

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1

Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

Response: 4.29

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

2022-23	2021-22	2020-21	2019-20	2018-19
1.87	0	0	2.25	0.17

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.2 Innovation Ecosystem

3.2.1

Institution has created an ecosystem for innovations, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident

Response:

1.IKS initiatives

Oral Knowledge Transmission:

- BKC College preserves the tradition of oral knowledge transmission.
- Self-written poetry reading sessions and debates provide platforms for sharing wisdom and insights.

Cultural Celebrations:

- Collaborative academic endeavors celebrate ancient Indian culture and heritage.
- Cultural events engage students and faculty with India's rich traditions.

Value Education Programs:

- BKC College emphasizes value education, fostering ethical values and holistic development.

Webinars on Indian Philosophy and Ethics:

- National and international webinars explore the relevance of Indian philosophy. Comparative discussions on Indian and Western ethical perspectives enrich students' understanding.

Add-On Courses Addressing IKS:

- BKC College offers specialized add-on courses focused on India's cultural, philosophical, and ethical heritage.

2. Creation of IPR Cell, IPR Awareness and Outcome:

The college established an IPR cell and incubation center under the broader umbrella of the Institutional Innovation Council (IIC).

Key activities include:

- Seminars under NIPAM (National Intellectual Property Awareness Movement).
- Orientation sessions on translational research and bio-entrepreneurship.
- A national level seminar and poster competition on the "Scope of Intellectual Property Rights."
- Hosting an Add-on/Certificate course on IPR to raise awareness.

Outcome

- The IPR policy, framed subsequently, serves as a protective framework for intellectual property rights while fostering innovation and collaboration.
- Notably, the college successfully filed a design patent for the "Formulation of Organic Fish Food for live-bearer ornamental fishes."

3. The Incubation Center has yielded several impactful outcomes:

Mushroom Cultivation:

- The college has rapidly developed expertise in organic mushroom cultivation, benefiting collaborating institutes, panchayat-level initiatives, and NGOs by imparting training to them.
- The Training programs and knowledge dissemination contribute to sustainable agricultural practices.

Bioenzyme Production:

- The center was actively engaged in bioenzyme production through organic wastes. These enzymes find applications in the formulation of eco-friendly household cleaning solutions, plant nutrients sprays etc. Thus, addressing agriculture and waste management.
- Design Patent for Organic Fish Food:

- The faculty and the student group working under BIRAC project was granted a design patent for the “Formulation of Organic Fish Food for live-bearer ornamental fishes.” Vide patent office journal no. 12/2024 dated 22/03/24
- This innovative solution promotes fish health while minimizing environmental impact.

Guppy Fish Utilization for Dengue Prevention:

- Leveraging guppy fish for dengue prevention showcases creative thinking.
- Guppies are known to consume mosquito larvae, contributing to disease control.

Other initiatives for knowledge creation and transfer:

Support for Doctoral Research and Projects: College encourages faculty members to pursue doctoral degrees (PhD) and promotes publications in various channels including UGC care listed, Indexed journals, peer-reviewed journals etc. Students are also encouraged to publish their works in reputed journals.

Job readiness and capacity building for students: IQAC with Career counselling cell regularly organizes activities through career fairs, MSME visits, career counselling and offering courses apt for job readiness.

It also organizes various seminars on research methodologies for upskilling; seminars to explore relevant social issues and perspectives, introduced several Certificate and add-on courses to enhance practical skills, organized faculty development and capacity building workshops, skill development programs for faculty and non-teaching staff, health initiatives through awareness camps and seminars

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.2.2

Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years

Response: 85

3.2.2.1 Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years

2022-23	2021-22	2020-21	2019-20	2018-19
18	14	26	17	10

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.3 Research Publications and Awards

3.3.1

Number of research papers published per teacher in the Journals notified on UGC care list during the last five years

Response: 0.65

3.3.1.1 Number of research papers in the Journals notified on UGC CARE list year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
11	09	11	09	03

File Description	Document
Link to the uploaded papers, the first page/full paper(with author and affiliation details)on the institutional website	View Document
Link to re-directing to journal source-cite website in case of digital journals	View Document
Links to the papers published in journals listed in UGC CARE list or	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

3.3.2

Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response: 0.83

3.3.2.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years

2022-23	2021-22	2020-21	2019-20	2018-19
25	18	06	04	02

File Description	Document
List of chapter/book along with the links redirecting to the source website	View Document
Institutional data in the prescribed format	View Document
Copy of the Cover page, content page and first page of the publication indicating ISBN number and year of publication for books/chapters	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

3.4 Extension Activities

3.4.1

Outcomes of Extension activities in the neighborhood community in terms of impact and sensitizing the students to social issues for their holistic development during the last five years.

Response:

Response:

The college, through its various Committees and Cells; NSS, SAP, ICC, Equal Opportunity Cell and TC Council is engaged in several outreach initiatives in the local community to generate social awareness and contribute to the holistic development of students.

Community Service Projects:

The NSS is actively involved in community work like Special Camp for social welfare activities in the adopted Slum viz Sanitation drive, educational Kit Distribution, health check up camps rehabilitation programs for Slum inhabitants in the adopted slum area in Baranagar locality. NSS regulars holds special camps for Community like eye check up camps, thalassemia blood screening camps.

The IQAC is involved in special community outreach awareness campaigns and interactive drives on dementia, mental health where local community is invited.

The **SAP committee** of the College works tirelessly promoting environmental conservation activities in the college and in its neighbourhood.

The **Internal Complaints Committee** of the College works relentlessly in promoting gender sensitisation issues.

The **NSS volunteers** are actively involved in volunteering activities as a part of logistics, transport and hospitality for the Government of West Bengal.

Awareness Drives and Campaigns :

- 1.Social Awareness :** To nurture social awareness on various national issues ,the students regularly participate in awareness campaigns and drives on National Consumer Awareness , Disaster Management.
- 2.Instilling Nationalism :** To promote awareness on national integration and concepts of secularism, democracy, the College students regularly celebrate and participate in Campaigns initiated by the Government of India like Har Ghar Tiranga ,birthdays of freedom fighters, National Days like Independence Day, Republic Day
- 3.Environmental Awareness :** The SAP unit of the College regularly organizes different drives like ban plastic campaign, Water Preservation drive , Tree Plantation drive, Sanitation drive. The College boasts of a biodiversity zone in the Campus namely '**the Janaki Ammal Grove**'.
- 4.Health Awareness :** The NSS unit organizes Community education and medical camps and awareness programs viz. social awareness about HIV-AIDS, Cancer , thalessemia
- 5.Science Awareness :** The College is actively involved in promoting science in the community through National Science Day Celebrations where local school students are invited to visit the College as a part of endeavor to impart scientific knowledge
- 6.Gender Sensitization :** The ICC holds Workshops on awareness of women's rights, health and celebrating the the International Womens' Day through talks, poster campaigns, debates.

Social Responsibility Activities:

The organization frequently plans fundraising activities for charitable purposes .The Teachers Council of the College has made a significant contribution to Bikashayan ,an NGO ,working for persons with special needs.

Outcome

Involvement of students directly in community service and outreach activities helps students in inculcating :

- A special bond with those people or organizations being served.
- Boosts self-confidence, self-esteem, and a sense of accomplishment
- Connections with professionals and community members help the students in learning and career opportunities Greater sense of personal efficacy, personal identity, compassion.
- Improved social responsibility and citizenship skills
- Greater interpersonal development, particularly the ability to work well with others, and build leadership and communication skills

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.4.2

Awards and recognitions received for extension activities from government / government recognised bodies

Response:

Response:

The NSS unit of the College is actively involved in community outreach social welfare activities in the neighborhood and the adopted slum.

The SAP team works tirelessly in green initiatives, sanitation and energy conservation drives.

Award for the NSS Volunteers :

Certificate from Government of West Bengal :

- Appreciation certificate for NSS volunteers for assisting in management of Control Room, Logistic, Transport, Hospitality In Govt. of West Bengal event (Credit Card Distribution Ceremony Program)

Award for the Institution

- The Institute has received recognition for Social Entrepreneurship, Swachhta & Rural Engagement Cell (SES REC) for implementation of SES REC action plan and constituting ten working groups for improving facilities in the campus and the community/ adopted villages by MGNCRE-MoE-GoI.
- The Institute received District Green Champion Certificate for North 24 Pargana District for the year 2020-21 from MGNCRE-MoE-GoI.
- The Institute has been recognized as a member of Beat Covid Campaign initiative of MGNCRE, Hyderabad
- The Institute has been recognized as Nodal Centre for Indian Institute of Remote Sensing (IIRS) Outreach program on GIS and Remote Sensing.

Award for the Faculties

- Dr. Santanu Debnath, Environmentalist of the Year, International Foundation for Environment and Ecology in year 2019.
- Dr. Santanu Debnath, Young Faculty Award Recognition as meritorious Faculty from International Benevolent Research Foundation in year 2022.
- Dr. Papia Chakraborti, Outstanding Teacher Award Excellence in Teaching, Presidency University, Kolkata during the session 2022-2023.
- Dr. Anirban Barman, Swami Vivekananda Youth Services Award Meritorius Youth Service, Indian Academic Researchers Association (IARA) in the year 2022.
- Dr. Shampa Bhattacharyya, Sampriti Samman, Research and publication in women studies, theatre, Sampriti Academy, Milonbithi in year 2023.
- Dr. Biswarupa Ghosh, Coordinator for Online Training Courses conducted by IIRS, ISRO Dehradun

Award for Students in

- Sports
- Cultural
- Science
- Entrepreneur
- Literature

Award to Students

- **From B.K.C College Alumni Association**

The Alumni Association has instituted academic prizes for students topping in honours subjects at the university examinations.:

- Dipsikha Kali Smriti Puroshkar for highest marks scorer in Bengali Honours.
- Prof. Â Nirmalendu Mukherjee Smriti Puroshkar highest marks scorer in Bengali Honours with first class and Chemistry Honours with first class.
- Dr. Sabita Dutta Mazumder Memorial Award highest marks scorer in Mathematics Honours.
- Prof. Birendralal Lahiri Smriti Puroshkar highest marks scorer in Science Group.
- Highest marks scorer in Chemistry Honours.
- Dr. Satyajit Kali Smriti Puroshkar highest marks scorer in Zoology Honours.

- **Debanjana Singha Roy Medal and prize (Topper in Chemistry Honours)**

Dipro Sarkar in 2022

Soumyadip Bhawmik 2023

- The college awards prizes and certificates every year to meritorious student and to students who excel in cultural activities and sports. The **Internal Quality Assurance Cell (IQAC)** has introduced a special award, "**Student of the Year**" annually for an all round meritorious student.
- **Special Appreciation and prize money from B.K.C College Staff Cooperative Society for**

Credit Society Limited

- For toppers in Science and Humanities

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.4.3

Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community during the last five years.

Response: 22

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC etc., year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
05	05	02	05	05

File Description	Document
Photographs and any other supporting document of relevance should have proper captions and dates.	View Document
Institutional data in the prescribed format	View Document
Detailed report for each extension and outreach program to be made available, with specific mention of number of students participated and the details of the collaborating agency	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

3.5 Collaboration**3.5.1**

Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship,

on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

Response: 19

File Description	Document
Summary of the functional MoUs/linkage/collaboration indicating start date, end date, nature of collaboration etc.	View Document
List of year wise activities and exchange should be provided	View Document
List and Copies of documents indicating the functional MoUs/linkage/collaborations activity-wise and year-wise	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document