

7.2. Describe two best practices successfully implemented by the Institution as per NAAC format provided in the manual

Best Practices:

1) Innovation Unleashed-Ideas to Prototypes

Objectives of the Practice:

- 1) To provide facilities which empower faculty and students to perform any experimental work necessary to build prototypes and realize their innovative ideas.
- 2) To develop scientific temperament and create R&D ecosystem.

The Context: In the current global technological scenario, it is of paramount importance that we have the latest infrastructure facilities which can enable the faculty and students to conduct research on emerging technologies and develop appropriate solutions for societal problems to meet SDGs.

The Practice: Despite being a tier2 institution all the laboratories are fully equipped with latest equipment's like measuring instruments, power sources, other auxiliary equipment etc. A number of simulation tools which can be used by students and faculty for research and study. All the classrooms are equipped with ICT facilities to enable the faculty to explain the content by various types of presentations which helps to hold the attention of students in a better way. Also various online lectures can be presented.

- 1) The Vinuthana lab of ECE department is equipped with the latest hardware and software tools like microcontroller development boards, Raspberry-pi latest version boards, NODEMCU, Matlab, NS2 Network Simulator etc., which are available to everyone to develop a prototype to resolve real world problems.
- 2) The Civil Engineering department utilizes the infrastructure to provide consultancy service to various Government and Non-Government organizations involving faculty and students.



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- 3) The department of Electrical and Electronics Engineering infrastructure is utilized in providing solutions to industries like KPTCL, CMC, and PWD in and around the Bidar District.

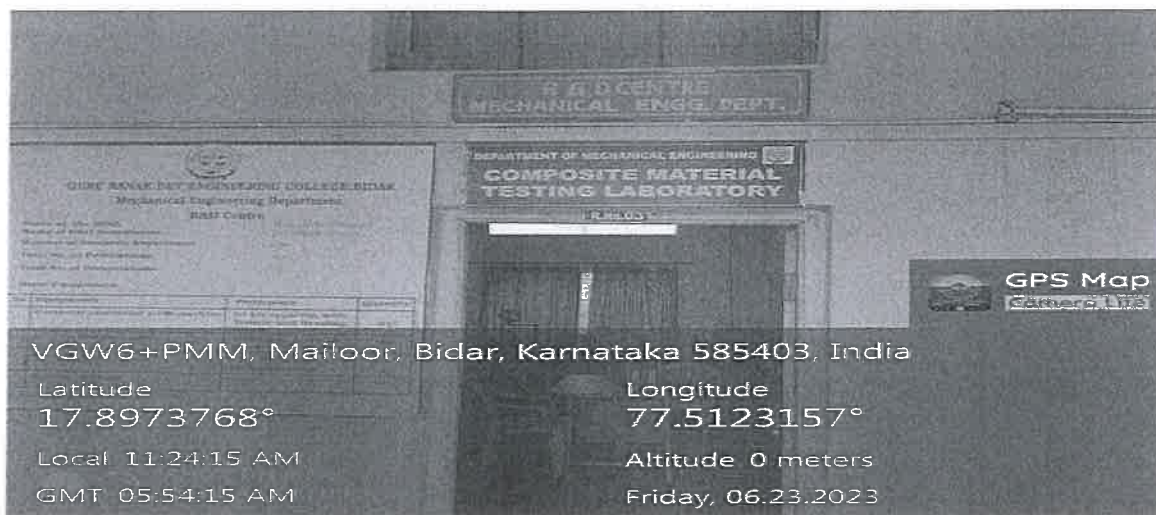
Evidence of Success: In the department of ECE, during the last two academic years 6 student projects have been sponsored by KSCST to tune of Rs.50,000/-. IOT lab has been set up in the department which is sponsored by VGST, Government of Karnataka. VGST also sponsored the HFSS simulator which is used in the research involving radio and microwave antennas. During the same time around 5 scholars have completed their Ph.D research work using the existing facilities.

Problems Encountered:

- Students sometimes face difficulties in balancing between academics and execution of ideas due to lack of time management.
- Ideas to prototype development will have some problems with design specifications in terms of costing, size, compatibility, portability, sustainability, etc.,

Resources Required:

- 1) Financial support – Able to generate the funds through government and non-government organizations.
- 2) Technical staff with knowledge to install and maintain some of the latest equipment
- 3) Adequate Time for developing the prototypes

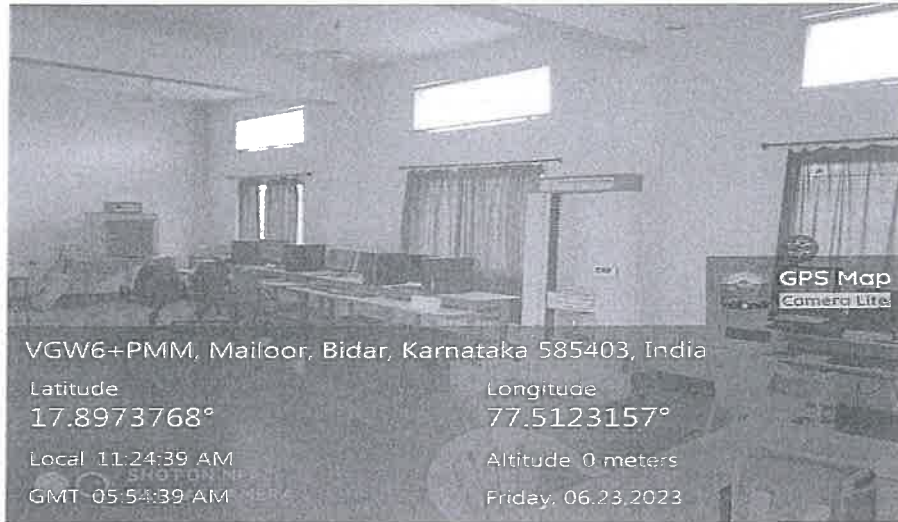


Composite Material Testing Laboratory

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Composite Material Testing Laboratory



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Sl. No.	Project Title	Duration	Funding Agency	amount
1	Material Testing	2017-18	Laxmi Construction Ahmadabad, Govt Contractor, Bidar, BR Builders and BSNL Ltd Bidar Chief Officer TMC Humnabad, Manufeeter centre Jaipur, Eecogreen Infratech Pvt, Ltd, Gurunath kollur Asst, Div, Engineeri, S.C.Rly Bidar EE, Ele, C & M, Dist Office Gescom, Bidar, Godara Enterprise, M/S Ompraskash Civil Electricals, M/s Seetharam Construction, VG Infra Project BSNL Bidar, M Shivraju and Co Vikarabad, Ultra Tech cemet,Ultra tech cement Gulbarga, ATC In Pvt Ltd Bangalore ,BEL Ghasiabad, K.P.Vijaykumar AE CivilAGE B/R, Air Force Station , Bidar, M/s Kalaburgi Bharathi Cement, Kalaburgi, M/s Ruddhi Build con Pvt, Ltd Mahindra & Mahindra, Zaheerabad,Rodhi building pvtltdPune,Ruddhi Build Con Pvt.Ltd,Ruddhi Build Con Pvt.Ltd,Zaheerabad,Ruddhi Building Con Pvt.Ltd,Ultratech Cement Bidar,Ultratech Cement Gulbarga,Ultratech Cement Pvt Ltd Ultratech Cement, Gulbarga Vishwaraj Infra system Ltd Vision zaheerabad development pvt ltd, WoxsenKornkle, Sadashivpet, Dist: Medak Zen Project & Bangalore M/s Vishvaraj Infrastructure Ltd, Bidar Asst. Garrison Engineer, B/R(P) No:1, Bidar Novasys Greenery, Pvt, Ltd, Bhalki Ultratech cement Gulbarga Ultratech Cement, Bidar M/s Suprabha Constro, Mangalore Rites, The infrastructure people, Bangalore SampoorthyEnggBidar,M/S J.M Construction Bidar,PWP and IWT SD BIDAR,SantoshKheedaEngg&Co.Kalburgi Cement Pvt Ltd "AEE PRE Sub Divn, Basavakalyan M/s Shivabhavi Medical Store, Shivnagar, Bidar KIADB Bidar Mahindra & Mahindra Ltdm Automotive Db Mahindra Nagar, Zaheerabad PRE Sub Division, Bidar AEE Dr. B.R. Ambedkar Development corporation Ltd Bangalore AEE PWP & IWT SD Humnabad AEE PWP & PWT Dept, Bidar J.M.Construction co. Bidar KIADB Bidar KUWS & Drainage board KRIDL Bidar AEE KNNL, Karanja, SD Janwada, Bidar AEE PWP & IWT SD Basavakalyan AEE, Minor Irrigatiion& Water resources, SD, Bidar AEE, Minor Irrigatiion& Water resources, SD, Bidar Asst. Exe. Engineer, KBJNL, Bhatambra Harish Civil Engineer KNNL AC SD Bidar Kshitij ConstroEngg& Con, Pune Rites, The infrastructure people, Bangalore BSNL Bidar M/s Aneek Business Enterprises, Bidar M/s Aneel Business Engg for petro, Pvt Ltd, Bidar M/s Aneek Busniss Pvt Ltd, Bidar Mr.NoyalkumarNyalkarDist: Medak Project Manager, MES Office complex, Secunderabad, Nimrithi Kendra Rites Llimited Bangalore BSNL Bidar Rites, The infrastructure people, Bangalore Kshitij Costro, Pune.M/s J.D. Berde Maskal	411072



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			Tq:Aurad ,M/s MoothrukaAgrifarms estate Pvt,Ltd Bharat Urban Infrastructure, pvt, ltd, Zaheerabad,Nilesh Patel, Bidar,Eecogreachinfratechpvt ltd Jaipur,BSNL BIDAR AEE RDWS & S , Bidar AEE , PRE, SD Bidar,CMEBasvakalyan EE cogreen Infratech Pvt Ltd Kshitij ConstroEngg& Con, Pune	
2	Mix Design	2017-18	Director B.R.BuildingMalchapur Bidar Director Future Tel Energy, Pvt Ltd, Malchapur, Bidar I-Con Sai power, Malchapur, Bidar TPA Aurad (B) KSHITIJ Constro Pune Shivaram Constructions Karnool Sri Jayanthi Builders, Thoothukadi, dist: TamilnaduJ.M.Constrection company, Bidar.	55216
3	Strength of OHT	2017-18	AEE RDWS & S , Bidar	4239
4	Stability Report	2017-18	AEE KNNL Building centre Halhalli,APMC, Market Yard, Bidar	35000
5	Structural Design	2017-18	AEE , PRE, SD Bidar,CMEBasvakalyan,Govt Pu College Bidar,EEcogreen Infratech Pvt Ltd	17921
6	Third Party Inspection Works	2017-18	AEE PRE,AEE PWD SD, AEE PWP & IWT Dept ,AEE, Project Manager, Nimrithi Kendra, Bidar,AEE, PWP & IWT Dept, Bidar,Asst. Exe.Engr, KRIDL Bidar,Floor damage 2016-17,MLA-LAD 2014-15,15-16,16-17,17-18,MLC -LAD 2013-2014, 2014-15,16-17,MLC-LAD (SCP) 2015-16,MSDP 2016-17,Nirmithi kendraBidar,Rain Damage works,SCP 2014-15,SCP/TSP/2014-15,16-17,SFC 13th Finance,SSA 2014-15,16-17,UGC,Youth sports	25,95,040
			Total	2707416

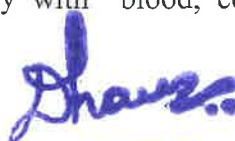
Consultancy Work Details of Civil Engineering Department

2. Initiatives to meet the obligations of serving the society.

In an effort to meet the social cause and serve the community at large, GNDEC, Bidar regularly takes up various activities through NSS wing of GNDEC, AICTE activity, Red Cross and PMKVY.

Objectives:

- 1)To provide food, clothes and other minimum required thing to the needy.
- 2)NSS wing conducts various awareness programs on issues like alcohol addiction, tobacco addiction and activities like tree plantation, cleanliness etc.
- 3) Under the RED Cross wing to provide the needy with blood, conduct free health



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checkups etc.

The Practice: GNDEC regularly conducts the health checkup camps at Guru Nanak Hospital, Bidar, blood donation to the needy patients(students from the hostel do volunteer sometimes), various cleanliness programs in the city and in the surrounding villages, street plays on issues like domestic violence, food awareness etc.

Context

India being a developing nation still grapples with a number of issues prevailing on a large scale like poverty, literacy rate and quality education, poor health infrastructure, economic disparities to name a few. To eliminate these issues and achieve the status of a developed country with overall better standards of living, the Government, the Industry and Academic Institutions have to come forward and contribute in any way possible like support the people with charity(providing food, clothes, books etc), provide education to the needy, take care of the destitute, take measures for climate control and make every possible effort to make the world a better place to live in.

Problems Encountered

- 1)To identify the needy.
- 2)To collect people inclined to serve the people.
- 3)To take permissions from relevant authorities to do charity

Resources Required

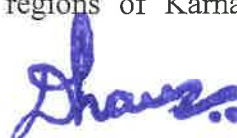
To arrange for the resources like food to be distributed, clothes etc., manpower inclined to serve the people, the finance, other logistical support.

Evidence of Success

- 1)A number people have benefitted from blood donation
- 2)Poor children have been supplied the food , clothed, books etc.
- 3)Free health checkups have benefitted people in general.

A) Rejuvenate the government schools in the villages

The NSS unit of GNDEC Bidar organized a 2-daycampaign aimed at rejuvenating the Government School at Bellur of Bidar District. The campaign was organized by NSSGNDEC Bidar to inspire the kids in rural regions of Karnataka. A total of 15



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NSS volunteers from the GNDEC B participated in this event.

B) Cleaning of water tanks

Through AICTE Activity program, The GNDEC students visited various government schools of surrounding villages of Bidar district and cleaned the water tanks in the schools.

C) Health check-up camp

GNDEC in cooperation with Guru Nanak hospital conducted the health check-up camp for COVID -19 testing and vaccination at campus for faculty members, students and Local community of Mailoor village.

D) Awareness Camp

The college organized various awareness camps during the celebration of World water day, Water Earth Day and Environment Day about save water, save environment from plastic etc. GNDEC students along with faculty members visited various rural villages and conducted various awareness program on health & hygiene, Swacch Bharat Abhiyaan, Child Labour, sensitized about negative impact alcohol & Tobacco usage and importance of higher education.

E) Street Play

GNDEC Students as a part AICTE activity toured various villages of Bidar district to perform street plays focusing on domestic violence, child marriage and other issues related to patriarchy, which harm their mental and physical health of women.

F) Digital India

Our program was scheduled from 13 January 2020 to 18 January 2020 in Jante Village. We have managed to cover all the parts of this village and made the village people aware about modern technologies and necessities. Our program covered more than 50 houses each day in groups by taking survey and spreading awareness for the first 2 days and the rest 3 days we shared our time with school students giving them information about Digital library and motivated them to fix their priorities for career.



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G) Educational tool kits to school students

The college has given Educational tool kits to government schools at Mailoor, Amalpur, Kumbarwada & Kolar villages to improve the results. They are also motivated for higher studies.

H) Bharavase(Hope)

All the 9th grade students of the Bellur government school were taught Basic English and imparted speaking skills. The different activities were conducted for the same in order to check how they would apply it in their daily lives.

I) Blood Donation Camp

Blood Donation Camp was organized by red cross wing GNDECB in collaboration with Guru Nanak Hospital to increase the awareness about regular non-remunerated voluntary blood donations and ensure that blood components are easily available, affordable, accessible and safe. At the end of the drive around 750+ units of blood were collected.

J)Social Media Campaign Mental Health Awareness

Depression is still a taboo in the society as most people fail to understand the importance of mental health. Awareness and informative posts regarding the importance having good mental health is disseminated through social media.

K)Epilepsy Awareness

Epilepsy is a chronic non-communicable disease of the brain that affects around 70 million GNDECB sort out this problem extended its reach in creating awareness about this disease by breaking them and speaking about the fact on its social media platform.

L) Food Awareness

In the month of March ,the drive was carried out in order to create awareness about the food. The students got to know about the importance of food, ill effects of under nutrition and the ways and means to avoid food wastage. They were educated about the organizations which are working against food wastage and collect extra food to distribute among the needy.



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M) Understanding Depression

NSS GNDECB released a post regarding depression which is one of the most common and serious illness affects youths these days. This awareness also explained causes and symptoms such as anxiety, helplessness and hopelessness.

O) Menstrual Awareness

This awareness was conducted in the month of February where we discussed the myths and facts about periods, also created awareness about maintaining menstrual hygiene, along with this we discussed how to cope with periods.

P) Eradication of Caste Discrimination

This awareness was conducted in the month of march and made people aware about the evils of casteism and also explained the Article 17 of the Constitution of India on eradication of casteism.

Q)Plantation Drive

NSS GNDEC Bidar had organized a Plantation Drive on 13th of September on the eve of 550th Jhira Pragat samagam. This is organised to create an awareness in the society to preserve nature for the future generation by planting saplings. NSS GNDEC planted a total of 550 saplings on this occasion.

R)Go Green drive

During the month of October, NSS GNDEC held a Go-Green Awareness Campaign as a part of Monthly Awareness Drive. This was done to create awareness about the importance of sustainability in our lives. This program emphasized on the need to combat climate change and adapt every possible way to go completely green and reduce carbon emissions significantly. Quizzes and Trivia were held on a regular basis throughout the month of October about the theme.

S)LifeSkills

GNDEC conducted Life Skills Awareness Program for the first-year students as a part of the induction program. The main aim of the program was to build self-confidence, encourage critical thinking, foster independence and help them communicate more effectively.

T)Skill development program

PMKVY is a scheme of the Ministry of Skill Development & Entrepreneurship (MSDE).


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The objective of this Skill Certification Scheme is to enable a large number of Indian youth to take up industry-relevant skill training that will help them in securing a better livelihood. Under this scheme, the college has conducted skill training on Mason general, Mason concrete, LMV driver- Level 3, CCTV Installation, and lathe operator conforming to National skill qualifications framework level 3 and trained around 100+ participants from rural background.

U) Women Empowerment

GNDEC in association with DXC Technologies conducted the training on JAVA for 100 women to enhance their chance of getting placement in the leading software industries.

V) Education and Social Values

Guru Nanak Dev Engineering college, Bidar imparts educational and social values to its management, faculty, students, and staff, which include skills like technical, critical thinking, problem-solving, teamwork, and leadership. These values help the individuals to excel in their personal and professional lives and are critical in today's fast-paced and constantly changing world.

In addition to technical skills, the college also focuses on instilling social and constitutional values in their curriculum and activities. These values include respect for diversity, equality, ethics, responsibility, and social justice.

To incorporate these values into the curriculum, the institute has included courses on ethics and social responsibility, and offers opportunities for community service through various social outreach programs like Swachh Bharat Abhiyan, awareness about Higher education, Hygiene & health care.

The staff and students visit and support Old age homes, Orphanages, and also render services like blood donation, Roti Seva, Educational tool kit donation to government school students. The curriculum also includes case studies and real-world scenarios that challenge students to think critically and make ethical decisions.

It is a regular feature in the college to organize debates, panel discussions, and workshops on topics such as human rights, social justice, and environmental sustainability. It also invites guest speakers who are experts in these areas to share their knowledge and practical experiences with students and staff.



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In brief, GNDEC, Bidar has a critical role in imparting not only technical skills but also social and constitutional values to its management, faculty, students, and staff. By incorporating these values into the curriculum, college prepares its graduates to become socially and ethically responsible leaders who will contribute to build a better world to live in.



Blood donation Camp at Guru Nanak Hospital, Bidar



Food Distribution at BRIMS Hospital, Bidar

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