



ଶ୍ରୀ କୃଷ୍ଣ ଚନ୍ଦ୍ର ଗଜପତି ସ୍ୱୟଂଶାସିତ ମହାବିଦ୍ୟାଳୟ, ଗଜପତି  
**S K C G AUTONOMOUS COLLEGE, GAJAPATI**  
Accredited with 'B' Grade by NAAC



## RESEARCH POLICY DOCUMENT



**S.K.C.G. Autonomous College**  
**Re-accredited by NAAC (3<sup>rd</sup> Cycle)**  
**PARALAKHEMUNDI**  
**Gajapati District**  
**Odisha-761200**







## RESEARCH POLICY

### Preamble

The Sri Krushna Chandra Gajapati Autonomous College, established in 1896 by the visionary leadership of the Maharaja Sri Krushna Chandra Gajapati of Paralakhemundi, that has remained a guiding spirit of teaching-learning and research for over six decades envisages a strong, knowledge foundation for a learned Society. The present document endeavours to add a formal component of Research in the academic ecosystem of this glorious institution as Extension to Research is crucial in not only refining teaching and learning practices but it also empowers us to face the evolving reforms in educational policies, promoting innovation and skilling thus contributing to the shaping of a broader knowledge economy as prescribed in the NEP-2020, which is being implemented from this session.

### Vision & Mission Statement

***To Continue with The Legacy of this Century old College, fostered by the Maharaja Sri KrushnaChandra Gajapati, -- of "Dispelling The Darkness of Ignorance through the Light of Knowledge". -- 'Tamasoma Jyotirgamaya'..***

- To Provide Formal, Higher Education to Students of this one of the most backward and disadvantaged areas of the State;
- To ensure Quality Higher Education and widen the Scope of Employability of the students;
- To consistently help contribute to the Mandate of the New Education Policy, of increasing Gross Enrolment Ratio in Higher Education, of this region;
- To keep pace with the Changing Demands in Higher Education, at State as well as National levels;
- To ensure an overall, Holistic Education for Character Building of students, preparing them as Future, Responsible Citizens of this Great Country;

### Core Values

- **Accountability and service to all stakeholders**
- **Integrity and fairness in all practices**
- **Instill innovation and creativity**
- **Inclusiveness and care for the marginalized**
- **Resilience and sustainability**
- **Striving for quality and excellence in all actions**
- **Thought leadership and quality consciousness**
- **Striving hard to preserve the IKS**





### **Research Policy of the College**

The Research Policy Document with its broad principles are meant to guide the research activities upholding the integrity of scholarly inquiry that helps the faculty and students in achieving excellence and contributing to the societal development.

#### **Aims and Objectives**

The research policy aims to create and support a research culture among its staff and students and leverage it for enriching and enhancing the professional competence by:

- Developing and promoting scientific temper and research aptitudes of all learners
- Realizing the vision and mission of the college and facilitating their participation in research and related activities
- Ensure the required resources and appropriate facilities for smooth conduct of Research
- Strengthening the institutional capacity building in all research activities of the college promoting socially relevant, multidisciplinary research
- Developing rules, procedures and guidelines for granting research support, instituting awards.
- Guiding faculty members in the effective integration of research projects with the regular curriculum implementation and enrichment activities
- Promoting interdisciplinary research and establish modalities for preparing and undertaking joint research projects covering more than one knowledge domain as well as policies for involving external agencies/experts in such projects.
- Identifying, collaborating and establishing linkages including MOUs with National/International/Govt/ Non-Govt/ Industry/ Research organizations and Local agencies to benefit from the activities and programmes conducted by those organizations for widening the scope of the research opportunities, obtaining sponsorships and funding options available.
- Encouraging and facilitating the publication of the research work/projects in academic and research journals of national as well as international repute.
- Facilitator in providing professional guidance, technical support and recommendation for financial assistance
- To create awareness about patents and intellectual property rights especially in TKS and assists them in the process of patenting.
- Timely and routine compiling data from all the research work/projects undertaken by the teachers and students in to a database for easy monitoring and analysis of the progress made thereof.
- Develop and adopt a healthy research ethics which encompasses all researchers about the codes, legal norms and principles in conduct of an ethical and just research
- Ensure and implement standard quality specifications for adopting a research quality assurance mechanism across domains of research undertaken in the college.

#### **Scope and Potentials**

This policy shall apply to all the researchers of the college and to include;

- All staff, temporary and permanent, who are active in teaching and research in the college;
- All students registered with the college;



- All mentors, guides, external experts associated with any of the research activities of the college;

This policy shall include

1. Research activities including basic and applied research undertaken for fulfilling the requirements of academic degrees
2. Scholarly activities intended to expand knowledge boundaries by analysis, synthesis and interpretation of ideas and information by making use of rigorous methodologies
3. Knowledge compilation for academic developments in any knowledge domain such as writing of textbooks, chapters of textbooks or developing/updating curriculum, etc.
4. Research projects of students undertaken as part of the curriculum or for enriching it
5. Publications and presentations on research related topics
6. Exploring specific domains in IKS

### **Quality Assurance in Research**

Quality Assurance in Research (QAR) comprises all the techniques, systems and resources that are deployed to give assurance about the care and control with which research has been conducted. QAR is typically concerned with:

- The responsibilities of those involved in the research
- Transparent project planning
- Training and competence of research staff
- Facilities and equipment
- Documentation of procedures and methods
- Research records
- Handling of samples and materials
- To develop, prescribe and administer rules and procedures to ensure the compliance of all researchers to the research quality assurance framework, the research code and all the applicable rules and regulations.

### **Research Committee**

The Research Committee is headed by the Principal, all HoDs and faculty with doctoral degree (subject revision, as and when required) to promote and monitor the research activities and advocates high standard of responsibility for ethical conduct from the faculty engaged in research, in all aspects of their research activity.

### **Research Ethics Committee**

A sub-committee under IQAC is formed (subject revision, as and when required) for verifying the originality of research publications/projects through plagiarism check and suggestions are given accordingly. Every conference conducted by the institution consists of this committee where the said procedures are followed and staff/students are encouraged to publish papers in UGC approved journals/Web of Science/Scopus indexed, the online E-Resources platforms like EBSCO & INFLIBNET etc. as prescribed by OSHEC (Odisha State Higher Education Council).

### **Research Policy Implementation Mechanism**

The Research Committee of the college shall be responsible for implementing the research policy of the college by working closely with the college Research Cell and the administration under directions of the Department of Higher Education, Government of Odisha and the affiliating Berhampur University. The specific roles and functions of the research cell will be as follows:



1. Facilitate the faculty in undertaking research and will work with the college administration to set up a research funds if possible for providing seed money.
2. Make necessary provision for research facilities in terms of minor laboratory equipment, research journals and research incentives etc. required by the faculty over and above the available resources with justification.
3. Encourage and promote a research culture (eg. teaching work load remission, opportunities for attending seminars/conferences etc.).
4. Encourage the faculty to undertake research by collaborating with other research organizations/ industry.
5. Organise workshops/ training programmes/ sensitization programmes to promote a research culture on campus.
6. Prepare budgets for facilitating staff/students' research projects.
7. Approach National and international organizations to fund major and minor research projects undertaken by the faculty / students
8. Make efforts to improve the availability of research infrastructure requirements to facilitate research.
9. Develop and implement an official Code of Ethics to check malpractices and plagiarism in research.
10. Facilitate Interdepartmental / interdisciplinary research projects.
11. Institute research awards. create incentives for the faculty who receive state, national and international recognition for research contributions as well as research awards and recognition from reputed professional bodies and agencies.
12. Encourage and promote the publication of research articles by the faculty in reputed/ refereed journals.
13. Create and maintain a database of research work and research projects undertaken by the faculty and students.
14. Prepare Guidelines for design and evaluation of curriculum oriented research projects.

#### **Research Expertise Available;**

The Research Facilities provisioned by the institution are constantly being updated and upgraded in keeping with revised syllabus and new faculty joining and contributing to the Research Culture in the campus.

The institution can offer research guidance in the following domains for the Faculty/Student Researchers:

- a) BOTANY: Cytogenetics, Plant Tissue Culture, Functional Genomics & Transcriptomics, Phycology, Ethno-Pharmacology, Plant Photo Biology, Plant Developmental Biology, Plant Hormone Signalling.,
- b) CHEMISTRY: Material Chemistry, Polymer Nanocomposite, Fire Retardant, Bio-Inorganic Chemistry, Physical Chemistry, Ultrasonic Wave Propagation through Liquid Solutions, Thermo-Acoustic Behaviour, Organic Synthesis. ⑤
- c) PHYSICS: Condensed Matter Theory and Simulations, First-principle calculations of Atoms and Molecules, Nuclear and Particle Physics, Experimental High Energy Physics, Condensed Matter Experimental Physics, Material Synthesis and Characterization, Solid Oxide Fuel Cells (SOFCs), Lithium ion Batteries and Multifunctional Phosphors Materials
- d) ZOOLOGY: Mosquito Vector Biology and Mosquito Vector Control, Cytogenetics, Protein Based Scaffolds and Hydrogels, Cell Culture and Animal Models, Genetic Engineering, Drug Delivery System through Nano-carriers.

- e) LIFE SCIENCES: Developmental Neuroscience, Drosophila Genetics and Molecular Biology
- f) MATHEMATICS: Fluid Dynamics, Modelling, Diophantine Equation, Number Theory
- g) ECONOMICS: Federal Finance Public Economics Macro Economics, Economics of Migration, Welfare Economics, Development Economics & Micro Economics, Environmental Economics & International Economics
- h) ENGLISH: Indian Writing, Post-colonial literature, Literary theory, British literature, Commonwealth literature, translation studies and Green Studies, English Language Teaching, Applied Linguistics, Communication, Grammar, Shakespearean Drama, Literary theory, Popular literature, Feminism, Adaptation, Indian Writing, Literature and Ecology
- i) GEOGRAPHY: Environmental Geography, Regional Development and Planning, Fluvial Geomorphology, Urban Geography
- j) HISTORY: Environmental History, Agrarian History, Legal History, Economic and Labour History; Indian Textual and Narrative Traditions, Indian Philosophy of Language, Indian and Western Hermeneutics, Representation of Music and Dance in Sculptures and Palm-leaf Manuscripts of Odisha
- k) ODIA: Comparative Literature(Novel), Tribal Language and Literature, Bhanja Sahitya, Adivasi Life and Culture, Jaganntha Sanskruti
- l) POLITICAL SCIENCE: Leadership Cultures & Tribal Women
- m) SANSKRIT: Veda, Classical Sanskrit Literature and Samhita
- n) COMMERCE: Corporate Actions, Risk Analysis & Volatility Models, Investment Decision Behaviour; Accounts And Finances, Equity Cash Market Analysis and Personal Finance, Portfolio Management.

### **Custodian of the Policy**

The implementation and updating of the research policy is carried out by the Principal/Director, Research Cell. The Research Policy shall also have a Research Advisory Cell to function under the HODs of different PG Departments to assist and advise in matters related to research within their departments.