



Rayat Shikshan Sanstha's  
**Karmaveer Bhaurao Patil College Vashi**  
(Empowered Autonomous)

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**Criterion VII – Institutional Values and  
Best Practices**

**Key Indicator - 7.3 Institutional Distinctiveness**

**Portray the performance of the Institution in one area  
distinctive to its priority and thrust within 1000 words**

## **Distinctive area of college is- Promotion of Research and Innovation**

Rayat Shikshan Sanstha's Karmaveer Bhaurao Patil College, Vashi is a renowned educational institution that has consistently strived to excel in various areas of academic and extracurricular activities. One area that has been distinctive to its priority and thrust is the performance in the field of **Research and Innovation**.

The college has always placed a strong emphasis on promoting a culture of research and innovation among its students and faculty members. The key factors that have contributed to the success in the field of research and innovation are as below:

1. **Strong research facilities:** Research is an integral part of the curriculum at UG, and PG level and there are six research centres in the institute. The laboratories of the science departments are regularly upgraded with advanced instruments and equipment. The institute has developed a “**Centre for Research, Consultancy and Technical Services**”- a **FDA certified research facility** that is equipped with modern infrastructure and research facilities. The centre is ISO 9001:2015 certified and will soon acquire the **NABL certification**. The institute also harbours a **Common Instrumentation Facility** to house high-end instruments to cater to diverse needs of the researchers. The recent addition of **Scanning Electron Microscope** makes us the only college in the Mumbai University to possess it. Some other noteworthy instruments are- Vitek 2 an automated microbial identification system by Biomeriux, FTIR, CHNS Analyzer, Gas Chromatography, HPLC, etc.
2. **Financial allocation for research and innovation:** The institute’s commitment to fostering a robust research and innovation culture is evident through the allocation of large funds for enhancing the research and innovation. In the last five years, the institute has spent Rs. 165.40 lakh on enhancing the research facilities and research grants of Rs. 81.8 Lakh were disbursed to 50 teachers and students. Innovation grant of 18Lakhs was given to 9 innovative project ideas to pursue. The grants that helped substantially to elevate the research infrastructure are **Component 8 of RUSA, DST-FIST, DBT-STAR, UGC-Autonomy**.
3. **Well-defined policies for research and innovation:** Research Promotion Policy was initiated in 2018-19 to develop and promote research culture and increase the research output in terms of publications and patents. This comprehensive research policy that governs both teachers and students outlines guidelines for conducting research, sharing facilities, data management, ownership, publications & patents, and plagiarism, etc. The institute also has a stringent Research Ethics Policy explaining the ethical responsibilities of the researchers. Innovation policy is well crafted to suit creation of ecosystem to support entrepreneurship.
4. **Encouragement to participate in Research Conventions:** The College has always actively encouraged students to participate in various research competitions, conferences, and symposia. Our students have received awards at zonal, interzonal and university level in the *Avishkaar* research convention organized by the University of Mumbai.
5. **Organization of National level conferences:** In the current assessment period the institute has organized 156 conferences/workshops/seminars. Among these a noteworthy

mention is of *Rayat Vidnyan Parishad* in December 2018 that hosted 3000 students and teachers for three days.

6. **Research Promotion and Ethics Committee:** monitors and promotes research activities in the institute. Screening research proposals, publications, and patents is the responsibility of this committee. Turnitin is used for checking plagiarism.
7. **Experienced and knowledgeable teachers:** who are actively involved in conducting research in their respective fields. Their expertise and guidance have played a crucial role in inspiring and mentoring students to pursue research and innovation.
8. **Fostering a culture of innovation:** The institution took the mandate for promoting invention, innovation and incubation in 2018-19 and established a centre named as “**Rayat Centenary Innovation Incubation Foundation**” that was inaugurated on 28th June 2019. It is registered as a company under Section 8 of the Companies Act, 2013, since June 2022, which is located at Kharghar, Navi Mumbai. It is state of the art Incubation Centre with the built-up area of 2372.20 Sq. Mts. The principal aim of the centre is to conduct scientific research, training and innovation which can result in impactful entrepreneurship.
9. The college has established an **Institutional Innovation Cell** registered with the Ministry of Education, Govt. of India in 2020-21. The cell conducts a variety of programmes to promote innovation. Many activities were conducted to promote entrepreneurship like- National workshop on Emerging Trends in Entrepreneurship Research, workshop on Setting up the Food Processing Unit, etc.
10. **IPR Cell:** Ten workshops particularly on Intellectual Property Rights and related topics were conducted for students of different departments. IPR is included in the curriculum of every program.
11. An "**Entrepreneurship and Skill Training Centre**" was also established under the aegis of RUSA [MHRD] in 2019 that was inaugurated digitally by **Hon. Prime Minister Narendra Modi**. The centre also conducts a variety of programmes that can support entrepreneurship.
12. **Felicitation of research and innovation achievers:** Every year IQAC felicitates researchers for their publications and patents to motivate to them for better work.
13. **The impact:**
  1. Publications and patents: With **144 papers** featured in the UGC CARE listed journals of which **128 research papers** showcased in **Scopus/Web of Science listed journals [the highest Impact factor: 10.1]**, the institute has solidified its scholarly impact. **32 patents** were **published** and **one patent** was **granted** by the Australian Government.
  2. The number of research centers and research scholars has also increased in the past five years.
  3. Many of our alumni are studying in international universities of repute and working at great positions in world famous institutes and organizations. To name a few- Dr. Parag Vaishampayan is working for as a Division Chief of Space Bioscience Division of NASA, Dr. B. Ravikiran is working as Senior advisor Center for Disease Control and Prevention, Atlanta USA and Dr. Radhika Pochampalli is Biochemistry professor in University of Mississippi Medical Centre.
  4. **Research collaborations:** Some of the prominent research collaborations are Indian Women Scientists’s Association, Nanoram Technologies, etc. Many teachers have international collaborations with institute of repute. For instance,

University of Newcastle, Australia, Nagoya Institute of Technology, Japan, King Khalid University, Saudi Arabia, Chonnam National University, South Korea, University of Johannesburg, South Africa.

Thus, our endeavours in Research and Innovation gives us the uniqueness and distinctiveness amongst the HEIs in the area.