

Best Practice – I (Academic Year 2019-20)

- 1 **Title of the Practice** : **Technology based Training, Soft and Research Skills education for creating Industry needed engineers.**
- 2 **The Context** : There is always a gap between curriculum and industry need in every engineering college affiliated to State University. In order to bridge this gap, an effective paradigm has been prepared by our college to satisfy the industrial need by allowing our students to learn about recent industry related problems and find the solutions over them through this best practice. Thereby students are trained for placements and also to become an Entrepreneur.
- 3 **Objectives of the Practice** :
 1. To provide platform for the students for interaction with industry experts
 2. To provide Internship and In-plant training to the students.
 3. To strengthen Industry Institute Interaction
 4. To learn the emerging technology & develop Software and Commercial Products
 5. To promote Research Activities, encourage Publications, Patents and Copy Right
 6. To facilitate Consultancy and Funded Projects
 7. To develop Entrepreneurship Skills.
- 4 **The Practice** : An per curriculum of the affiliating university, provision of theory and practical lectures for learning communication and aptitude skills is included where the placement co-ordinators of each departments monitor the execution. In the regular time table of first year, four to six hours have been allocated to soft skill and aptitude training for each class. Faculty of Computer Engineering taught the students regarding programming skills required for software companies. Training and Placement Officer helped the students in getting Internship, In-plant Training for enhancing the Industry–Institute interaction. Ph.D qualified faculty taught the students how to write Project Proposals, obtain Patents & consultancy work. Experts were invited for talks and interaction in each department. Certificate courses were conducted at every semester end. Guidance for GATE, GRE, CAT, TOEFL was given in each semester of the year. Entrepreneurship Awareness Programs were being conducted to promote Entrepreneurship Culture among students.
- 5 **Obstacles faced if any and strategies adopted to overcome them** : Allocating exclusive working hours for all training activities by balancing academics was challenging. Establishing rapport between industry and institute was challenging task. Similarly, fetching grant from industry for research project was found difficult. The required resources were provided by the Management of the institution and helped institute to overcome the obstacles.

6 Impact of Practice : Students' involvement in placements, research, higher education and entrepreneurship activities is enhanced. Percentage of placement was found to be increased. Students have visited industries, got internship and in-plant training. Rashtrasant Tukadoji Maharaj Nagpur University has approved the Centre for Higher Learning & Research in the subjects Mechanical, Electronics & Telecommunication, and Civil Engineering. Activities regarding Start up and incubation Centre are increased. Publication of research papers in reputed journals are improving. Various Workshops, Seminars, Science Exhibition, Entrepreneurship programmes were organized in the College. Faculty was encouraged for filing of Patents. Faculty members have registered for Ph.D. Memorandum of Understanding (MoU) in various industries were signed. Research is cultivated in the college by strengthening infrastructure facilities in the laboratories and the library.

7 About the Institution

i. Name of the Institution	:	Bapurao Deshmukh College of Engineering, Sevagram
ii. Year of Accreditation	:	2018
iii. Address	:	Near Bust Stand, Sevagram, Tah.Dist. Wardha, Maharashtra, Pin-442 102
iv. Grade Awarded by NAAC:	:	B+
v. E-mail	:	princi.bdcce@gmail.com
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vii. Website	:	www.bdce.edu.in

Best Practice – II (Academic Year 2019-20)

- 1 **Title of the Practice** : E- governance through Management Information Software
- 2 **The Context** : Higher Education Institutions (HEIs) primary mission is to provide quality education to their students. The NAAC accreditation is one way to build confidence among students, parents and faculty that the institution is committed to quality in infrastructure as well as educational methods. Many of the NAAC accreditation criteria require reports. Assembling the data and creating these reports that require 5 years of information is time consuming and a small mistake is difficult to pinpoint. An Education ERP, does not just help you to compile reports, it also is invaluable in getting an institution to evaluate itself on different parameters and improve areas that show a need for improvement. To overcome this time consuming problem, our institute has started to make use of all modules of ERP software from academic year 2019-20.
- 3 **Objectives of the Practice** :
 1. To automate all the administrative procedures related to Academics, Student Management, Staff Management, Library Management, Hostel Management, Transport Management, HR Management and Finance Management,.
 2. To Collect and Store all the required data in a centralized manner for easy retrieval.
 3. To move towards a paperless office and to improve the overall productivity of the institution.
- 4 **The Practice** : Institution has started to make use of all 17 operational modules of ERP software from Academic year 2019-20. These are System Administration, Management, Establishment, Students Admissions, Front Office, Students Section, Fee Collection, Accounts, Clearance, Leave Management, Academic Monitoring, Training & Placement, Central Library, Various Events, Estate Management, Android App Students and Android App Faculty. This software is designed & maintained by Masters Software Company located at Nagpur. Inputs to the software were filled in by the faculty and technical non teaching staff of the institution within a period of 6 months i.e. up to December 2019. This software can be accessed both via intranet and internet. The ERP software is user friendly and comes with a lot of security features.
- 5 **Obstacles faced if any and strategies adopted to overcome them** : In the initial period of data filling, all faculty members and non teaching staff have faced the challenge of data collection and providing inputs to the system. It was time consuming and lengthy task.

- 6 Impact of Practice** :
1. Enormous amount of time and effort is saved by using the ERP system
 2. Substantial money & time is saved through optimization of various procurement activities, because of bringing in systems across the institution.
 3. Better tracking of payments to be made to the vendors is evident because of linking of the complete chain of transactions.
 4. Students and Parents feel comfortable with the system
 5. The linking between admission, fees payment, academic courses, departments, placement and examination modules of the ERP prevents unnecessary data entry, removes redundant data entry and results in saving of effort and increases accuracy of data.
 6. Management is able to get the data of all activities on real time basis from anywhere which helps in decision making process
 7. Various reports related with accreditation of the institution can be generated within minutes.

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