

Kamla Nehru Mahavidyalaya, Sakkardara, Nagpur

SESSION 2018-19

Best Practices

Best Practice 1: Participatory and Experiential Learning

Goal

To make students totally involved in the teaching-learning process, alternate teaching technique must be used. The shift from traditional to innovative method should make teaching, exciting and interactive exercise. All categories of students (slow and advanced learners) must be benefitted and motivated to self-learn at least the part of topic discussed in the class. Learning must be participatory and students should not be passive. Towards this effort, teaching modules and lesson plans were specifically designed to meet practical purposes.

Principles and Concept

Every teacher has her/his own style of teaching. Feedback from students clearly indicates that the lecture method is not an adequate method to sustain the interest of learning. The curriculum needs to be innovative, application oriented and skill based for all disciplines. These courses cannot be taught by only conventional lecture method but have to use innovative methods by using different teaching tools wherein the student gets to do hands-on-learning which ensures development of lifelong skills.

The students are involved in role-play, case-studies, and class seminars and power point presentation, in humanities departments, using different ICT tools. Study tours, brainstorming sessions, projects and management games are some tactics employed by commerce and management departments to make their students industry-ready.

Student centered learning strategies have been initiated. Exercises are undertaken to enable students to acquire hands-on learning and first hand information from real life situations.

The Practice

Best Practices such as visits, on site learning and field visits, internship, on-job training / field work, projects and surveys were undertaken.

A few significant methodologies used are described below:

- **Industrial visits for experiential learning**

The following departments were taken for industrial visits-

1. Students of Physics Dept. visited to Solanki Ceramics Pvt. Ltd., Saoner(Expenditure=Rs.34, 500 /-)
2. Students of Cosmetic Technology Department visited to Nisha Herbals Pvt. Ltd., M.I.D.C., Hingna, Nagpur(Expenditure=Rs. 26,000 /-)
3. Students of Home-Economics and Commerce Department visited to Shree Shivam Foods (Parle –G) Umred Road, Nagpur
4. Students of M.B.A. Department visited AmulVasudhara Dairy, Hingna MIDC, Nagpur; Morarjee Textile Ltd., Butibori MIDC, Nagpur and PACE TECHNOLOGY, Delhi(Expenditure=Rs. 94,800 /-)
5. Students of Department of Chemistry visited Bajaj Plastics Ltd., MIDC, Hingna, Nagpur (Expenditure=Rs. 26,500/-)
6. Students of Department of Biochemistry visited M/S. Ilham Soap Manufacturing Co.at Wanjra, Nagpur (Expenditure=Rs. 4800/-)

(Total Expenditure for Industrial Visits =Rs.1,86,600 /-)

- **Onsite-learning and field visits**

The following Departments were taken for onsite learning and field visits-

- 1.Department of Zoology students visited Hazra Falls,Gondia
(Expenditure=Rs. 34,600/-)
- 2.Students of Department of Biotechnology visited Shivtirtha Agro-medicinal Plant Garden, Saoner (Expenditure=Rs. 36,400/-)
- 3.Students of Botany Department visited GoVigyanAnusandhan Kendra, Deolapar (Expenditure=Rs.14,700/-)
- 4.Students of Department of Political Science, History, Marathi and Economics visited Mansar Fort and Nagardhan Fort
- 5.Students of Department of Marathi, Economics, English and Home Economics visited Suresh Bhatt Auditorium, Nagpur
- 6.Students of Department of Economics and Sociology visited Women Entrepreneur Fair, organized by Women Entrepreneurs of Vidarbha at Reshimbagh ground, Nagpur

7. Students of Department of sociology visited Panchvati Vriddhashram, Nagpur
8. Students of Department of Marathi, English and Sociology visited SanagmAdlabs Cinema Hall for Marathi Movie “AnandiGopal”
9. Students of Department of English visited KalidasSmarak.
10. Students of Department of Home-Economics visited Diet Exhibition organized by NMC Nagpur at Suresh Bhatt Sabhagruha, Nagpur
11. Students of Department of Biochemistry visited Regional Forensic Science Laboratory, Nagpur
12. Students of Department of Botany visited Botanical Graden, BhawabhutiMahavidyalya, Amgaon

(Total Expenditure for Onsite-learning and field visit =Rs.85,700/-)

- **Academic/ Institutional visit**

The following Departments visited various Academic Institutions-

1. Students of Department of Zoology, Maths, Chemistry and Biotechnology visited Raman Science Centre, Nagpur
2. Students of Electronics Department visited ICAR, ISRO and Central Citrus Research Institue, Nagpur (Expenditure = 18,300/-)
3. Students of Department of Home-Economics visited Diet Exhibition organized by NMC at Suresh Bhatt Sabhagruha, Nagpur
4. Students of Department of Library Science visited Library of Maharashtra Animal and Fishery University, Seminary Hills, Nagpur
5. Students of Department of Environmental Science visited NEERI, Nagpur
6. Department of Commerce students visited State Bank of India, Sakkardara Branch, Nagpur

(Total Expenditure for Academic/ Institutional visit=Rs.18,300/-)

- **Internship, on-job training / field work**

For providing industrial exposure and inculcating professional habits various Internship and on-job training / field work programmes are arranged for students as follows :-

1. Students of Department of Cosmetic Technology completed field work in Cosmetic industries such as Shingar Ltd., Gujarat; ITC, Bengaluru, Nisha Herbals Pvt. Ltd., Nagpur; Koel Colors, Mumbai and Kutch Soaps, Gujarat.
2. Students of Department of Library Science completed internship in VNIT, Shivaji Science college and C.P. & Berar School, Nagpur
3. Students of Department of Commerce completed on job training at B.J. International , Nagpur
4. Student of Department of Environment Science completed internships at NEERI, Nagpur
5. Students of Department of Computer Science completed internship in software company
6. Students of Department of M.B.A. completed their internships in various related companies
7. Students of Department of Electronics got training in KEC Industries about the liabilities required in Industry and also completed job training on Arduino Microcontroller in College IT Lab

- **Project /surveys**

- Projects**

- Students of all the Departments completed their project work on concerning topics.

The above exercises are done by all UG and PG departments as they help the students to develop composite skills like data collection, organization, presentation and interpretation of data, usage of ICT tools like visualizer, smart board for teaching and power point presentation.

- Surveys**

- Students of Department of Commerce, Cosmetic Technology and Home-Economics completed their surveys on concerning topics.

Evidence of success

Students have welcomed the change and are now actively interactive with teacher and they are enjoying and benefiting from participatory learning. From various best practices students acquired various skill sets. Students got employment because of acquiring new techniques.

Problems encountered and Resources required

Workshops and seminars had to be organized to bring about attitudinal changes in teachers and to impress on them the effectiveness of methodologies as teaching tools, other than the lecture method. Teachers have to be trained in the usage of ICT for preparing teaching aids.

The management had to invest in procuring LCDs, OHPs, Educational CDs, Hardware and software. MoUs had to be undertaken with local industries, NGOs and other establishments to accommodate internship and on-site learning. New evaluation techniques also had to be introduced.

Contact Details

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Best Practice2: Short term Certificate Courses

Goal

Short term certificate courses were student driven initiative for all the branches. A team comprising of UG and PG students, technical experts within and off campus have collaborated to develop student's technical competencies. The purpose of Short term certificate courses is to update and train students with latest technical development happening in the industry through various activities like workshops and seminars.

Principles or Concepts

KNM experts, invited experts and consultants from the industry were arranged for training, guest lectures and workshops to understand and overcome the current industrial issues and create awareness about new technologies and best problem solving practices.

The Practice

Following are details of various Short term certificate courses conducted by different Departments during academic year 2018-19.

Departments	Name of Topic	Resource Person	Duration	No. of participants	Expenditure (Rs)
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Home-Economics	Pidilite Art	Dr. M.R. Waliokar	4 days	49	Nil
Arts	Communication Skills For the students of Social Science	Dr. KalpanaBhajni	15 days	109	Nil
Music	Flute and Harmonium	Mrs. P. P. Mahajan	15 days	45	2250/-
Library Science	Net/ SET Training Programme	Dr. S.R. Inamdar	25 days	7	Nil
Environmental Science	Agricultural Waste Management	Ms. N. K. Thakur	30 days	72	2160/-
M.B.A.	Research Methodology And Statistical Tools	Dr. N. Shrigiriwar	14 days	20	2000/-
Maths	Mathematical Reasoning	Dr. M.V. Borkar	90 days	03	450/-
Biotechnology	Biofertilizer Formulation from Agricultural Waste and Crop Improvement through Biotechnology	Dr. S.R. Moghe	30 days	34	26,000/-
Electronics	Microcontroller and Interfacing Basics of Embedded System	Dr. P.B. Dahikar	15 days	19	3000/-

Evidence of success

Students enrolled their names for the skilled oriented course and actively participated in the program and interacted with the experts. They enjoyed and benefitted by acquiring different skills in different programs. During the program, participants gave an overwhelming response by self-working and asking queries which indicated curiosity among them. After the demonstration of scientific instruments, the students learnt how to use these latest techniques which indicated the success of arranging the course.

Resources Required:

- Resource persons, Laptop, LCD projector and necessary equipments for conducting the programs.
- Sufficient financial assistance is necessary to carry out this program. This may help to involve more number of students.
- The team who conduct this program also require an attendant for assistance during the program.

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