

## BEST PRACTICE 2

### **Title: - Promotion of Research Culture**

**Aim:** To motivate students and faculties to enhance research activities for the benefit of community.

**Objectives: -**

- To enhance research interest among students and teachers of the institution.
- To facilitate community-oriented projects through outreach programmes.
- To encourage UG/PG students to organize / participate in seminars and conferences to unfold new areas of research
- To upgrade the library facilities towards research and development.
- To motivate students to undertake value added projects.

**The Practice: -**

The following practices are taken up by the institute for promotion of research among students, teachers and community: -

1. Students are encouraged to participate at Avishkar research convention held by university of Mumbai every year.
2. IQAC and Science Association Committee publishes science bulletin and organizes project exhibition, research poster competition, celebration of science day etc.
3. College organizes research poster presentation of PG students in the premises which is open for UG students, Junior college students.
4. Rangoli exhibition on Green chemistry, Global warming and AIDS awareness has been organized as a social issue.
5. In the beginning of the academic year orientation programme for the students is organized to motivate them for research competition and projects.
6. Research committee conducts orientation programme for the teachers to encourage them for undertaking MRP's under University of Mumbai, DST, UGC etc.,
7. Teachers and students are encouraged to publish their research article in National/ International Journal of high impact factor.
8. Teachers and students are encouraged to attend conferences, seminars, workshops, etc.

### **Implementation: -**

Institute has active research committee and it believes that research plays an important role in the growth of an institution. Under the guidance of research committee department of science streams such as Chemistry, Physics, Botany, Zoology has submitted research proposals to the funding agencies such as UGC, DST and University of Mumbai. Proposal has been submitted Maharashtra Pollution control board for continuation of research collaboration for monitoring two NAMP points at MIDC Dhatav. Teachers and students are encouraged to participate in Avishkar Research Convention of University of Mumbai and National / International conferences. Teachers and students are encouraged to attend seminars, conferences/workshops. Financial support is given to them for their participation/involvement in such ventures. Teachers are encouraged to pursue M. Phil./Ph.D./Post-doctoral degree in their respective subjects under the motivation of IQAC and research committee. They are also encouraged to acquire recognition as research guides from university and process is initiated to start Ph.D. Programme in respective subjects. For collaborative research Placement and interaction with industries, institution form number of MOU's with pharmaceutical and chemical industries.

To facilitate research and research scholar's reference section in the Central Library is developed by

- Subscription of national/international research journals/periodicals.
- Provision of NLIST-INFLIBNET Programme to access online research journals.
- Provision of internet facility in labs and department

### **Evidence of Success: -**

It is matter of pride that the efforts of IQAC and research committee gave fruitful results and brought success stories for institution such as -

- ❖ As a result of this faculty of institution has got recognition as a teacher to guide Ph.D., M.Sc. by research, M. Sc. by papers under University of Mumbai.
- ❖ From last four years, Dr. D.V. Bhagat has been nominated as a District coordinator for Avishkar research convention conducted by University of Mumbai.
- ❖ IQAC and Science association committee organizes research poster presentation of PG students in the premises, which is open for UG students, Junior college students.
- ❖ Teachers and students are encouraged to publish their research article in National/ International Journal of high impact factor and to attend conferences, seminars, workshops, etc., Faculties have published **77** research papers in National/International Journals. Out of that 20 papers published in web of science, Scopus indexed journals,

remaining papers are published in UGC care listed, and peer reviewed journals. With this inspiration of faculties, they visited and presented papers in National/International conferences.

**Research funds sanctioned and received from various agencies, industry and other organizations**

Name of the research project/ endowment	Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned	Duration of the project	Name of the Funding Agency
Minor Research Project	Dr. D. V. Bhagat	Chemistry	2017-18	30,000	1 year	University of Mumbai
Minor Research Project	Dr. S. D. Patil	Chemistry	2017-18	25000	1 year	University of Mumbai
Minor Research Project	Dr. S.D.Tupare	Chemistry	2017-18	25000	1 year	University of Mumbai
DST-FIST		Chemistry	2017-18	2000000	5 year	DST-FIST
Minor Research Project	Dr. D. V. Bhagat	Chemistry	2021-22	30,000	1 year	University of Mumbai
Minor Research Project	Dr. S. D. Patil	Chemistry	2021-22	50,000	1 year	University of Mumbai
Minor Research Project	Dr. S.D.Tupare	Chemistry	2021-22	40,000	1 year	University of Mumbai
Minor Research Project	Dr. V. R. Jadhavar	Chemistry	2021-22	40,000	1 year	University of Mumbai

**List of faculty members pursued Ph.D. degree in period 2017-22**

Sr. No.	Name of the teacher	Date of Ph.D. degree Awarded	Department	Ph.D. degree awarding University
1	Dr.(Mrs.) P. Nirmala Jyothi	07.12.2018	Department of Zoology	University of Mumbai
2	Dr. (Mrs.) Smita T. Morbale	07.07.2017	Department of Chemistry	Shivaji University Kolhapur
3	Dr. Manohar D. Shirsath	24.02.2021	Department of Chemistry	Jaipur National University, Jaipur
4	Dr. Vikas S. Shinde	17.07.2021	Department of Physics	Dr. B.A. Technological University, Lonere
5	Dr. (Mrs.)Smita V Choudhari	13.01.2022	Department of Chemistry	University of Mumbai

### **List of faculty members pursuing Ph.D. degree**

<b>Sr. No.</b>	<b>Name of the teacher</b>	<b>Department</b>	<b>University in which pursuing Ph.D. degree</b>
1	Mr. Hemant F. Jadhav	Department of Library and Information Science	Sant Gadge Baba University Amaravati
2	Mrs. Chaitrali S. Patil	Department of Chemistry	University of Mumbai
3	Mrs. Poonam D. Joshi	Department of Chemistry	University of Mumbai

### **Details of students participated at university level Avishkar research convention in last five years**

<b>Academic Year</b>	<b>No of Projects Participated</b>	<b>No of Students Participated</b>	<b>No of Merit Students</b>
2017-18	06	19	05
2018-19	10	22	05
2019-20	09	20	05
2020-21	04	11	04
2021-22	08	28	08

- ❖ Department of science streams has submitted research proposals to the funding agencies such as UGC, DST and University of Mumbai.

**Contact Details :-**

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