

P.S.G.V.P. Mandal's, S.I.Patil Arts,
G.B.Patel Science & S.T.K.V.S.
Commerce College, Shahada



Best Practice II





NAAC Reaccredited-'A'
grade in 3rd cycle

PSGVP Mandal's

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7.2.1 Best Practices

BEST PRACTICE II

1. Title of the Practice

Research and Innovation Activity [RIA]: (Research Oriented Practices)

2. Objectives of the Practice

At college level Teaching-Learning-Research activities are of prime significance for inculcating all three temperaments in the students right from the beginning of their higher education. Teaching and Learning are part and parcel of curriculum but students get exposed to research in their final year of post-graduation only. The college has thereby taken initiatives to inculcate the values of research by promoting participation in seminars, conferences, poster presentations and Avishkar. The objective is to create insight amongst students as well as staff for research oriented innovative activities. They shall become aware of their research aptitude and put in efforts for its implementation.

3. The Context

Research projects are a part of dissertation work for PG students. The college has laboratories recognized for Ph.D. and several staff who are recognized guides of affiliated universities. The management and principal are instrumental for provision of research facilities to staff and students. The research-oriented approach has motivated the students, research scholars and staff to take up research projects. ICT based teaching has promoted research interests in students. Liberty for publication of work, book writing, writing chapters in books of international publishers, handling projects, presentations in National and International Conferences, International visits for invited talks, MoUs etc have developed research attitude amongst the beneficiaries. Involvement of staff at National and International level has instilled the research-oriented approach amongst the students. This approach shall promote start ups in the region and generate employment for the youth. Agriculture based research shall support the farmers in the region.



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4. The Practice

AVISHKAR, a research-based activity is organised by the university to promote innovation and research. The college has formulated AVISHKAR committee which plays a leading role in motivating graduate, post graduate, Ph.D. students and young staff to present their original work at district, university and state level and win exciting awards for the same. Students and staff participating in the event have reached state level to be the winners of the event which is a matter of pride for the college. Teaching staff of the college mentored the students for making their posters and presentations for their work. .

The college has nine recognized laboratories for research and twenty supervisors are involved in active research guidance to Ph.D. scholars. The College Research Committee is instrumental in monitoring various research activities. The college has run major and minor research projects funded by UGC, DST, BRNS and university. The research work is published in journals of National and International repute having high impact factors. The college staff have published several text books as well as books valuable for research. Staff is instrumental in writing chapters for books published by Springer, Apple Academic Press, etc.

The post graduate students have to undertake projects in their final semesters as part of their curriculum. The projects are so assigned to help the students to learn as many techniques as possible and handle maximum number of equipment available in the laboratories and in the Central Instrumentation Laboratory of the college.

ICT based teaching methods are practised in Science Departments specifically to demonstrate research methodology, techniques, working of appliances, animated videos etc. This develops application-based skills of the students which could help them in their research-based endeavours. Audio-visual aids and texts used for teaching help in delivering enhanced knowledge with high order thinking skills.

The college has been organising conferences, seminars, symposia, webinars, poster competitions on the occasion of Science Day to promote interactive activities based on national themes. Science Quiz contest is organized is the college to keep the students updated about the recent developments in Science and Technology.



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Students were guided for CSIR-NET examinations to promote their entry in research. Students were given preliminary information of the exams. They were guided regarding tips and tricks for cracking the exam along with strategic study plans. The objective was to drain the fear regarding these exams and build up their confidence levels. Experts were invited on this occasion.

5. Evidence of Success

Participation in AVISHKAR was overwhelming due to the motivation of students and staff. In 2019-20 thirty three groups each comprising of two students from undergraduate level, sixteen students for post graduate, four from PPG and eight participants from teacher's group participated in AVISHKAR. One teaching staff member amongst the participants could reach the state level to bag first prize.

The number of publications, book chapters, presentations in conferences, seminars etc. has been consistently rising from 2017 to date. Apart from this the college has been supporting research by providing financial support to teachers for attending seminars, conferences. Fifty seven teaching staff members were provided with funds amounting to INR 1, 39, 878/- during last five years.

Several MoUs have been signed wherein the instrumentation facilities shall be availed by research students and PG students of the college. Interdisciplinary research is promoted in the college by providing consultancy services at nominal rates to research scholars for carrying out various biochemical tests, microbiological and qualitative tests.

Eleven laboratories are recognized for research, twenty supervisors are recognized by the university to register for Ph.D., twenty-three students have completed Ph.D. under their guidance and thirty-three are pursuing their research work.

6. Problems Encountered and Resources Required

Setting up a well-equipped research laboratory in a remote area is a Herculean task. The management has been supportive for providing research facilities at its level best but in spite of that many advanced instrumentation facilities are still needed for which the students have to approach National Laboratories and pay the charges therein. Research funding from UGC



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in the form of Major and Minor research projects has stopped since several years and thereby very few projects are being granted to the college. This minimises the availability of funds for setting up advanced research facilities.

7. Notes (Optional)

Research and innovation needs to be a part and parcel of curriculum right from graduation. Students' motivation to carry out projects independently is necessary. Counselling sessions for undertaking projects, writing research papers, review articles, carrying out survey projects etc., should be organized mandatorily for all the students once in ever semester.


IQAC Co-ordinator

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