

Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil Mahavidyalaya Pandharpur
(Autonomous)

BEST PRACTICE - I

1. Title of the Practice

STUDENT-TEACHER RESEARCH CELL

2. Objectives of the Practice

The practice has objectives as stated below:

- To promote collaborative research and research publications
- To generate scientific temper among the students
- To expose students to the recent trends and developments in the field of science, technology and humanities
- To inculcate research culture in the mind of students
- To channelize and monitor research activities in the college
- To undertake local need-based research projects and survey
- To organize scientific exhibitions with focus on social welfare
- To enhance the skills and develop research aptitude among the students
- To encourage and supervise the students so as to convert the ideas into startups
- To encourage students to participate in research and academic events

3. The Context

The research and publication of the same has become an inevitable practice in higher education at present. The National Education Policy 2020 has emphasized research, patents and commercialization of the patents. In our journey from research to the commercialization of the research output, the institute has taken positive steps towards excellence. The students are made aware of the necessity that they need to look at research as a part and parcel of life. Research has been at the core of human existence and innovative ideas and inventions will make the world better place to live not only for them but for future generations too. The college has Ph.D. research centres and recognized and well-equipped laboratories to carry out research activities. The students of UG and PG have an opportunity to be guided by recognized research supervisors at each research centres in the college. The research infrastructure in the college has been upgraded with the financial assistance from various funding agencies including DIST-FIST, UGC and RUSA. It has potential to nurture and cultivate research temperament among the students. Expert from various field encouraged the

students so as to pursued them to come up with innovative ideas. The recognized research supervisors and young faculty members encouraged the students to overcome these hurdles.

4. The Practice

The Student Teacher Research Cell in collaboration with the Research and Development Cell and IQAC, conducted a variety of activities to promote research among the student fraternity. The basis of this practice is to encourage and strengthen students research and generating innovative ideas. As per the National Education Policy, the higher education institutions need to focus on research and innovations resulting in startups. Therefore, the students are encouraged to undertake need research projects and surveys so as to come up with tangible solutions to the local needs. This cell has meticulously devised action plan with focus on developing research temperament and aptitude of the students. Research events are organized at the college so as to provide platform to the students to come up and present their ideas. The interested students are guided by the mentors assigned by each department. The activities like Poster Presentation through Mini Avishkar at college level, exhibitions of scientific models prepared by the students based on various themes, participation of students in Seminars, Conferences, Workshops and such events where they get exposed to the recent developments and research in respective fields. Innovative ideas are collected from the students centrally by Incubation Centre. The students along with mentors are encouraged to present and publish research papers in reputed journal notified by UGC. The students get an opportunity to meet a number of experts and researchers through national and international seminars and conferences organized in the campus.

5. Evidence of Success

The success of the Student Teacher Research Cell has become evident through increased publications and participation by students in research activities. The success can be mapped through following parameters:

1. ‘Innovative Research Fest’: Mini Avishkar Competition

The Innovative Research Fest 2022-23 i.e. college level research convention was organized on 19th October 2022 by Student-Teacher Research Cell, R 7 D Cell and IQAC. The main objective behind organizing this fest is to enhance research activities and inculcate scientific approach among the students. There were 49 posters and 12 models with 72 participants for the Avishkar research competition. The competition was carried out at college level in three categories that is, UG, PG and PPG and six disciplines that is, pure sciences, arts and humanities, commerce and management, agriculture

and animal husbandry, medicine and pharmacy, engineering and technology. The rankers were provided with the trophies and certificates of participation.

2. Scientific Exhibitions:

The National science day was celebrated on 28 February 2023 in collaboration with IQAC and faculty of science and technology. On this occasion, activities such as exhibition of millet products, scientific posters, scientific equipment, and scientific models were organized. The basic intention behind organizing this activity was to make students aware of the millet products, to develop scientific approach and to make them aware of the recent trends in science. In Student Creativity Exhibition 69, Science Day Model Exhibition 93, Poster Exhibition 16, Exhibition of Fish products on the occasion of Fish Day 43 students enthusiastically participated. The students were guided by the invited experts on this occasion.

3. Students Research Projects:

Under the Student Teacher Research Cell initiative, minor research projects are given to both students and teachers to encourage research activities. The topics of these projects are selected based on their relevance and importance to the community. These projects provide students and teachers with an opportunity to explore their research interests and contribute to the development of their respective fields. The cell also organized various conferences and seminars on relevant topics to promote research culture among students and teachers. These events provide a platform for researchers to present their work and exchange ideas with peers from different institutions and also provide research exposure to students. During the year under report, total number of 186 students submitted their projects under the guidance of their teachers.

4. Organization of National and International Conferences and Workshops:

The various departments organized national and international seminars, conferences and workshops during the academic year in collaboration with student teacher research cell. The students of UG and PG actively participated in two-day Seminar on Translation in the Perspective of National Education Policy 2020 jointly organized by the department of English and Hindi. The department of Physics, Chemistry and Electronics organized two-day International Conference on Smart Materials for Sustainable Development, Energy and Environmental Applications. The department of Commerce and Management organized international

conference on the theme India @75: Sustainable Development through Commerce and Management. Marathi Department organized national seminar on Experimental Folk-art: Changing Scenario. The students enthusiastically participated in these events. In the academic year, students actively participated in the organization of aforesaid events.

5. Participation of students in Avishkar, Seminars, Conferences etc.

The Student Teacher Research Cell also encourages students to participate in various research competitions such as AVISHKAR. It is an inter-university research competition held annually in Maharashtra. The cell provides many benefits to students and faculty members. It promotes research culture and provides opportunities for students to enhance their research skills. The initiative also helps in the professional development of teachers by providing them with opportunities to engage in research activities. Total 22 students and faculty participated in University level Avishkar competition. The students participate in the conferences, seminars and workshops organized by various department in the college. Total of 282 students participated in National and International conferences and seminars.

6. Students' Publications:

The research students enrolled in the various research centres are encouraged and guided to publish research papers in reputed journals. The research supervisors contribute as co-authors. Apart from this, the post graduate students also are inspired and motivated to write research papers and to get them published. The teachers who are recognized guides, work as mentors for such students. During the year under report, there are 19 publications to the credit of students.

6. Problems Encountered and Resources Required

In the implementation of the best practices, we were expected to overcome a number of obstacles including lack of awareness among the students regarding research and innovations, limited resources at analytical level, reluctance of students at initial stages.

The resources required for the implementation of the best practice are laboratories with upgraded instruments, availability of reputed journals, collaboration with reputed research institutes, internship in research institutes particularly for students, financial provision for material and resources.

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