Best Practice 1

1. **Title of the Practice**

   Industrial Training and Placement Assistance for students

2. **Goal**

   The goal of this activity is to impart industry mapped training (technical and professional) to the students and empower them with the knowledge and skills -as per their aptitude - in order to meet the manpower requirements of the Industry.

3. **Context**

   Organizations expect the colleges to train their students in such a way that they are not just measured on their academics, but assessed by their skills as well.

   The students, pursuing MCA, come from varied backgrounds with respect to their schooling, location (urban/ rural), socio-Economic, Educational and Gender factors. Thus, it is very challenging to develop a sense of levelling and level playing field for all students by the time they graduate. Hence continuous career guidance and counselling would enhance the clarity in the minds of students to help them make well informed decisions about their career.

   The major challenges we faced and had to be addressed in designing and implementation were,

   1. Career guidance activities had to be meticulously planned and included in the Academic calendar, which put additional pressure to conform to the Academic Calendar. This had to be successfully met.

   2. Emphasizing the importance of attending the career guidance programs through In-house faculty members, so that they are regular in attending placement training programs and career guidance sessions.

   3. Continuous Alumni feedback and interactions (informal) were needed and were very much important in deciding the supplementary activities to boost the formal curriculum.

   4. Identifying appropriate resource persons (external), for providing career counselling and Technical Aptitude, consumed much time and effort and had to be balanced with regular curriculum work.

4. **The Practice**

   These goals are achieved through the conduction of following activities:

   1. Alumni (mostly from Industries) are regularly invited to address students and to guide them through the career options, provide industry insights and to impart knowledge on the current trends and latest technologies.

   This year we invited Mr. Abhay Khadase has interacted with students of MCA-I, II, and III.

2. Students are trained on communication skills, soft skills, personality development, aptitude skills and technical skills in order to make them confident to face the challenges of the future.

During AY 2019-20 we have invited resource person Ms. Varadlakshmi Heda for Soft Skill Training

3. Trainers from different training agencies are invited to provide Aptitude training to our students.

This year we conducted aptitude training session of Mr. Manish Bhayani a well-known instructor from Namra - Mahaveer Institute, Amravati.

4 Students are encouraged to participate in technical contests, carry out project work, undergo internships and also organize various technical activities to enhance their knowledge through experience .

This year we organized technical event Technical Treasure Hunt, Wall Magazine competition for student

Evidence of Success

1. The number of students attending the career guidance programs willingly increased over the years.

2. Alumni feedback indicates that the students who have undergone life skills training programs are really helpful in balancing their work and life.

3. The students have progressively gained confidence in facing the placement interviews better.

4. The success rate of students in getting placed (who opt for placements) has been improving continuously.

5. Some students have become successful entrepreneurs as well.

5. Problems Encountered

One of the biggest problems we have faced is the availability of time. Because a lot of background work had to be done before, during and after organizing these activities. These included identifying appropriate topics or skills to be imparted and then finding the suitable resource person to handle this, followed by identification of Technical, Financial and Physical resources needed to conduct the activity. Developing industry linkage was essential for developing and delivering the training programs on a customized basis. After all these efforts and hard work, a systematic and tested plan materialized for training and placements for coming years.

Best Practice 2

1. **Title of the Practice: Improving Participation of Department of Civil Engineering in R & D and Testing & Consultancy Services.**

2. **Goal**

- To expose faculty and students to design and consultancy work
- To empower and encourage faculty to interact with the private industry and government organizations.
- To improve quality of education through exposure to field/ industry.
- To expose students to R&D activities.
- To develop laboratories beyond the curricular requirement.

3. **The Context:**

The institute is located in rural area of backward Vidarbha Region. The area has no big industry or construction projects. The students and faculty therefore lacked exposure to industry/ field. This being a private college government organization and Industry were apprehensive. Special efforts were therefore required to improve interaction of the institute with the industry and organizations.

4. **Practices**

The institute encourages interaction of the faculty with the outside world. This is achieved through personal level interaction with the organizations and practicing engineers. The faculty is also encouraged to participate in the activities of professional bodies like IE, IWWA, ISTE etc. This keeps faculty in touch with the developments in the field and the requirements of industry.

Efforts are made to equip laboratories with the best equipment, beyond the curricular requirements. This makes the institute capable of providing quality services, and also provides exposure to faculty and students with regards to latest instruments and equipment.

Financial incentives are used as empowerment and rewarding mechanism to encourage participation in R&D activities.

Evidence of Success:

TESTING & CONSULTANCY AS ON Date- 01/04/2020

Sr. No.	Year	Geotech.Lab.	Trans. Lab.	C.T.& R.C.C. Lab.	Env. Lab.	Som Lab.	Sur. Lab.	Consultancy	Total Rs.
1	1997 - 1998	444628	54458	93289	0	17592	0	0	609967
2	1998 - 1999	404063	149061	6960	14031	0	0	0	574115
3	1999 - 2000	413262	149061	37850	9391	7200	81769	0	698533
4	2000 - 2001	27050	220821	177827	4000	7200	0	0	436898
5	2001 - 2002	117012	42400	86520	1500	23140	0	0	270572
6	2002 - 2003	52206	46792	74340	8500	24650	0	0	206488
7	2003 - 2004	76065	32736	40050	5000	13500	41500	0	208851
8	2004 - 2005	151971	68350	18300	6500	6300	30000	0	281421
9	2005 - 2006	247983	173358	83170	7548	5800	400	0	518259
10	2006 - 2007	431198	194464	62190	7548	5000	850	0	701250
11	2007 - 2008	476135	75603	148370	2574	25600	5000	0	733282
12	2008 -	243085	117865	176550	0	64350	0	0	601850

	2009								
13	2009 - 2010	668549	252838	185300	5000	182700	6300	0	1300687
14	2010 - 2011	549929	26120	130800	3100	72300	0	0	782249
15	2011 - 2012	814218	1471599	451960	1770	106364	0	0	2845911
16	2012 - 2013	489371	114231	55274	800	20897	0	0	680573
17	2013 - 2014	104355	490129	325675	0	113550	0	354324	1388033
18	2014 - 2015	816041	404946	273065	20308	260041	0	32345	1806746
19	2015 - 2016	1181421	387208	176955	0	45950	0	4000	1795534
20	2016 - 2017	1632125	279255	419973	0	174100	0	922490	3427943
21	2017 - 2018	1802982	147904	354644	3900	41394	0	84700	2435524
22	2018 - 2019	3964197	343076	1751048	7727	254814	0	326912	6647774
23	2019 - 2020	1913622	106574	304556	2587	408804	0	680733	3416876

6. Problems Encountered and Resources Required

The government organizations have the facilities to carry out the testing & consultancy work from the government laboratories but there is lot of resistance in getting the related work done. It is overcomed by providing punctual & quick service.

Resources required are mainly the equipments in working conditions. Proper maintenance of all the equipments in the laboratories is being taken care of. The other

resources that are required include vehicles to transport the equipments to the site & the services of persons associated with the work. The institute has policy to carry out such works without disturbing the academic assignments.

Photographs

Photo: Plate load test

Photo: SPT test

Photo: Rebound Hammer test

Photo: CBRI test