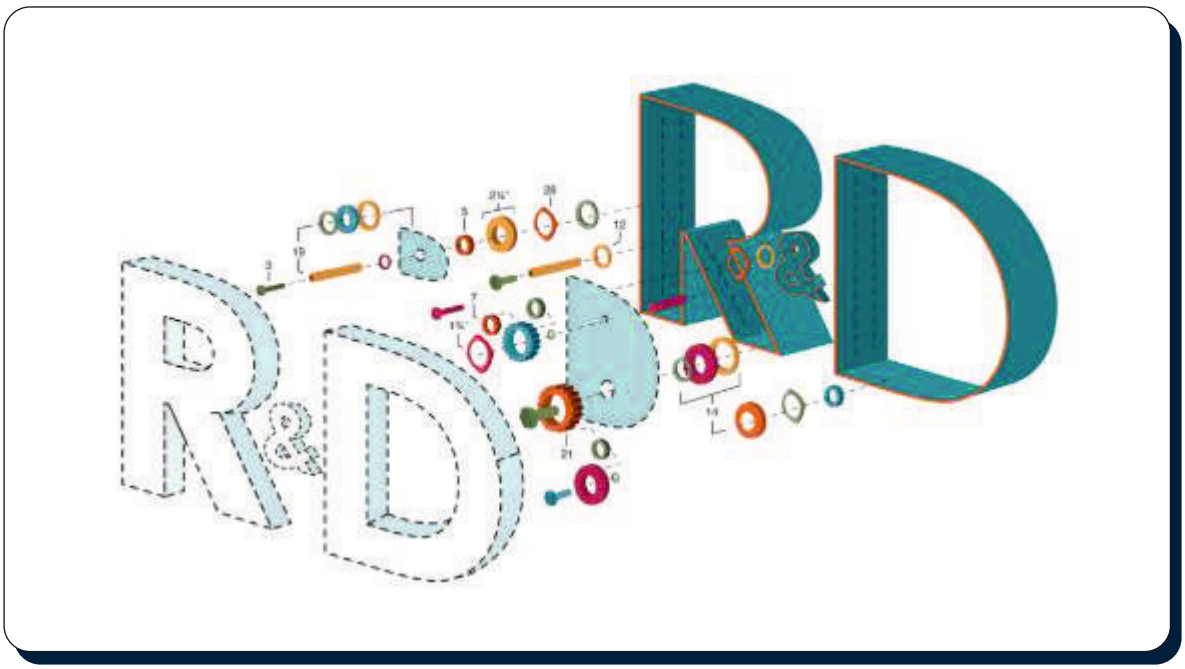
GALGOTIAS UNIVERSITY

NAAC GRADE A+ Accredited University

Research & Development Cell Annual Report 2023-24



Research & Development Cell (R&D Cell)
Galgotias University

Plot No. 2, Yamuna Express way, Opposite, Buddha International Circuit,
Sector 17A, Greater Noida,
Uttar Pradesh 203 201

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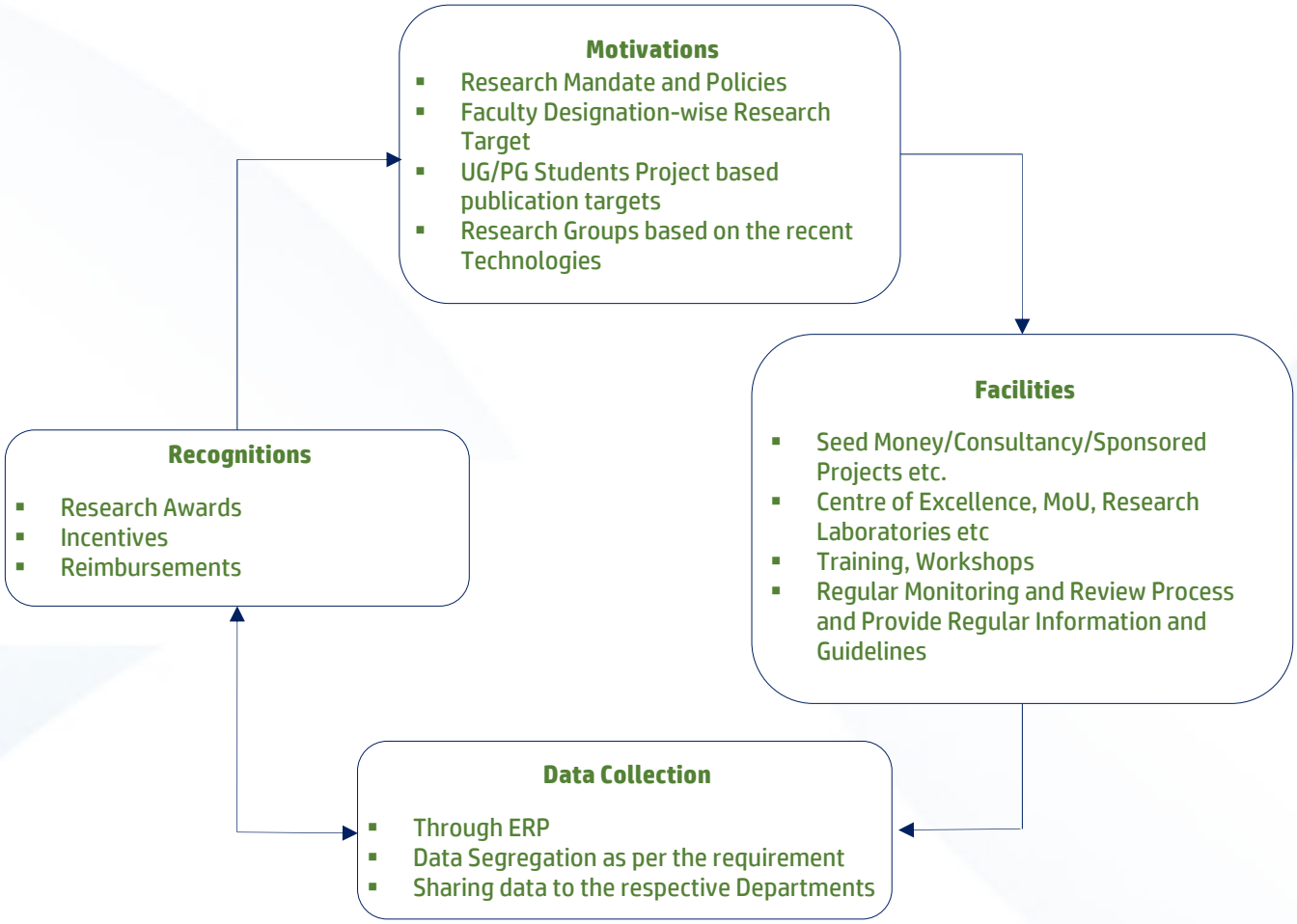
[A] R&D CELL

At Galgotias University, research is at the core towards teaching and learning, keeping our courses contemporary, relevant and cutting edge. Faculty Members and Students are actively pursuing interdisciplinary and socially relevant research in thrust areas with state -of-art equipment's in addition to teaching, consultancy and extension activities.

[B] R&D CELL OBJECTIVE

- Promoting research in the Faculty and enhancing the quality of research and its dissemination.
- Supporting researchers in the development of research facilities, research centers and research chairs.
- Informing Faculty staff of new and existing financing initiatives



Key Areas of Intellectual Pursuit (Academic Research Groups)

GU researchers are working in some of the thrust areas like advanced materials, AI, Machine Learning, biomedical engineering, clean energy and environment, computational biology, intelligent systems, micro-nanotechnology, wireless and broadband communication to name a few. The University has collaborated with leading universities and renowned institutes across the world. Students will be involved in exciting and interesting projects at the very edge of our current knowledge in these areas.

Galgotias offers a vibrant multidisciplinary research environment to both students and staff, which includes

- Computer Science and Engineering
- Core Engineering (Electronics and Electrical Engineering, Mechanical Engineering, Civil Engineering
- Medical and Allied Sciences
- Basic and Applied Sciences
- Liberal Education
- Agriculture
- Education
- Law
- Management
- Finance and Commerce
- Nursing
- Hospitality and Tourism

The University Centre of Research and Development takes care of Collaboration Workshop, Seminar, Conference, and FDP. The number of Research Papers, Number of Research Projects, and Consultancy. A number of Patent and Copyrights.

[C] RESEARCH ADVISORY COMMITTEE MEMBERS

SNo.	Name	Designation in the University	Position in the Committee
1.	Dr. K. Mallikharjuna Babu	Vice Chancellor, Galgotias University	Chairman
	External Members		
2.	Prof. Milind Atrey	Dean (R&D), IIT, Bombay	Member
3.	Dr. Bhim Singh	Professor, IIT, Delhi	Member
4.	Dr. Bhaskaran Raman	Professor, IIT, Bombay	Member
5.	Prof. Anil Roy	DAIICT, Ahmedabad	Member
6.	Dr. A Mukhopadhyay	Advisor/Scientist, SERC, DST	Member
7.	Dr. Ashish Verma		Member
	Internal Members		
8.	Dr. Nitin Gaur	Registrar	Member
9.	Dr. Avadhesh Kumar	PVC & Dean Planning	Member
10.	Dr. Meenakshi Sharma	Dean Research & Director IQAC	Member
11.	Dr. Namita Malik	Dean, School of Law	Member
12.	Dr. Kavita Mathad	Dean, School of Business	Member
13.	Dr. Sanjeev Kumar Singh	Dean, School of Basic Sciences	Member
14.	Dr. Anuradha Parasar	Dean, School of Liberal Education	Member
15.	Dr. Sanjay Goel	Dean, School of Computing Science and Engineering	Member
16.	Dr. Satyendra Gupta	Dean, School of Education	Member
17.	Dr. Rajesh Kannan	Associate Dean Research	Member Secretary

[D] R&D Members

Prof. (Dr.) Meenakshi Sharma	**Dean Research**
Dr. Gaurav Kumar	IIC In-charge
Dr. Sumedha mugarjee	IPR In-charge
Dr. Sheetla Prasad	Research Group In-charge
Mr. Gokul Rajan V	R&D Cell Member
Ms. Surabhi Verma	R&D Cell Member

[E] CODE OF CONDUCT

The Annual targets shall be set for the individual faculty and department (based on the no of faculties and research scholars). The performance shall be Monitored every quarter and if improvements are not found within ending respective quarters, then corrective action is initiated in the same quarter. The concerns shall be issued warning letters. Receiving such three letters the concerned faculty may be subject to administrative action.

- Dean of the school shall be answerable to partial or full non-achievement of targets set for a semester and year overall schools.
- To ensures everyone in the school follows the code of conduct
- All research policies are on the University website so everyone must comply to the same • Data must be entered on weekly basis in the all the google sheets
- The budget of the research activities must be submitted for the year ahead before start of financial year and on or before 31st March.

1. Each professor of the university shall publish at least three SCI/SCOPUS Indexed journal papers/book chapters per semester.
2. Each Associate Professor of the university shall publish at least two SCI/SCOPUS Indexed journal papers/book chapters per semester.
3. Each Assistant Professor of the university shall publish at least one SCI/SCOPUS Indexed journal papers/book chapters per semester.

i. If you shall publish any paper/file any patent / apply for any award/apply for any research fund /consultancy without any GU affiliation or without the appropriate channel of the university while in service shall be treated as violation of code of conduct and liable for administrative action/termination.
ii. After submitting the Manuscripts to the journal/Conferences, Details needs to be updated with School Research Coordinators for Data updating, who in turn will fill the respective Google sheet of UCRD.
iii. No paper in the University shall be published until checked for plagiarism and after having 90% unique contents only it shall be sent for publication. All Research Papers need to be checked for Similarity Index using Licensed iThenticate of GU
iv. If its joint paper along with other faculty of the GU then the weightage shall be 0.5 and if three faculties shall write the publication then weightage shall be 0.3 Publication with four faculties is not acceptable.
v. Faculty has to make sure at least one paper per year out of the targets given to him/her has to be in the journals of Q1/Q2/Q3 list.
vi. Every faculty publication shall be considered only when he or she is first author Page 10 of 236
vii. The affiliation used should be as “Galgotias University”, India
viii. The first author must be the person who has contributed the most and not in the order of seniority.
ix. The faculty who are from Galgotias University and doing Ph.D. from outside, must mention in their research paper ‘GU affiliation’.
x. In case of a paper on the students work (Ph.D/PG/UG) then work published on the same shall have their name as first author.
xi. 1.11. Maximum four authors can be there in any publications, in case of more author’s permission from the Dean, UCRD office must be sought.
xii. 1.12. Faculty targets and UG/PG/PhD scholar targets are considered individually and not to be overlapped. 2. Every Faculty to guide 01 Post Graduate every year and

1. UG Project every year.
    i. All faculties must ensure that if they are guiding projects of UG students, then 100% UG student's projects under each faculty should lead to Publications / Patent / Product.
    ii. Every year there shall be a project like mini project/ minor project/ major project.
    iii. All faculties should ensure that if they are guiding PG students, then 100% PG student's projects shall lead to one publication/case studies as an outcome of their PG project.
    iv. Every project report at all level (UG / PG / Ph.D.), every internship report, every book, book chapter, patent draft, every assignment, presentation, research papers, monographs, the design must be checked through i-authenticate
    v. The UG project report should have 80% unique contents in the final report without that project shall not be get submitted for the examination
    vi. The PG project report should have 85% unique contents in the final report without that project shall not be get submitted for the examination

2. Every Professor must bring consultancy from the industry worth 1 lakh per year.
3. Every Associate Professor must bring consultancy from the industry worth 50k per year.
4. Every Assistant Professor must bring consultancy from the industry worth 20k per year
5. Every school shall establish at least one Center of Excellence which is of interdisciplinary nature involving minimum two or more schools / department of GU and involving minimum two Industries and one International organization and few Ph.D. students and PG and UG students.
    i. Each Centre of Excellence of the university must apply for funding and shall result in spiralling out one or more UG, PG and Ph.Ds. every year Page 11 of 236
    ii. It must involve at minimum two industries and 1 international organization and few Ph.D. students and PG and UG students leading to a minimum of 4 publications per year: one start- up and 2 consultancy assignments and one grant.
6. Every professor and Associate Professor and all doctorate faculties of GU must apply for funding not less than 10 lacs every year and generate the revenue every year equal to two months of their salary.
    i. Dean of the school has to ensure all the grants applicable and open in India and abroad must be applied suitably and there shall be active funding from the various agencies
    ii. Dean of the school has to ensure all assistant professors are Co-PI in at least 2 proposals and Every professor and Associate professor do apply for at least 5 proposals per year
    iii. DST/UGC/CSIR/ nongovernment grants / grants from various ministries were also explored.
    iv. Each Ph.D. supervisor along with his/her Ph.D. student must apply for funding Projects every year
    v. Each Research Group Head must ensure their group do apply for the grants in the relevant head
    vi. Each in charge of the CoE also ensures every year grants are fetched not less than 20 lacs.
7. All teaching faculty must be PhD by 2023.
    i. Every faculty not having a Ph.D. degree shall identify the area and supervisor within 3 months of release of this document and register within 3 months of release of this mandate for Ph.D. either in GU or outside GU.
    ii. The university shall provide 50% concession in the PhD fees but if the faculty leaves the university before completion two years from the date of award, then she/he has to reimburse the complete concession given to the same.
8. Every faculty having Ph.D. degree shall guide at least four Ph.D. scholars and 80% of the scholars must be of GU.
    i. The PhD theses should have 90% unique contents in the final report without that thesis shall not be get submitted for the examination 8. Every Professor and Associate professor shall organize two STTP/FDP of minimum of 1 week per year with external Government/ Non-Government funding (in zero budget).
9. Every Faculty must be a resource person for a minimum of two events (One international and one outside GU in NIRF ranked University/Institute)
10. Every department should have IPR Cell and must establish Innovation cell. Page 12 of 236
    i. Every school must organize patent awareness workshop of 2 days for every section of students from first year to final year and ensure every student in a group of four must file a patent
    ii. Every faculty must file minimum one patent every year and Dean shall ensure that every 5 students of the school shall file one patent. So, on prodata basis target shall be set for the school.
    iii. Every school must organize innovation and entrepreneurship workshop for every section and one workshop for teachers to make them aware about innovations and entrepreneurship
    iv. Every school shall ensure every section has minimum 2 starts ups accordingly targets must be set up.
11. Collaboration
    i. Every department must sign 2 MOU every year and there shall be minimum 4 activities under each MOU
    ii. Minimum 10 International researchers should be involved in active research for schools having more than 1000 students and all engineering schools.
    iii. Every school shall identify minimum 5 experts from international and 5 at National level not below professor and 5 industries CTO/CEO/MD and having experience 10 years in the same field with the same caliber as an expert bank which shall be approved by UCRD and whose expertise shall be availed for Ph.D./ setting up guidelines, project evaluation/ PG and Ph.D. examination, mentoring for Center of Excellence

iv. The Dean/SRC shall sign at least five MoU for collaborative activities for research and faculty exchange for teaching and research, with other elite institutions within the country or abroad and execute the required activities as according to the MoU, every semester
v. Minimum five collaborative events with social organization
vi. School shall organize every fortnight one research talk 11.7Minimum five collaborative events with industry per semester

12. Three journals Business/ Legal / Engineering and (Medical Sciences) should have regular volume. Every issue shall not have more than 10 papers and out of which maximum 3 papers from GU and rest must be from outside India. Efforts to be taken to make GU journals Scopus indexed.
13. Research Methodology workshop must be conducted for every undergraduate program of minimum of 3 credits and 45 hours / Self-study and research course and minor in entrepreneurship must be offered in every semester in each program.
    i. It shall include patent drafting, research paper drafting and literature review as key components.
    ii. The ETE shall be in terms of research proposal or review paper.
    iii. Target should be for projects and exams should reflect the Scopus papers, book chapters and patents per year as papers are output and for the output to be there shall be a process which is in terms of project. Page 13 of 236
14. Dean shall ensure that all faculty members are members of minimum two Professional bodies of National/ International repute.
15. Each department must organize 2workshops for paper writing/ 2 workshops for patent writing and book chapter/ book writing for each section of students and all the faculties.
16. Research Groups must be formed for each of the schools ensuring each faculty of the school to be part of at least one of the groups.
    i. The projects and internships and Center of excellence must be linked to research groups. The outcome of each research group to be patents and publications
    ii. Under each group every Saturday there shall be discussion on new research papers in the same domain, discussion on at least 4 papers and gap identification and outcome be exhaustive list of such topics or areas, which can be called a bank of research areas.
    iii. It shall be utilized for the following research activities and is appreciated if the topic is chosen from this Bank:
        a. The Bank can be made available to the research scholars who may use it for their doctoral thesis.
        b. Similarly, the faculty shall also avail the Bank for identifying the subject for their research projects.
        c. Even for industry sponsored projects or for collaboration with other institutions, the Bank shall be utilized.
17. Publishing annual intellectual capital report by compilation of all research activities school wise on 31st march of every year
18. The complete research profile twice in each semester at the beginning of the semester and end of the semester for each faculty and updated in the central google sheet for orchid, vidwan, publon and others
19. The Dean/SRC shall ensure that at least one corporate training program given by the school to the industry/agency once in each semester

Every department must ensure the data is uploaded and in sync with school data at central level and the central sheets to be updated on day-on-day basis.

[F] Research Facilities

1. Seed Money

The Seed Money scheme of Galgotias University, is designed and incorporated to stimulate competitive research in upcoming strategic areas of national or international importance, to promote innovative product development and technology transfer, and/or to facilitate the start of research programs which will potentially develop into creative eco system on their own through external funding. The scheme is open throughout the year and the faculty are expected to send the proposal and get it reviewed thrice a year with a panel chaired by the Honourable Vice Chancellor.

a. Objectives

- To aid a faculty to initiate a research process that has the potential to attract funds from external agencies.
- To testify innovative idea and to generate preliminary results before submitting proposals to external agencies.
- To promote inter-faculty collaboration in emerging areas.
- To promote generation of IPR and product/process development.
- To attract and retain talent.

b. Seed Money Projects

SNo.	School Name	Total Amount Sanctioned	Number of projects Approved
1	Department of Computer Applications	₹ 733,546.00	5
2	Department of Computer Science and Engineering	₹ 1,824,381.00	13
3	Department of Basic Sciences	₹ 464,400.00	2
4	Department of Biological and life Science	₹ 200,105.00	2
5	Department of Biomedical Science	₹ 320,004.00	3
6	Department of Management	₹ 822,264.00	7
7	Department of Nursing	₹ 353,000.00	3
8	Department of Agriculture	₹ 206,000.00	2
9	Department of Law	₹ 353,400.00	3
10	Department of Finance and Commerce	₹ 374,400.00	3
11	Department of Pharmacy	₹ 258,449.00	2
12	Department of Paramedical and Allied Health Sciences	₹ 754,155.00	4
13	Department of Physiotherapy	₹ 385,000.00	2
14	Department of Civil Engineering	₹ 442,576.00	4
15	Department of Architecture	₹ 202,508.00	1
16	Department of Education	₹ 539,110.00	3
17	Department of Electrical Electronics and Communication Engineering	₹ 430,000.00	3
18	Department of Humanities	₹ 655,660.00	3
19	Department of Mass Communication	₹ 359,900.00	2
20	Department of Mechanical Engineering	₹ 840,581.00	7
21	Department of Hospitality and Tourism	₹ 794,000.00	3

2. Consultancy Projects

- Encouraging the faculty to utilize their expertise for consultancy services. The consultancy works can be categorized as:
  - Software consultancy.
  - Research based consultancy.
  - Industrial consultancy
  - Collaborative consultancy
  - Extension activities
  - Human resource development.
  - Testing
  - Any other suitable domain/area

In addition to the above policies, the Head of the institution has privilege to enhance and modify the policies and issues the order as and when required.

a. Consultancy Projects

SNo.	Name of the Department	Amount Sanctioned	No. of Projects Sanctioned
1	Department of Computer Science and Engineering	₹ 11,982,900.00	20
2	Department of Computer Applications	₹ 3,062,100.00	6
3	Department of Pharmacy	₹ 5,846,900.00	10
4	Department of Basic Sciences	₹ 4,419,100.00	7
5	Department of Biological & Life Sciences	₹ 572,300.00	1
6	Department of Biomedical Science	₹ 1,174,100.00	2

SNo.	Name of the Department	Amount Sanctioned	No. of Projects Sanctioned
7	Department of Management	₹ 7,705,400.00	13
8	Department of Nursing	₹ 2,820,200.00	5
9	Department of Agriculture	₹ 1,811,300.00	3
10	Department of Law	₹ 6,318,900.00	10
11	Department of Finance and Commerce	₹ 2,407,200.00	4
12	Department of Physiotherapy	₹ 1,109,200.00	2
13	Department of Allied Health Sciences	₹ 1,522,200.00	3
14	Department of Civil Engineering	₹ 2,082,700.00	4
15	Department of Architecture	₹ 2,861,500.00	5
16	Department of Education	₹ 2,253,800.00	4
17	Department of Electrical Electronics and Communication Engineering	₹ 1,262,600.00	2
18	Department of Humanities	₹ 3,339,400.00	5
19	Department of Mass Communication	₹ 725,700.00	1
20	Department of Mechanical Engineering	₹ 2,407,200.00	4
21	Department of Hospitality and Tourism	₹ 3,186,000.00	5

3. Sponsored Projects

A sponsored project is defined as an activity that is sponsored, or funded, by an external organization, such as a federal, state, or private organization or agency.

SNo.	Name of the Department	# Projects	Amount
1	Department of Pharmacy	7	₹1,524,726.67
2	Department of Civil Engineering	8	₹2,698,785.00
3	Department of Biological & Life Sciences	4	₹6,367,550.00
4	Department of Computer Science and Engineering	18	₹5,147,915.00
5	Department of Basic Sciences	2	₹789,040.00
6	Department of Management	16	₹4,637,896.67
7	Department of Law	7	₹3,453,803.33
8	Department of Humanities and Social Sciences	6	₹1,532,915.00
9	School of Hospitality & Tourism	1	₹570,791.67
10	Department of Mechanical Engineering	6	₹1,709,931.67
11	Department of Electrical Electronics and Communication Engineering	9	₹2,254,618.33
12	Department of Physiotherapy	2	₹724,256.67
13	School of Nursing	3	₹530,180.00
14	Department of Computer Application	8	₹2,049,908.33
15	Department of Biomedical Science	4	₹3,286,077.67
16	Department of Mass Communication	3	₹803,816.67
17	School of Agriculture	11	₹3,395,161.67
18	Department of Allied Health Sciences	1	₹351,040.00
19	School of Finance and Commerce	1	₹565,166.67
20	Department of Design	2	₹582,780.00
21	School of Education	3	₹550,015.00

4. Re-Imbursement Policy

The remuneration for International and National Speakers is fixed for facilitating Research.

S. No	Experts	Duration	Amount for Online	Amount for Offline
1	Guest International Speaker	Min. 01 Day	Appreciation Letter	Agra trip for Max two days Stay
2	Guest National Speaker from Reputed Institute	1-2 Hours	Rs. 2000	Rs. 3000 + TA
3	Chief Guest for Workshop/Seminar/STTP/FDP (National /International)	Upto 04 Hours	80 USD / Rs. 2500/-	150 USD / Rs. 3000 + TA
4	RAC External Member	01 day	5000	IIT Dean Research - Rs. 25000, IIT Prof - Rs. 10000, Others - Rs. 5000+TA
5	Indian Examiner/ Foreign Examiner for Thesis Evaluation	-	Rs. 3000/-	
6	Viva Voce for PhD	01 day	Rs. 5000/-	
7	Nobel laureate	1-2 Hours	200 USD	1 Lakh + Business Air Ticket + Accommodation Invitation of Advisory board member of University
8	External Expert DC Meeting	01 day	Min. Rs. 2000	Rs. 3000 Min + TA for 6 PhD Students
9	Practical Exams - (Assistant Professor, Associate Professor, Professor)	01 day	Rs. 18/- per student [Min. Rs. 1500 – Max. Rs. 5000]	
			Practical Exams Conveyance (Rs. 15/- per km) [Min Rs. 500 to Max. Rs. 1800]	

- The university shall provide 50% concession in the PhD fees but if the faculty leaves the university before completion two years from the date of award, then he/she has to reimburse the complete concession given to the same.

5. iThenticate

Plagiarism, the term defines as “stealing and publication of another author's "language, thoughts, ideas, or expressions" and the representation of them as one's own original work”.

At Galgotias University several policies and procedures had been defined to carryout for good research. It is very much necessary and mandatory that all those who involved with research activities at university should be aware of university plagiarism guidelines and policies.

At University any person who involved with plagiarism will be dealt seriously and referred to the institution disciplinary committee for further necessary action. Confidential and integrity are the two prime factors that define the trustworthiness among the researchers throughout the globe. In Galgotias University research group which includes students in undergraduate, students in post graduate, Ph.D. research scholar, faculty (both technical & non-technical) and staff to ensure that their activities are defined by highest integrity, and do not damage the university reputation and fame.

All the Galgotian involved in research, during their admission/appointment shall sign a research declaration which defines the commitment to uphold the highest standard of research integrity.

a. Plagiarism Policy

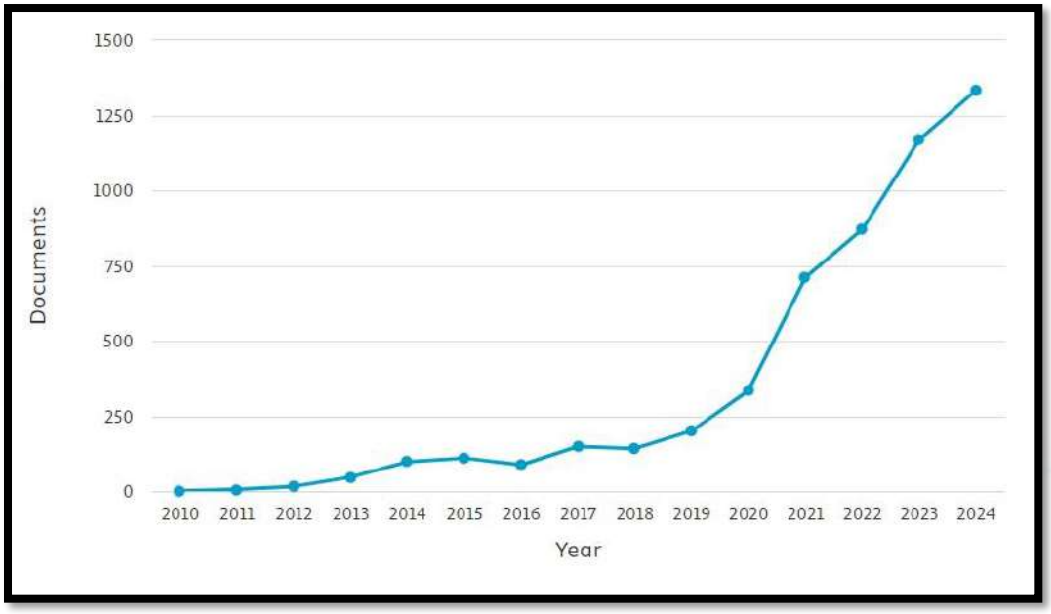
a. Similarity index of any document between 0 - 10 % is considered as good
b. Similarity index of any document between 11 - 20 % is considered as moderate.
c. Similarity index of any document more than 21 % is considered as plagiarized and it is recommended for not submission anywhere.

6. Scopus Subscription

- Searching for relevant topics/articles during the literature review phase
- Deciding where to publish – analyse the top journals and authors in your discipline
- Finding information to support your grant or other applications
- Exploring how many citations an article or author has received, and identifying potential collaborators
- Discovering who is citing you

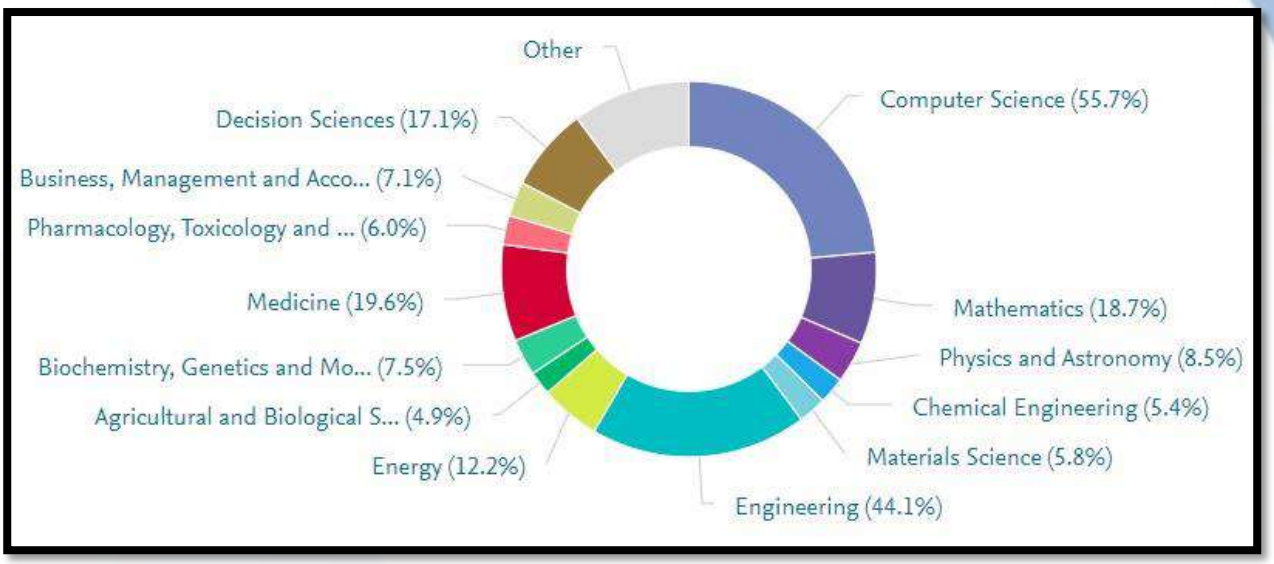
Using APIs to showcase citation counts for your work.

a. Scopus Summary

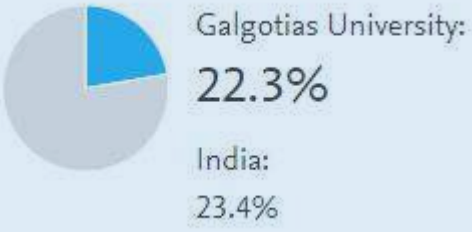


b. Elsevier Report 2021-24

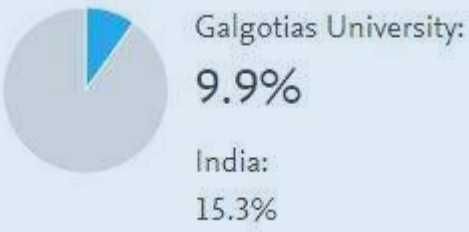
Summary of GU Scopus publications



Publication shares by Subject Area



International Collaboration



Publications in Top 10% Journal Percentiles

7. Research Target

a. Research Targets 2023-24

School Name	Paper Publication	Book / Book Chapter / Conference	Patent A/P/G	Seed Money for teachers (In Lakhs)	Consultancy Projects (In Lakhs)	Govt. /Non Govt. research Project (In Lakhs)
SCSE	550	450	140	11	48	92
SCAT	145	130	40	5	12	22
SMAS (Pharmacy)	85	64	70	2.6	8	15
SBS	152	152	13	5.5	17	58
SBLS	25	20	2	1	2	6
SBMS	35	30	3	1	3	8
SOB	160	158	15	6	17	58
SON	61	50	5	2.4	9	14
SOAG	20	20	25	1.5	7	14
SOL	110	82	0	2.6	9	9
SFC	30	30	2	2.8	7	11
DPT	64	64	26	1.5	5.7	21.7
SMAS(DPARA)	70	66	56	2	4.3	16.3
DOCE	16	16	21	2.5	6	5
SOD	16	16	0	1	3	1
SOE	27	18	2	1.4	4	11
DEECE	55	45	50	2.8	7	22
SOLE	95	70	1	3.2	8	10
SMCS	28	28	1	3	4	11
DOME	17	25	57	2	8.2	20
SOHT	35	40	6	3	8	11

b. Faculty Publications

SNo.	Department Name	Publications
1	Department of Computer Science and Engineering	552
2	Department of Computer Applications	64
3	Department of Civil Engineering	6
4	Department of Mechanical Engineering	29
5	Department of Electrical Electronics and Communication Engineering	71
6	Department of Architecture	1
7	Department of Education	26
8	Department of Humanities	44
9	Department of Mass Communication	21
10	Department of Bio-Sciences	76
11	Department of Basic Sciences	132
12	Department of Pharmacy	105
13	Department of Paramedical and Allied Health Sciences	61
14	Department of Management	79
15	Department of Finance and Commerce	13
16	Department of Hospitality and Tourism	51
17	Department of Law	63
18	Department of Agriculture	64
19	Department of Nursing	44
20	Department of Polytechnic	1

8. IPR Support

a. There shall be IPR cell at the university under R&D CELL led by in charge IPR cell the project in-charges /coordinators of the schools shall work under Patent in charge of the university.
b. Patent Attorney should be appointed by the University as per the rate contract based on management / governing body for helping university students and staff for following
    - Prior art search
    - Patent Drafting
    - Filing the patent with appropriate patent office and request for examination
    - Examination and Publication of Patents
    - Grant or Sealing of Patents with respect to oppositions
    - Routine follow-up with patent authorities
    - Informing applicants of actions required for maintenance of the application status
c. There shall be in-house portal for the submission of idea and best idea should be rewarded every month
d. The Dean/SRC shall ensure that at least two patents are published/awarded from each divisional research group every semester.
e. The expenses involved in filing the patents and getting published shall be borne by the GU as according to the GU patent policy.
f. The 100% expenditure on patents must be by university. place of invention must be university and inventor's affiliation must be university name and if found not to be considered as violation of code of conduct
g. The policy and format must be circulated by an email to all stakeholders. The norms related to financial support to file patents should be widely circulated among all stakeholders. The faculty members and students interested in filling the patent applications should approach the patent cell through guide and respective SRC
h. Detailed proposal in the desired format given by Patent Cell Office, India should be submitted to the R&D CELL
i. The patent data must be maintained as per the annexures
j. IPR in-charge along with school coordinators and deans of the school should take measures to increase the patent awareness among the students and faculties at university
k. School Dean shall ensure a one-day workshop on patent awareness at every class must be conducted. SRC committee shall ensure every semester workshop for IPR must be organized for every Undergraduate/ postgraduate program division must be organized and students should be encouraged to write patent proposals and prior art search in the odd semester beginning of the session (within a fortnight)
l. Approval on the proposal is taken from IPR and Vice Chancellor within 15 days.
m. Concerned faculty / students should be notified about the status of the proposal within 30 days of submission of the proposal
n. SRC through IPR cell should forward the approved proposal to the Patent Cell Office India through Patent Attorney. The concerned faculty / student should be in continuous touch with the Patent Cell Office for the status
o. The project / research work undertaken by Undergraduate and postgraduate students should be assessed by respective school committees. The supervisor must write it shall lead to patent/ publication / product.
p. The Review committee should also have one member from the IPR cell (central team)
q. In case the project / research work has potential to become a patent, the IPR cell should provide guidance on the formalities to file for a patent
r. the R&D cell to estimate the potential of the work to become a patent
s. The R&D cell should maintain the records of all the project work filed for patents along with expenditures and dates of publication and examination
t. The innovation gallery to be established which should have information about all patents and prototype of the projects

SNo.	Department	Filed	Published
1	Department of Basic Sciences	12	12
2	Department of Bio-Sciences	7	7
3	Department of Computer Applications	1	1
4	Department of Computer Science and Engineering	87	87
5	Department of Finance & Commerce	0	0
6	Department of Paramedical and Allied Health Sciences	11	11
7	Department of Pharmacy	3	3
8	Department of Architecture	1	1
9	Department of Agriculture	0	0
10	Department of Management	4	4
11	Department of Education	2	2
12	Department of Civil Engineering	7	7

SNo.	Department	Filed	Published
13	Department of Electrical Electronics and Communication Engineering	20	20
14	Department of Mechanical Engineering	21	21
15	Department of Hospitality & Tourism	0	0
16	Department of Law	5	5
17	Department of Humanities	2	2
18	Department of Mass Communication	1	1
19	Department of Nursing	7	7

9. Data Collection Gateways

a. **Verify your Publications** - Journal, Conferences, Books and Book Chapters data available in this link **R&D PUBLICATIONS@GU**, if not available kindly update in this Link: **https://tinyurl.com/GUPUBLICATIONS** *(Publication till date those are published to bse updated (do not upload publications which are only at the communicated status)*
b. **Verify your Patent** data available in this link PATENT DATA @GU, if not available kindly update in this Link: https://tinyurl.com/GUAWARDSREC
c. **Verify your Awards & Recognition / PhD Awarded** Data available in this link AWARDS / RECOGNITION / RESOURCE PERSON**,** if not available kindly update in this Link: https://tinyurl.com/GUAWARDSREC
d. **Event Approval Form** - https://docs.google.com/forms/d/e/1FAIpQLSdzCXTXisG1kDXFv-91ZqX78pB0UB1EMVpNaVtboRk4aS87_A/viewform
e. **Event Organized by Faculty** - https://forms.gle/EJLMzjKbKpNxKqNr8
f. **Research Groups -** https://docs.google.com/spreadsheets/d/1rAiEzy7qPS0ZuXZ8Zlllwv_uO7loQTNC4ph1hj-4yvA/edit?usp=sharing
g. **Research Coordinator List -** https://docs.google.com/spreadsheets/d/1WdUmaJoj3eVHTsrLc10UM4zmAKWwVYMB01lDFtm3Axc/edit?usp=sharing
h. **Seed Fund -** https://docs.google.com/spreadsheets/d/1GbofSfaSSwaK7fjlnnYwMtNJH-GP9-fq/edit?usp=sharing&ouid=108823353121338746488&rtpof=true&sd=true
i. **Consultancy Sheet -** https://docs.google.com/spreadsheets/d/1PCfK1d1m-s72aj9TcEnOE2qR0xvD5E0CeZTQ9Z90M7Q/edit?usp=sharing
j. **Grant Opportunities -** https://docs.google.com/spreadsheets/d/1b3V51aVjJZkeRmOazY5PZE-WfQ8c7OXItlQuWHfmKy8/edit?usp=sharing
k. **Research Award Link -** https://docs.google.com/spreadsheets/d/1fp2-dALrI67PtJISJZcF922L8VlZrNHqhO6PqbWdwdo/edit?usp=sharing
l. **Sponsored Projects -** https://docs.google.com/spreadsheets/d/1Indw_O96_7n-KFpVLLQS1pNlGMTfSCqT_buCP1u6svA/edit?usp=sharing
m. **Refereed Journals -** https://docs.google.com/spreadsheets/d/1LrZ_fhj6zC46-aJ1ItOyrlSYEVv0dq0Qa7OvP2_Mbb0/edit?usp=sharing

10. Research Methodology Sessions

a. Conferences

- IC2PCT-2024-IEEE Xplore - Conference Table of Contents
- ICCSAI-2023 - 2023 International Conference on Communication, Security and Artificial Intelligence (ICCSAI)

b. Events Organized

SNo	Department Name	Grand Total
1	Central University	7
2	Department of Electrical Electronics and Communication Engineering	31
3	Department of Civil Engineering	10
4	Department of Mechanical Engineering	6
5	Galgotias Polytechnic College	10
6	Institute Innovation Council (IIC)	3

SNo	Department Name	Grand Total
7	Galgotias Library	5
8	NCC/NSS	3
9	Department of Paramedical and Allied Health Sciences	34
10	School of Biological and Life Sciences	11
11	School of Biomedical Sciences	5
12	School of Basic Sciences	7
13	School of Computer Application and Technology	77
14	School of Computer Science and Engineering	123
15	School of Medical and Allied Science	19
16	School of Mass Communication Systems	48
17	School of Agriculture	46
18	School of Business	46
19	School of Design	11
20	School of Hospitality and Tourism	24
21	School of Law	38
22	School of Liberal Education	70
23	School of Nursing	37
24	School of Finance and Commerce	13
25	School of Education	13

11. Research Awards

a. Research Incentive Policy

SN	Research Award Type	Awards / Amount	Condition Apply
1	As a Resource Person (Keynote Speaker, Govt Recognized FDP, Session Chair in International conference Scopus Indexed)	Rs. 1000 – Rs. 5000	*Outside GU Only
2	Consultancy / Research Grants Received / Corporate Training	Rs. 10000	-
3	Publications in Scopus (Free). *	Rs. 2000	*Amount will be divided as per author position First / Second / Third (Up to) - INR 2000/ 1000/ 500. This will be applicable for those paper in which added with other Affiliation Authors
4	Publications in SCI (Free). *	Rs. 5000	*Amount will be divided as per author position First / Second / Third / Fourth (Up to) – INR 5000 / 4000 / 3000 / 2000. This will be applicable for those paper in which added with other Affiliation Authors
5	Authored Book with Scopus indexed. *	Rs. 8000	*Amount will be divided as per author position First / Second/ Third/ Fourth (Up to) – INR 8000 / 6000 / 4000 / 2000. This will be applicable for those paper in which added with other affiliation Authors
6	Edited Book with Scopus indexed. *	Rs. 5000	*Amount will be divided as per author position First / Second/ Third/ Fourth (Up to) – INR 5000 / 3000 / 2000 / 1000. This will be applicable for those paper in which added with other Affiliation Authors
7	Book Chapter with Scopus indexed, Springer, Elsevier. *	Rs. 2000	*Amount will be divided as per author position First / Second / Third (Up to) - INR 2000 / 1000 / 500. This will be applicable for those paper in which added with other Affiliation Authors

SN	Research Award Type	Awards / Amount	Condition Apply
8	Publications in Conference Scopus Indexed. *	Rs. 1000	*Amount will be divided as per author position First/Second/Third (Up to) - INR 1000 / 800 / 500. This will be applicable for those paper in which added with other Affiliation Authors
9	National Patent (Self Paid). *	Rs. 10000	*Amount will be divided as per author position First / Second / Third / Fourth / Fifth / Sixth (Up to) – INR 10000 / 8000 / 6000 / 4000/2000/1000. This will be applicable for those paper in which added with other Affiliation Authors
10	International Patent (Self Paid). *	Rs. 10000	*Amount will be divided as per author position First / Second / Third / Fourth / Fifth / Sixth (Up to) - INR10000 / 8000 / 6000 / 4000 / 2000 / 1000. This will be applicable for those paper in which added with other Affiliation Authors
11	Convenor of conference in the University at International level indexed in Scopus	Rs. 10000	-
12	Citation of papers under the affiliation of Galgotias University, Amount of INR 1000 for 10 citations will be awarded. (10*1=1000) in a year for Scopus Publication	Rs. 1000	*Session - 1-Jan-2020 to Dec-2020
13	PhD Awarded under Your Supervision	Rs. 10000	-

12. Refereed Journals

- Prominent journals for all the department have been collected and Shared with all the teaching faculties of GU.
- Around 600+ Journals has been collected from the various authentic resources
- The list consists of Q1, Q2, Q3 and Q4 journals of various departments
- This will encourage the quality publications of GU
- Also, Scopus Subscription also available in GU

https://docs.google.com/spreadsheets/d/1LrZ_fhj6zC46-aJ1ItOyrlSYEVv0dg0Qa7OvP2_Mbb0/edit?usp=sharing

13. Funding Opportunity

- Funding opportunities of the various government and non-Government agencies is collected and maintained in a Google sheet
  https://docs.google.com/spreadsheets/d/1b3V51aVjJZkeRmOazY5PZE-WfQ8c7OXItlQuWHfmKy8/edit?usp=sharing
- The Google sheet has been shared with all the teaching faculties of the Galgotias University.
- Willing faculty can apply the research proposal to the eligible agencies.
- R&D Cell will provide all the support to the proposal and approval of the same.

Department name	Sponsored Agency	Amount Sanctioned
Department of Humanities and Social Sciences	ICSSR Research Project 2023-24 (Major & Minor)	₹ 800,000.00
Department of Biological & Life Sciences	SERB TARE	₹ 1,800,000.00
Department of Biomedical Science	ICMR-DHR	₹ 1,544,321.00
Department of Computer Application	CST UP	₹ 290,000.00
Department of Biomedical Science	CSIR-ASPIRE	₹ 1,181,500.00
Department of Biological & Life Sciences	Ministry of Ayush (CCRAS)	₹ 4,000,000.00

14. Research Groups

Sl. No	Name of the Research Group	Name of the School/Department	Research Group Coordinator
1	Communication and Networking	DEECE	Dr. Biaswata Mohapatra
2	Embedded Systems and VLSI	DEECE	Dr. Jeba das
3	Power Systems & Renewable Energy	DEECE	Dr. Gitanjali Mehta
4	Geotech & Environmental Engineering	DOCE	Mr. Jagan J
5	Structural &Transportation Engineering	DOCE	Mr. Anil Kumar Choudhary
6	Thermal Engineering	DOME	Dr. K K Dubey
7	Manufacturing and Production	DOME	Mr. Shrikant Vidya
8	Design Engineering	DOME	Mr. Pramod Kumar
9	Applied Biological Research	Dept. of Bio Science	Dr. Sarita Mallik
10	Modelling and Simulation	Dept. of Basic Science	Dr. S K Kundu
11	Forensic Science & criminalistics	Dept. of Bio Science	Dr. Divya Tripathi
12	Pure & Applied Mathematics	Dept. of Basic Science	Dr. Sushant Sekhar
13	Advanced Materials	Dept. of Basic Science	Dr. Pooja Agarwal
14	Synthetic Chemistry	Dept. of Basic Science	Dr. Anjali Gupta
15	Applied Healthcare Research	Dept. of Bio Science	Prof. Ranjana Patnaik Dr Charu Gupta
16	Computer Networks and Wireless Computing	SCSE	Dr. Ashish Kumar Shrivastava Dr Akash Sinha
17	Core and Emerging Technologies	SCSE	Dr. Sanjeev Punia Dr. G Sakthi
18	Cloud Computing and Distributed Systems	SCSE	Dr. Ajay Shankar Singh Dr. Arvind Dagur
19	Data Science and Artificial Intelligence	SCSE	Dr. Krishna Kant Agarwal Dr. Amit Kumar
20	Cyber Security & Privacy Research	SCSE	Dr. Gulshan Shrivastava
21	Computer Graphics and Digital Image Processing	SCSE	Dr. Pallavi Jain Mr. Gokul Rajan V
22	Web and Mobile Application Development	SCSE	Dr. Seema Rani Dr. Sudheshna Chakraborty
23	Finance and Stock Market	SFC	Dr. Bhawana Rawat
24	Marketing, Human Resource and Corporate Social Responsibility	SFC	Mr. Tej Singh
25	Banking and Insurance	SFC	Dr. Seema Thakur
26	Applied Psychology	SLE	Dr. Kumar Ashutosh
27	Economics	SLE	Dr. Manju Dahiya
28	English	SLE	Dr. Archana Rathore
29	Foreign Languages	SLE	Mr. Santanu Mukerji Mr. Santanu
30	Political Science	SLE	Dr. Manasi Sinha
31	Sociology	SLE	Dr. Ambika Prasad Pandey Mr Waseem Akber Baba
32	New Outlook on Well Being (NOW)	SMAS	Dr Kalpana Rahate
33	Nanotechnology, Drug Delivery System and Targeting (NDDST)-	SMAS	Dr. Shaweta Sharma Mr. Awaneet Kaur
34	Galgotias Novel Pharmaceutical Research (GNPR)	SMAS	Dr Amit Singh
35	Sensor Based Smart Analysis of CVA	SMAS	Dr. Rituraj Verma
36	Advanced Physiotherapeutic	SMAS	Dr. S.Zafar
37	Communication and Media	SLE	Dr. Mehak Pandit
38	Architecture-1	SOA	Ms. Kusum Chaoudary Mr. Ameed Inam

Sl. No	Name of the Research Group	Name of the School/Department	Research Group Coordinator
39	Crop Improvement	SOAG	Dr. Jyoti Yadav
40	Crop Protection	SOAG	Dr. Ravindra Kumar
41	Marketing and Branding	SOB	Dr. Shankar Mukharji
42	General Management and Entrepreneurship	SOB	Dr. Ranjul Rastogi
43	Banking and Financial Market	SOB	Dr. Ruchi Atri
44	Leading and Team building	SOB	Dr.Alka Agnihotri
45	Data Analytics	SOB	Ms. Amrita Jain
46	Operation, HCM and specialized	SOB	Dr. Aijaz Ahmed
47	Teacher Education Research Forum	SOE	Dr.Ishrat Naaz
48	Room Division	SOH	Ms. Jyoti Ms. Monalisha
49	Food & Beverage Division	SOH	Mr. Vikas Sharma Mr. Rohit Jaswal
50	Human rights and Gender studies	SOL	Dr. Sandhya Prof. (Dr.) Namita Singh Malik
51	Criminal Law	SOL	Dr. Mandeep Dr. Mudassir Nasir
52	IPR Studies	SOL	Ms. Paramita Choudhary Mr. Nizam Khan
53	Corporate Law & A.D.R.	SOL	Mr. Kamaljeet Singh Mr. Rajat
54	International Law	SOL	Dr. Smitha Nizar Mr. Vinayak Pandey
55	Medical Surgical Nursing	SON	Ms. Simrat Kaur
56	Maternal and Child Health Nursing	SON	Ms. Shivani Rai
57	Child Health Nursing	SON	Ms. Deepika Bajwan
58	Mental Health Nursing	SON	Ms. Sonia Rani
59	Community Health Nursing	SON	Ms. Priyanka Thakur

15. Policies and Mandates

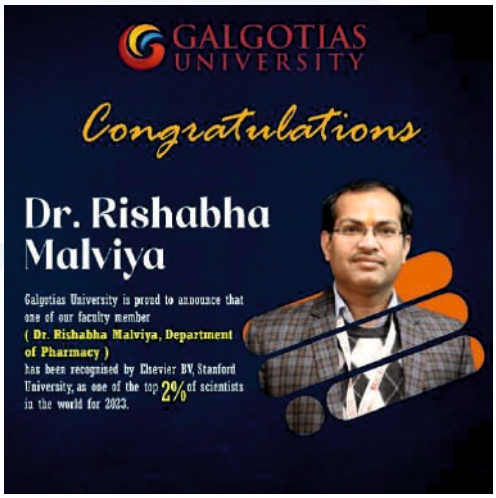
a. Policies

Policy	Description	Link
Research Policy	✓ To promote research, innovation and intellectual property, ✓ To ensure integrity, quality and ethics in research, and excellent research culture. ✓ To integrate teaching and research in interdisciplinary/multidisciplinary collaborations, ✓ To Ensure integrity quality and ethics in Research	https://www.galgotiasuniversity.edu.in/pdfs/Research-Policy-2019-V1.pdf
Seed Grand Policy	✓ To aid a faculty to initiate a research process that has the potential to attract funds from external agencies. ✓ To testify an innovative idea and to generate preliminary results before submitting proposals to external agencies. ✓ To promote inter-faculty collaboration in emerging areas. ✓ To attract and retain talent.	https://www.galgotiasuniversity.edu.in/pdfs/Research-Seed-Grant-Money.pdf

Policy	Description	Link
Consultancy Policy	✓ Consultancy Services may be offered to industries, service sector, Govt. departments and other National & International agencies	https://www.galgotiasuniversity.edu.in/pdfs/ConsultancyProjectPolicy.pdf
Ethical Policy	✓ The rules for ethical assessment in every research activity	https://www.galgotiasuniversity.edu.in/pdfs/Research-Ethical-Policy.pdf
Innovation & Startup Policy	✓ Vision for development and implementation of Innovation and Entrepreneurship	https://www.galgotiasuniversity.edu.in/pdfs/Research-Innovations-Policy.pdf
IPR Policy	✓ To promote generation of IPR and product/process development.	https://www.galgotiasuniversity.edu.in/pdfs/IPR-Policy-9.7.pdf
Incentive Policy	✓ To Describe the Incentives on the research promotion works	

[G] ACHIEVMENT

a. World's Top 2% Scientists by **Stanford University's**



Dr. Rishabha Malviya,
Professor
Department of Pharmacy

Dr. Vinita Vishwakarma
Associate Dean Research & Professor
Department of Bioscience and Technology

Dr. Vipul Narayan
Professor,
Department of Computer Science and Engineering

Dr. Eepsita Priyadarshini
Professor,
Department of Bioscience and Technology

b. UP International Trade Show (UPITS) - Youth Talent Exhibition

Event Name	Youth Talent Exhibition , UP International Trade Show
Venue	India Expo Centre & Mart Gr.Noida
Date	25-29, Sept. 2024

3rd

Kirtika, Eeshan Patel, Priyadarshani, Divyanshu Kumar Gautam
StreeSafe App

1st

Ranjan Gupta, Krishna Kumar Jha, Adarsh Deep Singh, Ayushi Gupta
Vaayu (Vigilant Air Assignment and Yielding Unit)
Environment and Sustainability

2nd

Md Tabish Zubair, Devanshu Gupta, Ratnesh Rai, Naman Singh, Rishita Sharma, Mukul Kumar
VAAYU SENSOR
Environment and Sustainability

3rd

Tishar Chander, Sameer, Shivangi Negi, Kshama Sharma
Essential oil at home
Environment and Sustainability

2nd

Pranjal Mishra, Vikas Singh, Aditya Sah, Ansh Sharma, Lavitra Tyagi
Aiding Communication for the Deaf: Health-Centered Intercom System with Vibration Sensors for Emergency Response
Health Related Social Issues

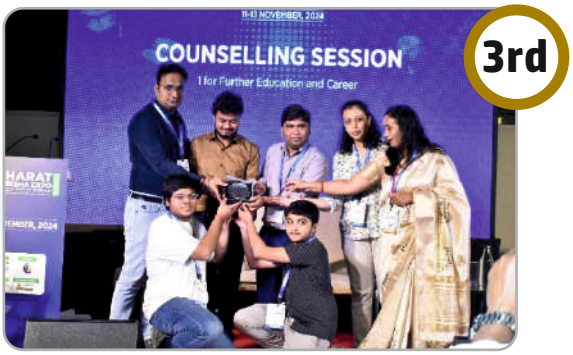
c. Eureka (International Conference Entrepreneurship and leadership)

Event Name	Eureka (International Conference Entrepreneurship and leadership
Venue	Amity University, Noida
Date	9th – 11th October, 2024

Mentor Sphere: Your Gateway to Smart Mentorship and Resource Access

d. Bharat Shiksha Expo

Event Name	Startathon , Bharat Shiksha Expo
Venue	India Expo Centre & Mart Gr.Noida
Date	11th – 13th, Nov. 2024



Kisan Drishti Smart Agriculture

3rd

Team Buddy- Self Learning Solutions for the beginners

Aeroworks Technologies- Providing real time updates of the crops to the farmers

e. Smart India Hackathon 2024 (Software Edition)

Event Name	Smart India Hackathon 2024 (Software Edition)
Venue	Government of NCT of Delhi
Date	11 to 15th Dec 2024

Ranjan Gupta, Ayushi Gupta, Divya Gupta, Krishan Kumar Jha, Adarsh Deep Singh, Ritik Kumar, Dr. Pardeep Singh
Gaurav Kumar
The technological solutions for capturing AQI values through mobile and other forms of stations
Clean & Green Technology

Galgotias University is committed towards the 17 Sustainable Development Goals of the United Nations

GALGOTIAS UNIVERSITY

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