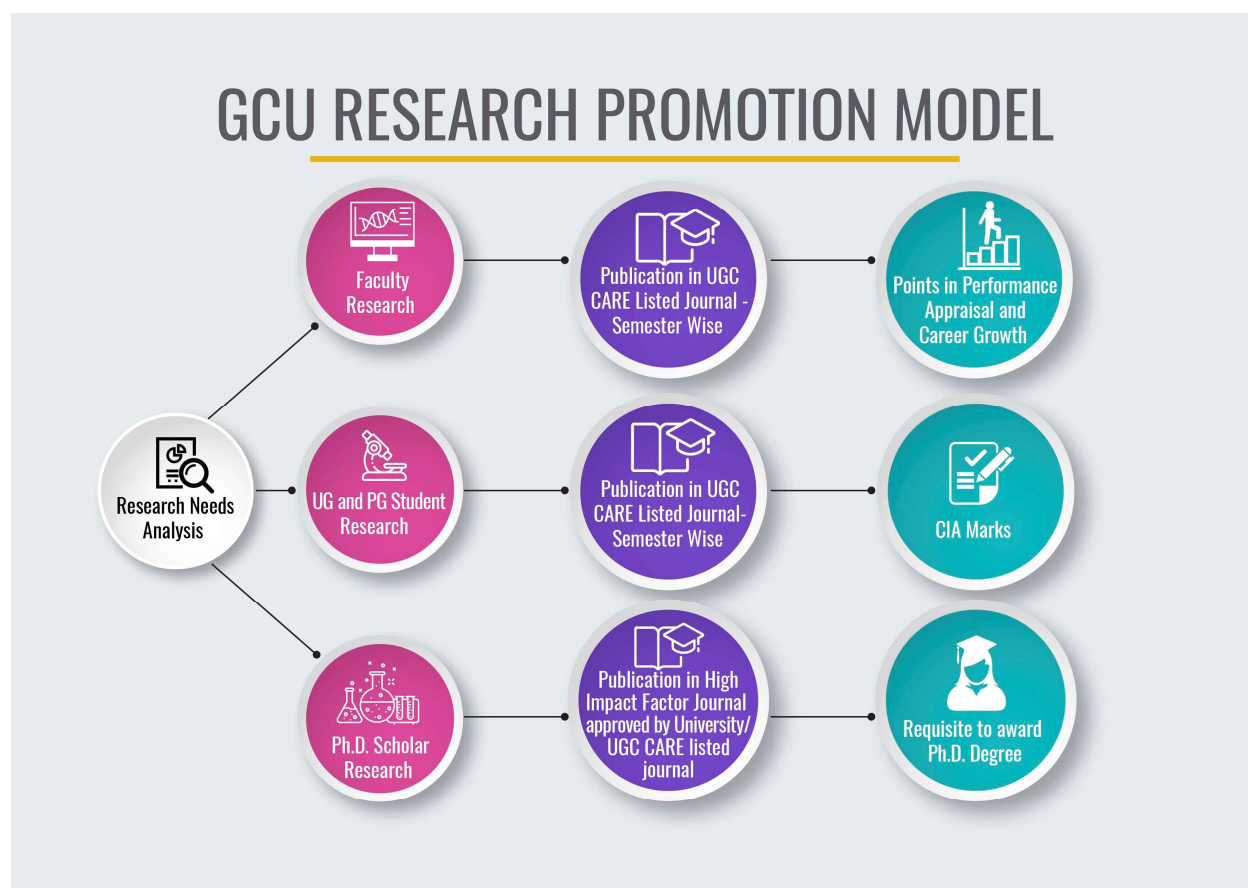**GARDEN CITY UNIVERSITY**
EMPHASIS ON LIFE

RESEARCH & INNOVATION PROMOTION POLICY 2017

1. **Introduction:**

Research is one of the vital pillars of Garden City University. Research is mainly focused on enhancing the quality of teaching & learning activities and creating innovative solutions for the problems on the planet. Research at Garden City University emphasizes on two main approaches. Impactful Research and Interdisciplinary research. Impactful Research aims to positively impact society, researchers, academicians, industry practitioners, and policymakers in public and private organizations. The positive impact can be in the form of knowledge, skills, products, services, or any other aspects which fulfill the need of multiple stakeholders in the eco-system. The interdisciplinary approach provides an opportunity for experts from several domains to collaborate and invent. The multidisciplinary approach saves time and energy and provides practically feasible and viable solutions for the stakeholders.

Figure: 1: GCU Research Promotion Model

GCU RESEARCH PROMOTION MODEL

Research Needs Analysis

Faculty Research → Publication in UGC CARE Listed Journal - Semester Wise → Points in Performance Appraisal and Career Growth

UG and PG Student Research → Publication in UGC CARE Listed Journal- Semester Wise → CIA Marks

Ph.D. Scholar Research → Publication in High Impact Factor Journal approved by University/ UGC CARE listed journal → Requisite to award Ph.D. Degree

The research promotion model integrates three main stakeholders responsible for conducting impactful Research at Garden City University. The stakeholders include UG & PG students, Ph.D. Research Scholars and Faculty members. To drive active Research, it is essential to include an achievement recognition mechanism for all the research endeavors. Accordingly, the achievement mechanism for each of the stakeholders has been included in the Research Promotion model. Faculty member's research endeavors are linked with performance appraisal and career growth points. UG & PG student's Research is linked with CIA marks, and Ph. D. Research Scholars research is connected with the requirement to award a Ph.D. degree. The research model is depicted in Figure: 1. beyond including achievement mechanism, a set of sixty-five hand-crafted unique research and promotion initiatives is extended for all the three stakeholders.

2. Unique Research & Innovation Promotion initiatives of Garden City University

1. GCU PERFECT (Project for Establishing Research Fraternity and Enhancing Core Technology- announced every semester.
2. Innovation for Sustainable Development Goals- conducted once in an academic year.
3. Mandatory conference paper presentation in International and National conference by the PG students- every semester.
4. Opportunity to participate in IPR courses – once in a semester.
5. Opportunity to participate in IPR related activities (competitions and idea presentations)- organized thrice in a semester.
6. Compulsory Research Methodology Course- offered as part of all the academic Programmes.
7. Group Research Projects- offered every semester.
8. Statistical Research software training- conducted every semester
9. Opportunity to access statistical software- SIGMAPLOT and SPSS- 24/7
10. Research and publication ethics paper offered to the PG students
11. Opportunity to submit the research projects for extramural funding- Initiated every semester
12. Ph.D. Program awareness session for the PG students- Once in the academic year.
13. Guided research methodology knowledge enhancement course- Once in a semester
14. Guided research skill enhancement course- Once in a semester

15. STRIDE project proposal (Scheme for Trans-disciplinary Research for India's Developing Economy)- Once in a semester
16. Research Lectures by eminent scientists and researchers- Thrice in a semester.
17. Impactful Research Concept
18. In-house department-specific ISSN journal for paper publications- opportunity to publish every semester
19. Research-based conferences, colloquium, and workshops- One event per semester.
20. Industrial Visit to Research labs- Once in a semester
21. Compulsory industry/ research-based internship during the final year
22. Research project-based assignments as part of Continuous Internal Assessment- Offered every semester.
23. Mandatory Research communication platform profile such as Google Scholar, Scopus profile, etc.
24. Awareness session on UGC Care listed journals- conducted once in a semester
25. Awareness session on predatory journals- conducted once in a semester
26. IPR filing assistance
27. Inter-disciplinary Research Projects- Once in a semester
28. Exclusive e-journal and magazine access such as EBSCO, THE
29. GCU Incubation facility to nurture research innovation into a start-up- Accessibility 24/7
30. GCU Research Consultancy opportunities- Around the year
31. Chancellors Young Innovators Award for students – Once in a semester
32. Chancellors Innovators Award for Ph.D. Research Scholars- Once in a semester
33. Chancellors Innovators Award for Faculty members – Once in a semester
34. Eligibility to submit PG dissertation include one peer-reviewed paper publication
35. Mandatory one external research collaboration outside GCU – Once in an academic year
36. Incentives and awards for peer-reviewed paper publications – Around the year
37. Incentives and awards for obtaining funding for the research projects – Around the year
38. Assistance to enroll into Research council memberships- Around the year
39. Emphasis on applied research concept while selecting the research topics
40. Assistance to apply for national/ international fellowships- Around the year
41. Opportunity for employment under the JRF /SRF scheme- Once in a year
42. One patent filed for a group of ten students- per academic year
43. Financial support to participate in Research-based competitions – Around the year
44. Research poster presentation exhibition – Once in a semester
45. Innovative Research-based teaching pedagogy – Around the year
46. Research review paper presentation every week
47. Best Research Student awards – Once in a semester
48. Best Scholars Research awards- Once in a semester
49. Best Faculty members Research award –Once in a semester
50. Student Research Exchange Programme- Once in an academic year
51. Research Capsule Courses –Once in a semester
52. Short term research skill enhancement certification Programme –Once in a semester
53. Attendance relaxation for the students involved in research projects
54. 24/7 R&D Labs

55. Linking Research to Extension activities – Around the year
56. Linking Research to Consultancy Projects –Around the year
57. Research Buddy System for Students, Ph.D. Research Scholars and Faculty members-
    Around the year
58. Research Performance Mentoring Session- Once in a semester
59. Innovation Hackathons- Once in a semester
60. International Research Collaborations – Once in a semester
61. GCU Research rendezvous- Monthly once
62. Plagiarism check software access- URKUND -24/7
63. One minute Research extempore- Once in a semester
64. Research advisors for students, Ph.D. research scholars, and faculty members – Around
    the year
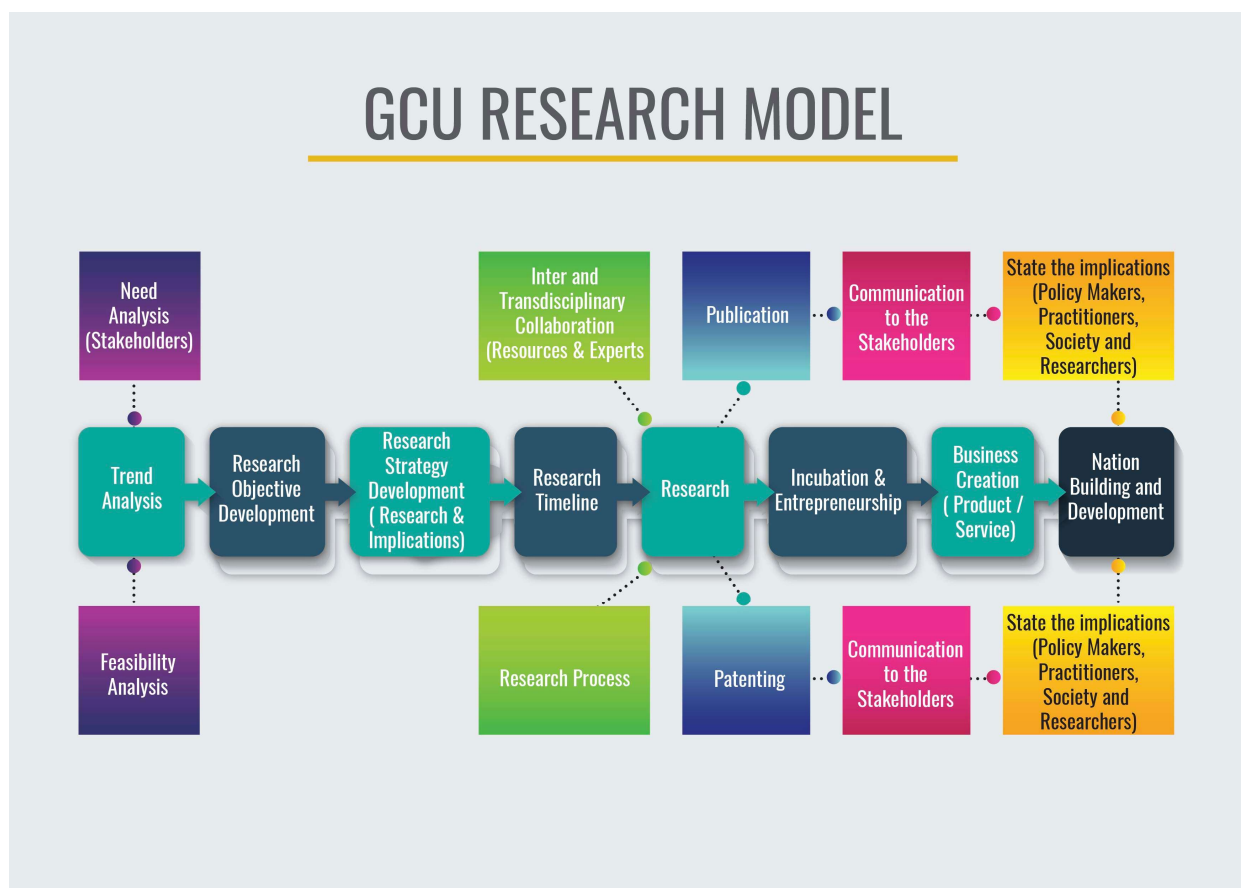65. GCU Research Channel

3. **GCU Research Model**

Figure: 2: Research Model

The integrated, comprehensive GCU Research Model acts as a blueprint/ roadmap for the stakeholders to conceptualize the Research across several stages. The stages include research ideation, research strategy development, research collaboration, research process, research publication, research patent, conversion of Research into business, communication of the Research to the stakeholders, and finally, nation-building and development. Every stakeholder at GCU can access the research advisors/ research buddy to plan the entire research activity. The one-on-One personalized mentoring session, research idea validation session, and opportunity to participate in Research Hackathon helps the researcher at GCU produce impactful Research, which will be valuable for the diverse stakeholders. In addition, research quality initiatives such as Research & Publication ethics course, an awareness session on UGC CARE listed journals, hands-on training on the procedure to identify predatory journals, and access to plagiarism detection software such as URKUND helps the researcher to ensure quality, ethics, and integrity in every stage of the research process. Despite the best efforts of GCU, in extraordinary circumstances, if any researcher is involved in the ethical violation, as per the University Grants Commission's recommendation, a framework related to the code of ethics to check malpractices and plagiarism in Research also has been established. The details of the same are given below,

4. Code of ethics for Research

Research ethical clearance certificate is the main prerequisite for the Research conducted by the members of Garden City University. It includes the Research conducted within and outside the GCU Campus. To scrutinize and to approve the proposal submitted by the research investigators, a well-established ethics committee has been set up by the Garden City University. Based on the standard protocol, members representing different segments are part of the ethics committee. The ethics committee's primary role is to critically review the information provided in the ethical clearance proposal and scrutinize the proposal by conducting a deep inquiry with the principal investigator, co-investigator, and other members involved in the research study. The ethical clearance process must consider all the research stages, people engaged in the Research, code of conduct of Research, and the Research's expected outcome. The prescribed ethical code of conduct of a particular research subject domain must be strictly considered for review and adhered by the researcher in the proposed research project. All the ethics committee members must mutually agree and approve the research project only when the research project is fulfilling clearly defined rules and

regulations. The ethical clearance process's outcome must assure for a bias-free, error-free, and risk-free research study. The ethics committee secretary is responsible for receiving ethical clearance applications, conducting the meeting, and issuing the ethical clearance certificate.

4.1. Malpractices

Any member of Garden City University involved in any malpractices will be governed by

University Malpractices Lapses Enquiry Committee.

4.1.1. Steps in handling malpractices

1. All the precautionary measures will be taken by the respective authorities to control malpractices.
2. Despite the precautionary measures, if any incidents are observed and confirmed. The handling authority will immediately intimate the secretary of the UMLEC and complete the report on malpractices.
3. The secretary shall call for a meeting with the members of UMLEC and discuss the nature of the malpractices transparently along with the member who had committed the malpractice.
4. Decision on disciplinary action/punishments.
5. Documentation.
6. Execution of the disciplinary action/punishments.

3.2.2. Plagiarism: Steps in detecting the plagiarism

1. Completion of the research project (Research Paper/ Research Article/ Assignments/ Projects)
2. Preparation of the research report.
3. Submit documents in URKUND Software.
4. URKUND Analysis for Text Similarities.
5. Generate Report.
6. If the text similarities are below 10%, it will be accepted for submission, and if it is above 10%, it will be rejected.

Conclusion:

GCU Research & Innovation promotion policy and initiatives have been set realistically to help the researcher at GCU to experience the best research ambience, state of the art research infrastructure, and personalized research mentoring assistance, research quality initiatives, recognition plans for the research endeavors, and taking the Research to the grass-root level of the nation. Overall, the policy will ensure impactful Research, which will ultimately help India become a developed nation in the near future and contribute to India innovation index.