



Internal Quality Assurance Cell

PANCH PARGANA KISAN COLLEGE, BUNDU

Best Practice-1

Title of the Practice - PROJECT BASED LEARNING

Objective:

- To improve the creativity skill of the students.
- To impart a deeper and comprehensive understanding of the students.
- To make the students understand the course content through application oriented projects.
- To develop skill among the students to work as teams.
- To provide opportunities to enhance the knowledge through collaborative study.
- To understand the latest technologies that are practiced in the fields that are related to the course.

Context:

- Through project based learning, students will improve their attitudes towards learning and exhibit their individual talents.
- They understand theoretical information through practical work.
- Students can develop their critical thinking on problem solving skills.
- Project based learning leads to “Self Learning” system instead of “Educator Teaching” system.
- Students are motivated to obtain hand on experience and develop an interest to learn more theoretical of a course.
- To enhance the team spirit.
- Project based learning leads to the development of lab scale models by students as a part to explain the current scenario of the their project
- Project based learning provides an opportunity for the students to visit various fields pertaining to their project and also to interact with the experts in the field of interest.



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The Practice:

- A teacher gives theoretical knowledge about the course on which the students can do projects with practical applications.
- The Students are instructed to form a team to do the project based learning
- The Students then plan on their project after understanding on the aspects of the course.
- The project carried out is a real time project and hence it may require, interaction with experts, collection of samples, interaction with stake holders etc..
- Students after their initial field visit, perform the relevant study in the laboratories.
- The students work in team and execute the various aspects involved in the project.
- The next step involved in the project based learning is the preparation of the project report.
- The Project report should contain the Abstract followed by the Introduction. In the Introduction chapter the clear statement on problem definition should be dealt with.
- The Results obtained from the various test conducted in the lab and significance of the results should also be discussed in detail.
- Finally recommendations for the future scope are also added in the project report.
- After the project book preparation, the students need to present their work in team

Evidence of Success

- The students made a power point presentation of their work done among of fellow class students.
- Such presentation also helped the students to get exposed to several real time project and their significance.
- The project is evaluated by the concerned teacher.
- It was observed that Project based teaching system for several courses were successfully carried out by the students.



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Problem Encountered and Resources Required:

- Students require allocation more time to do their project work in the laboratories.
- University should allocate budget to support financially for procuring components for the projects.
- Time management by students is one of the problems encountered by the students.
- Assessment methodology to evaluate the project to be improved.
- Resource materials should be made available in the department library for the benefit of students.
- The contribution of each student towards the execution of the project need to be evaluated and their involvement to be assessed by frequent monitoring.

Best Practice-2

Title of the Practice - Rainwater harvesting in the college campus

Objective:

- To generate an ambience and learning environment that uplift a civil and sustainable society.
- To assure the conservation of biological diversity.
- To safeguard eco-sensitive area by adopting sound and sustainable development.
- To inspire the college community to pilot and promote sustainable solutions through teaching and extension activities that tackle live issues of the campus and its adjacent communities.
- To promote and protect the natural and semi natural habitats of existing species in the campus to ensure their survival and growth.



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Context:

- **Accessibility:** The lush green plantation surrounded by hilly terrain of the campus has helped in creating spaces for academic and recreational areas that blended in with the landscape while also being accessible and eco-friendly.
- **Water Resources Management:** Sustainable water resource management practices need to be addressed to make the campus environmentally sustainable. Waste management and disposal pose a challenge at the implementation level. To motivate students in large numbers to cultivate the social and environmental attitude is a huge responsibility. Green initiatives taken up by the institution will benefit the campus through reduced resources consumption and waste diversion.

The Practice:

- The college has undertaken various initiatives for setting up an Eco—friendly campus.
- **Agro forestry and conservation of biodiversity:** In its endeavour for conservation of healthy ecosystems the college has embarked on a plantation drive. Once they start yielding, the college will promote such plantations in the villages and facilitate farmers.
- **Grid connected rooftop solar photo voltaic power projects:** The college has started rooftop solar installations at the campus with an installed capacity of 50 KW.
- **Water conservation and supply management:** The college has invested enormous resources to ensure sustainable water management and use.

Evidence of Success:

- Success of creation of an eco—friendly college Campus is seen in the following:
- **The plantations and their maintenance:**



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- ✓ A very hilly terrain has been tackled for the plantation and great care has been taken for their systematic maintenance and robust growth.
- ✓ Research is being done by several students in the areas of tissue-culture, pest resistance, seed production and medical properties.
- **Grid connected roof top solar photo voltaic power project:**
 - ✓ The 50 KW project is operational at the campus.
- **Wildlife management:**
 - ✓ No one is allowed to hunt or harm animals and birds in the campus.

Problem Encountered and Resources Required:

- While the opportunities to explore eco-friendly possibilities are evident, actions devoted to conservation for a green campus are expensive.
- Selection and preparation for locations for academic and administrative buildings call for expertise in soil erosion management, drainage, placement of retaining walls and plants for proper landscaping.

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