial for the society and government to review their contribution and making policies

Thanks to Dean and all Members R & D Cell, CSJM UNIVERSITY, Kanpur”

Enhanced the understanding of the geometric properties and operator theory related to generalized Wright functions within conic domains. Established sufficient conditions for hypergeometric functions to be members of specific classes of univalent functions. Provided new insights into the geometric behavior of hypergeometric functions within univalent function theory.



Anamika Srivastava
Maths

This work contributes new insights into the interplay between special functions and geometric function theory, offering potential for further research and applications and Opened potential avenues for further research on integral operators and their impact on function classes.

Scholar Voice

Supports strategic decision-making with essential information and ideas.

Foster a culture of continuous innovation where faculty, students, and industry partners collaborate to translate ideas into impactful technologies, policies, and startups.

I would like to express my sincere gratitude to the Research and Development Cell of CSJM University for your continuous support, guidance, and encouragement in fostering a culture of innovation and academic excellence within the university.

Active smokers had higher fibrinogen and shorter PT & APTT, suggesting increased risk of thrombotic events. Active smokers had higher TC, TG, LDL & ratios, and lower HDL-indicating greater cardiovascular risk. Cortisol and alpha-amylase were higher in active smokers, indicating increased physiological stress and neuroendocrine imbalance.



Chandan Kumar
MLT

Active smokers had higher fibrinogen and shorter PT & APTT, suggesting increased risk of thrombotic events. Active smokers had higher TC, TG, LDL & ratios, and lower HDL-indicating greater cardiovascular risk. Cortisol and alpha-amylase were higher in active smokers, indicating increased physiological stress and neuroendocrine imbalance.

Scholar Voice

“Following challenges - active smoking causing pronounced alterations in lipid, liver, coagulation, and stress parameters, while passive smoking causing milder but significant biochemical changes; it is not biologically safe. There is an urgent need for smoking cessation programs, stricter smoke-free policies, and greater public awareness in urban areas like Kanpur. I am highly grateful to Research and Development Team for timely support and successful completion of my PhD”

Krishi adharit udyog se mahilao ke rojgar mai vridhi Udyogo ke vikas se adharbhoot suvidhao ka vikas Shikha aur swasth suvidhao mai vikas



Vivechana katiyar
Geography

Krishi udyogo mai Sakaratmak vriddhi Krishi udyogo se yuvao ke liye rojgar ke avsar

Scholar Voice

“All challenges during research have overcome ”

प्रवासी लेखन, महिला
लेखन, मानवीकरण



SHEELA
Hindi

हिंदी भाषा का
विकास, भारतीय संस्कृति
का विकास

Scholar Voice

संचार , भारतीय संस्कृति को बढ़ावा, (अनुसंधान और विकास
सेल) को धन्यवाद

Use of Integrated nutrient
management. Use of Bio-
fertilizer. Use of Farm yard
Manure.



Devesh Tiwari
Horticulture

Reduce Farmer cost. Improve
soil conditions.

Scholar Voice

Research facility are very good.
Work on difference location.
Thanks to all team

1-Identified the trends and
patterns in India's trade
relations with selected
Commonwealth countries and
assessed their contribution to
India's overall foreign trade.2-
Evaluated the impact of
bilateral and multilateral trade
agreements on export-import
performance, trade balance,
and economic cooperation
between India and the selected
Commonwealth



Karishma Sharma
Economics

This study helps policymakers
and businesses understand
opportunities for expanding
trade with Commonwealth
countries, leading to increased
exports, investment, and
employment generation. The
findings can contribute to
stronger economic
cooperation, improved market
access, and sustainable
economic development for
India and its trading partners.

Scholar Voice

Exploring India's trade relations with Commonwealth nations was
both a challenging and enriching journey that deepened my
understanding of international trade dynamics and economic
cooperation."

"My sincere gratitude to the Research and Development Team for
their guidance and support throughout this research journey."

1- Proposed a nonlinear mathematical model to study the impact of awareness programs on water resources, renewable resources, forest conservation, global warming mitigation, and infectious disease control. 2- Established rigorous theoretical results including positivity, boundedness, stability analysis, bifurcation analysis, and optimal control strategies, demonstrating the crucial role of awareness in promoting sustainable system behavior.



Ahana Verma
MATHS

The finding demonstrate that awareness programs can serve as a cost-effective tool for reducing resource depletion, mitigating climate change impacts, and controlling infectious diseases, thereby improving the quality of life and supporting sustainable development.

Scholar Voice

This research was inspired by the need to understand how awareness can influence human behavior and contribute to solving environmental and public health challenges through mathematical modelling. I envision future research integrating real-world data, delay optimal control, and advanced modelling techniques to develop more effective and sustainable policy solutions for society." I sincerely thank the Research and Development Team for their valuable guidance, support, and encouragement throughout this research journey.

ऐतिहासिक नाटककारों का विशेष रूप से अध्ययन। हरिकृष्ण प्रेमी एवं जगदीश चंद्र माथुर के नाटकों के वैचारिक दृष्टि का अध्ययन। रंगमंच की दृष्टि से हरिकृष्ण प्रेमी एवं जगदीश चंद्र माथुर के नाटकों की उपयोगिता। चरित्र चित्रण की दृष्टि से दोनों नाटककारों का तुलनात्मक अध्ययन।



Karishma Sharma
Economics

समाज में मेरे द्वारा शोध से भाईचारे की भावना, देशहित की भावना, आत्म बलिदान, सत् - असत् का ज्ञान एवं भारतीय संस्कृति को समझने में मदद मिलेगी।

Scholar Voice

ऐतिहासिक नाटकों में इतिहास के वास्तविक एवं काल्पनिक तथ्यों को जानने की जिज्ञासा। नाटकों के प्रति विशेष रुचि होना। मैं अपने रिसर्च डिपार्टमेंट एवं समस्त हिंदी विभाग के प्रोफेसर कोटि-कोटि धन्यवाद करती हूँ।

Atmospheric Pollution,
Global warming, Direct Air
Capture Technology



Priya Verma
MATHS

Scholar Voice

The thesis provides a unified mathematical framework to understand and predict the multifaceted consequences of atmospheric pollution and climate change. By combining ecological realism with mathematical precision, it delivers valuable tools for policymakers, environmental scientists, and public health planners seeking to develop data-driven, systems-level responses to the climate crisis.

Future vision or call to action, Thanx to R&D

Consumer retention delay dynamics involving probabilistic function representing adopter. Firms must invest not only in effective advertising but also maintain consistent brand visibility to prevent trust erosion and sustain consumer confidence. The findings provide useful insights for policymakers and industry stakeholders in designing cost-effective strategies that promote long-term EV adoption and facilitate sustainable market



Skand Dwivedi
Mathematics

Scholar Voice

Sustained advertising and brand visibility are essential for maintaining consumer trust and market competitiveness. The findings provide strategic guidance for designing cost-effective promotional policies that enhance trust and facilitate successful brand adoption.. Social movements can substantially alter consumer preferences and purchasing behavior, creating both opportunities and challenges for brands.

My research journey taught me that persistence and curiosity can transform challenges into discoveries.. I aspire to develop mathematical models that provide meaningful solutions to real-world societal, environmental and industrial problems.. Thanks to Research and Development Team.

EMERGENCE OF THE "NEGOTIATED FAMILY MODEL". EMERGENCE OF "TIME POVERTY" AS A NEW FORM OF INEQUALITY. WORK-LIFE BALANCE AS A "COLLECTIVE FAMILY ACHIEVEMENT"



KALPANA SINGH,
SOCIOLOGY

Scholar Voice

TRANSFORMATION OF MOTHERHOOD FROM DIRECT CAREGIVER TO MANAGER OF CARE. WORKPLACE CHILDCARE FACILITIES IN GOVERNMENT SCHOOLS RECOGNISE AND SUPPORT CARE-GIVING AS A SHARED SOCIAL RESPONSIBILITIES

OBSERVING HOW MODERN WORK STRUCTURES IMPOSE SEVERE "TIME POVERTY" ON WORKING FAMILIES INSPIRED THIS RESEARCH INTO SHIFTING FAMILY DYNAMICS AND CARE GIVING EQUITY. WE MUST LOOK TOWARD A FUTURE THAT ESTABLISHES A "NEGOTIATED FAMILY MODEL" WHERE WORKPLACE CHILDCARE IS STANDARD AND WORK-LIFE BALANCE IS RECOGNIZED AS A COLLECTIVE ACHIEVEMENT. I EXTEND MY DEEPEST GRATITUDE TO THE RESEARCH AND DEVELOPMENT TEAM FOR THEIR INVALUABLE SUPPORT THROUGHOUT THIS STUDY.

Women gained easier access to loans without requiring traditional collateral. Reduced dependence on local moneylenders



Rinkey Chawla
Economics

Scholar Voice

Brings marginalized and rural women into the formal financial system. Promotes equality and community

Increased income improved their confidence and social status. More women will take leadership roles in community organizations and local development activities. I would like to express my sincere gratitude to the Research and Development Team for their valuable guidance, support, and encouragement throughout this study on the impact of Joint Liability Groups (JLGs) on women in Kanpur Dehat. Their expertise, constructive suggestions, and continuous assistance played a crucial role in the successful completion of this research. I also appreciate their dedication to promoting knowledge, innovation, and rural development, which greatly contributed to the quality and effectiveness of this work.

It is very usefull for students, it is very impactful



PRADEEP KUMAR
TIWARI
EDUCATION

Scholar Voice

It is useful a policy & make it useful for upcoming research scholars

Thank to honourable vice chancellor sir for inspiring me

Athletes showed significantly higher Creatine Kinase (CK) and Lactate Dehydrogenase (LDH) levels compared to sedentary individuals, indicating greater muscle metabolic adaptation to regular exercise. • Renal function parameters remained within normal physiological limits in both groups, demonstrating that regular physical activity does not adversely affect kidney function in healthy individuals. • The study highlights the positive physiological adaptations associated with sustained athletic training and provides comparative biochemical evidence between active and sedentary lifestyles.



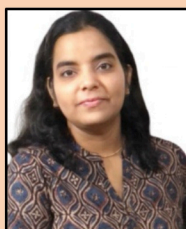
SHAILENDRI
KUSHWAHA
MLT

Scholar Voice

Regular physical activity promotes beneficial biochemical adaptations without compromising renal health, emphasizing the importance of exercise for overall well-being. The findings can help healthcare professionals, sports scientists, and policymakers encourage active lifestyles to improve public health and prevent lifestyle-related diseases.

This research was inspired by the need to understand how exercise influences key biochemical markers and overall physiological health. The findings encourage further exploration of exercise-based interventions for promoting health and preventing disease in diverse populations. Special thanks to the Research and Development Team for their continuous guidance, support, and encouragement throughout this study.

Successful design and development and Multi-band operations.. Good Impedance Matching with satisfactory gain and directivity with low SAR, Stable Performance and Good Radiation Characteristics.. Suitability for WBAN and smart healthcare applications.



Aparna Singh
PHYSICS

The proposed wearable textile antenna technology has significant societal benefits by enabling affordable, safe, and continuous healthcare monitoring while supporting the advancement of smart wearable and wireless communication systems.

Scholar Voice

Transforming wearable antenna concepts into practical healthcare solutions has been the driving force of my research journey. I envision smarter, safer, and more accessible healthcare through advanced wearable technologies.. I sincerely thank to the Research and Development Team for their constant guidance, support, and encouragement.

Degradation of plastic waste (waste management). Synthesis of valuable carbon materials. Future applications of synthesized materials.



Shireen Shukla,
Chemistry

As the research focuses on plastic waste management, it is very crucial for healthy and growing society. Conservation of Mother Nature for future generations.

Scholar Voice

The biggest challenge is to stay consistent in the research work , the biggest inspiration is my father and my supervisor . They guided me throughout the journey . In future, I plan to mindfully continue my research and play a vital role in society. Research and Development was standing throughout for each complicated paper work and information. My heartfelt gratitude to each and every individual who acted as a tool in my successful Phd journey.

PCOS Affects Pulmonary function, Consistent inverse correlation between pulmonary function and psychological distress parameters, Supervised physiotherapy intervention improve overall quality of life of women with PCOS



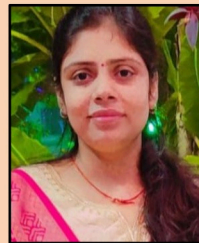
Aakanksha Bajpai
Physiotherapy

A healthier woman contributes to a healthier family and society; therefore, holistic management of PCOS has benefits that extend beyond the individual patient

Scholar Voice

This journey taught me that every challenge is an opportunity to discover new possibilities in research. I hope this work encourages holistic approaches and inspires future researchers to explore the overlooked dimensions of women's health. My sincere gratitude to the Research and Development Team for their continuous support and guidance.

To find out the effectiveness of I taping with core stability exercises on patient with chronic non specific low back pain To find out the effectiveness of Y taping with core stability exercises on patients with chronic non - specific low back pain patients To find out which treatment protocol is better for the treatment of chronic non specific low back pain patients



Deepannita Awasthi
Physiotherapy

As running population people are suffering from chronic non specific low back pain so Kinesio taping combined with core stability exercises can be effected in the management of pain

Scholar Voice

Everyone was well supportive and kind. Thanks to R&D.

समाज के बदलते परिवेश के कारण वृद्धजनों की स्थिति अत्यंत दयनीय हुई हैं , परिवारों के विघटन, उपभोक्तावादी संस्कृति, शहरीकरण ने वृद्धजनों की स्थिति बदली हैं।



SUSHMA KAUSHAL
HINDI

शोध 21वीं सदी के हिंदी उपन्यासों में वृद्धजन विमर्श से शोध छात्रों को वृद्ध जीवन से जुड़े शोध कार्य करने में सहायता मिलेगी।

Scholar Voice

मैं शोध एवं रिसर्च डेवलपमेंट टीम के सभी सदस्यों के सहयोगात्मक व्यवहार के लिए हृदय तल से आभार व्यक्त करती हूँ।

Temperature rise, carrier population, environmental factors



Shubham Chaudhry
Mathematics

Scholar Voice

My research focuses on developing and analyzing mathematical models to understand the transmission dynamics of carrier-dependent infectious diseases under the influence of ecological factors and human activities. The study employs stability analysis and numerical simulations to provide insights for effective disease prevention and control strategies.

"Every challenge in my research journey became a stepping stone toward growth and discovery." "I aspire to contribute meaningful mathematical solutions to real-world problems and inspire future researchers." "Heartfelt thanks to the Research and Development Team for their constant support and guidance throughout my Ph.D. journey.

परिवर्तनशील कृषि से पर्यावरण पर व्यापक प्रभाव पड़ रहा है कृषि में मशीनीकरण से बेरोजगारी बढ़ रही है कृषि के विस्तार के कारण जैवीय संपदा नष्ट हो रही है



Arti devi
Geography

Scholar Voice

शोध 21वीं सदों के हिंदी उपन्यासों में वृद्धजन विमर्श से शोध छात्रों को वृद्ध जीवन से जुड़े शोध कार्य करने में सहायता मिलेगी।

डेटा संग्रहण में अधिक चुनौतियों का सामना करना पड़ा भावी कृषि रिसर्च के लिए दिशा प्रदान करेगा मैं शोध एवं रिसर्च डेवलपमेंट टीम के सभी सदस्यों के सहयोगात्मक व्यवहार के लिए हृदय तल से आभार व्यक्त करती हूँ

Security in healthcare.
Anomaly Detection in
Healthcare



Arun Kumar Rai,
Computer Science
and Engineering

Scholar Voice

Real world hospital
validation. Edge AI
Deployment

Thanks to Research and Development Team

Both Shreemad bhagavad gita and Yogsutra present timeless scientific conceptions of personality development whose aim is to free man from suffering, ignorance and mental bondages & to lead him towards a higher consciousness. The basis of the similarities of the two texts lies in their Vedic and spiritual background.. The cause of their differences lies in the fundamental conception of yoga, the metaphysical vision and the mode of presentation. Both texts provide extremely relevant guidance for solving the problems of the present age and for building a successful and balanced personality.



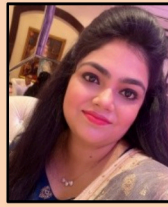
Neelu Goyal
Yoga

Scholar Voice

By applying the principles of self restraint, equanimity, vairagya and the purification of the chitta, the problems of family and social life, conflict and emotional imbalance can be resolved.

Both the texts are inspirational in themselves. The principles of personality development presented in the two texts should be incorporated into the field of education. I am extremely grateful to the Research and Development Team for their unwavering support in enabling and guiding me in my research work.

Significant employment generation Positive employment investment relationship Enterprises promote inclusive growth



Harshita Gaur,
Economics

Scholar Voice

Strengthening SSE's can create more jobs, enhance livelihood and drive inclusive local economic growth.

Every challenge encountered during this research became an opportunity for deeper learning and discovery. Strengthening Small Scale Enterprises is essential for creating sustainable employment and fostering inclusive economic development. I sincerely thank the Research and Development Team, my supervisor, and all contributors for their invaluable support throughout this journey.

Integrated framework was developed using DOI, TOE and TAM. Influencing and Inhibiting Factors were identified.



VIBHA KUSHWAHA
Business
Management

Scholar Voice

The study help organizations for analysing the factors influencing Human Resource Analytics Adoption.

Thanks to Research and Development Team

Structured sessions on self-awareness. Emotional intelligence. Behavioural flexibility. Personality profiling and reflection exercises. Project-based leadership. Peer mentoring. Community and disaster-relief leadersh



Diwakar Patel
Defence & Strategic
studies

Scholar Voice

Provides evidence that can support NCC training programmes in strengthening leadership and Officer-Like Qualities (OLQs). Offers insights that may assist in identifying and developing cadets with greater potential for SSB success.

Thanks to R&D Cell fir their valuable support.

Synthesis of molybdenum complexes
Antibacterial activity of molybdenum complexes



Siddharam
(Chemistry)

Scholar Voice

These complexes are beneficial as antibacterial activity

Lack of funds Synthesis of more molybdenum complexes which are helpful in anticancer activity

Rigorous evaluation of mono-doping and co-doping techniques for BaTiO_3 material. Experimentally verified the narrow solubility limit and optimum doping window of bismuth for BaTiO_3 system. Relaxor and diffused dielectric behaviour observed in both mono and co-doped compositions



Nabiya Iqbal,
Physics

Scholar Voice

A series of lead-free materials with enhanced multifunctional performance for various electronic applications obtained.

A lot of experimental hurdles were faced which were overcome by perseverance and patience, which are the key factors for a dedicated research. Always want to contribute to society by deeply involving in research and innovating. Thanks to Dean R and D and her team for their support and cooperation.

CAM AI RESEARCH PROJECT SCHEME

MAJOR PROJECTS

1. *Rebuilding Voices with AI: A Gen AI Personalized Speech Recovery and Communication System*



Dr. Shilpa Deshpande Kaistha (PI), Department of Biotechnology, SLSBT, CSJMU

Dr. Ajeet Kumar Srivastav (Co-PI), Department of Electronics & Communication Engg, UIET

Dr. Hina Vaish (Co-PI), Department of Physiotherapy, SHS

Domain: Healthcare AI

Funding amount : ₹10,00,000

2. *AI-Driven IoT-Enabled Closed-Loop Biorefinery Control System for Sustainable Bioethanol Production from Agricultural Residues*



Dr. Ajay Kumar Pandey (PI), Department of Life Sciences and Biotechnology, CSJMU

Domain: Agriculture AI

Funding amount : ₹10,00,000

3. *“Skyfeast” a Fully AI-powered Autonomous Logistics Drone Capabilities to Land Precisely Even on Uneven Surface from their Auto Adjustable Landing Gears*



Ms. Gargi Gupta (PI), Department of Computer Science & Engineering, UIET, CSJMU

Dr. Alok Kumar (Co-PI), Director, UIET, CSJMU

Domain: Robotics / Drone AI

Funding amount : ₹9,99,300

MINOR PROJECTS

1. *DHARA AI: Smart irrigation, Auto-Fertilization & Smart Effort Solution For Farmers*



Dr. Himanshu Trivedi (PI), School of Advance Agricultural Sciences and Technology, CSJMU

Dr. Shreya Singh (Co-PI), School of Advance Agricultural Sciences and Technology, CSJMU

Domain: Agriculture AI

Funding amount : ₹4,12,550

2. *Attend AI*



Dr. Anshu Singh (PI), School of Arts, Humanities and Social Sciences, CSJMU

Domain: Education / Institutional AI

Funding amount : ₹4,99,719

3. *“Dori AI” – Offline First Academic Assistant for CSJMU Students*



Dr. Rashmi Gautam (PI), Asst Prof, Dept of Journalism and Mass Communication, CSJMU

Dr. Yogendra Kumar Pandey (Co-PI), Assoc Prof, Dept of Journalism and Mass Communication, CSJMU

Domain: Education / Institutional AI

Funding amount : ₹5,00,000



Research Publications Overview

Scopus Database: April - June 2026

During the period April to June 2026, Chhatrapati Shahu Ji Maharaj University (CSJMU) continued to demonstrate a strong commitment to research excellence, as evidenced by scholarly publications indexed in the Scopus database. The research publications include peer-reviewed journal articles, conference papers, review articles, and book chapters, underscoring both depth and diversity in knowledge cre-ation.

1. **Sustainable development of copper matrix hybrid composites using waste stainless steel chips: a physical and tribological investigation**

Scientific Reports

Pramod Kumar et al



Article

2. **Emerging frontiers in genome editing: From CRISPR to next-generation technologies**

Methods

Saurabh Mishra et al



Article

3. **Types, Patterns of Romantic Relationships and Dating Delays among Urban Indian Emerging Adults**

Space and Culture, India

Shraddha Bhatia et al



Article

4. **A Multi objective Hybrid Harris Hawks Optimization and Proximal Policy Optimization Approach for Efficient Cloud-Fog Task Scheduling**

SN Computer Science

Prateek Srivastava et al



Article

5. **Regulating Plant Growth and Defense: Multifaceted Roles of Auxin in Plants**

Journal of Plant Growth Regulation

Samiksha Singh et al



Article

6. Adam Red Panda Optimization for Detection and Severity Level Classification for Lung Cancer using CT Image

Journal of Scientific and Industrial Research

Alok Kumar, Ajeet Kumar Srivastava, Vishal Awasthi, Pushpa Mamoria, Deepak kumar Verma, Vineeta Singh et al



Article

7. Advanced Drug Delivery Systems: Technological Innovations And Pharmaceutical Applications In Nursing, Surgical, And Paramedical Practice

International Journal of Drug Delivery Technology

Aamena Zaidi, Neha Shukla, et al



Article

8. Design, Synthesis, and In Silico Evaluation of Novel Imidazolidine-2,4-dione Derivatives as Selective GSK-3 β Inhibitors

International Journal of Drug Delivery Technology

Amrita Singh, Ajay Kumar, Pankaj Singh Niranjana, Shashi Kiran Misra, et al



Article

9. Adapting Pedagogical Strategies for Students with Disabilities in University Classrooms

International Journal of Special Education

Gopal Singh, et al



Article

10. Optimizing phosphorus management in wheat-based intercropping systems for enhanced productivity, profitability, energy efficiency, and soil health in Indian Inceptisols

Frontiers in Sustainable Food Systems

Dharmendra Kumar, et al



Article

11. Machine Learning-Driven Intrusion Detection for Next-Generation Information Security Systems

International Research Journal of Multidisciplinary Technovation

Rabins Porwal, et al



Article

12. STRUCTURAL DIVERSIFICATION AND ECO-FRIENDLY SYNTHESIS OF PHENYTOIN ANALOGS

Asian Journal of Pharmaceutical and Clinical Research

Poornima Pandey, Anju Singh, Sharda Shakya, A. Rajendiran, et al



Article

13. Exploring the dielectric, supercapacitor and photocatalytic capabilities of sol-gel synthesized TiC nanoparticles

Materials Science and Engineering: B

Akhilesh kumar, Anju Dixit, Leekeshwer Upadhyay, et al



Article

14. SPATIAL ANALYSIS OF HEALTHCARE VULNERABILITY AND ACCESSIBILITY UNDER PMJAY IN UTTAR PRADESH

Asia Pacific Journal of Health Management

Shraddha Bhatia, Vandana Dwivedi, et al



Article

15. Enhancing Physical Layer Security in Millimeter Wave Multiple Input Multiple Output-Orthogonal Frequency Division Multiplexing Networks

Transactions on Emerging Telecommunications Technologies

Parul Awasthi, Vishal Awasthi, et al



Article

16. Digital Cognitive Behavioral Therapy Tools for Students with Emotional and Behavioral Disorders

International Journal of Special Education

Gopal Singh, et al



Article

17. ENVIRONMENTAL AND ECONOMIC PERFORMANCE ASSESSMENT OF MUNICIPAL WASTEWATER TREATMENT PLANTS IN KANPUR FOR SUSTAINABLE URBAN WATER MANAGEMENT

Genetics and Molecular Research

Vikash Katiyar, Abhishek Kumar Chandra, Ramendra Singh Niranjana, Praveen Bhai Patel, et al



Article

18. A STUDY OF TECHNO – PEDAGOGICAL COMPETENCY AMONG SECONDARY SCHOOL TEACHERS OF KANPUR CITY

Youth Voice Journal

Priyanka Maurya, Tanuja Bhatt, Abhishek Pal, et al



Article

19. Impact of Comprehensive Exercise Training on Reaction Time in Female Recreational Badminton Players: A Pilot Study

JK Practitioner

Anjali Raghuwanshi, Digvijay Sharma, Apoorva Srivastava, Adarsh Kumar Srivastav, et al



Article

20. Green practices in family celebration and their influence on green values in Lucknow and Kanpur districts

Discover Sustainability

Sanjeev Kumar Singh, Surendra Kumar, Kavita Singh, et al



Article

21. Enzymatic Properties and Structural Insights Into the Derhamnosylating Alkaline α -L-Rhamnosidase From *Aspergillus flavus*

Biotechnology and Applied Biochemistry

Kunwar Vishal, Divyanshu S. Senger, Vinita Yadav, Pramod K. Yadav, et al



Article

22. Neuroprotective mechanism of hydrogen sulfide in okadaic acid-induced alzheimer-like pathology

GeroScience

Anuradha Kalani, et al



Article

23. Bifurcation and stability analysis of a nonlinear brand adoption model with advertising, trust, and reliability interactions

International Journal of Dynamics and Control

Skand Dwivedi, Ahana Verma, Maninder Singh Arora, et al



Article

24. **A Novel AI-Driven Framework for Talent Identification in Cricket Batting Skills to Leverage Immersive Virtual Reality Performance Analytics**

Journal of Daoist Studies

Shubham Hajaria, et al



Article

25. **Urinary Exosomal ATF3 as a non-invasive biomarker for early detection of acute kidney injury**

Clinica Chimica Acta

Rajeev Mishra et al



Article

26. **DYNAMIC INTERACTION BETWEEN BITCOIN AND DEVELOPED STOCK MARKETS: EVIDENCE FROM THE DCC-GARCH MODEL WITH WAVELET COHERENCE APPROACH**

ECONOMICS - Innovative and Economics Research Journal

Pravin Kumar Agrawal, Gopal Singh, Pallavi Mishra, Mansi Bajpai, Neelesh Kumar, Mohit Kumar, et al



Article

27. **Molecular docking analysis revealing silymarin as a potential inhibitor of tomato yellow leaf curl virus**

Research Journal of Biotechnology

Virdi Vinny, Verma Dipesh Kumar, et al



Article

28. **Series Solution to a Fuchsian-Type Differential Equation in Terms of Orthogonal Polynomials**

Journal of Mathematics

Narayan Pratap Pathak, et al



Article

29. **Evaluation of portable single-chamber microbial fuel cell using Pichia fermentans for electrochemical sensing of cobalt**

Brazilian Journal of Microbiology

Vanshika Trivedi, Rakesh Kumar Sharma, et al



Article

30. **Enhancing Data Security in Satellite Communication Systems: Integrating Quantum Cryptography with CatBoost Machine Learning Information (Switzerland)**
Arpita Singh et al



Article

31. **Modelling land use land cover transitions in the Tawa river basin, Central India Environmental Research Communications**
Pradeep Kumar Rajput



Article

32. **Low-concentration bismuth doping: an effective technique for electrical property enhancement in BaTiO₃ ceramics Ionics**
Pramod S. Dobal, et al



Article

33. **Efficacy of Integrated Seed Treatment for Enhancing Growth, Yield and Sustainability in Mungbean [Vigna radiata (L.) Wilczek] Legume Research**
Shreya Singh, Abhishek Tiwari, Shubham Bajpai et al



Article

34. **Rapid synthesis of pyrimidine derivatives using a reproducible catalyst based on triflate anion Chemical Papers**
Devendra Pratap Rao, et al



Article

35. **A Comprehensive Review Of Approaches In In-Silico Anti-Depressant Drug Discovery International Journal of Drug Delivery Technology**
Sweta Rai, Prakash Chandra Gupta, et al



Article

36. **Effect of Classical Yoga Sutra 1.14-Based Lifestyle Intervention on Glycemic Control in Type-2 Diabetes: A Case Series**
International Journal of Drug Delivery Technology
Ram Kishore, Praveen Katiyar, Ashish Kumar Katiyar, Anurag Mishra, Anil Kumar Yadav, et al



Article

37. **Synthesis and dual-functional evaluation of pure and Cu²⁺-doped NiO nanoparticles for supercapacitor and photocatalytic applications**
Ionics
Anju Dixit, Vijay Kumar Kashyap, et al



Article

38. **A HYBRID DEEP LEARNING-BASED PATH-PLANNING ALGORITHM FOR MULTIFUNCTIONAL MANIPULATOR-TYPE DISINFECTION ROBOT**
Journal of Theoretical and Applied Information Technology
Niraj Kumar, et al



Article

39. **Reusable biochar adsorbent from forestry waste for aqueous dye remediation: isotherms, kinetics, and regeneration**
Chemistry and Ecology
Akshay, Devendra Pratap Rao, et al



Article

40. **Synthesis and Anticancer Evaluation of Methoxy-Substituted Chalcone Hybrids: DFT, Molecular Docking, and ADME Studies**
ChemistrySelect
Pranjali Mishra, Rohit Kumar Maurya, Yashveer Gautam, Devendra Pratap Rao, Anoop Kumar Gupta, et al



Article

41. **Exploring Siderophore Diversity: Production, Extraction And Functional Applications**
International Journal of Drug Delivery Technology
Shreya Verma, Vaishnavi Srivastava, Prashant Kumar Singh, Ajay Kumar Gupta, Manishi Tripathi, et al



Article

42. A Bibliometric Assessment of a Decade's Research on Educational Technologies in India, 2014-2023

Current Science

Shweta Pandey et al

Article



43. Evolution of the right to potable water as an aspect of the right to life: An overview

Social Sciences and Humanities Open

Vimla Singh, Pramod Kumar Singh, et al

Article



44. Effect of Integrated Nutrient Management Through Organic Sources on Yield and Economics of Chickpea (*Cicer arietinum* L.) in Bundelkhand Region

Agricultural Science Digest

Abhishek Dwivedi, et al

Article



45. How does digital transformation fuel competitiveness and financial growth?

International Journal of Entrepreneurship and Small Business

Mohit Kumar, Pravin Kumar Agrawal, et al

Article



46. Enhanced photodegradation of ciprofloxacin by Cu-doped spinel ferrite nanoparticles: synthesis, characterization and mechanistic insights

Journal of Sol-Gel Science and Technology

Devendra Pratap Rao, et al

Article



47. Entrepreneurial Orientation in Social Enterprises: Balancing Social Impact and Financial Sustainability

International Journal of Drug Delivery Technology

Devashish Shukla, et al

Article



48. **Acute Toxicity Assessment Of Hydroalcoholic Fruit Extract Of Garcinia Lanceifolia Roxb. In Wistar Rats**
International Journal of Drug Delivery Technology
Jay Kumar, Nisha Sharma, K. Kalpana, Pratima Katiyar, Ajay Kumar Singh, Prakash Chandra Gupta, et al



Article

49. **In silico Identification of Phytochemical Inhibitors targeting 3-Oxoacyl-(Acyl-Carrier-Protein) Reductase (FabG4) in Mycobacterium tuberculosis**
Research Journal of Biotechnology
Jagriti Singh, Virdi Vinny, Sharma Rolee, Dipesh Kumar Verma et al



Article

50. **Effect of 8-Week Pilates Training on Enhancing Athletic Performance in Female Sprinters**
JK Practitioner
Digvijay Sharma, Megha Mehrotra, Umesh Kumar, et al

Article

51. **Prioritising the Challenges in Adoption of Robo-Advisors: A Case Analysis from Emerging Economy Context**
Journal of Information and Knowledge Management
Mayank Jindal, et al



Article

52. **Efficient Lung Cancer Identification through Integrated Deep Learning on Residual U-Net Segmented CT Images and Swin Transformer Features**
Journal of Scientific and Industrial Research
Sunil Kumar, et al



Article

53. **Review of Hybrid and Data-Efficient Methods in Medical Image Segmentation**
Archives of Computational Methods in Engineering
Aparna Singh, et al



Article

54. **Synergistic design of NiO/CuO/Co₃O₄ ternary nanocomposite for high-efficiency supercapacitors**

Ionics

Leekeshwer Upadhyay, et al

Article



55. **A comparative study of internal organs of silkworm species (Bombyx mori, Samia ricini, Antheraea mylitta, Antheraea assamensis) using stereo-zoom microscopy**

Zoomorphology

Ranjana Gautam, et al

Article



56. **A REVIEW OF CRISPR-CAS APPLICATIONS IN ENHANCING ABIOTIC STRESS TOLERANCE IN CROP PLANTS**

Genetics and Molecular Research

Rachna Dixit, Vishal Chand, et al

Article

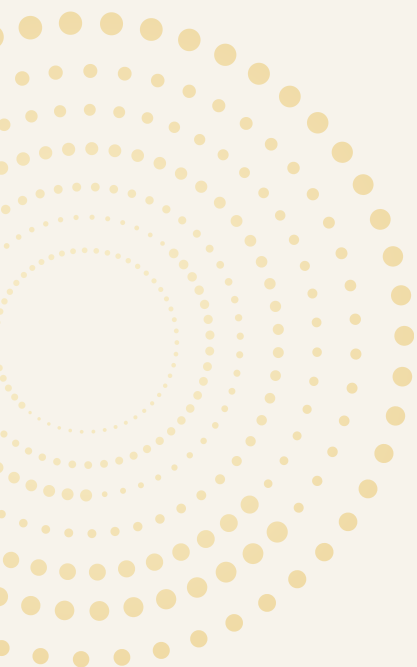


57. **HyCoSwin-PD: An explainable hybrid ConvNeXtV2-Swin transformer framework for Parkinson's disease detection from neuroimaging**

MethodsX

Vishal Awasthi, Mamta Tiwari, Shubhendra Singh, et al

Article



BOOK CHAPTERS

1. Synergistic Effects and Combinations with Alkaloids: Enhanced Therapeutic Potency

Alkaloids From Medicinal Plants and Their Transformative Applications

Shivam Verma, Jay Kumar, Nisha Sharma, Prakash Chandra Gupta, et al



Book Chapter

2. Advantages of targeted nanomedicine in cancer treatment

Two Sides of Nanovaccines and Nanomedicines in Cancer Treatments

Shashi Kiran Misra, et al



Book Chapter

3. Digital justice and the future of family courts: The role of AI in transforming access to justice in India

Humanities and Social Sciences: A Multidisciplinary Approach

Smriti Roy, Shashikant Tripathi, et al



Book Chapter

4. Advancing Smart Cities Through Gamification, Data Security, and Participatory Design: Harnessing Smart Recycling Systems for Sustainable E-Waste Management

Harnessing Smart Recycling for Sustainable E-Waste Management

Vanshika Srivastava, Shivansu Sachan, et al



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5. Investigating Urban Heat Island Effects and Mitigation Strategies in Ahmedabad, India

Urban Book Series

Pradeep Kumar Rajput, Durgesh Singh



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6. Detection of Elusive Polyp Using U-Net for Polyp Segmentation

Studies in Big Data

Alok Kumar, Vineeta Singh, et al



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- 7. Methods for Synthesis of Biologically Active Nanoparticles and Nanomaterials**
Synthesis and Characterization Methods of Nanomaterials based Drug Delivery as Cancer Nanotheranostics
Saurabh Mishra, et al



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- 8. Echoes of Resilience: Synergizing Productivity and Well- Being in the Black Community - A Study on Burnout, Leadership Influence, and Work Culture in the Banking Sector**
Forms of Loss and the Process of Grieving in the Black Community
Shashi Kiran Misra, et al



Book Chapter

- 9. Methods for Stabilization of Active Nanoparticles and Nanomaterials**
Synthesis and Characterization Methods of Nanomaterials based Drug Delivery as Cancer Nanotheranostics
Vishal Chand, Rachna Dixit, Saurabh Mishra, et al



Book Chapter

- 10. Challenges and Classical Strategies for Bacterial Infections**
Diagnosis and Treatment of Bacterial Infections-(Part 1)
Ajay Kumar Yadav, et al



Book Chapter

- 11. Ethics of transparent artificial intelligence in health care**
Explainable AI in Clinical Practice: Methods, Applications, and Implementation
Kalapana Agnihotri, et al



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- 12. The Rise of Agri-Drones: Transforming Food Supply Chains Through Robotics and Smart Devices in Agriculture**
Demystifying Sustainable Farming Using Smart Technologies
Warshi Singh, et al



Book Chapter

13. **Characterization of Active Nanoparticles and Nanomaterials**

Synthesis and Characterization Methods of Nanomaterials based Drug Delivery as Cancer Nanotheranostics

Saurabh Mishra, Vishal Chand, et al

Book Chapter



14. **Workplace disruption and leadership adaptation: navigating the challenges of a dynamic workforce for organizational sustainability**

Organizational Resilience and Leadership issues in the dynamic era

Astha Shukla, et al

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15. **Environmental Carcinogens and Cancer Risk**

Environmental Toxicology and Human Health: Current Challenges and Future Perspectives

Vaishnavi Srivastava, et al

Book Chapter



16. **Isolation, Purification, and Separation Methods for Nanomaterials**

Synthesis and Characterization Methods of Nanomaterials based Drug Delivery as Cancer Nanotheranostics

Saurabh Mishra, et al

Book Chapter



17. **Alkaloids as Antioxidants Implications for Health and Disease Prevention**

Alkaloids From Medicinal Plants and Their Transformative Applications

Shivam Verma, Shweta Singh Verma, Nisha Sharma, Jay Kumar, Prakash Chandra Gupta, et al

Book Chapter



18. **The Impact of AI-Driven Personalization on Consumer Engagement and Loyalty**

Reshaping Business at the Intersection of Neuromarketing and AI

Shivansu Sachan, et al

Book Chapter



19. Applications of Fungi in Wastewater Treatment in Evaluation of Long-Term Bioremediation Projects

Springer Water

Arpana Katiyar, et al

Book Chapter



20. Future and Challenges in Agriculture

Demystifying Sustainable Farming Using Smart Technologies

Warshi Singh, et al

Book Chapter



21. Sustainable E-Waste Management Through Smart Recycling Technologies

Harnessing Smart Recycling for Sustainable E-Waste Management

Shreya Singh, Neha Mishra, Shivansu Sachan, Ashutosh Pathak, Prashant Singh, Shruti Sonker

Book Chapter



22. Artificial intelligence bias and fairness in clinical applications

Explainable AI in Clinical Practice: Methods, Applications, and Implementation

Dheeraj Kumar, et al

Book Chapter



23. Harnessing Smart Recycling Technologies for Sustainable E-Waste Management

Harnessing Smart Recycling for Sustainable E-Waste Management

Astha Shukla, Shivansu Sachan, Vivek Singh Sachan, Minal Saxena, et al

Book Chapter



24. IoT and digital twins enabled smart learning in education

Digital Twins for Sustainable Development

Anand Kumar Mishra, Ravi kant Mishra, et al

Book Chapter



25. **Leveraging Sentiment Analysis to Encounter Mental Health Stigma: Insights, Strategies, and Impact**

Confronting Mental Health Stigma with AI and Machine Learning

Astha Shukla, Vivek Singh Sachan, et al

Book Chapter



26. **Evolution of Climate Finance Research: A Comprehensive Bibliometric Analysis**
Sustainable Development Goals Series

Pravin Kumar Agrawal, Ravi Shukla, Mohit Kumar, et al

Book Chapter



27. **Advancing Sustainability and Innovation in the NonAlcoholic Wine Sector: The Holistic Approaches**

Sustainability and Innovation in the Non-Alcoholic Wine Industry

Aishwarya Arya, Shivansu Sachan

Book Chapter



28. **AI and Data Privacy: Analyzing Ethical Impacts in Secondary Education in India**
Generative AI and Sustainability in Higher Education: Applications, Opportunities, and Challenges

Jigisha Srivastava, Prabhat Kr. Dwivedi, et al

Book Chapter



29. **Introduction to sustainable agricultural waste management**

Sustainable Agricultural Waste Management: Advantages, Challenges, and Further Improvements

Vinod Kumar, et al

Book Chapter



CONFERENCE PAPER

1. A Hybrid Approach for MRI Image Augmentation Using Residual Dense Block-Enhanced Generative Adversarial Network

International Conference on Signal, Systems, and Computing for Next-Gen Automation, ICSSCNA 2026 - Proceedings

Shikha Shukla, Alok Kumar



Conference Paper

2. MHCENN: Multihead Attenuated Neuro-Fuzzy based Deep Learning Model for Cybersecurity in Internet of Things

Proceedings of the 4th International Conference on Intelligent Data Communication Technologies and Internet of Things, IDCIoT 2026

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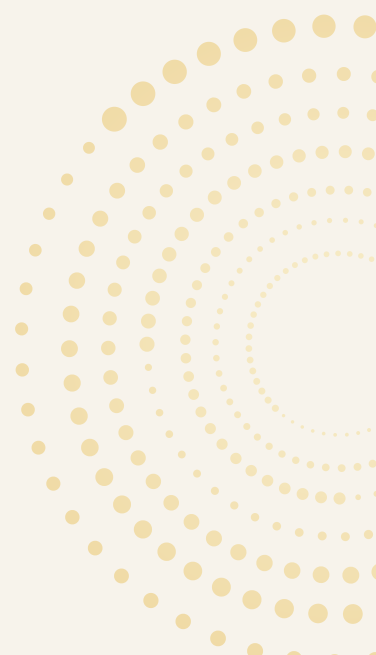


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Neelesh Kumar, Gopal Singh, Pravin Kumar Agrawal, Anil Kumar, Avinash Kumar, Pradeep Kumar Tiwari

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2. Sustainable Management of Renewable Resources: A Nonlinear Mathematical Model of Awareness Programmes With Implementation Delay

Mathematical Methods in the Applied Sciences

Ahana Verma, Maninder Singh Arora, Skand Dwivedi, Jasmeet Kaur,

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3. Prebiotic-driven metabolic diversity of Lactobacillus strains with functional insights for synbiotic applications

Journal of Food Science and Technology

Bhanu Kushwaha, Rakesh Kumar Sharma, et al

Article in Press

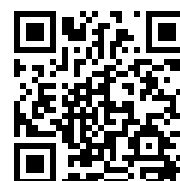


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Vegetos

Vaishnavi Srivastava, Madhulika Sigh

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5. Human resource analytics, ESG integration and sustainable value creation in small business communities

Journal of Enterprising Communities

Vibha Kushwaha et al

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6. **Integrative In Silico and Experimental Analysis Reveals MT1A and HSP70 as Components of a Dual Biomarker Axis for Heavy Metal Exposure**
Biological Trace Element Research
Shikha Singh, Nitin Kumar Singh, Nalini Dwivedi, Dinesh Kumar, Varsha Gupta et al



Article in Press

7. **Exosome-inspired liposomal nanocarriers for precision methotrexate delivery in rheumatoid arthritis**
Journal of Drug Targeting
Praveen Katiyar et al



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Rolee Sharma, et al



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Journal of Optical Communications
Sanjay Singh, Hrishabh Prajapati, et al



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BOOK

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Peptide Hormones in Plant Development and Stress Responses
Samiksha Singh et al



Book



VYASA

(VIDYA, YASH, SCHOLAR ANALYTICS)

CSJMU'S AI-POWERED RESEARCH GOVERNANCE INITIATIVE

Towards AI-Enabled Research Administration and Intelligent Decision Support

The Research & Development Cell, Chhatrapati Shahu Ji Maharaj University (CSJMU), Kanpur has taken a pioneering step towards **AI-enabled Research Governance** with the launch of **VYASA (Vidya, Yash, Scholar Analytics)**—an intelligent Research & Ph.D. Governance Assistant developed under the guidance of **Dr. Namita Tiwari, Dean, Research & Development**.

Named after **Maharishi Ved Vyasa**, the great compiler of knowledge, VYASA symbolizes the University's vision of organizing institutional knowledge into an intelligent digital ecosystem. Just as Ved Vyasa systematized the Vedic knowledge for humanity, VYASA aims to organize the University's research knowledge, policies, regulations, and governance processes into an accessible AI-powered platform.

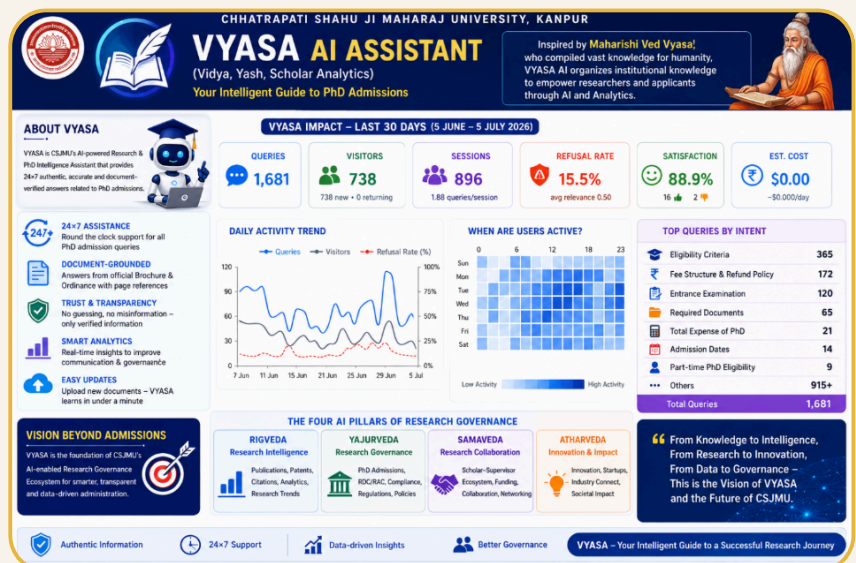
Initially launched as an AI-based **Ph.D. Admission Assistant**, VYASA has already evolved into an intelligent governance platform that supports both applicants and university administrators through authentic, document-grounded responses and real-time analytics. Every answer generated by the system is derived exclusively from the University's official **Ph.D. Admission Brochure** and **Ph.D. Ordinance**, along with source citations and page references, ensuring transparency, authenticity, and institutional trust.

Performance Highlights (30-Day Analytics)

During the recent admission cycle, VYASA demonstrated remarkable adoption and engagement among prospective research scholars.

Platform Usage

- 1,681 AI queries answered
- 738 unique visitors
- 896 user sessions
- Average 1.88 queries per session
- 88.9% positive user satisfaction
- 15.5% refusal rate, helping identify areas requiring future knowledge enhancement
- Zero operational cost for deployment during the reporting period



These statistics clearly indicate that applicants actively relied on VYASA to obtain authentic admission-related information throughout the admission process

Understanding Applicants Through AI Analytics

One of the most significant achievements of VYASA is its ability to convert applicant interactions into **institutional intelligence**. Analysis of user interactions revealed that the majority of applicants sought information regarding:

- Eligibility Criteria
- Fee Structure
- Entrance Examination Pattern
- Required Documents
- Admission Deadlines
- Part-Time Ph.D.
- UGC-NET/JRF Exemption

The analytics dashboard also identified frequently repeated queries and areas where applicants experienced confusion, enabling the University to continuously improve admission guidelines, FAQs, and official notifications.

From Applicant Queries to Governance Insights

Unlike conventional chatbots, VYASA does not merely answer questions. It enables the University to:

- Monitor applicant behaviour in real time.
- Identify information gaps in official documents.
- Analyse frequently asked question
- Improve admission communication strategies
- Support evidence-based administrative decisions.
- Continuously strengthen research governance

Thus, VYASA transforms routine admission enquiries into valuable governance intelligence, helping the University make informed policy and administrative decisions.

Vision 2030: Four AI Pillars of Research Governance

Inspired by the philosophy of **Maharishi Ved Vyasa** and the four Vedas, CSJMU envisions VYASA as the foundation of an integrated **AI-enabled Research Governance Ecosystem** based on four strategic pillars:

Rigveda – Research Intelligence

- Publication analytics, patents, citations, institutional rankings, research trends, and knowledge discovery.

Yajurveda – Research Governance

- Ph.D. admissions, RDC/RAC management, compliance monitoring, research regulations, and policy assistance.

Samaveda – Research Collaboration

- Scholar-supervisor matching, interdisciplinary collaborations, research funding opportunities, and academic networking.

Atharvaveda – Innovation & Impact

- Innovation ecosystem, technology transfer, startups, industry partnerships, and societal impact assessment.

Together, these four pillars will create a comprehensive digital framework for intelligent research administration across the University.

The Road Ahead

The future vision of VYASA extends well beyond admissions. The platform will gradually integrate:

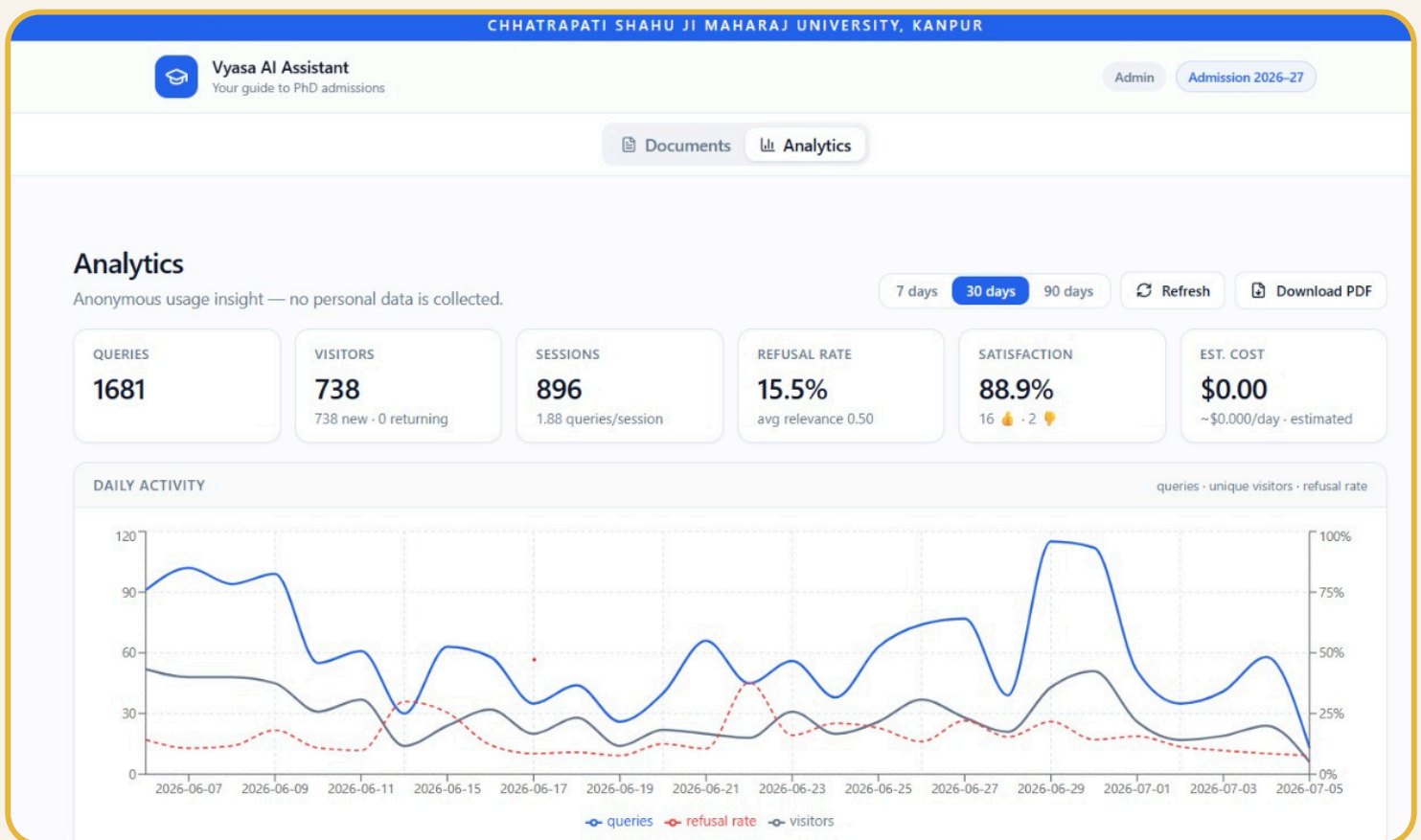
- Research Scholar Lifecycle Management
- Faculty Research Profiles
- Publication & Patent Analytics
- Research Project Monitoring
- AI-powered Policy Assistant
- Institutional Knowledge Repository
- Executive Decision Support Dashboard
- Predictive Research Analytics

This transformation will establish CSJMU as one of India's leading universities in **AI-enabled Research Governance**.

VYASA is not merely an admission chatbot; it is CSJMU's first AI-powered Research Governance Platform that transforms applicant interactions into actionable institutional intelligence.

By combining Artificial Intelligence with authentic institutional knowledge and real-time analytics, VYASA is laying the foundation for a transparent, efficient, data-driven, and future-ready research ecosystem at CSJMU.

"From Knowledge to Intelligence, From Research to Innovation, and From Data to Governance-VYASA represents CSJMU's vision of building an AI-enabled Research University."



RESEARCH AND DEVELOPMENT INSIGHTS

Chhatrapati Shahu Ji Maharaj University. Our scholars are actively exploring diverse fields, contributing valuable knowledge to academia and society.

The Research and Development Cell plays a pivotal role in this journey—providing guidance, resources, and a collaborative environment that empowers researchers to excel. Through continuous support, the University fosters a culture of inquiry, creativity, and impactful research.

Together, we are building a vibrant research ecosystem that not only advances individual expertise but also strengthens the University's vision of academic excellence and societal contribution.

Here is the clip capturing the insights and views of the faculty members and researchers working in various domains .

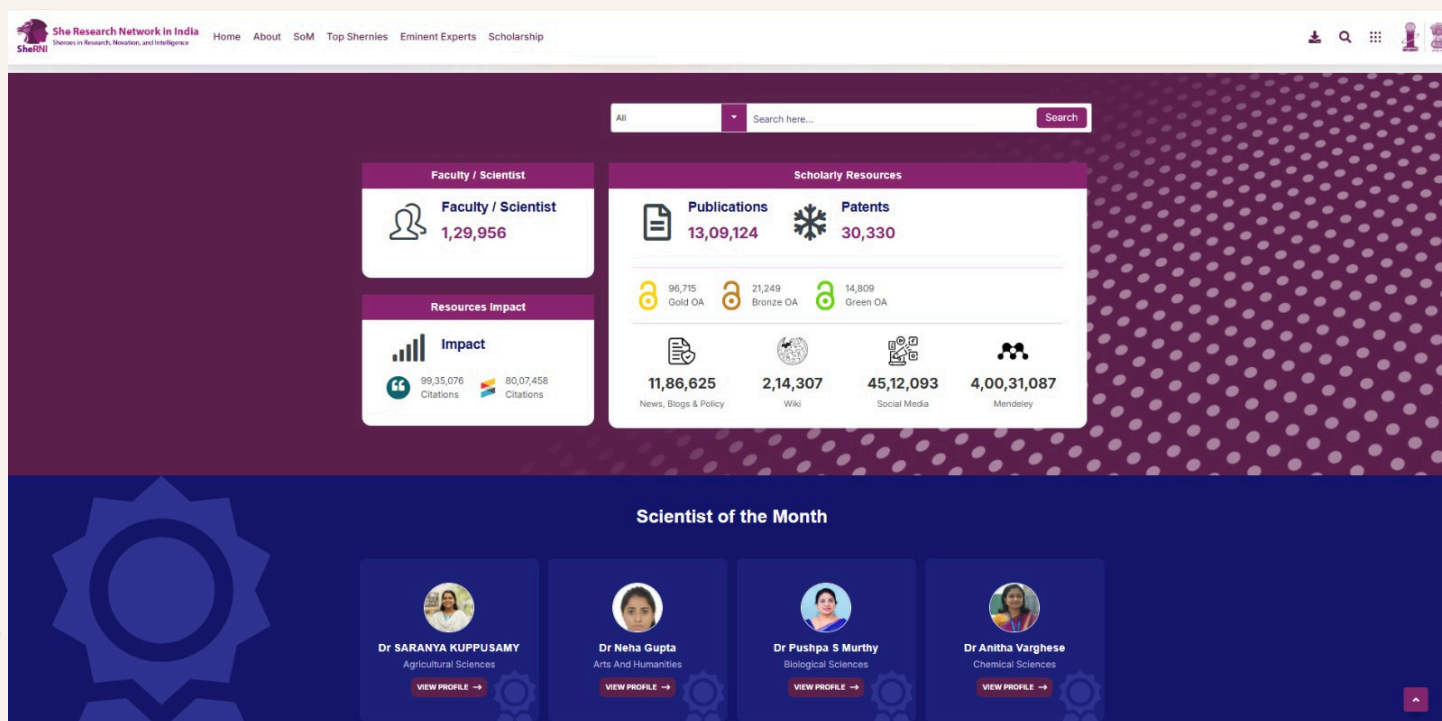


Scan the QR code to know more !

SheRNI

(She Research Network in India)

SheRNI (She Research Network in India) is a national database and expert profile platform launched by the UGC and the INFLIBNET Centre. It connects over 81,000 Indian women scientists and faculty members to boost collaboration, mentorship, and visibility across various academic and research domains. To explore the database, discover experts, or register your own profile, visit the SheRNI Portal.



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