

RESEARCH BULLETIN



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1. INTRODUCTION

Research in any university is vital for advancing knowledge, enhancing education, fostering innovation, and addressing societal challenges. It plays a fundamental role in shaping the future by preparing students, informing policy, and driving economic and social progress. Research at Birla Global University (BGU) drives innovation by developing new technologies, processes, and products. These innovations can lead to the creation of new job opportunities, contributing to economic growth.

As embodied with its Vision and Mission, University is dedicated to drive the agenda of Research and Innovation. The University has a well-defined Research Promotion Policy and Code of Ethics Policy in place to safeguard academic integrity, foster research, and discourage plagiarism. The University has witnessed a steady growth over the last couple of years with 155 Scopus indexed publications along with 596 citations which have witnessed incremental trend. Some faculties have received best paper awards in conferences. Competent Faculty members have been assigned with the responsibility of research guides to cater to 39 research scholars currently registered for Ph.D. programme. The University is also equipped with various research oriented database, subscription of e-resources to cater to the research. The university has created an ecosystem for research, innovation, and entrepreneurship. The university also promoted the Indian Knowledge System and incorporated the Indian Knowledge System as a course in the second semester of all U.G programmes from the academic year 2023 – 24 as per the directions of New Education Policy 2020. The University maintains an established Intellectual Property Rights (IPR) Cell that provides IPR services to all students, researchers, and faculty. The university contains a well-equipped library, moot court, and laboratories. At Birla Global University, we execute diversified research in the fields of computer science, management, social sciences, economics, healthcare, environmental sustainability, and social justice. Current research addresses persistent societal issues, providing evidence-based solutions and influencing public policy.

Research Bulletin is crucial for universities as it serves as a vital platform to disseminate scholarly achievements, advancements, and discoveries within and beyond academic circles. It showcases faculty and student research, highlighting innovative methodologies, impactful findings, and contributions to various fields. By fostering transparency and collaboration, it

enhances the institution's academic reputation, attracts funding opportunities, and promotes interdisciplinary dialogue. Moreover, it informs stakeholders, including students, faculty, alumni, and the broader community, about the university's intellectual contributions, thereby reinforcing its role as a hub of knowledge creation and dissemination in society. The objectives of the Research bulletin are to:

- **Showcase Research Excellence:** Highlighting faculty and student achievements to bolster the institution's academic reputation.
- **Disseminate Knowledge:** Sharing ground breaking findings and innovative methodologies to inform and inspire academic peers and the broader community.
- **Facilitate Collaboration:** Fostering interdisciplinary dialogue and partnerships within and beyond the university.
- **Enhance Visibility:** Promoting the institution's research capabilities and attracting potential collaborators, funding agencies, and talented researchers.
- **Engage Stakeholders:** Providing a platform for students, faculty, alumni, and the public to stay informed about cutting-edge research and its impact on society.

Purpose and scope of the Research Bulletin

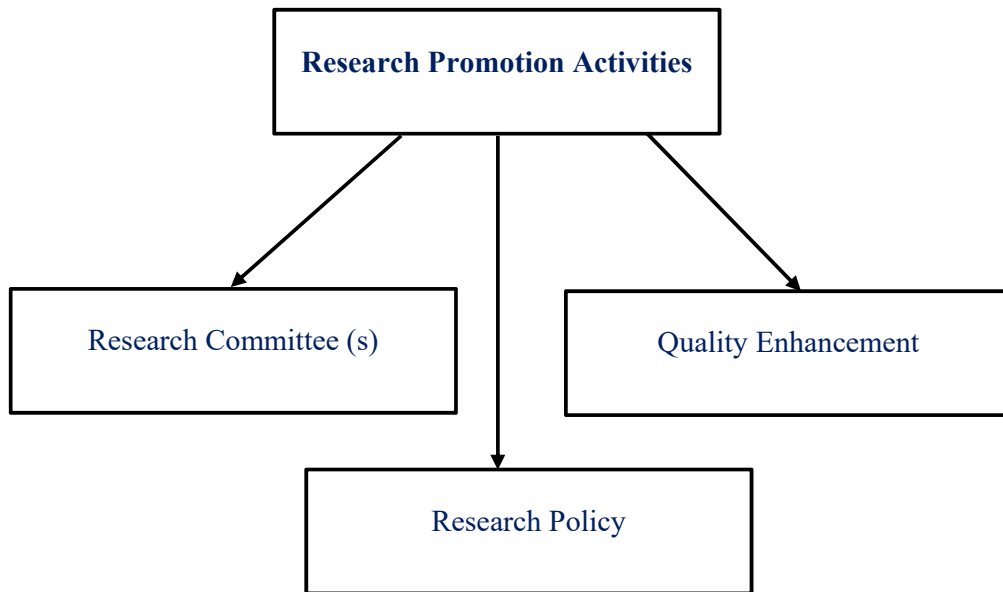
The research bulletin of Birla Global University is a comprehensive and valuable tool for establishing communication and advancement of knowledge across multiple domains by providing a well-rounded view of the research landscape across schools of our university. The purposes of this bulletin are:

- **Informing Policy and Practice:** The Bulletin provides evidence-based insights that can inform decision-making and policy development in various aspects of research.
- **Broadcasting Research Findings:** Bulletin provides a widespread platform for researchers to share their latest findings, and momentous milestones with a wider audience, including peer researchers, policymakers, industry professionals, and the general public.
- **Crafting Awareness:** Bulletin serves as an educational resource for students, educators, and the general public, raising awareness about important research topics and their implications.
- **Boosting collaboration and creating funding opportunities:** Dissemination of research findings and update, bulletins strengthen collaboration among researchers across academia and industry.

- **Highlighting Key Issues:** The research bulletin focuses on current issues and emerging trends to shape the direction of future research and policy.

2. RESEARCH PROMOTION FACILITIES

The following activities are taken by the university to promote research in the university.



Research Promotion Activities of the university

Brief Outline of the activities for the promotion of research at the University

Research Committee	Extramural research Committee	<ul style="list-style-type: none"> • Encouraging faculty fraternity to apply different funded projects from different funding agencies.
	Ph.D. Committee	<ul style="list-style-type: none"> • To govern the Ph.D scholar activities
Research Policy	Policy for Code of Ethics	<ul style="list-style-type: none"> • Curbing Plagiarism via Turnitin • School-level Academic Integrity Panel (SAIP)

		<ul style="list-style-type: none"> • University level Academic Integrity Panel (UAIP) • Penalties in case of plagiarism in submission of thesis and dissertations
	Policy for promotion of research and publication	<ul style="list-style-type: none"> • Fellowship for the Full-Time Doctoral Research Scholars with JRF • Cash prize to faculty members with maximum number of publications • Teaching Relaxation for Research Work • Involvement of faculty in Consultancy Research • Collaborative Research • Reward Points for Doctoral Research Guidance
Quality Enhancement	Key Support Centers for Research	<ul style="list-style-type: none"> • The Centre for Research • The Centre for Innovation and Business Incubation (CIBI) • The Research Evaluation and Award Committee (REAC)
	Embodying Research in Curriculum	<ul style="list-style-type: none"> • Research ethics and IPR in the curriculum • Research-based generic Elective courses • Mandatory Projects in both UG and PG level • Mandatory Plagiarism check in PG and Ph.D

2.1. Research Committee

The University has a distinguished committee to provide adequate support and guidance in extramural research and consultancy. Also a doctoral research committee is in place that keeps a careful eye on the quality of the doctoral research programme.

2.2. Research Policy

1. Introduction

The Birla Global University (BGU) has set its Vision and Mission which recognize the importance of research activities of its faculty and students. Research is one of its priority areas of strategic interventions as per the BGU's Mission no 2, mentioned below. There is a felt need for providing its faculty, doctoral and other students with clear policy guidelines, resources and support systems, cutting edge tools and technology. This policy sets the broad framework for developing research environment within BGU and provides clear directions to faculty for research and publications along with incentive plans.

1.1 The Vision of BGU

To create and disseminate knowledge in global context while pursuing Excellence, Innovations, Inclusiveness and Equity.

1.2 Mission of BGU

- To globalize through international collaborations and exchange of students and faculty
- To strive for excellence in teaching and research.
- To continuously innovate pedagogy and course content.
- To encourage diversity, inclusiveness and equity

1.3 Research Philosophy

The research philosophy of BGU orients faculty and students to be engaged in activities in search for excellence, national and international collaboration and multi- disciplinary approach. It creates an ecosystem where faculty members of all disciplines are engaged in research with or without funding support.

2. Definitions

2.1 Research

An original investigation undertaken in order to contribute knowledge and understanding. It is an independent, creative, cumulative and often long-term activity conducted by faculty, research scholars and students with specialist knowledge about the theories, methods and information concerning their field of enquiry. Its findings must be open to scrutiny and formal evaluation by others in the field, and this may be achieved through publication or public presentation.

2.2 Faculty

All members of academic staff of BGU who have a contractual obligation to carry out teaching and research. Qualified faculty status applies to faculty members who sustain intellectual capital in their fields of teaching, demonstrating currency and relevance of intellectual capital to support the University's mission, expected outcomes, and strategies, including teaching, scholarship, and other mission components. Details of classification of faculty are given in the Appendix-A.

2.3 Intellectual Contributions

The following types of research and publication work will be considered as intellectual contribution of faculty and research scholars of BGU:

- Publications of articles, research/teaching cases in:
 - ✓ Indexed and Peer Reviewed Journals - based on ranked and non-ranked but refereed articles
 - ✓ Case Centers/ Journals
- Publication of Chapters in Text/Edited books
- Writing research working papers- Publicly available for reference
- Editor/Co-Editor/Guest Editor/Member of Editorial Board

2.3.1 Broad Principles of Intellectual Contribution

The faculty and research scholars are expected to make following intellectual contributions:

- **Learning and pedagogical research contributions-** Contribution in terms of preparation of new course material, creation of teaching aids, and new pedagogy which influence the teaching-learning activities of the university
- **Applied Research Contributions** - to practice in the form of publication of articles in practice-oriented journals, and published reports on consulting.
- **Contribution to Basic Research-** Discipline-based scholarly contributions to the theory or knowledge base of the faculty in the form of published research and theoretical innovation.

2.3.2 Academic Impact of Intellectual Contributions

BGU recognizes the value and importance of measurable impact of faculty scholarship and engagement in acquisition and dissemination of knowledge, required for an effective teaching-learning process. In this regard, the following will be considered:

- Quality publications in the indexed and leading peer-review journals.
- Citation counts/Download counts.
- Editorships, guest editorships, associate editorships, editorial board memberships, and/or invitations to act as journal reviewers for recognized, leading peer-review journals.
- Elections or appointments to leadership positions in academic and/or professional associations and societies.
- Recognitions for research (e.g., Best Paper Award), Fellow Status in an academic society, and other recognition by professional and/or academic societies for intellectual contributions.
- Invitations to participate in research conferences, scholarly programs, and/or international, national, or regional research forums.
- Inclusion of academic work in the syllabi of courses on recommendation of other professor(s).

2.3.3 Teaching/Instructional Impact

- Textbooks, teaching manuals, etc., that are widely adopted (by number of editions, number of downloads, number of views, use in teaching, sales volume, etc.)
- Publications that focus on research methods and teaching
- Research-based learning projects with companies, institutions, and/or NGOs
- Case study development (by number of studies developed, number of users, etc.)
- Mentorship of student research reflected in the number of student papers produced
- Documented improvements in learning outcomes that result from teaching innovations

2.3.4 Practice/Community Impact

- Media citations (e.g., number, distribution, and effect)
- Requests from the practice community to utilize faculty expertise
- Publications in practitioner journals
- Consulting reports
- Case studies based on research that has led to solutions to business problems

- Adoption of new practices or operational approaches as a result of faculty scholarship
- Presentations and workshops for business and management professionals
- Tools/methods developed for companies
- Invitations for faculty to serve as experts on policy formulation
- Memberships on boards of directors of corporate and non-profit organizations

3. Key Support Centers for Research

3.1 The Centre for Research

The Center for Research at BGU supports research and the research infrastructure. The primary goal of this Centre is to empower faculty, doctoral students and other researchers to advance the state of knowledge, bringing together theory and practice as defined in the vision and missions statement of the university. It also enables faculty to work with leaders of industry, government, and academia outside the university and to learn from the issues and challenges faced in the different academic disciplines as well as in different societies in the world. Through sustained work in the field, faculty are provided the opportunity to immerse themselves in the culture and values as well as the intricacies and nuances that lead to truly meaningful and insightful research.

3.2 The Centre for Innovation and Business Incubation (CIBI)

CIBI is set up for promotion of action research, innovation and entrepreneurship among the students, faculty and staff of the university.

3.3 The Research Evaluation and Award Committee (REAC)

REAC to be constituted to evaluate the research outcomes of the faculty and research scholars annually and recommend incentive based on the research outcomes with reference to the Performance Evaluation Policy of the university

- The REAC will be led by the Dean (Research) of the university, a post to be created under the direct supervision of the Vice-Chancellor. The heads of the specialized areas of disciplines, to be nominated by the Deans of different schools of BGU, will serve as jury for the ranking of journals in the approved list of journals, including those approved by UGC.
- A faculty member will send a copy of the article published in any approved journal or any other publication to the REAC, the Head of the department and the Dean of the school where she/he is posted.

- In the REAC meeting, a decision will be reached regarding the appropriate classification of the journal/publication or any academic outcome presented for review taking into account the department's recommendation, the strength of that recommendation and comparative standards established by the REAC.

4. Promotion of Research work

4.1 Fellowship for the Full-Time Doctoral Research Scholars with JRF

There will be maximum two full time doctoral research scholars per school offering Ph. D. programme. Each scholar will be awarded fellowship @ Rs. 20,000/- per month for maximum period of three years. For award of fellowship, there will be review of the progress of doctoral research work and intellectual contributions once in every six months for continuation of fellowship.

4.2 Best Researchers Award

The main purpose of this Award is to recognize the outstanding achievements of the faculty of BGU in research and publications. This award will be given annually. The assessment of the proposals for this Award shall be made by the REAC. The name of the faculty will be mentioned in the List of BGU Best Researchers Award recipients displayed on BGU website and at the prominent places of the university (Academic and Admin blocks and Libraries).

4.2.1 Eligibility Criteria:

Any full-time faculty member of BGU who has published at least two articles in the approved journals of the university including one article in any indexed journal during a particular academic year shall be eligible to apply for this award.

4.3 Teaching Relaxation for Research Work

Each faculty can avail 3 months of relaxation from teaching responsibilities in an academic year for undertaking any research work and publication. The faculty member has to take prior permission from the Dean during the annual academic planning for availing such relaxation from teaching in order to ensure that there will be no inconveniences in terms of teaching as per academic requirement in UG, PG and Ph.D. programme(s)

4.4 Involvement of faculty in Consultancy Research

Faculty members shall be free to undertake consultancy research assignments from the international agencies, Central & State Government organizations, public and private sector organizations and NGOs with prior permission of the Dean and the Vice-Chancellor. Such assignments can be undertaken by any individual faculty member or by a group of faculty as per the requirement and research interest of the faculty. They can either source the funding of the research projects themselves or participate in the consultancy research projects undertaken by the university. The revenue generated after meeting all expenses of the project shall be shared between the concerned faculty and the university in the ratio as per the decision of the competent authority.

4.5 Collaborative Research

Faculty members can collaborate with any faculty member(s) of institutions of higher learning, both in India and abroad, for undertaking research projects, publish research papers and books jointly. They may avail special leave as well as financial support, if required, from the university. Such special support shall be provided with special permission of the Vice-Chancellor on recommendation of the REAC.

4.6 Reward Points for Doctoral Research Guidance

Faculty members shall be suitably rewarded with performance scores for their doctoral research guidance as per the norms in the Performance Evaluation System of BGU to be implemented from time to time.

5. Expectation from the Faculty

- Every faculty is expected to conduct research and publish his/her articles in the peer reviewed and indexed journals and publish books using the research data
- Faculty members should, where appropriate, seek research funds (external/internal) in support of their research.
- They should undertake research as an important priority requirement for their academic career. Therefore, they should undertake research and publications activities, well balanced with their obligations of teaching and administrative responsibilities.

6. Amendment of the Policy guidelines

The policy guidelines, stated above, shall be reviewed periodically and any one of more provision(s) made in this policy can be suitably amended, if felt necessary, with the approval of the Vice-Chancellor.

2.3. Policy for Code of Ethics

(Promotion of academic integrity and prevention of plagiarism Regulations-2019)(correction slip no.06 No;. r-49/dt. 26.07.2019; memo no:r-50/dt.26.07.2019)

Ethics and honesty are the two most important components of the academic activities be it teaching or research. Teaching & research is a novel profession based on extremely high moral values. There cannot be any room for claiming the credit for the work he/she has not undertaken. Many times it is observed that some of the "academicians" knowingly or unknowingly publish or present other's work as their own. Such acts will affect healthy academic atmosphere in the institute which will also harm the reputation of the institute as well as the individual.

It is therefore important for an academic institute like Birla Global University to have in place a policy on plagiarism to avoid such type of acts.

Therefore, in exercise of the powers conferred by clause (q) of Section 10 read with clause (c) the University hereby makes the following regulations: -

1. Short title, application and commencement

- a. These regulations shall be called the 'Promotion of Academic Integrity and Prevention of Plagiarism' Regulations, 2019 of Birla Global University prepared in conformity with 'Promotion of Academic. Integrity and Prevention of Plagiarism in Higher Educational Institutions Regulations, 2018 promulgated by the University Grants Commission.
- b. They shall apply to the students, faculty, researchers and all staff of the University and shall come into force from the date of notification by the university.

2. Definitions

In these regulations, unless the context otherwise requires-

- a. "Academic Integrity" is the intellectual honesty in proposing, performing and reporting any activity, which leads to the creation of intellectual property;
- b. "Author" includes a student or a faculty or a researcher or staff of Higher Educational Institution (HEI) who claims to be the creator of the work under consideration;

- c. "Common Knowledge" means a well-known fact, quote, figure or information that is known to most of the people;
- d. "Degree" means any such degree specified by the University Grants Commission, by notification in the Official Gazette, under section 22 of the University Grants Commission Act, 1956;
- e. "School Level Academic Integrity Panel" shall mean the body constituted at the school level to investigate allegations of plagiarism;
- f. "Information" includes data, message, text, images, sound, voice, codes, computer programs, software and databases or microfilm or computer generated microfiche;
- g. "University Level Academic Integrity Panel shall mean the body constituted at University level to consider recommendations of the departmental academic integrity panel and take appropriate decisions in respect of allegations of plagiarism and decide on penalties to be imposed. In exceptional cases, it shall investigate allegations of plagiarism at the institutional level;
- h. "Plagiarism" means the practice of taking someone else's work or idea and passing them as one's own.
- i. "Programme" means a programme of study leading to the award of a masters and research level degree:
- j. "Researcher" refers to a person conducting academic/scientific research in the University.
- k. "Script" includes research paper, thesis, dissertation, chapters in books, full-fledged books and any other similar work, submitted for assessment/opinion leading to the award of master and research level degrees or publication in print or electronic media by students or faculty or researcher or staff of the University; however, this shall exclude assignments/term papers/project reports/course work/essays and answer scripts etc.;
- l. "Source" means the published primary and secondary material from any source whatsoever and includes written information and opinions gained directly from other people, including eminent scholars, public figures and practitioners in any form whatsoever as also data and information in the electronic form be it audio, video, image or text; Information being given the same meaning as defined under Section 2 (1) (v) of the Information Technology Act, 2000 and reproduced here in Regulation 2 (1);
- m. "Staff" refers to all non-teaching staff working in the university in any capacity whatsoever i.e. regular, temporary, contractual, outsourced etc.;

- n. "Student" means a person duly admitted and pursuing a programme of study including a research programme in any mode of study (full time or part-time or distance mode);
- o. "Year" means the academic session in which a proven offence has been committed.

3. Objectives

- 3.1** To create awareness about responsible conduct of research, thesis, dissertation, promotion of academic integrity and prevention of misconduct including plagiarism in academic writing among student, faculty, researcher and staff.
- 3.2** To establish institutional mechanism through education and training to facilitate responsible conduct of research, thesis, dissertation, promotion of academic integrity and deterrence from plagiarism.
- 3.3** To develop systems to detect plagiarism and to set up mechanisms to prevent plagiarism and punish a student, faculty, researcher or staff of the University committing the act of plagiarism.

4. Duties of the University

The University shall establish the mechanism as prescribed in these regulations, to enhance awareness about responsible conduct of research and academic activities, to promote academic integrity and to prevent plagiarism.

5. Awareness Programs and Trainings

- a. The University shall instruct students, faculty, researcher and staff about proper attribution, seeking permission of the author wherever necessary. acknowledgement of source compatible with the needs and specificities of disciplines and in accordance with rules, international conventions and regulations governing the source.
- b. The University shall conduct sensitization seminars/ awareness programs every semester on responsible conduct of research, thesis, dissertation, promotion of academic integrity and ethics in education for students, faculty, researcher and staff.
- c. The University shall;
 - i. Include the cardinal principles of academic integrity in the curricula of Undergraduate (UG)/Postgraduate (PG)/Master's degree etc. as a compulsory course work/module.
 - ii. Include elements of responsible conduct of research and publication ethics as a compulsory course work/module for Masters and Research Scholars.

- iii. Include elements of responsible conduct of research and publication ethics in Orientation and Refresher Courses organized for faculty and staff members of the University
- iv. Train student, faculty, researcher and staff for using plagiarism detection tools and reference management tools.
- v. Establish facility equipped with modern technologies for detection of plagiarism.
- vi. Encourage students, faculty, researchers and staff to register on international Researcher's Registry systems.

6. Curbing Plagiarism

- a. The University declares "Turnitin" software so as to ensure that documents such as thesis, dissertation, publications or any other such documents are free of plagiarism at the time of their submission.
- b. The mechanism as defined at (a) above shall be made accessible to all engaged in research work including student, faculty, researcher and staff etc.
- c. Every student submitting a thesis, dissertation, or any other such documents to the University shall submit an undertaking indicating that the document has been prepared by him or her and that the document is his/her original work and free of any plagiarism.
- d. The undertaking shall include the fact that the document has been duly checked through a Plagiarism detection tool approved by the University
- e. Each supervisor shall submit a certificate indicating that the work done by the researcher under him/her is plagiarism free.
- f. The University shall submit to INFLIBNET soft copies of all Masters, Research program's dissertations and thesis within a month after the award of degrees for hosting in the digital repository under the "*Shodh Ganga e-repository*".
- g. The University shall create Institutional Repository on institute website which shall include dissertation/thesis/paper/publication and other in-house publications.

7. Similarity checks for exclusion from Plagiarism

The similarity checks for plagiarism shall exclude the following:

- I. All quoted work reproduced with all necessary permission and/or attribution.
- II. All references, bibliography, table of content, preface and acknowledgements.
- III. All generic terms, laws, standard symbols and standards equations.

Note:

The research work carried out by the student, faculty, researcher and staff shall be based on original ideas, which shall include abstract, summary, hypothesis, observations, results, conclusions and recommendations only and shall not have any similarities. It shall exclude a common knowledge or coincidental terms, up to fourteen (14) consecutive words.

8. Levels of Plagiarism

Plagiarism would be quantified into following levels in ascending order of severity for the purpose of its definition:

- I. Level 0: Similarities upto 10%-Minor similarities, no penalty
- II. Level 1: Similarities above 10% to 40%
- III. Level 2: Similarities above 40% to 60%
- IV. Level 3: Similarities above 60%

9. Detection/Reporting/Handling of Plagiarism

If any member of the academic community suspects with appropriate proof that a case of plagiarism has happened in any document, he or she shall report it to the 'School level Academic Integrity Panel (SAIP). Upon receipt of such a complaint or allegation the SAIP shall investigate the matter and submit its recommendations to the 'University level Academic Integrity Panel' (UAIP) of the University.

The authorities of the University can also take *suomotu* notice of an act of plagiarism and initiate proceedings under these regulations. Similarly, proceedings can also be initiated by the University on the basis of findings of an examiner. All such cases will be investigated by the UAIP

10. School level Academic Integrity Panel (SAIP)

- I. All Schools of the University shall notify a SAIP whose composition shall be as given below:
 - a. Chairman-Dean of the School
 - b. Member- Senior academician from outside the department, to be nominated by the Vice Chancellor
 - c. Member- A person well versed with anti-plagiarism tools, to be nominated by the Dean of the School.

- II. The tenure of the members in respect of points 'b' and 'c' shall be two years. The quorum for the meetings shall be 2 out of 3 members (including Chairman).
- III. The SAIP shall follow the principles of natural justice while deciding about the allegation of plagiarism against the student, faculty, researcher and staff.
- IV. The SAIP shall have the power to assess the level of plagiarism and recommend penalty(ies) accordingly.
- V. The SAIP after investigation shall submit its report with the recommendation on penalties to be imposed to the UAIP within a period of 45 days from the date of receipt of complaint/initiation of the proceedings.

11. University level Academic Integrity Panel (UAIP)

- I. The University shall notify a UAIP whose composition shall be as given below.
 - a. Chairman- Vice Chancellor of the University.
 - b. Member - Senior Academician other than Chairman, to be nominated by the Vice Chancellor
 - c. Member- One member nominated by the Vice Chancellor from outside the University
 - d. Member- A person well versed with anti-plagiarism tools, to be nominated by the Vice Chancellor of the University.

The Chairman of SAIP and UAIP shall not be the same. The tenure of the Committee members including Chairman shall be three years. The quorum for the meetings shall be 3 out of 4 members (including Chairman).

- II. The UAIP shall consider the recommendations of SAIP.
- III. The UAIP shall also investigate cases of plagiarism as per the provisions mentioned in these regulations.
- IV. The UAIP shall follow the principles of natural justice while deciding about the allegation of plagiarism against the student, faculty, researcher and staff of the University.
- V. The UAIP shall have the power to review the recommendations of SAIP including penalties with due justification.
- VI. The UAIP shall send the report after investigation and the recommendation on penalties to be imposed to the Vice Chancellor within a period of 45 days from the date of receipt of recommendation of SAIP/ complaint/initiation of the proceedings.

- VII. The UAIP shall provide a copy of the report to the person(s) against whom inquiry report is submitted.

12. Penalties

Penalties in the cases of plagiarism shall be imposed on students pursuing studies at the level of Masters and Research programs and on researcher, faculty & staff of the University only after academic misconduct on the part of the individual has been established without doubt, when all avenues of appeal have been exhausted and individual in question has been provided enough opportunity to defend himself or herself in a fair or transparent manner.

12.1 Penalties in case of plagiarism in submission of thesis and dissertations

University level Academic Integrity Panel (UAIP) shall impose penalty considering the severity of the Plagiarism.

- I. **Level 0: Similarities upto 10%** - Minor Similarities, no penalty.
- II. **Level 1: Similarities above 10% to 40%**- Such student shall be asked to submit a revised script within a stipulated time period not exceeding 6 months.
- III. **Level 2: Similarities above 40% to 60%**- Such student shall be debarred from submitting a revised script for a period of one year.
- IV. **Level 3: Similarities above 60%** -Such student registration for that programme shall be cancelled.

Note 1: Penalty on repeated plagiarism-Such student shall be punished for the plagiarism of one level higher than the previous level committed by him/her. In case where plagiarism of highest level is committed then the punishment for the same shall be operative.

Note 2: Penalty in case where the degree/credit has already been obtained - If plagiarism is proved on a date later than the date of award of degree or credit as the case may be then his/her degree or credit shall be put in abeyance for a period recommended by the UAIP and approved by the Vice Chancellor.

12.2 Penalties in case of plagiarism in academic and research publications

- I. Level 0: Similarities up to 10% - Minor similarities, no penalty.
- II. Level 1: Similarities above 10% to 40%
 - i. Shall be asked to withdraw manuscript.
- III. Level 2: Similarities above 40% to 60%

- i. Shall be asked to withdraw manuscript.
 - ii. Shall be denied a right to one annual increment.
 - iii. Shall not be allowed to be a supervisor to any new Master's, M.Phil., Ph.D. Student/Scholar for a period of two years.
- IV. Level 3: Similarities above 60%
 - i. Shall be asked to withdraw manuscript.
 - ii. Shall be denied a right to two successive annual increments.
 - iii. Shall not be allowed to be a supervisor to any new Master's, M.Phil., Ph.D. Student/scholar for a period of three years.

Note 1: Penalty on repeated plagiarism- Shall be asked to withdraw manuscript and shall be punished for the plagiarism of one level higher than the lower level committed by him/her. In case where plagiarism of highest level is committed then the punishment for the same shall be operative. In case level 3 offence is repeated then the disciplinary action including suspension/termination as per service rules shall be taken by the University.

Note 2: Penalty in case where the benefit or credit has already been obtained- If plagiarism is proved on a date later than the date of benefit or credit obtained as the case may be then his/her benefit or credit shall be put in abeyance for a period recommended by UAIP and approved by the Vice Chancellor.

Note 3: The University shall create a mechanism so as to ensure that each of the paper publication/thesis/dissertation by the student, faculty, researcher or staff of the University is checked for plagiarism at the time of forwarding/submission.

Note 4: If there is any complaint of plagiarism against the Authorities at the University level, a suitable action, in line with these regulations, shall be recommended by the UAIP and approved by the Vice Chancellor.

Note 5: If there is any complaint of plagiarism against any member of SAIP or UAIP, then such member shall excuse himself/herself from the meeting(s) where his/her case is being discussed/investigated.

The above regulation has been approved by the Academic Council and shall be effective from the date of notification.

2.4. Research Conclave 2024 @Birla Global University for the Quality Enhancement

Birla Global University organized its 2nd Research Conclave on 27th Feb 2024. This research conclave served as a dynamic platform for the convergence of Technology, Management, Humanities & Social Sciences, Communication and Law. In an era of interdisciplinary collaboration, the conference bridged disciplines with a rich tapestry of discussions, fostering synergies across traditionally distinct fields. The conclave covered the evolving business landscape that revolves around agile methodologies, data-driven decision-making, and sustainable business practices. The interplay of management principles with technological disruptions emerged as a recurrent theme, underscoring the importance of adaptive leadership. The conclave facilitated cross-disciplinary dialogue that encouraged attendees to explore innovative solutions. Panel discussions brought together experts from diverse backgrounds, fostering an environment where technological innovation, effective management, and an understanding of human experiences coalesced. The Conference extended its scope to encompass the realm of Law, acknowledging its pivotal role and exploring the legal implications of emerging technologies, ethical considerations in data governance, and the evolving landscape in Law.

There was a call for papers in this conclave. This interdisciplinary conclave was an invitation to scholars, researchers, and practitioners to contribute to the vibrant discussions spanning Technology, Management, Humanities & Social Sciences, Communication and Law. Authors were invited to submit papers that reflect on the ethical considerations of emerging technologies, highlight adaptive leadership in the face of technological disruptions, and explore the role of culture in organizational dynamics. Most importantly contributions that foster cross-disciplinary dialogue and present innovative solutions at the confluence of Technology, Management, Humanities, and social Sciences were encouraged.

Highlights of the Event:

- i. **Keynote Address by Renowned Scientist:** The event commenced with an inspiring keynote address by a distinguished scientist, shedding light on the current trends, challenges, and opportunities in the field of research.
- ii. **Panel Discussions:** Engaging panel discussions featuring experts from diverse domains provided invaluable insights into various research methodologies, interdisciplinary collaboration, and emerging areas of study.

- iii. **Paper Presentations:** Researchers from across the globe showcased their innovative findings through paper presentations, covering a wide range of topics from artificial intelligence and biotechnology to environmental science and social sciences.
- iv. **Poster Sessions:** Interactive poster sessions offered attendees the opportunity to delve deeper into specific research projects, fostering discussions and networking among participants.
- v. **Workshops and Tutorials:** Practical workshops and tutorials were conducted to equip attendees with the latest tools, techniques, and best practices in research methodology, data analysis, and academic writing.



Releasing Book of Abstract at Research Conclave 2024



Felicitation of guest at Research Conclave 2024



Research Conclave 2024 with the participants and guests

2.5. Seed money provided to the faculty members by the University

University provides financial support to their faculty members in form of ‘Seed Fund’ for attending conferences, capacity building and minor research projects. The followings are the details of the seed money provided to faculties.

SL.No	Name of the faculty recipient of Seed Money	Date of grant	Amount granted (INR in Lakhs)	Project Title
1	Dr. Archana Choudhary	19 April, 2022	0.5 lacs	Crisis-led Innovations among Women led MSMEs in a Pandemic Environment: Insights from Odisha
2	Dr. Manas Kumar Pal	10 May, 2022	0.5 lacs	Sustainable Economic Growth for Sambalpuri Weaver Community

2.6. Faculty Development Programme (FDP) to Promote Research

Birla Global University conducted several faculty development programmes (FDP) to promote research. FDPs have been designed to familiarize faculty members with challenges in higher education in India as brought out in NEP 2020, with a particular focus on innovations in teaching and learning methodology, quality research publications, and, most importantly, how these impact faculty developments. FDPs play a crucial role in nurturing a research-oriented culture in the university, ultimately leading to higher research output and innovation. The list of FDPs conducted are as follows:

SL.No	Name of the FDP	Date of the Event	Faculty	Highlights of the event
1	Teaching, Learning, and Research: In the New Technological Era	26/06/2023 – 01/07/2023	Dr. Pradipta Kumar Sanyal, Associate Professor Finance & Financial Econometrics Dr. Satyakama Mishra, Assistant Professor, Finance and Accounting	Integration of technology to promote interdisciplinary research.
2	AI Tools and Platforms for Teaching and Research	25/06/2024 – 29/06/2024	Dr. Archana Choudhary, Associate Professor, Birla Global University Dr. Gyan Ranjan Mishra, Assistant Professor, Birla Global University	Use of AI-powered platforms for adaptive teaching and research.



FDP on Teaching, Learning, and Research: In the New Technological Era (26th June - 1st July, 2023)



FDP on AI Tools and Platforms for Teaching and Research (25th June – 29th June, 2024)

3. Broad Areas of Research

Birla School of Management

- Leadership Styles
- Post-Colonial & Gender Studies
- Career Management
- Financial computing
- Public Policy & Development
- Sustainable Supply Chain
- Stock Market Volatility
- Fuzzy Optimization
- Services Marketing
- Human Behaviour and Work
- Job Crafting & Meaningful Work
- Capital Market & Accounting Standards
- Emotional Intelligence
- Behavioural Finance
- Corporate Brand Management
- Gen Z & Brand Management
-

Birla School of Applied Sciences

- AI and ML
- Computer Vision
- IoT and Big Data
- Robotics
- Cyber security and Blockchain Management

Birla School Social Science and Humanities

- Rural Consumer Behaviour
- Green Energy and Public Finance
- Bit Coin and Stock Market analysis
- Inflation and Food Inflation

Birla School of Commerce

- Financial Reporting
- Corporate Disclosure
- Stock Market volatility
- Capital Structure
- Banks and Shadow Banks
- Mutual Funds

Birla School of Communication

- Political Communication
- Media Education
- Media Ethics
- Gender Portrayal in films
- Public Relations & Crisis Communication

Birla School of Law

- Environmental Law
- Criminal Law
- Human Rights, Child Rights, Criminology
- Procedural Law (Civil & Criminal)
- Corporate Governance (CSR)
- Mental Health of Prisoners: Legal Perspective
- Holistic and integrative approach to personal and professional development
- Human rights
- Juvenile justice
- Artificial Intelligence

3.1. RESEARCH OUTPUTS

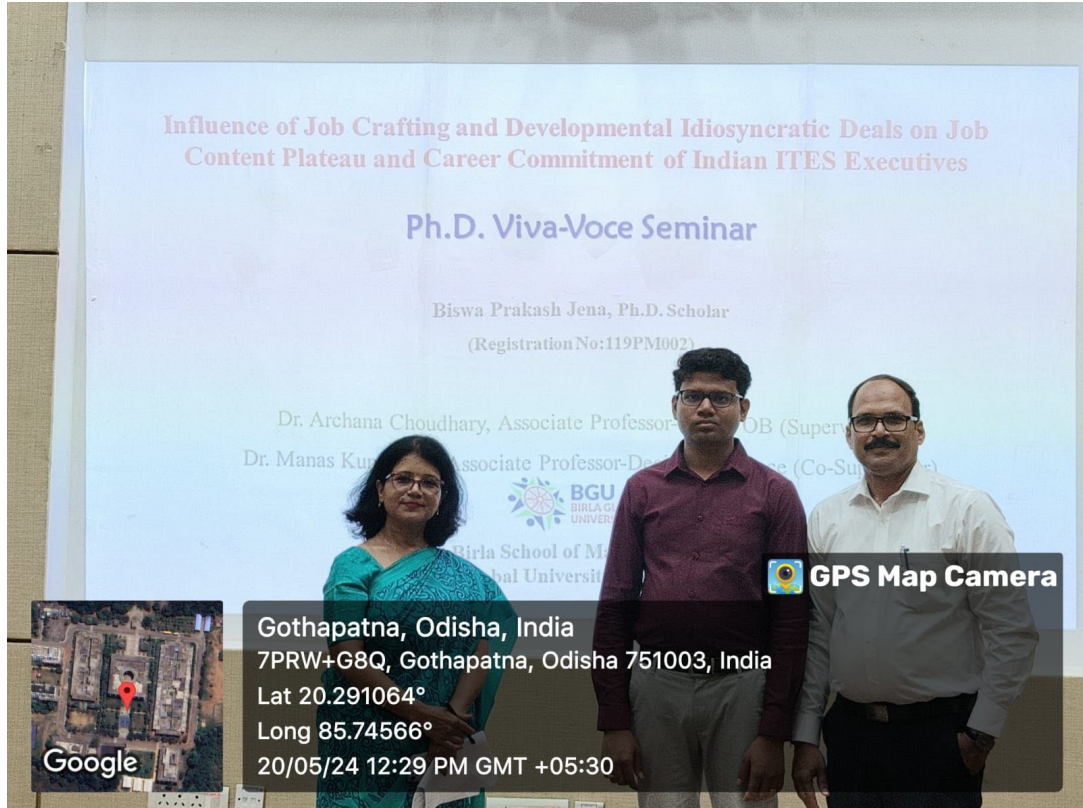
In the last 5 years University has 155 publications in Scopus, WOS, UGC Care database. Research publications have shown an incremental trend in the recent years which shows the positive outcomes of the implemented policies and ecosystem. Faculty members are publishing quality research papers in good journals. Faculty members engage into writing research Papers in collaboration with other Universities which is also beneficial for transfer and sharing of knowledge. Due to the Quality research of faculty, the number of citations is also in incremental order at a total 596 citations.

University Research Outputs:

Number of Ph.D Scholars: 39	Total Number of citations: 596
Number of Scopus Indexed Articles: 155	Patents Published: 9
h index: 12	Innovation Awards Received: 9

3.1.1. Ph.D Scholar Details

Number of Ph.D students registered: 36			Number of students awarded: 3		
Awarded Ph.D. Students					
SL. No	Name of the Ph.D Scholar	Name of the research Supervisor	Thesis Title	Year of Registration	Year of Completion and Award of Ph.D
1	Mr. Biswa Prakash Jena	Dr. Archana Choudhury & Dr. Manas Pal	Impact of AI-driven Product Recommender System on Online Apparel Purchase Intentions	2017	20/05/2024
2	Ms. Priyadarsini Pattnaik	Dr. Parameswar Nayak	Influence of Job Crafting and Developmental Idiosyncratic Deals on Job Content Plateau and Career Commitment of Indian ITES Executives	2018	01/07/2024
3	Ms. Sharanika Dhal	Dr. Snigdha Mohapatra	Role of Different Competencies on the Job Performance of Nursing Professionals Working in Private Hospitals	2018	05/07/2024



Ph.D. Viva-Voce Seminar of Mr. Biswa Prakash Jena held on 20/05/24



Ph.D. Viva-Voce Seminar of Ms. Priyadarsini Patnaik held on 01/07/2024



Ph.D. Viva-Voce Seminar of Ms. Sharanika Dhal held on 05/07/2024

Registered Ph.D. Scholars with recognized guide:

Sl No	Roll Number	Year of Enrolment	School	Name of the Student	Topic	Status
1	P011702001	2017	BSOM	Mr. BISWA PRAKASH JENA	Influence of Job crafting and Developmental idiosyncratic deals on job content plateau and career commitment of Indian executives	AWARDED
2	P011702003	2017	BSOM	Ms. SARMISTHA APAT	Effects of Training on Team Performance of women self help groups in Odisha	SUBMITTED
3	P011705001	2017	BSOM	Mr. ANIL KUMAR BHUYAN	Analysis of Volatile Behaviour of Indian Stock Market: An Intersectoral Study of National Stock Exchange	CONTINUING
4	P011702002	2017	BSOM	Ms. MAGNOLIA SAHU	The Effects of Leadership styles of Owners on Organizational Innovativeness in Small & Medium Scale Enterprises in Odisha	CONTINUING
5	P011802001	2018	BSOM	Mr. DHANANJAYA SARANGI	Role of Emerging ICT Solutions for Smart City Community Development in India	CONTINUING
6	P011802002	2018	BSOM	Ms. SHARANIKA DHAL	A study on the role of different competencies on the job performance of nursing professionals working in the hospitals of Odisha	AWARDED
7	P011802003	2018	BSOM	Ms. PRIYADARSINI PATNAIK	Impact of AI-driven Product Recommender System on Online	AWARDED

8	P011802 004	2018	BSOM	Ms. IPSITA DASH	Influence of Emotional Intelligence on Entrepreneurial Intension of Management Students: A Study in Odisha	CONTINUING
9	P011902 001	2019	BSOM	Mr. DEBKUMAR CHATTOPADHYAY	Impact of employer branding in enhancing employee retention: a study in private banks in Odisha	CONTINUING
10	P011902 004	2019	BSOM	Mr. CHARLES ABEL KADIKILO	Research Promotion in Tanzanian Higher Education Institutions	PRE- SYNOPSIS COMPLETED
11	P011902 003	2019	BSOM	Mr. V N SREEDHAR	Inter Role Conflict and Wellbeing Among Earning Couples in Major Indian Cities	SUBMITTED
12	P011903 001	2019	BSOM	Mr. ANJAN KUMAR SAHOO	Users Intention Towards Adoption of Digital Health Consultation: A Study in Urban India	PRE- SYNOPSIS COMPLETED
13	P011904 001	2019	BSOM	Mr. ABDUL KAWINGA ABDULRAHMAN	The Impact of tax reforms on HDI: A comparative study of India and Tanzania	CONTINUING
14	P011905 002	2019	BSOM	Mr. TRILOCHAN JENA	Impact of Mergers and Acquisitions on stock return and shareholders wealth: A study on post liberalisation period in India.	CONTINUING
15	P012001 001	2020	BSOM	TANVEE SHREYA	The impact of interactive online communication on public relations outcomes.	CONTINUING
16	P012001 002	2020	BSOM	KASHISH MOTIWALA	Role of business communication in perception handling to promote dynamic sales management	CONTINUING
17	P012002 001	2020	BSOM	GOUTAM DAS	Impact of Corporate Governance on Performance of Navaratna Central Public Sector Enterprises of India	CONTINUING

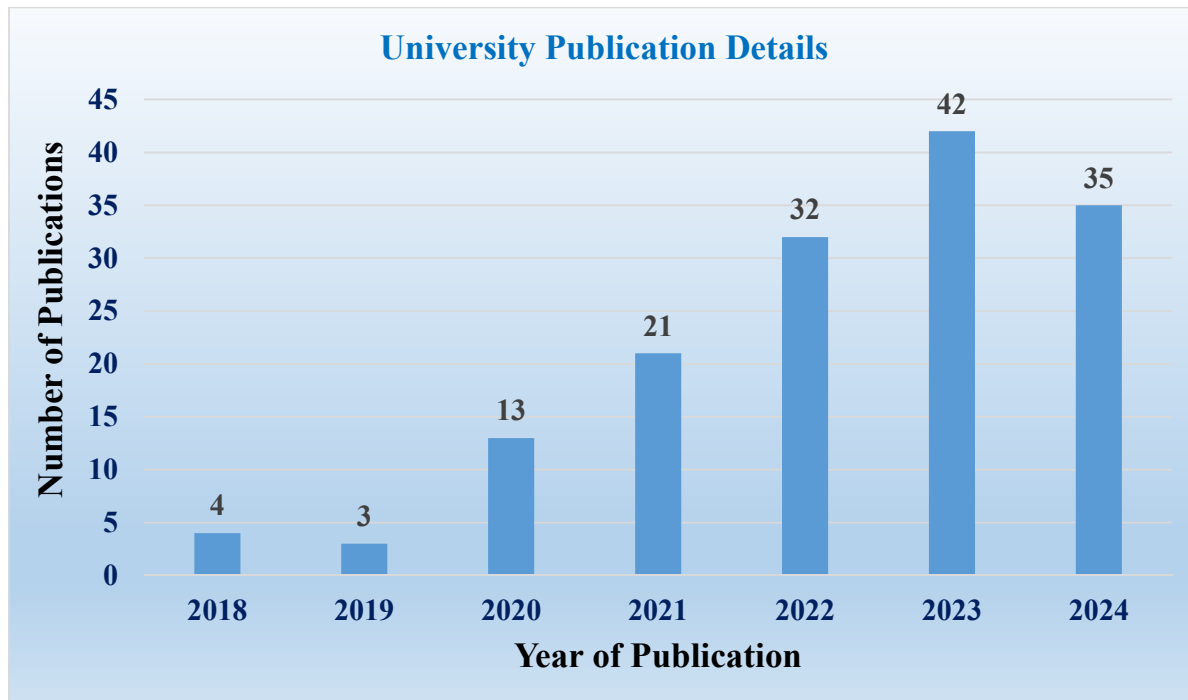
18	P012002 002	2020	BSOM	ANUP KUMAR MISHRA	Enhancing Performane of Employee Throgh Capacity Building: A study of NHM Odisha	CONTINUING
19	P012002 003	2020	BSOM	PRIYADARSHINI PANDA	The Relationship between Workplace Spirituality and Job Involvement: Mediating Role of Psychological Capital in Employees of Healthcare Sector in India	CONTINUING
20	P012002 004	2020	BSOM	SUBRAT CHOUDHURY	Galatea effect on Goal Orientation Resilience & Mindfulness among Healthcare Employees at in Odisha	CONTINUING
21	P012003 001	2020	BSOM	JINASIS MOHANTY	Digital Learning Experience Quality in Massive Open Online Courses (MOOCs): A Study in India	CONTINUING
22	P012003 002	2020	BSOM	PAPIA RAHMAN	A Study on the Impact of Insurance-Seeking Behavior on the Well-Being of Health Insurance Prospects in Rural Divisions of Bangladesh	CONTINUING
23	P012005 001	2020	BSOM	SHAISTA TASNIM	Application of Soft Computing for Comparative Evaluation, Trend and Spill over Effects of Exchange Traded Funds (ETFs)	CONTINUING
24	P012005 003	2020	BSOM	LAVANYA SURESH	Impact of Currency Derivative on Exchange Rate Volatility: A Study on National Stock Exchange and Bombay Stock Exchange	CONTINUING
25	P012005 004	2020	BSOM	ASHUTOSH RATH SHARMA	Leveraging Effect in Capital Structure of Indian Firms Using Bonds - An Empirical Analysis on National Stock Exchange	CONTINUING
26	P012005 006	2020	BSOM	ANANYA MOHANTY	Risk Management in Commodity Derivative Trading- An Econometrics Analysis of MCX and NCDEX	CONTINUING

27	P042001 001	2020	BSOE	SAMYAK SARANGI	Impact of Natural Resource Consumption and Environmental Pollution on Economic Growth: A Study on Asian Economies Perspective	CONTINUING
28	P012102 001	2021	BSOM	BRATINI SHOME	Role of Employee Voice in Organisational Commitment: Mediating Role of Trust and Employee Engagement in Hotel Industry in West Bengal	CONTINUING
29	P012103 001	2021	BSOM	DIBYA OMM MOHANTY	A Study on the Effect of Technology Acceptance on Customer Intention and Actual Purchase of Electric Vehicles in India.	CONTINUING
30	P032101 001	2021	BSOM	SUBHASHMITA NAYAK	Impact of Political Stability, Governance, and Macroeconomic Determinants on Foreign Direct Investment in the SAARC Nations	CONTINUING
31	P052101 001	2021	BSOL	RAHUL KUMAR DAS	An Analysis on Impact of Laws Relating to Resolution of Stressed Assets with Special Reference to Odisha	CONTINUING
32	P052101 002	2021	BSOL	DEBASIS SUNDARAY	E Court Mission Mode Project Vis -A -Vis Fundamental Right of Speedy Justice - A Critical Analysis	CONTINUING
33	P052101 003	2021	BSOL	DEEPAK KUMAR SAHOO	An Analytical Study of Right to Education under the Indian Constitution with Special Reference to Odisha	CONTINUING
34	P052101 004	2021	BSOL	SIDHARTH PARIDA	A Critical Analysis on Jurisdiction Issue in Cyber Space with Special Reference to Cyber-Crime in India	CONTINUING

35	22DP001	2022	BSOC	SAMBIT MISHRA	Consumption Pattern of Odia OTT Platforms In Odisha: An Empirical Study by Applying Gratification Theory Approach to Examine the Youth's Indulgence	CONTINUING
36	22DP003	2022	BSOC	SHEETAL PURNIMA	Public Relations Practices of the State Government of Odisha and Its Impact on Citizenry: An Evaluative Study	CONTINUING
37	22DP002	2022	BSOC	SAMANTA BISWABHUSHAN DHIR	An Impact Study of ICT on Adopting Modern Agricultural Practices Among the Paddy Farmers of Odisha	CONTINUING
38	22DP004	2022	BSOM	SAROJ KANTA JENA	Tentative: Credit Analysis Using Data Mining Techniques for Understanding Consumer Perception	CONTINUING
39	22DP005	2022	BSOL	PRACHI LALIT MISHRA	Tentative: IPR and Startups	CONTINUING

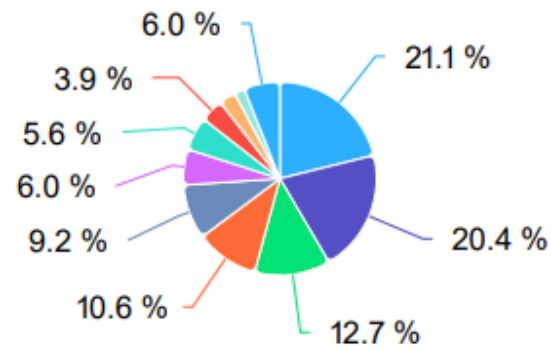
3.1.2. Publication Details

The University has 155 publications in Scopus, WOS, UGC Care database till 30th June 2024.



Publication details of the University

Subject Trends of published Scopus indexed articles across different domains



- Business, Management and Accounting
- Computer Science
- Social Sciences
- Economics, Econometrics and Finance
- Engineering
- Decision Sciences
- Mathematics
- Medicine
- Energy
- Environmental Science
- Other

Subject-wise trends of Publications

Research Articles Published up to 2024 (Scopus Indexed)

Sl. No.	Author(s) Name	Title of the Article	Year	Name of the Journal	Volume (Issue)	Issue	DOI	Publisher	ISSN	ISBN	Document Type
1	Shettigar J., Misra P., Sanyal P.K., Kawinga A.	The impact of tax reforms on human development index: Literature review approach	2024	International Journal of Social Welfare	33	3	10.1111/ijsw.12629	John Wiley and Sons Inc	13696866		Review
2	Mishra A., Dash A.K.	Return volatility of Asian stock exchanges; a GARCH DCC analysis with reference of Bitcoin and global crude oil price movement	2024	Journal of Chinese Economic and Foreign Trade Studies	17	1	10.1108/JCEFTS-01-2024-0009	Emerald Publishing	17544408		Article
3	Rambabu K., Saravanan K., Misra S., Patil S.R., Rao M.S., Mishra N., Chaudhari N.C.	Internet of Things Driven Rule Based Management Model for Heterogeneous Environment	2024	SN Computer Science	5	5	10.1007/s42979-024-02903-4	Springer	2662995X		Article
4	Mishra V.	Promoting healthy lifestyle by influencing consumers' online food choices: The use of digital nudging	2024	Digital Influence on Consumer Habits: Marketing Challenges and Opportunities			10.1108/978-1-80455-342-820241011	Emerald Publishing		9781804553428; 9781804553435	Book Chapter
5	Sahoo R., Sahoo C.K.	Bolstering employee relations in a public sector undertaking: validation of CODE and PLE model	2024	International Journal of Conflict Management	35	3	10.1108/IJCMA-06-2023-0105	Emerald Publishing	10444068		Article

6	Choudhary A., Jena B.P., Patre S.	Unveiling the veil of workplace Loneliness: A Theory-Concept-Methodology (TCM) framework	2024	Psychology Hub	41	1	10.13133/2724-2943/17820	Sapienza Universita Editrice	2723973X		Article
7	Mohanty S., Sahoo S.K., Sharma I., Panigrahi A., Bosu L.	A study on overcoming cognitive biases in leadership decision-making	2024	Building Organizational Resilience With Neuroleadership			10.4018/979-8-3693-1785-3.ch011	IGI Global		9798369317860; 9798369317853	Book Chapter
8	Baid C., Baid D., Bhuyan A.K.	Exploring Organizational Performance: A Multidimensional Construct	2024	Prabandhan: Indian Journal of Management	17	4	10.17010/pijom/2024/v17i4/173426	Associated Management Consultants Pvt. Ltd.	9752854		Article
9	Goyal A., Mishra U.S., Mishra S., Ray M.	Effect of Strategic Orientation on Firm Performance: A Mediation Analysis	2024	Prabandhan: Indian Journal of Management	17	4	10.17010/pijom/2024/v17i4/173428	Associated Management Consultants Pvt. Ltd.	9752854		Article
10	Behera D.K., Rahut D.B., Padmaja M., Dash A.K.	Socioeconomic determinants of happiness: Empirical evidence from developed and developing countries	2024	Journal of Behavioral and Experimental Economics	109		10.1016/j.jsocec.2024.102187	Elsevier Inc.	22148043		Article
11	Chen Y., Sharma A.	How much does climate-related risk impact stock and commodity markets: A comparative study of the US and China	2024	Finance Research Letters	62		10.1016/j.frl.2024.105134	Elsevier Ltd	15446123		Article

12	Sreedhar V.N., Nayak P.	Perspective study on identification of high-impact processes for advancing Diversity, Equity and Inclusion (DEI) in Indian organizations	2024	Human Systems Management	43	2	10.3233/HSM-220143	IOS Press BV	1672533		Article
13	Verma N., Patra P.K., Sharma R., Polke N., Rawal P., Waghmare G.	Gaining new insights into consumer behavior through operations management in supply chains	2024	Utilization of AI Technology in Supply Chain Management			10.4018/979-8-3693-3593-2.ch018	IGI Global		9798369335949; 9798369335932	Book Chapter
14	Ratakonda D.T., Dash A.K., Mishra A.	Farmers' Perception and Adaptation Strategies Towards Climate Change: A Village Level Study in India	2024	Nature Environment and Pollution Technology	23	1	10.46488/NEPT.2024.v23i01.029	Technoscience Publications	9726268		Article
15	Srividya N., Atiq R., Volety N.S.	Qualitative research on responsible consumption concerning apparel	2024	Cleaner and Responsible Consumption	12		10.1016/j.clrc.2024.100178	Elsevier Ltd	26667843		Article
16	Muduli A., Verma S., Choudhary A., Singh U.	High-performance human resource practices in Indian banks: an examination from the institutional perspective	2024	Journal of Financial Services Marketing	29	1	10.1057/s41264-022-00193-6	Palgrave Macmillan	13630539		Article
17	Joshi M.P., Pandit D., Tiwari S.R., Choudhary A.	Entrepreneurship education and entrepreneurial communities in India: does gender really play a role?	2024	Journal of Enterprising Communities	18	2	10.1108/JEC-10-2022-0145	Emerald Publishing	17506204		Article
18	Bisoyi B., Mishra V., Das B., Satpathy I.	Role of E-Business Driven OTT Platforms in Influencing Consumer's Intention to Cut the Cable Cord	2024	Management and Labour Studies	49	1	10.1177/0258042X231179580	Sage Publications India Pvt. Ltd	0258042X		Article

19	Jena T., Sanyal P.K., Sreekumar	Impact of mergers and acquisitions on shareholder wealth in indian banks: A data envelopment analysis approach	2024	Data Envelopment Analysis (DEA) Methods for Maximizing Efficiency			10.4018/979-8-3693-0255-2.ch014	IGI Global		9798369302576; 9798369302552	Book Chapter
20	Khan M.Z., Kumar A., Liu Y., Gupta P., Sharma D.	Modeling enablers of agile and sustainable sourcing networks in a supply chain: A case of the plastic industry	2024	Journal of Cleaner Production	435		10.1016/j.jclepro.2023.140522	Elsevier Ltd	9596526		Article
21	Singha A.K., Jena M., Zubair S., Tiwari P.K., Bhadauria A.P.S.	Deep Neural Networks Performance Comparison for Handwritten Text Recognition	2024	Lecture Notes in Networks and Systems	915		10.1007/978-981-97-0700-3_42	Springer Science and Business Media Deutschland GmbH	23673370	9.78982E+12	Conference Paper
22	Mohapatra S., Choudhary A.	Hiring process and contemporary methods: an empirical insight using Grey relational analysis	2024	International Journal of Productivity and Quality Management	42	1	10.1504/IJPQM.2024.138184	Inderscience Publishers	17466474		Article
23	Jena B.P., Choudhary A., Pal M.K., Misra S.	Job content plateau and career commitment: the mediating role of developmental i-deals and the moderating role of proactive personality	2024	Evidence-based HRM			10.1108/EBHRM-07-2022-0163	Emerald Publishing	20493983		Article
24	Kadikilo A.C., Nayak P., Sahay A.	Barriers to research productivity of academics in Tanzania higher education institutions: the need for policy interventions	2024	Cogent Education	11	1	10.1080/2331186X.2024.2351285	Taylor and Francis Ltd.	2331186X		Article

25	Gupta P., Sachan A., Mishra V.	Perceived service process in e-service delivery system: B2C online retailers performance ranking by TOPSIS	2024	International Journal of Services, Technology and Management	29	1	10.1504/IJSTM.2024.138237	Inderscience Publishers	14606720		Article
26	Rath S.K., Sahu M., Das S.P.	IoT and Machine Learning Applications for Industrial Reliability Frameworks	2024	Intelligent Decision Support System for IoT-Enabling Technologies: Opportunities, Challenges and Applications				Nova Science Publishers, Inc.		9798891133334; 9798891132498	Book Chapter
27	Jena S., Balabantaray B.K., Nayak R.	Large Age Gap Face Verification by Learning GAN Synthesized Prototype Representations	2024	International Conference on Pattern Recognition Applications and Methods	1		10.5220/0012398800003654	Science and Technology Publications, Lda	21844313	9.7899E+12	Conference Paper
28	Mishra L., Mishra R.K., Swain B., Misra S.	Evolution of Bikalananda Kar Rasagola: a palatable process	2024	International Journal of Process Management and Benchmarking	17	1	10.1504/IJPMB.2024.137791	Inderscience Publishers	14606739		Article
29	Gupta P., Mishra V., Rana S.	An exploratory study of the impact of perceived fake news on brand attachment: mediating role of brand trust and consumer-brand identification	2024	International Journal of Technological Learning, Innovation and Development	15	3	10.1504/IJTLID.2024.137485	Inderscience Publishers	17531942		Article

30	Pattnaik M., Mishra A., Pattnaik A., Pattnaik A.	Machine Learning for Supply Chain Management in Industrial 4.0 Era: A Bibliometric Analytics	2024	Sustainability in Industry 5.0: Theory and Applications			10.1201/ 9781032 686363-4	CRC Press		978100384 5164; 978103258 2016	Book Chapter
31	Apat S., Mohapatra S.	Process for empowering rural women: finding a path to benchmark capacity building initiatives	2024	International Journal of Process Management and Benchmarking	16	1	10.1504/I JPMB.20 24.13575 8	Inderscience Publishers	14606739		Article
32	Banerjee P., Nayak R.	Recommendations on Financial Models for Stock Price Prediction	2024	SN Computer Science	5	1	10.1007/s 42979- 023- 02507-4	Springer	2662995X		Article
33	Sharma P., Nayak D.R., Balabantaray B.K., Tanveer M., Nayak R.	A survey on cancer detection via convolutional neural networks: Current challenges and future directions	2024	Neural Networks	169		10.1016/j .neunet.2 023.11.0 06				
34	Mishra S., Suman S., Nandi A., Bhaktisudha S., Sahoo K.S.	Smart Skin-Proto: A Mobile Skin Disorders Recognizer Model	2024	Lecture Notes in Networks and Systems	728 LNNS		10.1007/ 978-981- 99-3932- 9_11	Springer Science and Business Media Deutschlan d GmbH	23673370	9.78982E+ 12	Conference Paper
35	Kabra S., Dass S.	Licious's Response to the COVID-19 Pandemic: A Step Towards Crisis Communication?	2024	FIIB Business Review	13	1	10.1177/ 2319714 5221081 916	Sage Publication s India Pvt. Ltd	23197145		Article

36	Tripathy M., Tripathy S., Mishra I.	Exploring Wellbeing through Job Crafting and Meaningful Work to Promote Sustainability in the Backdrop of Indian Ancient Wisdom	2023	Purushartha	16	1	10.21844/16202116108	School of Management Sciences	0975024X		Article
37	Mishra A., Sakuja V.	Return volatility transmission among Asian stock exchanges: Evidence from a heterogeneous market outlook	2023	Risk and Decision Analysis	9	02-Apr	10.3233/RDA-231537	IOS Press BV	15697371		Article
38	Kamboj N., Choudhary V., Trivedi S.	Impact of macroeconomic determinants and corporate attributes on firms' financial success in India	2023	Sustainability, Green Management, and Performance of SMEs			10.1515/97831117170022-005	De Gruyter		9783111170022; 9783111169323	Book Chapter
39	Kadikilo A.C., Kulshrestha R., Sahay A., Nayak P.	Research promotion strategies to enhance research productivity in Tanzanian higher educational institutions	2023	Review of Education	11	3	10.1002/rev3.3436	John Wiley and Sons Inc	20496613		Article
40	Dash A., Sahoo A.K.	Physician's perception of E-consultation adoption amid of COVID-19 pandemic	2023	VINE Journal of Information and Knowledge Management Systems	53	6	10.1108/VJKMS-06-2021-0103	Emerald Publishing	20595891		Article
41	Vadigi S., Sethi K., Mohanty D., Das S.P., Bera P.	Federated reinforcement learning based intrusion detection system using dynamic attention mechanism	2023	Journal of Information Security and Applications	78		10.1016/j.jisa.2023.103608	Elsevier Ltd	22142134		Article

42	Trivedi S., Sugathan S.	The influence of gender on the investment decisions of investors: Addressing SDG 5	2023	Innovations and Sustainability in Society 5.0				Nova Science Publishers, Inc.		979889113 1866; 979889113 0661	Book Chapter
43	Choudhary V., Trivedi S., Kamboj N.	A review of studies on ESG (Environmental social and governance) investment: A content analysis	2023	Innovations and Sustainability in Society 5.0				Nova Science Publishers, Inc.		979889113 1866; 979889113 0661	Book Chapter
44	Trivedi S., Aggarwal R., Sharma S.	Preface	2023	Innovations and Sustainability in Society 5.0				Nova Science Publishers, Inc.		979889113 1866; 979889113 0661	Editorial
45	Trivedi S.	Blockchain technology and structural change in financial services	2023	The Application of Emerging Technology and Blockchain in the Insurance Industry				River Publishers		978877004 0051; 978877004 0068	Book Chapter
46	Galgal K.N., Ray M., Moharana B.R., Behera B.C., Muduli K.	Quality control in the era of iot and automation in the context of developing nations	2023	Smart Technologies for Improved Performance of Manufacturing Systems and Services			10.1201/ 9781003 346623-3	CRC Press		978100095 9130; 978103238 6898	Book Chapter

47	Das P., Arya A.	Mapping the governance of seafarers' legal rights in the realm of autonomous shipping	2023	Maritime Law Perspectives Old and New	2			Nova Science Publishers, Inc.		9798886979381; 9798886977783	Book Chapter
48	Ray A., Jana S., Rana N.P.	An NLP-based Mixed-method Approach to Explore the Impact of Gratifications and Emotions on the Acceptance of Amazon Go	2023	Asia Pacific Journal of Information Systems	33	3	10.14329/apjis.2023.33.3.541	Korean Society of Management Information Systems	22885404		Article
49	Ramkumar G., Misra S., Babu G.R., Gottimukkala A.R., Siddi S., Kumar J.S.	Optimization of Flexible Manufacturing Production Line System Based on Digital Twin	2023	SN Computer Science	4	5	10.1007/s42979-023-01978-9	Springer	2662995X		Article
50	Ray A., Sarangi P., Purohit B., Dash S.R.	Three Language Formula in National Education Policy, 2020 of India: From the Stakeholder's Perspectives	2023	Journal of Higher Education Theory and Practice	23	13	10.33423/jhetp.v23i13.6369	North American Business Press	21583595		Article
51	Trivedi S.	Convention of blockchain in financial services: A state-of-the-art literature review	2023	Revolutionizing Financial Services and Markets Through FinTech and Blockchain			10.4018/978-1-6684-8624-5.ch015	IGI Global		9781668486269; 1668486245; 9781668486245	Book Chapter

52	Mishra D., Muduli K., Sevcik L., Jana S.K., Ray M.	Combating of Associated Issues for Sustainable Agri- Food Sectors	2023	Sustainability (Switzerland)	15	13	10.3390/s u151310 096	Multidiscip linary Digital Publishing Institute (MDPI)	20711050		Article
53	Mishra A., Alavi S.	Green energy, carbon emission and economic prosperity; an evidence of global perspective	2023	International Journal of Energy Sector Management	17	4	10.1108/I JESM- 02-2022- 0006	Emerald Publishing	17506220		Article
54	Prakash Garg C., Görçün Ö.F., Kundu P., Küçükönder H.	An integrated fuzzy MCDM approach based on Bonferroni functions for selection and evaluation of industrial robots for the automobile manufacturing industry	2023	Expert Systems with Applications	213		10.1016/j .eswa.20 22.11886 3	Elsevier Ltd	9574174		Article
55	Rath S.K., Sahu M.K., Das S.P.	Applications of machine learning in industrial reliability model	2023	Handbook of Research on Applications of AI, Digital Twin, and Internet of Things for Sustainable Development			10.4018/ 978-1- 6684- 6821- 0.ch003	IGI Global		978166846 8234; 166846821 2; 978166846 8210	Book Chapter
56	Padmaja M., Behera D.K.	Disruptions in Accessing Women's Health Care Services: Evidence Using COVID-19 Health Services Disruption Survey	2023	Maternal and Child Health Journal	27	2	10.1007/s 10995- 022- 03585-1	Springer	10927875		Article
57	Sharma D., Mishra A.	Estimations of the Sacrifice Ratio Through Dual Regimes: An Evidence from Indian Perspective	2023	Journal of International Commerce,	14	1	10.1142/ S179399 3323500 060	World Scientific	17939933		Article

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58	Gupta P., Anand A., Singh J., Rana S., Kumar A.	Study on artificial intelligence (AI) initiatives in e-service delivery systems: a service process perception model	2023	International Journal of Services Operations and Informatics	12	4	10.1504/IJSOI.2023.137471	Inderscience Publishers	1741539X		Article
59	Banerjee P., Nayak R.	Recommendations on Financial Models for Stock Market Prediction using ARIMA and LSTM	2023	OCIT 2023 - 21st International Conference on Information Technology, Proceedings			10.1109/OCIT59427.2023.10430673	Institute of Electrical and Electronics Engineers Inc.		9.79835E+12	Conference Paper
60	Chintaluri M.G., Bala Subramanian R., Choudhary A.	Team Member's Promotion: Injustice or Promotion in Haste?	2023	Asian Journal of Management Cases			10.1177/09728201231189949	Sage Publications India Pvt. Ltd	9728201		Article
61	Subramanian B.R., Choudhary A.	Does organizational size influence the service quality of government hospitals?	2023	Organizatsionnaya Psikhologiya	13	3	10.17323/2312-5942-2023-13-3-120-130	National Research University, Higher School of Economics	23125942		Article

62	Prakash Jena B., Choudhary A., Misra S., Kumar Pal M.	Empirical test of the moderating role of proactive personality and mediating role of developmental idiosyncratic deals on managing job content plateau	2023	Organizatsionnaya Psikhologiya	13	3	10.17323/2312-5942-2023-13-3-54-73	National Research University, Higher School of Economics	23125942		Article
63	Bhattacharjee N., Pati A.P.	Exploring the Performance Dimensions of Indian Shadow Banks Through the CAMELS Framework	2023	Business Perspectives and Research			10.1177/22785337231201499	SAGE Publications Ltd	22785337		Article
64	Bhuyan A.K., Baid C., Baid D., Mishra M.	Tone, Readability, and Firm Performance: A Study of Chairman's Letter Across India and China	2023	Palgrave Studies in Democracy, Innovation and Entrepreneurship for Growth	Part F1705		10.1007/978-3-031-40439-9_3	Palgrave Macmillan	26623641		Book Chapter
65	Subramanian B., Choudhary A.	Attrition problems at food delivery app companies: is there a way out?	2023	Emerald Emerging Markets Case Studies	13	4	10.1108/EEMCS-07-2022-0223	Emerald Publishing	20450621		Article
66	Kundu P., Ray M.	On approximation of piecewise linear membership functions and its application to solve solid transportation problem with fuzzy cost coefficients	2023	Modeling and Applications in Operations Research			10.1201/9781003462422-5	CRC Press		9781003801399; 9781032407371	Book Chapter
67	Mishra M., Mohapatra S.	Market segmentation of online shoppers: a Bayesian approach	2023	International Journal of Business Innovation and Research	32	1	10.1504/IJBIR.2023.134258	Inderscience Publishers	17510252		Article

68	Basi Reddy A., Harichandana B., Misra S., Nagendra K.V., Anandaraj S.	Introduction of Virtual Environment with Learning Personalized Content Recommendation for Realistic Avatar Creation in Online Platform using Machine Learning	2023	Proceedings of the 2023 2nd International Conference on Augmented Intelligence and Sustainable Systems, ICAISS 2023			10.1109/I CAISS58 487.2023 .1025067 3	Institute of Electrical and Electronics Engineers Inc.		9.79835E+ 12	Conference Paper
69	Singh A., Chauhan S., Dargar S.K., Tharewal S., Gutte V.S., Tiwari P.K., Gupta S.	Blockchain enabled security mechanism for preventing data forgery in IoT-based smart homes	2023	Journal of Discrete Mathematical Sciences and Cryptography	26	5	10.47974 /JDMSC- 1769	Taru Publication s	9720529		Article
70	Patnaik P., Nayak P., Misra S.	Personalized Product Recommendation and User Satisfaction: Reference to Industry 5.0	2023	Advanced Research and Real-World Applications of Industry 5.0			10.4018/ 978-1- 7998- 8805- 5.ch006	IGI Global		978179988 8079; 978179988 8055	Book Chapter
71	Kaur V., Bhatt D.P., Tiwari P.K., Tharewal S.	Blockchain technology combined with the CNN and Hashing algorithms enabled the secure storage of 3D biometric face and ear data	2023	Journal of Discrete Mathematical Sciences and Cryptography	26	3	10.47974 /JDMSC- 1745	Taru Publication s	9720529		Article
72	Sharma C., Kumar A., Tiwari P.K.	Energy efficient cloud computing using secure virtual machine migration: A taxonomy	2023	Journal of Discrete Mathematical Sciences and Cryptography	26	3	10.47974 /JDMSC- 1740	Taru Publication s	9720529		Article

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74	Pareek K., Bhatnagar V., Tiwari P.	Proposed Model for Design of Decision Support System for Crop Yield Prediction in Rajasthan	2023	Lecture Notes in Networks and Systems	681		10.1007/978-981-99-1909-3_46	Springer Science and Business Media Deutschland GmbH	23673370	9.78982E+12	Conference Paper
75	Kaur V., Bhatt D.P., Tharewal S., Tiwari P.K.	Blockchain-based Secure Storage Model for Multimodal Biometrics Using 3D Face and Ear	2023	2023 International Conference on Advancement in Computation and Computer Technologies, InCACCT 2023			10.1109/InCACCT57535.2023.10141695	Institute of Electrical and Electronics Engineers Inc.		9.79835E+12	Conference Paper
76	Kaur P., Bijay Sankar B.P., Bhanawat H.	Effects of Covid-19 Lockdown: A Perception Survey	2023	Smart Innovation, Systems and Technologies	290		10.1007/978-981-19-0108-9_54	Springer Science and Business Media Deutschland GmbH	21903018	9.78981E+12	Conference Paper
77	Panja A., Kundu P., Pradhan B.	Dispersive and star ordering of sample extremes from dependent random variables following the proportional odds model	2023	Communications in Statistics - Theory and Methods	52	19	10.1080/03610926.2022.2037643	Taylor and Francis Ltd.	3610926		Article

78	Behera D.K., Singh S.K., Choudhury D.K.	The burden of transport injury and risk factors in India from 1990 to 2019: evidence from the global burden of disease study	2022	Archives of Public Health	80	1	10.1186/s13690-022-00962-8	BioMed Central Ltd	7787367		Article
79	Dash A., Sahoo A.K.	Exploring patient's intention towards e-health consultation using an extended UTAUT model	2022	Journal of Enabling Technologies	16	4	10.1108/JET-08-2021-0042	Emerald Publishing	23986263		Article
80	Padhan H., Behera D.K., Sahu S.K., Dash U.	Examining the cyclical pattern of remittance flow, migrants stock, and income of 31 pairs of countries with India	2022	Migration Letters	19	6	10.33182/ML.V19I6.1655	Transnational Press London Ltd	17418984		Article
81	Rath S.K., Sahu M., Das S.P., Bisoy S.K., Sain M.	A Comparative Analysis of SVM and ELM Classification on Software Reliability Prediction Model	2022	Electronics (Switzerland)	11	17	10.3390/electronics11172707	MDPI	20799292		Article
82	Hashemkhani Zolfani S., Faruk Görçün Ö., Kundu P., Küçükönder H.	Container vessel selection for maritime shipping companies by using an extended version of the Grey Relation Analysis (GRA) with the help of Type-2 neutrosophic fuzzy sets (T2NFN)	2022	Computers and Industrial Engineering	171		10.1016/j.cie.2022.108376	Elsevier Ltd	3608352		Article
83	Mishra A.	Effect of Economic Policy Uncertainty and Crude Oil on Food Prices in India: Evidence from Symmetric and Asymmetric Investigation	2022	Indian Journal of Economics and Development	18	3	10.35716/IJED/22022	The Society of Economics and Development	22775412		Article

84	Rath M., Mishra S.	Advanced-level security in network and real-time applications using machine learning approaches	2022	Research Anthology on Machine Learning Techniques, Methods, and Applications			10.4018/978-1-6684-6291-1.ch035	IGI Global		9781668462928; 1668462915; 9781668462911	Book Chapter
85	Rath M.	Machine learning and its use in e-commerce and e-business	2022	Research Anthology on Machine Learning Techniques, Methods, and Applications			10.4018/978-1-6684-6291-1.ch062	IGI Global		9781668462928; 1668462915; 9781668462911	Book Chapter
86	Mujtaba A., Jena P.K., Bekun F.V., Sahu P.K.	Symmetric and asymmetric impact of economic growth, capital formation, renewable and non-renewable energy consumption on environment in OECD countries	2022	Renewable and Sustainable Energy Reviews	160		10.1016/j.rser.2022.112300	Elsevier Ltd	13640321		Article
87	Ray A., Pal M.K.	Taboo topics and sexual education in Indian schools: How and what teachers communicate?	2022	Handbook of Research on Communication Strategies for Taboo Topics			10.4018/978-1-7998-9125-3.ch019	IGI Global		9781799891260; 9781799891253	Book Chapter
88	Sarangi D., Pal M.K., Prusty S., Chen Q.	Smart City E-Governance Through Intelligent ICT Framework	2022	International Journal of Information Systems in the Service Sector	14	2	10.4018/IJISS.290543	IGI Global	19355688		Article

89	Parhi S.P., Pal M.K.	Impact of overconfidence bias in stock trading approach: a study of high net worth individual (HNI) stock investors in India	2022	Benchmarking	29	3	10.1108/BIJ-07-2020-0389	Emerald Group Holdings Ltd.	14635771		Article
90	Jha N., Pereira R., Misra S.	Achieving organizational effectiveness of MNCs through People: evidence from India and Mozambique	2022	Industrial and Commercial Training	54	2	10.1108/ICT-03-2021-0016	Emerald Group Holdings Ltd.	197858		Article
91	Sankar B.P.B.	Payment Methods and Shareholders' Gains in Mergers and Acquisitions: An Empirical Investigation into Indian Companies	2022	Finance India	36	1		Indian Institute of Finance	9703772		Article
92	Kabra S., Dass S., Popli S.	An analysis of celebrity repositioning through reality television	2022	Arts and the Market	12	1	10.1108/AAM-09-2020-0032	Emerald Publishing	20564945		Article
93	Patnaik P.	The Impact of Artificial Intelligence-Driven Recommendation on Customer Experience in E-Retailing	2022	Artificial Intelligence and Digital Diversity Inclusiveness in Corporate Restructuring				Nova Science Publishers, Inc.		9798886970746; 9781685077860	Book Chapter
94	Latchoumycandane C., Maniradhan M., Mathur P.P.	Environmental Contaminants, Oxidative Stress, and Reproductive Cancer	2022	Handbook of Oxidative Stress in Cancer: Mechanistic Aspects	1		10.1007/978-981-15-9411-3_34	Springer Nature		9789811594113; 9789811594106	Book Chapter

95	Tripathy M.	From Casket to Court via Mercy and the Ring: Commemorating Shakespeare's Portia in The Merchant of Venice	2022	Multicultural Shakespeare	25	40	10.18778 /2083-8530.25.09	Lodz University Press	20838530		Article
96	Muduli A., Verma S., Choudhary A., Singh U.	Correction: High-performance human resource practices in Indian banks: an examination from the institutional perspective (Journal of Financial Services Marketing, (2022), 10.1057/s41264-022-00193-6)	2022	Journal of Financial Services Marketing			10.1057/s41264-022-00198-1	Palgrave Macmillan	13630539		Erratum
97	Tripathy M.	Representing the Powerful Principle of Virtue Ethics: Commitment at Workplaces	2022	Changing Societies and Personalities	6	3	10.15826 /CSP.202 2.6.3.188	Ural Federal University	25876104		Article
98	Kanjoo Mrčela A., Nayak P.	Editorial	2022	Teorija in Praksa	59	3		Ljubljana University, Faculty of Social Sciences	403598		Editorial
99	Nayak P.	Impact Of Virtual Learning On Perceived Mental Health Of College Students During Covid-19 Pandemic	2022	Teorija in Praksa	59	3	10.51936 /tip.59.3.644-664	Ljubljana University, Faculty of Social Sciences	403598		Article

100	Malla S., Sahu P.K., Sarangi D., Patnaik S.	Role of Smart Dustbin in Creating a Smart Environment	2022	Smart Innovation, Systems and Technologies	294		10.1007/978-981-19-1146-0_6	Springer Science and Business Media Deutschland GmbH	21903018		Book Chapter
101	Rath M.	Big Data Analytics and IoT in Smart City Applications	2022	Research Anthology on Big Data Analytics, Architectures, and Applications	1		10.4018/978-1-6684-3662-2.ch017	IGI Global		9781668436639; 9781668436622	Book Chapter
102	Rath S.K., Sahu M., Das S.P., Mohapatra S.K.	Hybrid Software Reliability Prediction Model Using Feature Selection and Support Vector Classifier	2022	2022 International Conference on Emerging Smart Computing and Informatics, ESCI 2022			10.1109/ESCI535.09.2022.9758339	Institute of Electrical and Electronics Engineers Inc.		9.78167E+12	Conference Paper
103	Patnaik P., Patnaik B.	The Influential Role of Trust in Understanding Online Product Recommendation System	2022	Springer Proceedings in Business and Economics			10.1007/978-981-19-0357-1_14	Springer Science and Business Media B.V.	21987246	9.78981E+12	Conference Paper
104	Tripathy M., Panda S.	Determining the Characteristics of a Virtuous Teacher: Impact of Selected Virtues in Practice	2022	Journal of Engineering Education Transformations	35	3		Rajarambapu Institute Of Technology	23492473		Article

105	Mohapatra S., Mishra M.	Insights: Indian Adolescents' Social Media Usage and Life Satisfaction	2022	Palgrave Studies in Democracy, Innovation and Entrepreneurship for Growth			10.1007/978-3-030-79709-6_6	Palgrave Macmillan	26623641		Book Chapter
106	Dhal S., Mohapatra S.	Training Need Identification of Nursing Professional's Competencies During Pandemic and Scale Development	2022	Palgrave Studies in Democracy, Innovation and Entrepreneurship for Growth			10.1007/978-3-030-79709-6_19	Palgrave Macmillan	26623641		Book Chapter
107	Panja A., Kundu P., Pradhan B.	On stochastic comparisons of finite mixture models	2022	Stochastic Models	38	2	10.1080/15326349.2021.1987264	Taylor and Francis Ltd.	15326349		Article
108	Kundu P., Görçün Ö.F., Küçükönder H.	Medical device selection in private hospitals by integrated fuzzy MCGDM methods: a case study in choosing MRI (Magnetic Resonance Imaging) system	2022	Journal of the Operational Research Society	73	9	10.1080/01605682.2021.1960910	Taylor and Francis Ltd.	1605682		Article
109	Sahu P.K., Solarin S.A., Al-mulali U., Ozturk I.	Investigating the asymmetry effects of crude oil price on renewable energy consumption in the United States	2022	Environmental Science and Pollution Research	29	1	10.1007/s11356-021-15577-9	Springer Science and Business Media Deutschland GmbH	9441344		Article

110	Kundu P.	A multi-objective reliability-redundancy allocation problem with active redundancy and interval type-2 fuzzy parameters	2021	Operational Research	21	4	10.1007/s12351-019-00531-y	Springer Science and Business Media Deutschland GmbH	11092858		Article
111	Dash A., Sahoo A.K.	Moderating effect of gender on adoption of digital health consultation: a patient perspective study	2021	International Journal of Pharmaceutical and Healthcare Marketing	15	4	10.1108/IJPHM-01-2021-0012	Emerald Group Holdings Ltd.	17506123		Article
112	Sankar B.P.B., Leepsa N.M.	Determinants of payment method in mergers and acquisitions: A study on indian companies	2021	Indian Journal of Finance	15	10	10.17010/ijf/2021/v15i10/166511	Associated Management Consultants Pvt. Ltd.	9738711		Article
113	Choudhary A., Bala Subramanian R.	Role of community-based organizations in the pandemic: Opportunities for growth, challenges to survival	2021	Stakeholder Strategies for Reducing the Impact of Global Health Crises			10.4018/978-1-7998-7495-9.ch008	IGI Global		9781799874973; 9781799874959	Book Chapter
114	Mahata A., Rai A., Nurujjaman M., Prakash O., Prasad Bal D.	Characteristics of 2020 stock market crash: The COVID-19 induced extreme event	2021	Chaos	31	5	10.1063/5.0046704	American Institute of Physics Inc.	10541500		Article
115	Mohanty S., Mahakud J.	Causal Nexus Between Liquidity Creation and Bank Capital Ratio: Evidence from India	2021	Margin	15	2	10.1177/0973801021990399	SAGE Publications Ltd	9738010		Article

116	Dash A.	Determinants of EVs adoption: a study on green behavior of consumers	2021	Smart and Sustainable Built Environment	10	1	10.1108/SASBE-02-2019-0015	Emerald Publishing	20466099		Article
117	Bal D.P., Chhetri A., Thakur B.K., Debnath K.	Estimation of price and income elasticity of water: a case study of Darjeeling town, West Bengal, India	2021	Current Science	120	5	10.18520/cs/v120/i5/800-808	Indian Academy of Sciences	113891		Article
118	Panja A., Kundu P., Pradhan B.	Stochastic comparisons of lifetimes of series and parallel systems with dependent and heterogeneous components	2021	Operations Research Letters	49	2	10.1016/j.orl.2020.12.009	Elsevier B.V.	1676377		Article
119	Bal D.P., Dash D.P.	Nonlinear Granger causality between oil price and stock returns in India	2021	Journal of Public Affairs	21	1	10.1002/pa.2137	John Wiley and Sons Ltd	14723891		Article
120	Agrawal A., Sethi K., Bera P.	Inviolable e-Question paper via QR code Watermarking and Visual Cryptography	2021	International Symposium on Advanced Networks and Telecommunication Systems, ANTS	2021-December		10.1109/ANTS52808.2021.9936948	IEEE Computer Society	21531684	9.78167E+12	Conference Paper
121	Agrawal A., Sethi K., Bera P.	IoT-Based Aggregate Smart Grid Energy Data Extraction using Image Recognition and Partial Homomorphic Encryption	2021	International Symposium on Advanced Networks and Telecommunication Systems, ANTS	2021-December		10.1109/ANTS52808.2021.9936902	IEEE Computer Society	21531684	9.78167E+12	Conference Paper

122	Rath M.	Applications of Internet of Things in Medical Area	2021	Studies in Big Data	73		10.1007/978-981-15-4112-4_13	Springer Science and Business Media Deutschland GmbH	21976503		Book Chapter
123	Patnaik P., Prakash R.	Future of Artificial Intelligence: Will People be at More of an Advantage Than They Are Today?	2021	Internet of Things in Business Transformation: Developing an Engineering and Business Strategy for Industry 5.0			10.1002/9781119711148.ch5	wiley		9781119711148; 9781119711124	Book Chapter
124	Choudhary A., Chintaluri M.G.	Manufacturing vs Services: The Pandemic Impact	2021	Strategic Management During a Pandemic			10.4324/9781003125648-7	Taylor and Francis		9781000431384; 9780367646479	Book Chapter
125	Ray M., Ray M., Muduli K., Banaitis A., Kumar A.	Integrated Approach Of Fuzzy Multi-Attribute Decision Making And Data Mining For Customer Segmentation	2021	E a M: Ekonomie a Management	24	4	10.15240/tul/001/2021-4-011	Technical University of Liberec	12123609		Article
126	Rath M.	Realization of Business Intelligence using Machine Learning	2021	Internet of Things in Business Transformation: Developing an Engineering			10.1002/9781119711148.ch10	wiley		9781119711148; 9781119711124	Book Chapter

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127	Rath M., Pattanayak B.K.	Performance evaluation of optimised protocol in MANET	2021	International Journal of Information and Computer Security	14	03-Apr		Inderscience Publishers	17441765		Article
128	Ramasamy V., Panigrahi C.R., Sarkar J.L., Pati B., Majumder A., Rath M., Peng S.-L.	Application of deep learning strategies to assess COVID-19 patients	2021	EAI/Springer Innovations in Communication and Computing			10.1007/978-3-030-68936-0_2	Springer Science and Business Media Deutschland GmbH	25228595		Book Chapter
129	Nanda S., Panigrahi C.R., Pati B., Rath M., Weng T.-H.	COVID-19 risk assessment using the C4.5 algorithm	2021	EAI/Springer Innovations in Communication and Computing			10.1007/978-3-030-68936-0_4	Springer Science and Business Media Deutschland GmbH	25228595		Book Chapter
130	Rath M., Rodrigues J.J.P.C., Oreku G.S.	Applications of cognitive intelligence in the information retrieval process and associated challenges	2021	International Journal of Cognitive Informatics and Natural Intelligence	15	1	10.4018/IJCINI.2021010103	IGI Global	15573958		Article

131	Rath M.	Managing resources for futuristic wireless networks	2020	Managing Resources for Futuristic Wireless Networks			10.4018/978-1-5225-9493-2	IGI Global		9781522594956; 1522594930; 9781522594932	Book
132	Rath M., Mishra S.	Enhancement of network performance in VANET using dynamic routing strategies	2020	Managing Resources for Futuristic Wireless Networks			10.4018/978-1-5225-9493-2.ch012	IGI Global		9781522594956; 1522594930; 9781522594932	Book Chapter
133	Rath M.	Preface	2020	Managing Resources for Futuristic Wireless Networks				IGI Global		9781522594956; 1522594930; 9781522594932	Editorial
134	Rath M.	Big Data Analytics and IoT in Smart City Applications	2020	Encyclopedia of Information Science and Technology, Fifth Edition			10.4018/978-1-7998-3479-3.ch042	IGI Global		9781799834809; 9781799834793	Book Chapter
135	Kundu P., Hazra N.K., Nanda A.K.	Reliability study of series and parallel systems of heterogeneous component lifetimes following proportional odds model	2020	Statistics	54	2	10.1080/02331888.2020.1722670	Taylor and Francis Ltd.	2331888		Article
136	Rath M., Satpathy J., Oreku G.S.	Artificial Intelligence and Machine Learning Applications in Cloud Computing and Internet of Things	2020	Artificial Intelligence to Solve Pervasive Internet of Things Issues			10.1016/B978-0-12-818576-6.00006-X	Elsevier		9.78013E+12	Book Chapter

137	Rath M., Darwish A., Pati B., Pattanayak B.K., Panigrahi C.R.	Swarm intelligence as a solution for technological problems associated with Internet of Things	2020	Swarm Intelligence for Resource Management in Internet of Things			10.1016/B978-0-12-818287-1.00005-X	Elsevier		9.78013E+12	Book Chapter
138	Rath M., Tomar A.	Smart grid modernization using Internet of Things technology	2020	Advances in Smart Grid Power System: Network, Control and Security			10.1016/B978-0-12-824337-4.00007-2	Elsevier		9.78013E+12	Book Chapter
139	Dash A.	Exploring visit intention to India for medical tourism using an extended theory of planned behaviour	2020	Journal of Hospitality and Tourism Insights	4	4	10.1108/JHTI-03-2020-0037	Emerald Group Holdings Ltd.	25149792		Article
140	Rath M., Pati B., Panigrahi C.R., Peng S.-L.	Control of congestion and traffic light using intelligent approaches in smart city	2020	International Journal of Wireless and Mobile Computing	18	4	10.1504/IJWMC.2020.108537	Inderscience Publishers	17411084		Article
141	Rath M., Pati B., Pattanayak B.K.	Manifold surveillance issues in wireless network and the secured protocol	2020	International Journal of Information Security and Privacy	14	1	10.4018/IJISP.2020010102	IGI Global	19301650		Article
142	De A., Kundu P., Das S., Kar S.	A ranking method based on interval type-2 fuzzy sets for multiple attribute group decision making	2020	Soft Computing	24	1	10.1007/s00500-019-04285-9	Springer	14327643		Article
143	Rath M., Mishra S.	Security approaches in machine learning for satellite communication	2020	Studies in Computational Intelligence	836		10.1007/978-3-030-	Springer Verlag	1860949X		Book Chapter

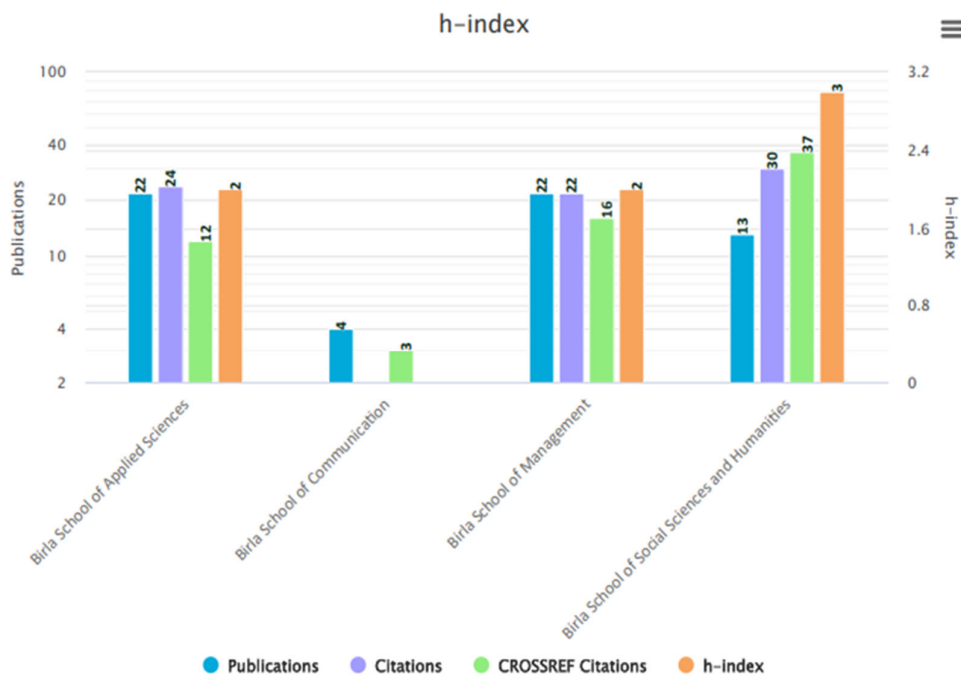
							20212-5_10				
144	Rath M.	A review of Artificial Intelligence Emerging technologies and challenges in Block Chain Technology	2019	Proceedings of the 2nd International Conference on Smart Systems and Inventive Technology, ICSSIT 2019			10.1109/ICSSIT46314.2019.8987807	Institute of Electrical and Electronics Engineers Inc.		9.78173E+12	Conference Paper
145	Rath M., Solanki V.K.	Performance improvement in contemporary health care using IoT allied with big data	2019	Handbook of Data Science Approaches for Biomedical Engineering			10.1016/B978-0-12-818318-2.00004-0	Elsevier		9.78013E+12	Book Chapter
146	Rath M., Pati B., Pattanayak B.K.	Design and development of secured framework for efficient routing in vehicular ad-hoc network	2019	International Journal of Business Data Communications and Networking	15	2	10.4018/IJBDCN.2019070104	IGI Global	15480631		Article
147	Rath M., Pati B.	Appraisal of soft computing methods in collaboration with smart city applications and wireless network	2018	International Journal of e-Collaboration	14	1	10.4018/IJeC.2018010102	IGI Global	15483673		Article
148	Kanjoo Mrčela A., Nayak P.	Gendered distribution of economic power in India [Distribucija ekonomske moći v Indiji po spolu]	2018	Teorija in Praksa	55	3		Ljubljana University, Faculty of Social Sciences	403598		Editorial

149	Nayak P.	Effectiveness of women in managerial roles in the corporate sector in India: Perceptions of their manager colleagues [Učinkovitost žensk v vodstvenih vlogah v korporativnem sektorju v Indiji: Kako jih vidijo njihovi kolegi managerji]	2018	Teorija in Praksa	55	3		Ljubljana University, Faculty of Social Sciences	403598		Article
150	Nayak P., Sharma N.	Managing faculty's work-life balance in Indian business schools [Upravljanje z usklajevanjem dela in družine visokošolskih učiteljev na Indijskih poslovnih šolah]	2018	Teorija in Praksa	55	3		Ljubljana University, Faculty of Social Sciences	403598		Article
151	Pal M.K.	Probabilistic linear programming problem with cauchy distributed random variables	2017	Mathematical Research Summaries	2			Nova Science Publishers, Inc.		9781536122008; 9781536120226	Book Chapter
152	Pal M.K.	Probabilistic linear programming problem with cauchy distributed random variables	2017	Stochastic Programming: Theory, Applications and Impacts				Nova Science Publishers, Inc.		9781536109511; 9781536109405	Book Chapter
153	Lele A., Nayak P.	Assessing learning styles to improve skill development: A case study of NASSCOM	2017	International Journal of Information Technology and Management	16	2	10.1504/IJITM.2017.083864	Inderscience Publishers	14614111		Article

154	Bala Subramanian R., Kumar S.	Do women turn to entrepreneurship to maintain a better work-life balance?	2016	Indian Women as Entrepreneurs: An Exploration of Self Identity			10.1057/978-1-137-60259-6_4	Palgrave Macmillan		9781137602596; 9781137602589	Book Chapter
155	Mukherjee S., Das P.	Criteria for customer agglomeration for a new footwear retail: A case study of a regional footwear brand in India	2014	International Journal of Business Excellence	7	5	10.1504/IJBEX.2014.064560	Inderscience Publishers	17560047		Article

3.1.3. University h-index

The h-index of the University is 12 and the total number of citations is 596.



h-index of the University

3.1.4. Patents awarded

The university has been awarded with 9 patents till 2024. The details are as follows:

SL.No	Name of the Faculty/student author of the patent	Patent Number	Patent Awarding Agency	Date of award
1	Dr. Manidatta Ray	20 2022 100 358	Die Präsidentin Des Deutschen Patent-und Markenamts	Mar 10, 2022
2	Dr. Satyakama Mishra	TEMP/E-1/37033/2022-KOL	Office of the Controller General of Patents, Designs and Trade Marks, Dept of Industrial Policy and Promotion, Ministry of Comm and Industry, GOI	July 08, 2022
3	Dr. Manidatta Ray	2023/01073	Register of Patent, Republic of South africa	Mar 29, 2023
4	Pradeep Kumar Tiwari	202311031058 A	The patent office journal no. 23/2023	June 9, 2023
5	Dr. Manidatta Ray	202321019782	Office of the Controller General of Patents, Designs and Trade Marks, Dept of	April 14, 2023

			Industrial Policy and Promotion, Ministry of Comm and Industry, GOI	
6	Dr. Manidatta Ray	202331044150	Office of the Controller General of Patents, Designs and Trade Marks, Dept of Industrial Policy and Promotion, Ministry of Comm and Industry, GOI	July 07, 2023
7	Prithivi Raj	202341039921	Office of the Controller General of Patents, Designs and Trade Marks, Dept of Industrial Policy and Promotion, Ministry of Comm and Industry, GOI	30th June 2023
8	Prithivi Raj	202311042500	Office of the Controller General of Patents, Designs and Trade Marks, Dept of Industrial Policy and Promotion, Ministry of Comm and Industry, GOI	21st July 2023
9	Dr. Bhavana Sharma	388908 001	Office of the Controller General of Patents, Designs and Trade Marks, Dept of Industrial Policy and Promotion, Ministry of Comm and Industry, GOI	23-Jun-23

3.1.5. Innovation/Research Awards Received

SL.No	Name of the awardee	Name of the award	Name of the awarding body	Year of award
1	Dr. Archana Choudhary	Best Paper Award (first Runner Up) in 9 th PAN IIM World Management Conference held on January 22-24, 2024 at IIM Sambalpur	PAN IIM World Management	2024
2	Piyush Gupta	Most Impactful Paper Award 2024 in FIIB Business Review journal by Sage publications	Sage publications	2024
3	Swagat Kishore Mishra	Award for Foundation level Innovation Ambassadors (IA) Training	Ministry of Education	2022
4	Swagat Kishore Mishra	Award for Advanced level Innovation Ambassadors (IA) Training	Ministry of Education	2022
5	Dr. Biswajit Acharjya	Best Paper Award in the 18th ICBM Conference 2021 held on December 9, 2021	University of Sri Jayewardenepura, Sri Lanka	2021
6	Dr. Archana Choudhary	International Award European Union India Think tanks Twinning Initiative Expert Workshop (Top Ten)	European Union	2021
7	Dr. Biswajit Acharjya	Award for Foundation level Innovation Ambassadors Training	MoE's Innovation Cell and AICTE	2021
8	Birla Global University, Bhubaneswar	Atal Ranking of Institutions on Innovation Achievements (ARIIA) Ranking 2021	Ministry of Education	2021
9	Birla Global University, Bhubaneswar	For establishment of Institution Innovation Council	MoE's Innovation Cell (Govt of India)	2021

4. Conclusion

Birla Global University provides abundant opportunities to excel in teaching and research. Nearly ninety percent of the courses have components on field projects/research projects/internships. PG students are encouraged to conduct research in multidisciplinary domains to acquire varied perspectives across different subjects through academic dissertations and Social Immersion Projects to understand real and pressing issues and challenges. Cognizant steps have been taken to develop a strong foundation to create a research ecosystem that leads to the publication of research papers. University monitors, promotes, and enhances the Faculty's research-oriented activities. The University has a well-defined "Research Promotion Policy" to create a temperament and promote Research orientation and other capacity building initiatives. University is equipped with a, "seed fund policy" and "Code of Ethics Policy" for maintaining academic integrity and safeguarding researchers from unethical practices such as plagiarism and malpractices. University provides financial support to their faculty members in form of 'Seed Fund' for attending conferences, capacity building and minor research projects. To encourage multidisciplinary applied research, University has signed several Memorandums of Understandings with National & International Academic Institutions and industries. The university has a well-equipped library, online databases, e-journals and books, research datasets, high-speed computers with high-speed internet connectivity, statistical (SPSS), qualitative, and bibliographic software (VOS Viewer), and so on. University also subscribed J-Gate, CMIE, Pro-Quest, IBI, Manupatra, and SCC databases etc. University has also purchased software such as SPSS, Urkund, and Turnitin to aid in the research and to prevent the malpractices. Research publications have shown an incremental trend in the recent years which shows the positive outcomes of the implemented policies and ecosystem.

Appendix-A Classification of Faculty

Faculty members are classified according to:

- a) their initial academic preparation and professional experience; and
- b) their sustained academic and professional engagement activities.

There are two broad types of faculty as follows:

a) Academically Qualified (AQ) Faculty

AQ faculty members are those with adequate formal academic preparation which includes a Ph.D. degree in a particular discipline/field and proven track record of producing and publishing scientific articles and teaching/research cases in any indexed journal and the preparedness for current teaching responsibilities.

b) Professionally Qualified (PQ) Faculty

PQ faculty are those with relevant academic preparation with Master degree and practical experience in their respective discipline such as Business Management, Journalism, Law and any branch of Engineering for a minimum period of five years. Intellectual capital should be preserved through continued and improved professional and consulting activities, by new or renewed certification, and/or by producing intellectual contributions in the discipline.

A PQ faculty can become Academically Qualified (AQ) Faculty after acquiring a Ph. D. degree in the appropriate discipline and publishing minimum two research articles teaching/research cases in peer-reviewed journals (PRJ).

However, number of years in senior executive positions such as General Manager, Vice President, Executive Director, Director, Chairman and Managing Director etc. shall be taken into special consideration for the faculty positions.

With reference to AACSB Standard Guidelines for accreditation, faculty members can be further classified into following four categories:

i) Scholarly Academics (SA) - Faculty members who earned their doctorate degree in an appropriate discipline/specialized and sustain currency and relevance through scholarship and activities appropriate to their teaching assignments.

ii) Practice Academics (PA) - Faculty members who augment their initial preparation as academic scholars with development and engagement activities that involve substantive linkages to practice and sustain currency and relevance through professional engagement and interaction.

iii) Scholarly Practitioners (SP) - Practitioner faculty members who augment their experience with development and engagement activities involving substantive scholarly activities in their fields of teaching while sustaining currency and relevance through continued professional engagement.

iv) Instructional Practitioners (IP) - Newly hired faculty members who join the faculty with significant and substantive professional experience and sustain currency and relevance through continued professional engagement related to their professional backgrounds.