

Kamla Nehru Mahavidyalaya, Sakkardara, Nagpur

SESSION 2019-20

Best Practices

Best Practice 1:

1. Title of the Practice –Participatory and Experiential Learning

2. Objective of the Practice

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.

3. Context

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, industrial visits, onsite learning and management games are some tactics employed by commerce, science 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.

4. 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 M.B.A. Dept. visited Skyda Electrical Industries Pvt. Ltd., Noida and Biocare India Pvt. Ltd., Nagpur
2. Students of Cosmetic Dept. visited Cosmogenesis Cosmetics Pvt. Ltd. Bhiwandi, Mumbai And Jainam Invamed Pvt. Ltd., Vasai, Mumbai
3. Students of B.Voc. Dept. visited Amul Vasudhara Dairy, Hingna, MIDC, Nagpur and Skyda Electricals Pvt. Ltd., Greater Noida, U.P.
4. Students of Commerce Dept. visited Shivam Foods Pvt. Ltd., Opp., Nagpur Vyapari Gorakshan, Umred Road, Village Bahadura, Nagpur-441 204.

- **Onsite-learning and field visits**

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

1. Students of Electronics Dept. visited JNARDDC, Amravati road, Wadi, Nagpur.
2. Students of Chemistry Dept. visited GOONJ, NGO Office, Delhi
3. Students of Cosmetic and Botany department visited Go Vigyan Anusandhan Kendra, Deolapar, Ramtek, Nagpur
4. Students of Cosmetic Dept. visited Udyog Bhavan, Civil Lines, Nagpur
5. Students of Botany Dept. and Environment Science Dept. visited Pachmarhi, Madhya Pradesh
6. Students of Biotechnology and Microbiology Dept. Visited CIIMS Hospital, Bajaj Nagar, Nagpur
7. Students of Biotechnology, Microbiology and Biochemistry Dept. visited Jeevanjyoti Blood Bank, Laxminagar, Nagpur
8. Students of Economics Dept. visited Book Fair, Sadar, Nagpur and Agro-Vision Exhibition, Reshimbag Ground, Nagpur
9. Students of Economics, Marathi, English and Sociology Dept. Visited Lok Biradari Prakalpa, Hemalkasa, Gadchiroli, Maharashtra
10. Students of Home-economics, Sociology, Marathi and English Dept. visited Women Entrepreneur Fair, Reshimbag, Nagpur
11. Students of Environment Science Dept. visited Maharajbag Zoo, Sitabuidi, Nagpur

12. Students of Physics Dept. visited Geological Survey of India, Nagpur (GSI)
13. Students of Biotechnology and Biochemistry Dept. visited BioEra Life Sciences Pvt. Ltd., Tathawade, Pune
14. Students of Zoology Dept. visited Chandpur dam, Hanuman Temple, Bhandara for zoological excursion.

- **Academic/ Institutional visit**

The following Departments visited various Academic Institutions-

1. Students of Chemistry Dept. visited IIT, Delhi and VNIT, Nagpur
2. Students of Mathematics Dept. visited National Institute of Science Education and Research, Bhubaneswar, and IIT Bhubaneswar.
3. Students of Biotechnology Dept. visited NCCS, Pune and CICR, Nagpur
4. Students of Library Science Dept. visited Nehru Library, Indira Gandhi Agriculture University, Raipur and Pt. RavishankarShukla University Library, Raipur
5. Students of Environment Science and Biotechnology Dept. visited NEERI, Nagpur
6. Students of Physics Department visited NISER (The National Institute of Science Education & research), Bhubaneswar and Institute of Physics, Bhubaneswar, Orissa
7. Students of Microbiology Dept. visited Mahatma Gandhi Institute for Rural Industrialization, Wardha

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

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

1. Students of Library Science Dept. completed their internship at C. P & Berar School, Mahal, Nagpur, Shrimati G. G. Sarda Higher English School, Nagpur, Maharashtra Animal Fishery University Library, Nagpur and Kamla Nehru Mahavidyalaya, Nagpur
2. Students of Commerce Dept. completed training at B. J. International, ICD, Narendra Nagar, Nagpur
3. Students of Home-economics Dept. participated in Personality Development Camp, organized by VishwamangalyaChatraSabha, Nagpur and also completed training of Knitted knockers organized on the occasion of Breast Cancer awareness programme at Sitabuildi, Nagpur

4. Students of Computer Science Dept. completed Internships in various industries, Cybrix Technology, Nagpur, ICEICO Technology Pvt. Ltd., Nagpur, CNC Web World Technology Pvt. Ltd., Nagpur, VN Technology software Pvt. Ltd., Nagpur, Code Microsystem OPC Pvt. Ltd., Nagpur, V.K. Technology & Services, Nagpur, AskMe Digital Solution, Nagpur, Pegasus Technology and software Pvt. Ltd., Nagpur, India Active Software Inc., Nagpur, All Indian IT Services, Nagpur, Hexainfosys, Nagpur, Softtronix, Nagpur, Excel, Nagpur, Technospire, Nagpur, Vigo Technoworld Pvt. Ltd., Nagpur, Technobase IT Solution Pvt. Ltd., Nagpur, Webakruti, Great Place IT Services, Nagpur, Codeberg Technology Works, Bengaluru, NLT Infotech Pvt. Ltd., Nagpur, Smartwhiz Edutech, Nagpur, Alive Tech Services, Nagpur, Steps Technology, Nagpur, Cyberathon, Nagpur, Code Wizards Technologies, Nagpur, Hasten Solutions, Nagpur, MahiTechsolutions Pvt. Ltd., Nagpur, Primal Infosys, Pune, Masycoda Solutions Pvt. Ltd., Nagpur, and Geekay Technologies, Bengaluru.
5. Students of M.B.A. Dept. completed training at various industries such as Agrawal Study Centre, Nagpur, Chtinavispora Bank Ltd. Nagpur, Nail India Enterprises, Nagpur, A.K. Gandhi (Tata Motors) Nagpur, MMP Co. Ltd. Bhandara, Hitesh Financial Services, Nagpur, Murpar UG Mine WCL, Umrer, Sunflag Iron and Steel Co. Ltd, Bhandara, etc.
6. Students of Cosmetic Technology Dept. completed field work in Vimal Life Sciences Pvt. Ltd., Andheri, Mumbai.

- **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 Commerce Dept. completed their survey to take the review of general public on the scheme (Ayushman Bharat).
- Students of Department of M.B.A. completed their survey on their 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

The Principal

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Best Practice2:

Title of the Practice - Short term Certificate Courses

Objective of the Practice

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.

Context

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 2019-20.

Departments	Name of Topic	Resource Person	Duration	No. of participants	Expenditure (Rs)
Mathematics	Quantitative Aptitude	1. Dr. M.V. Borkar 2. R.R. Meshram 3. V.A. Gujarkar 4. G.S. Dorkhande	4 Weeks	52	3600/-
Electronics	Embedded System Basics and 8051 Microcontroller Interface	Dr. Ashish K. Rewatkar	45 Hours	18	3600/-
Cosmetic Technology	Beautification	1. Dr. Ketki S. Misar 2. Ms.Dipenti D. Pohare 3. Ms.HeenaPopli 4. Mrs. Ashwini K. Joshi 5. Dr. SonalKolte 6. Mrs. Sneha S. Sambare 7. Ms.RadhikaMohod 8. Mrs. Avanti A. Paranjape 9. Ms.ManjushaTaywade 10. Mrs. MinakshiBokde	1 Month	27	8100/-
Botany	Nursery techniques with special reference to Floriculture	1. Dr. RekhaMaggirwar 2. Dr. SuchitaKhodake	20 days	60	12000/-
Biotechnology	Biofertilizer formulation from agricultural waste and crop improvement through Biotechnology	1. Dr. S. R. Moghe 2. Dr. S. B. Nandeshwar, 3. Ms.NutanManapure 4. Dr. S. L. Tiwari 5. Dr. A. Shanware 6. Ms.MrunaliMalkhede, 7. Ms.Rajshree Ingle 8. Dr.Manikandan 9. Dr.Velmourougane 10. Dr.SavithaSantosh 11. Mr. Nikhil Meshram 12. Dr.Bijaya K Sarangi 13. Dr. AmitBafana 14. Mr. Vijay Harode 15. Mr.NishantBurade 16. Ms.AshwiniMankar 17. Dr.ShwetaGahukar 18. Mr.AkshayTripathi	30 Days	38	38000/-
Home-Economics	Pidilite Art course	1. BhartiWakde 2. AshwiniThombre	15 Days	45	Nil

Microbiology	Cookery and food preservation	1. Dr. LalitaShendre 2. Ms. AshwiniKasulkar 3. Ms. Neha Sheikh 4. Ms. MinalDevlekar 5. Mrs. AartiDhbekar 6.Mrs. SonaliKumarkar	8 weeks	42	15000/-
Environmental Science	Agricultural Waste Management	1. Dr. S.B. Nandeshwar 2. Dr. Velumourgan 3. Dr. Manikandan 4. Dr. NutanManapure 5. Dr. AkshayTripathi 6. Dr. Sarangi 7. Mr. Nikhil Meshram 8. Dr.AmitBafana 9. Dr. AartiShanware 10. Miss Neha K Thakur 11. Mrs. PadmajaShahakar 12. Miss. ChandaniKachave 13. Miss SheetalBalpande	1 Month	72	21300/-
Music	Certificate course on 'Garba'	Mr. PranayKuthe	15	58	4350/-
Physics	Domestic Appliances	Prof. Choudhary	1 Month	60	12000/-
Biochemistry	Medical Laboratory Technology	Dr. Shardul S. Wagh	15 Days	74	37000/-
English& Marathi	Certificate Course on Soft Skills	Dr. UshaSakure	15 Days	62	5978/-
Zoology	Vermicomposting and vemitechnology	Dr. D. Saxena	21 Days	37	11700/-

Evidence of success

Students enrolled their names for the skill oriented certificate 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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