NAAC SSR CYCLE-2

Criterion 7	Institutional Values and Best Practices
Key Indicator 7.2	Best Practices
7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual	

BHARATI VIDYAPEETH'S
COLLEGE OF ENGINEERING, KOLHAPUR

Accredited by NAAC With 'A' Grade
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Sr. No.	Particulars
1	**Best Practice 1:** Initiatives for multi-skilling students
2	**Best Practice 2:** Nurturing Consciousness for Sustainable Environment

<div align="center">**BEST PRACTICE: 1**</div>

1. **Title: Initiatives for multi-skilling students.**

Our college strongly believes in its motto **"Social Transformation Through Dynamic Education."** The college believes that the huge population in India is not a setback but it is actually an advantage if properly empowered. Apart from theoretical knowledge, skill training has become the need of the hour. It has been a prerequisite for students to update their knowledge and skills in the rapidly changing technological advancements catering to the needs of their prospective workplaces. Among numerous endeavors, the college highlights activities related to promotion of Skill Development Initiatives for Students. Skill Development Programmes contribute to constant updation of knowledge and enrichment of practical skills. This process of updation is a continuous one, which aims at the growth of the individual, institution and society at large. Thanks to Globalization and the explosion in the field of ICT which have made acquiring of new skills and knowledge obligatory. Training programmes that are conducted at college aim at making the students multi-skilled and cater to the demands in the highly competitive job market and industries.

2. **Objectives:**
   - ➢ To impart more practical and industry-relevant knowledge
   - ➢ To achieve holistic development through training in domain specific skills, employability skills, communicative skills, life skills, leadership qualities, analytical skills, interpersonal skills and entrepreneurial competencies.
   - ➢ To emerge as job providers rather than mere jobseekers
   - ➢ To face interviews and competitive examinations with confidence and due preparation
   - ➢ To inculcate values of socially responsible citizens

3. **The Context:**

The prime objective of the **New Education Policy** is to **"make India a knowledge superpower by equipping its students with the necessary skills and knowledge."** Students have to be properly trained at regular intervals to keep themselves updated with new skills and knowledge. The needs of the industries keep on changing and it is a prerequisite to change and modify the curriculum, pedagogies and evaluation

procedures accordingly. The digital age has compelled to move towards Outcome Based Education and student employability. On the successful completion of these programmes we planned for students, the students are expected to possess skills and knowledge on par with the demands of the challenging job market. Lack of training leads to unskilled labourers and in turn may result in unemployment and underemployment. The College has organized trainings in the four major skills sets namely Technical Skills, Entrepreneurial Skills, Communication and Soft Skills and Employability Skills. Programmes and activities conducted at various academic departments and by the Entrepreneurship Development Cell and the Department of Training and Placement aim at acquisition of these skills by the students. The college collaborates with the industries and experts in new frontiers of research to customize the curriculum accordingly.

4. The Practice:

Students are imparted training to enhance the skill sets and ensure their holistic development of personality through:

> ➢ Training Programmes to enhance Technical Skills
> ➢ Training Programmes to enhance Entrepreneurial Skills
> ➢ Training Programmes to enhance Communication and Soft Skills
> ➢ Training Programmes to enhance Employability Skills

5. Evidence of Success:

✓ **Bridging the Gap between Industry and Academia**-Various value added courses were conducted for students in the direction of introducing the recent updates in their respective branches as per the current trends in industry. All the departments and certain cells like Entrepreneurship Development Cell and the Department of Training and Placement have conducted variety of training programmes that helped to balance the acquired knowledge by the students and required knowledge by the industry. The major industry expected courses as well as trainings conducted by all the departments include:

- **Workshops on domain specific components like** Design and Applications Software, Programming, Website Development, Network Security, Android Applications Development and the like.
- **STTPs on the themes like** Programming

- **Expert Lectures on variety of themes like** Automation, Research Opportunities
- **Webinars on the latest trends in domain specific matters like** IoT and Machine Learning
- **FDPs on latest developments in the spheres like** Computer Languages
- **Technical Training Sessions like how to become a Drone Engineer, QSpiders, etc.**

✓ **Professional Communication Skills Development**- It is always an attempt of the college to blend hard and soft skills judiciously for the students. The soft skills selected for the trainings are relevant for the respective domains. Along with the interpersonal and other communication skills some necessary social and emotional skills are covered in these programmes. These trainings help students improve Communication and Soft skills that resulted in encouraging them to appear for certain examinations like GRE, TOEFL and securing valid scores in them. For making the students industry ready variety of workshops and training sessions were conducted at the college in the following key areas:

- **Group Discussion**
- **Career Guidance in GATE/IES and PSUs Examinations**
- **Problem Solving Skill**
- **Essential Soft Skills for recruitment**
- **Confidence Building**
- **STTP on Communication and Professional Skills**
- **Workshops on Competency Building and Leadership Skills**

Sr.No.	Department	Academic Year	No. of Students	GATE/IES/TOEFL/PSU Examinations and Result/Higher Studies
1		2019-20	1	Maharashtra Engineering Services 2019, 114th Rank
			1	Maharashtra Engineering Services 2020, 14th Rank
2	Civil Engineering	2018-19	1	Sub Inspector (Works) in BSF Engineering 20-21 All India Rank 4 th
			1	Selected in Water Resource Dept. Govt. of Maharashtra

3		2017-18	1	Maharashtra Engineering Services 2020, 14th Rank
4		2021-22	1	Sought admission for MBA
5	Computer Science Engineering	2019-20	1	M.Tech. in Data Science and Engineering Programme in BITS, Pilani
6		2018-19	1	Sought admission for MBA
7		2017-18	1	Sought admission for MS International Business in University of Liverpool
8			1	IELTS Valid Score
9		2021-22	1	TOEFL Valid Score
10	Mechanical Engineering	2020-21	1	GATE Valid Score
11		2018-19	3	GATE Valid Score
12		2017-18	1	GATE Valid Score
13			1	Passed Exam and appointed as an App. JE (Coaching) in Western Railway
14			2	Sought Admission for M.Tech.
15	Electronics and Telecommunication Engineering	2019-20	2	Sought admission for MBA
16			5	Sought Admission for M.Tech.
17		2018-19	1	Sought admission for MBA
18		2017-18	1	Sought Admission for M.Tech.

- ✓ **Entrepreneurship Development**: Innovation and entrepreneurship are key drivers in today's engineering world, and the push for sustainable products, services and technologies is needed now more than ever. The Entrepreneurship Development Cell (EDC) as well as the Departments conduct various motivational lectures and programmes that developed entrepreneurship spirit among the students. The college assists the students nurture their entrepreneurial mindset and learn how to bring a product or a service that has potential to the market as they work alongside industry partners' representatives. The initiatives taken by the college for entrepreneurship development of the students include

  - **Seminars on Job opportunities in various domain related fields**
  - **Impact Lectures Series on Start up and Patents**
  - **Seminars on Opportunities in Entrepreneurship**
  - **Expert lectures on Government Regulations esp. about Civil Engineering related professions**

Sr.No.	Name of Student Entrepreneur	Department	Year of Establishment	Details of Business/Company/start up
1.	Mr.Rohit Sorate	Civil Engineering	2021	Kulhad Chai Truck Kulhad Chai Truck offers a route back to our roots with desi Kulhad Chai which is always freshly brewed with the surety of quality and hygiene. Two outlets: Rajarampuri Khasbagh maidan.
2.	Mrs. Sujata Pradeep Badi	Computer Science and Engineering	2022	Collab Vision Infosolutions CVIS is a leading and more focus on Cloud Technology (Salesforces and MuleSoft), Website, Android App, Testing Project, Digital Marketing Services and Technical Support Company provides in Kolhapur. It builds products and solutions for business problems having clients

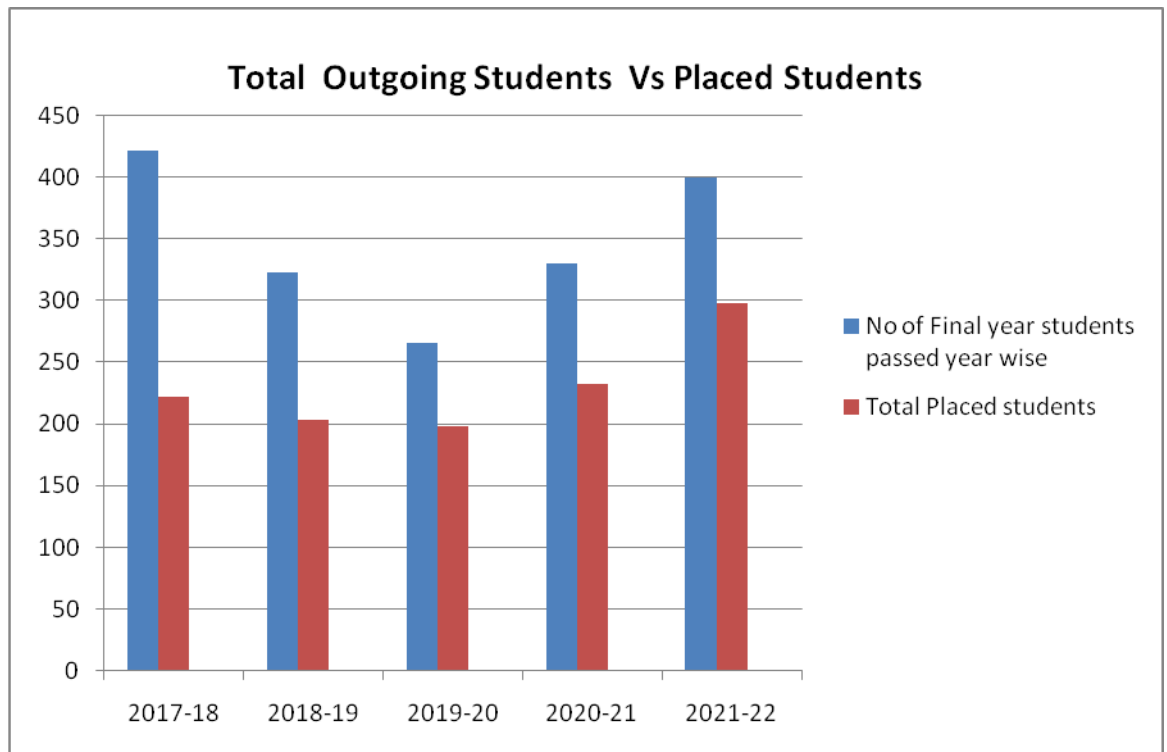|				from USA and India.
3.	Mr. Vijay Lambore	Computer Science and Engineering	2022	QualTech Software Pvt. Ltd., Kolhapur. QualTech provides solutions in a prequalification and e-commerce industry to various clients across the globe and have served over more than 200+ clients so far.
4.	Mr. Hemant T. Divekar	Computer Science and Engineering	2015	Vinayak IT Solutions, started in 2018, is working creatively in Website Development and now we provide Android app, Cloud Based Software, Digital Marketing etc.
5.	Mr. Ashok H. Ghatage	Computer Science and Engineering	2007	Earth Logicware Technologies, started in 2011for catering to the needs of cutting-edge web and software solutions,
6.	Mr. Ankur Sevekari	Mechanical Engineering	2018	Mile Stone Industries A team of 50 workers, this is the number one individual company in cold box core manufacturers in Kolhapur, Sangli, and Satara districts. A proud vendor of renowned clients like Menon Group and Ghatage Patil Industries.
7.	Mr. Kunal Mahekar & Vaibhav Mahekar	Mechanical Engineering	2018	Mahekar Engineers A leading manufacturer of connecting rods for refrigeration and Air Conditioning Industry. It manufactures and supplies aluminum pressure die casting located at Tasawade-Karad Industrial area. An ISO 9001:2015 certified Company by TUV Austria.

8.	Mr. Nikhil Kamalkar	Mechanical Engineering	2017	A young and highly energetic team of engineers willing to step up in the hard core machining operations. Proud vendor of some industries.

✓ **Improvements in Placements:** The above initiatives boosted the on and off-campus placement selection ratio. The Department of Training and Placementl, independently carried out some needed activities directed at improving placement. Prominent of them include:

- **Campus Recruitment Training Programmes**
- **Industrial recruitment awareness program**
- **Career Guidance Seminars**
- **Sessions on Corporate Expectations and their fulfillment, procedures of campus recruitment**
- **Mock Interviews**
- **Soft Skills Training**
- **Expert sessions on Interview Techniques, GD, Aptitude, Profile Building**
- **Stress Management with Yoga**

Year Wise Placement Percentage

YEAR	No of Final year students passed year wise	Total Placed students	Total Placement Percentage
2017-18	422	222	52.61
2018-19	323	204	63.16
2019-20	266	198	74.44
2020-21	330	233	70.61
2021-22	400	298	74.5

Total Outgoing Students Vs Placed Students

6. Problems Encountered and Resources Required:

- Time constraint is a major limitation in implementing various skill development programmes.
- Finding and bringing trained professionals/experts from other institutions is also very difficult.
- Sanctioning of funds by agencies have become very limited
- Multi National Companies give comparatively less campus drives preference to the institutes in the Tier-II cities.

BEST PRACTICE: 2

1. **Title: Nurturing Consciousness for Sustainable Environment**

2. **The Context:**

   The college is situated in a green and oxygen rich campus and proves as an eco-friendly seat of quality learning. There are many opportunities and benefits of enhancing eco-friendly practices for environment consciousness among all its stakeholders. The college considers its paramount duty to practice environment consciousness and develop high standards of environment friendliness. The college deems its duty to make the stakeholders aware of the deteriorating environmental parameters. It also encourages them to adopt environment friendly ways through the awareness and conservation initiatives to minimize the threats. The college has been keen in promoting activities related to environmental consciousness, sustainability and its conservation. Various activities and programmes are run in the college for creating awareness and expected actions from the students, staff and the society.

3. **The Objectives:**

   ➢ To promote an eco friendly environment and to find out innovative ways of sustainable use of natural resources

   ➢ To maintain a waste-free, pollution free, eco-friendly campus to reduce ecological disorders
   ➢ To disseminate environmental literacy to motivate the students and staff
   ➢ To establish effective ways of waste management and recycling systems
   ➢ To optimize energy utilization through the non-conventional resources

4. **The Practice:**

   To fulfill the above objectives, the college conducts variety of awareness activities through NSS, all the departments and with the participation of concerned experts in those fields. The major areas include energy conservation and generation through PV Solar plants, Sewage Treatment Plants, plantation drives and rainwater harvesting, solar water heater and so on. The following initiatives are being taken by the college to create consciousness regarding environment and its sustainability:

➤ **Environmental Awareness: Project Display, Poster and Model Exhibition**

➤ **Celebration of World Environment Day, Earth Day, No Vehicle Day, Van Mohotsav etc.**

➤ **Medicinal Plants Garden**

➤ **Awareness Initiatives through N.S.S. like Gram Swachhata Abhiyan (Cleanliness Drives) and Mazi Vasundhara**

➤ **Rainwater Harvesting**

➤ **Awareness of avoiding plastic use**

5. **Evidence of Success:**

➤ Villages realized importance of Gram Swachhata for sound health, hygiene and clean atmosphere through Gram Swachhata Abhiyanas . The campaign was aimed for making the streets, roads and populated places clean from filth and garbage. This activity is in the line of Sant Gadagebaba Gram Swachhata Abhiyan on the state level and Swachha Bharat Mission on national level. The activity also targets raising public awareness about cleanliness through community and academia participation. The objectives of this activity are improving the quality of life in rural areas through cleanliness and social hygiene, creating awareness among communities towards sanitation and cleanliness. To make necessary changes in the local bodies in order to strengthen their functions and efficiency, it is a step towards community development carried out of the students' sense of social accountability.

Sr. No.	Academic Year	No. of Activities Conducted under Cleanliness Drives	Locations
1.	2021-22	02	R.K.NAGAR, Kolhapur, Nebapur, Tal-Panhala
2.	2020-21	01	Kolhapur City
3.		01 (Flood Rehabilitation Activities)	Ankalkhop, Dist. Sangli
4.		01	Panhala Hill Station
5.	2019-20	01 (Flood Rehabilitation Activities)	Ankalkhop, Dist. Sangli

6.		01 (Flood Rehabilitation Activities)	Kolhapur City

> Green cover increased due to tree plantation campaigns. Youth are the citizens of tomorrow. With the purpose of educating them on the environmental concerns, the college organizes tree plantation every year especially on occasions of the World Environment Day, the Earth Day and at the hands of dignitaries visiting the campus. It is mainly through NSS that the community-academia joint ventures are carried out to promote environmental welfare. Not plantation only but regular check up is done for maintaining good survival rate of the plants. To create awareness of the environmental issues, expert lectures and poster presentations are organized every year. This resulted in the growing vegetation in the campus as well as at the off-campus locations where NSS volunteers planted trees. As a result of these initiatives, about 1100 trees are survived in the campus.

Sr. No.	Academic Year	No. of Tree Plantation Programmes	Locations
1.	2021-22	01	College Campus
2.	2019-20	01	College Campus
3.	2018-19	01	College Campus
4.	2017-18	01	College Campus

> Medicinal plants garden made students and visitors familiar with the benefits of these plants and encouraged them grow the varieties in their terrace gardens and on farmlands.

The College has a well-maintained Medicinal Plant Garden. It has different varieties of medicinal plants tagged with their biological nomenclature. The medicinal plants garden is unique in that almost every one of the species of plants and herb with a long history of use in folk tradition. This Medicinal plant garden

offers interesting information about the plants in the garden. The awareness created by this garden encouraged students and visitors grow them in their terrace gardens and on farmlands.

Objectives of Medicinal Plant Garden at College:

1] To make the students and the teachers aware of various herbal plants that can be grown in their College, be able to identify different plants and understand the economical and medicinal uses of these plants.

2] To develop the creativity of student by research and education in this aspect and reinforce the message of protection and care for the plants.

3] To acquire the intimate knowledge of plants and their uses.

➢ The college is continuously reducing carbon footprints that are created by conventional energy sources.
   The college has installed Grid connected PV Solar System for the campus as an alternate energy resource. It is in the line of the governmental efforts to reduce carbon footprint with sustainable future.The Government of India is encouraging the utilization of green source of energy like solar with subsidies. To protect the nature, it is necessary to use green energy in place of fossil fuels. In the pursuance of this, our college installed solar panels having capacity of 139.83KW. One more step to save energy, the college has installed LED bulbs in the building and campus.

➢ These various environment awareness programmes influenced the decisions of students and staff to prefer electrical vehicles. As a result, we experience growing number of electrical bikes in the campus.

➢ The trend is set intentionally to felicitate guests for the functions organized in campus with a sapling instead of plastic coated bouquets.

➢ The college has received appreciation from the local authorities during these kinds of campaigns.
   Our campus is a clean and green campus with number of trees. This helps to reduce carbon emission and become an environmental friendly atmosphere. As a part of this, the college has been awarded First rank in 49th Flower & Garden Competition, which was held between 14 to 16 December 2019, Organized by Garden Club, Kolhapur in association with Kolhapur Municipal Corporation.

6. Problems Encountered and Resources Required

- Heavier initial cost and investments: Shifting to renewable resources is a costly affair. More Government assistance and subsidies are needed.
- Promoting environmental consciousness need continuous and multi-directional efforts that can create recognizable shift in the mindsets.