
BEST PRACTICES

1 Environment Consciousness

Nearly 60 years ago, the founder President of Poornaprajna Institutions acquired nearly 7 acres of land in the center of Udupi city in order to cater to the quest for education of the weaker sections of society. His aim was to provide a campus where young minds would be inspired.

As a step towards progress a lot of interest was taken by our college to nurture greenery, to create awareness regarding environment, to reduce pollutions of varied kinds like those of sound, heat and air to make the campus eco friendly, several activities were initiated.

1.1 Does the Institute conduct a Green Audit of its campus and facilities?

- The institution has a system for green-auditing of its facilities which is carried out informally by the NCC, NSS and Eco. club of the college
- The Eco. club identifies the different species of plants and then these species are named and labeled
- NSS has adopted a policy of maintaining the Ecology by planting saplings, removal of weeds and cleaning the campus regularly
- Students and staff have planted several saplings during various tree plantation programmes like Vanamahotsava
- Saplings which are planted during Vanamahotsava are maintained by a gardener and students of the institution
- Special talks related to environment are held frequently
- Though the college is in the heart of the city, care has been taken to keep it free from all kinds of pollution
- Use of plastic bags is banned in the campus. NSS has always striven to preserve a plastic free campus
- Bio degradable solid waste is used by the vermiculture unit
- Students and staff are encouraged to use jute bags or cotton bags
- Care is taken to ensure that the college environment has low levels of carbon emission and low pollution level so that the campus is healthy for all
- Use of LPG in laboratories, canteen and hostel
- There is an arrangement to park all vehicles close to the entrance so that there is minimum noise pollution and atmospheric pollution
- There is no entry to these vehicles to the remaining part of the campus
- The college and its surrounding is declared as 'No Tobacco Zone'
- Used papers are given to an agency for recycling
- Water management is practiced

1.2 What are the initiatives taken by the college to make the campus eco-friendly?

The following are some of the steps taken by the institution to make the campus eco-friendly.

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- **Energy conservation**
 - Classrooms are well ventilated and they hardly need any artificial lighting which helps a lot in conservation of electricity
 - Every department follows a policy of making use of lights and fans only when required
 - Solar water heaters are used in hostels
 - Computer monitors which are used are LED, LCD or TFT types to ensure minimum use of electricity and also to reduce the level of radiation
 - **Use of renewable energy**
 - Solar water heaters are used in hostels
 - Minimize the use of paper
 - **Water harvesting**
 - A large area of the ground in the campus is grassy which helps in absorbing rain water and maintaining the water table
 - Since the water table is high, the traditional way of water harvesting is not practicable
 - **Check dam construction**
 - Not applicable
 - **Efforts for Carbon neutrality**
 - Restricted use of vehicles inside the campus
 - Planting tree saplings in the college campus
 - College has made arrangements for the parking of all vehicles near the college entrance. This helps in keeping the campus free from pollution
 - The campus is also smoke free
 - Bio degradable waste is separated from non biodegradable and is disposed for further use
 - Use of LPG in laboratories, hostel and canteen
 - **Plantation**
 - Eco. club and NSS have incorporated the following activities regarding the planting tree sapling:
 - Celebration of Vanamahothsava
 - Maintaining gardens
 - Removal of weeds
 - A sacred grove is maintained at the centre of the campus
 - A number of saplings have been planted which are of medicinal use
 - **Hazardous waste management**
 - There is a system of disposal of waste on a daily basis
 - The use of pesticides and other harmful chemicals in the garden is replaced by adopting organic methods of gardening
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- In order to dispose the acidic fumes, Chemistry labs are equipped with exhaust fans
 - Minimizing the use of hazardous solvents and use of water based experiments
 - **E-waste management**
 - The small amount of e-waste produced like old CDs, computer monitors, keyboards are disposed off safely
 - E-wastes management is also done by 'Buy back system'
 - Damaged parts of computers and unrepaired instruments are used by the instructors for practical demonstration and by students in Model preparation

2 Innovations

2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.

Our college has introduced several innovations in different fields such as:

- Innovation in curricular aspects:
 - Introduction of M.Com., M.Sc. Mathematics PG courses in the campus
 - Additional certificate courses have been introduced
 - Introduced Vocational batch in Commerce stream
 - Students exhibit models during state and national level seminars
- Innovation in Teaching, Learning and evaluation:
 - Installation of green boards in the class rooms
 - Well equipped laboratories
 - Wi-Fi connections in all departments
 - Shifting of class rooms whenever necessary
 - Orientation programmes for the faculty
 - Lecturers are trained to appear for NET/KSET
 - Motivating students to involve in creative activities conducted by various departments
 - Change in the 'teacher evaluation' pattern
 - Evaluation of teachers by students
 - Students demonstrate experiments, exhibit models, charts, collage and make presentations in the outreach programmes
 - Small projects are given to students to develop creative thinking
 - Self evaluation of answer script by students
- Innovations in research consultancy and extension:
 - Providing research facilities for students
 - Minor research projects are undertaken by some of the members of faculty which are funded by the UGC
 - Projects by students
 - Students who are selected on the basis of merit are sent for research to institutions like JNCAR, PPISR

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- Meritorious students are encouraged and guided to attend INSPIRE, MTTTS, YTN, programmes
 - Heritage walk undertaken
 - Archaeology museum is maintained
 - Peer group interaction with alumni who are into research
 - Workshop was arranged for high school teachers
 - Students are trained to use Telescopes for skywatch.
 - Innovation in Infrastructure and learning processes:
 - Indoor stadium
 - Online admission process implemented
 - Sports complex
 - Hostel facilities within the campus
 - Extended laboratories
 - PG block
 - CC Cameras as a security purpose
 - Extended library
 - Use of LCD
 - Audio visual room
 - Innovation in student support and progression:
 - Introduction of new certificate courses
 - Coaching for competitive exams like KVPY, IAPT, JAM, JUST, CAT
 - Providing opportunity to interact with scientists like Bharat Ratna Dr.C. N.R. Rao, Padma Bhushan Prof.U.R.Rao, Prof.Balakrishna, IIT Mumbai, Prof.K.J.Rao, Indian Institute of Sciences, Bangalore, Dr.Kitamura, Kagoshima University Japan etc
 - Arranging Industrial visits and field visits
 - Water coolers are installed
 - Canteen within the campus
 - Curriculum oriented outreach programmes.

3 Best Practices

3.1 Elaborate on any two best practices in the given format at page no. 98, which contributed to the achievement of the Institutional Objectives and /or contributed to the Quality improvement of the core activated of the college.

Title of the practice 1: Developing the culture of Research while learning

Goal: Amrithanthu Vidya (Knowledge has no end) are the words embedded in the emblem.

There is a growing enthusiasm and a new found awareness in students towards research which is mainly due to the focus laid on research by the institution. The college strives to create an atmosphere kindling interest towards research in the young minds and to ensure an urge for innovation and intellectual curiosity in them.

The institution aims at planting the seed of curiosity in the minds of students at an early stage. Once students acquire the research frame of mind, it paves the way for greater avenues for research. Thus the ultimate goal of education that is, development of students' personality, creativity, independent thinking, is realized. Keeping all this in mind the institution has taken up research as one of its main objectives.

Context: the College caters undergraduate students .The scope for research in curriculum is not much. Students are not aware of the possibilities in the field of research. The institution aims at instilling in them a research oriented thinking, which in turn will give them an idea of what they have to pursue in this process that boosts their confidence. The institution gives primary importance to impart research skills in students which will help them to synthesize ,analyze and interpret information using appropriate disciplinary methodology. The college creates a scope to include this practice in EC and CC. This EC and CC have been made part of curriculum.

Our institution aims at extending laboratories and library facilities to students on realizing the prevailing attitude towards research. The institution tries to set clear goals connected to research and this is effectively communicated to students for their benefit. Every activity conducted under EC & CC tries to fit in a concept of research.

The Practice:

Our institute follows these practices to achieve the goals.

- In this connection our institution has collaborated with PPISR. The faculty of the research institute inspires our students.
- Every year a set of students along with members of the faculty visit Poornaprajna Institute of research Bangalore and they are trained by professionals and exposed to advanced research areas and techniques. Selected students are given opportunity to do their minor research projects
- Practical experiences through Industrial visit, field visit and educational tours
- Outreach programmes conducted by trained students to demonstrate experiments for the High school students
- UGC sponsored State, national, international seminars and workshops are conducted where opportunities are given to students to exhibit models, charts, posters
- Regular Interaction with eminent scientists of different disciplines
- Students interaction with Bharatha Rathna Dr. C. N. R. Rao, Padmabhushana Prof. U. R. Rao, have been arranged in two different occasions to get updates about ongoing research
- Assignments, Student Projects are given to stimulate and encourage students towards research
- Meritorious students are initiated into the field of research by encouraging them to apply for various Scholarships like INSPIRE were they initiate their research career

- Various certificate courses have been introduced to develop the skills of student
- Faculty takes up research which in turn motivates students towards research
- Several guest lectures and talks by various research scholars have been conducted to empower students
- Training programmes for JAM, JEST, KVPY, CAT were conducted by the college
- To encourage social science students, every year research oriented guest lectures are arranged by the Heritage club which have created an awareness among students and public regarding preservation of monuments
- College preserves monuments and manage digitalized scripts
- Students are encouraged to attend National Level Summer research oriented programme such as MTTTS by NBHM, YTN programme by ISRO and National graduate physics examinations conducted by Indian Association of Physics Teachers.
- Students are provided with ample opportunities to conduct regular practical, wherein every student gets to handle the apparatus.

Evidence of success:

- Srilakshmi Prabhu and Ramya P of III B.Sc. and Maithili K of II B.Sc. have received INSPIRE scholarship
- Manasa of III B.Sc. and Maithili K of II B.Sc. have attended summer camp in JNCAR
- Many students have secured good positions as researchers
- Evidence of students going for higher education in the field of research
- Dheemahi of II B.Sc. taken National graduate physics examination conducted by Indian Association of Physics Teachers (IAPT) and secured 12th Rank. Hence she was selected for orientation course conducted by IIT Kanpur.
- College and students have secured many laurels in the university level competitions related to curriculum.
- List of students who are pursuing research

Sridevi	Ph.D. in chemistry, IIT Chennai
Shradha	Ph.D., Photonics, Norway
Chandru Hedge	Ph.D., Mathematics, Mangalore University (submitted)
Suchethan	Pursuing Ph.D. in IIT, CSIR fellow
Sumanth	NET cleared, Pursuing Ph.D.
Namratha	Ph.D. in Chemistry, Manipal Academy of Higher Education, Manipal.
Nagaraja	Ph.D. in Archaeology, Project at U S A
Aparna	Ph.D. in statistics, Denmark
Surekha	Ph.D. in Photonics, Manipal Academy of Higher Education, Manipal
Krishnaprasad	CSIR fellow

- List of students of students secured INSPIRE Scholaships
Supriya K.M. 2010-13
Anusha, Dhanraj and Manasa C Tantry – 2011-14
Gargi N Shabaraya - 2012-15
Shrilaxmi, Manasa, and Ramya P - 2013-16
- JNC – POCE summer research scholarship for 3 years
Supriya – 2010-13
Manasa – 2012-15
Maithili – 2012-15
- The following students have attended M.T.T.S. training, which is financed by National Board for Higher Mathematics
Lavanya and Divya Baliga for the year 2011-12
Lavanya and Divya Baliga for the year 2012-13
Sowmya and Monica C Rao for the year 2013-14
Sumukh for the year 2014-15
Ananth Murthy and Varsha for the year 2014-16
- Young Talent Nurture Programme sponsored by ISRO
Abhilash H.M. for the year 2012-14

Table showing the percentage of students progressing to higher education or employment

Students Progression		Percentage/ number of students during the year			
		2011-2012	2012-2013	2013-2014	2014-2015
UG TO PG	B.A.	80%	75%	80%	85%
	B.SC	55%	60%	50%	70%
	B.COM	70%	75%	65%	70%
	BBM	65%	70%	70%	65%

Problems Encountered and resources required:

- Three major system for Social Science and Science streams adopted by the university gives lesser scope for in-depth study
- Availability of resources in college is limited
- The semester system lays constrains on availability of time
- Lack of Financial support
- Rural background of students poses hindrance
- Need for a well equipped research laboratory for students with INSPIRE scholarship at an easily accessible place

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2. Title of the Practice: Inculcating a sense of discipline in every aspect of life Goal:

The college aims at securing its objectives with excellence. A larger emphasis is laid on the modalities followed. In this regard college believes that discipline is the key to success and strives hard to provide well disciplined conducive atmosphere for learning. Discipline in the class room, campus, in the conduct of activities and society improves the attitude and behavior of students in their academic performance. Discipline is inducted in behavior, study, performance and in every walk of life. More than this it helps in personal and professional growth and leads to a value added education. The aim of the college is to instill self discipline and a sense of morality that leads to excellent in performance.

Discipline plays an important role in achieving college's mission of educating the students and it creates a positive learning environment

Context :

Our college believes in creating a sense of discipline in the formative period. It is the responsibility of college to ensure that our students should be aware of what is expected of them and it is equally our responsibility to protect them from harmful influences in the environment. The students come from various backgrounds. Therefore discipline plays important role in the studentship.

The faculty and management believe in having an optimal learning atmosphere by inculcating discipline within and outside the campus. This is achieved through a code of conduct of the Institution. With a view to build an ideal atmosphere in the college premises, students are expected to abide by the college regulations laid down in the calendar as well as those formulated from time to time by the Principal. This policy outlines the basic structure of the procedure for student discipline. Our institution tries to incorporate discipline in students in every stage of development.

The Practice:

- The discipline is inculcated from basic thinking level. College tries to inculcate the practice by trying out in all aspects.
- Every activity/programme is organized in a disciplined manner by planning well ahead, forming committees to look into various responsibilities, sticking to time schedule, avoiding wastage of resources etc.
- The college has adopted a students' membership system, which provides good opportunity for students' development.

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- The students are made to work with teachers in various committees and to know the time aspects of disciplined work culture.
 - Regular classroom teaching is done, with proper time table without any lapses
 - The concept of student mentorship through teacher counselors
 - NSS and NCC Units provide opportunity for developing talents and contribute to overall personality development of students in disciplined manner
 - Well planned college calendar, timely conduct of examinations.
 - Timely announcement of results
 - Instructions to students, about rules and regulations of the college during the orientation program by senior faculty
 - Uniform is made compulsory
 - Punctuality and regularity in attending class
 - Student can leave the premises during class hours only after, getting permission from the Principal
 - Students are made to record their absence in the college calendar and get it signed by the parent and the concerned teacher
 - Practice of morning prayer and breathing exercise add to moral values
 - Indifference to studies, non submission of practical records and assignments in time, avoiding of tests and discourtesy to establishment are seriously dealt with. These infringements can attract penal action if any student is persistent in such irregularities
 - No excursion unrelated to study requirements is conducted by the college
 - Willful absence for examinations is considered very seriously
 - Prohibition of mobile phones inside the campus
 - Restricted use of mobile phones by the faculty

Evidence of success:

- There has been a secured, feel free atmosphere in the campus
- Constant increase in number of intakes due to high reputation
- Successful in meeting needs of the society
- Appreciation by the public for the NSS students for their true involvement and discipline during NSS camps in villages.
- On visits to other college, students have been identified for their discipline and have secured the best disciplined team award in several occasions.
- All the activities /programmes have been successful.
- Punctuality in attending classes
- Successful competition of studentship in the college.
- Very few students get less than 75% attendance resulting in penalty.
- No incidents of ragging
- No groupism and no clash between students

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- College has secured 4th rank in university overall performance in sports.
 - More than 60% students passed in the distinction.

Problems encountered and resources required:

- The varied background/culture of students pose a challenge.
- At the beginning fresher's face minor difficulties in getting into the mould.
- Sometimes external forces influence the matter in the college and these are handled carefully.

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