

BABASAHEB NAIK COLLEGE OF ENGINEERING, PUSAD
ANNUAL REPORT OF THE INSTITUTE
SESSION - 2020-21 (June 2020 to May 2021)

I am pleased to present a brief Report of Babasaheb Naik College of Engineering, Pusad for the session 2020-21. This had been a very difficult session affected by the present Pandemic. All of the routine academic working and systems in place have been adversely affected and sometimes even paralyzed to much extent. In spite of this situation, while reviewing our efforts, shortcomings and achievements in these difficult times, we observe that there has been a great effort by the college, enormous shift in working, especially from traditional ways of teaching- learning to online virtual classrooms was quite evident. Online examinations were even a greater challenge which has been successfully overcome by us as a team.

As per Sant Gadge Baba Amravati **University merit** list for Summer - 2020 Examination, Ms. Vaishnavi P Rathod of Civil engineering has stood 10th with 9.56 CGPA. I congratulate her on her achievement!

Internal Quality Assurance Cell (IQAC) has been established to achieve standards of quality education and continual improvement in all concerned processes. This session IQAC has organized a national webinar “Quality in Education – Lever for Survival” on 7th July 2020. Keynote speaker for the webinar was Mr. Satish S Ranade , Former General Manager at WIPRO Technologies , Corporate Trainer and Member Symbiosis Open University, Pune , he is an Advisor to Start-ups as well. Webinar hosted 110 participants who were benefitted by the programme. Principal and the Chairman of IQAC Dr. Avinash Wankhade in his presidential address expressed the need of quality Education as a backbone for the survival, development and success. Vote of thanks was given by Convener of the webinar Dr.K.Ravi, IQAC Cordinator BNCOE Pusad.

Ms. Sheetal Bukkavar, has completed her **PhD** in July 2020 under guidance of Prof. Dr. Vasif Ahmed and Shri Vaibhav Pandit, has completed his PhD in Sept 2020 under guidance of Prof. Dr. R. J. Bhiwani.

I congratulate them all !

There are 814 students on roll in undergraduate courses while 18 students are pursuing post graduation. While more than 20 are doing research for PhD.

The AICTE /AISHE cell has worked earnestly to met all the dates for submission of the AICTE EOA etc .

In academic session 2020-21, **T&P department** been **successful** in placing students in spite of pandemic Covid-19 situation. Thanks are due for the cooperation, support rendered by the entire faculty, heads of the departments, Administration , Management and Alumni of our college. The department conducted numerous Off campus/Virtual placement drives due to lockdown. **82 students have been placed** in 22 organizations which include Infosys, TCS, Tech. Mahindra, ATOS SYNTEL, John Deere, Fidesto Projects Pvt. Ltd and Dhoot Transmission Pvt. Ltd.

In line with the mission of our college to **support the students from weaker sections**, this session the college has facilitated government concessions to students

which includes scholarships, free ships, to OBC,SBC,SC,ST, VJNT, EBC, Minority , STC & PTC .

The National Service Scheme NSS unit of our college is very active throughout the year even during the Covid 19 pandemic, various activities were held observing all precautions. Mr. Nikhil Pulate was nominated as NSS student representative. During lockdown period NSS volunteers have done many social activities like distribution of mask, sanitizer, food & grocery etc. All volunteers made social awareness through social media for Covid -19 precautions like social distancing, hand washing, cleanliness etc. Mr. Rushikesh Gangawane has done village sanitization at his native village Depul in Washim district.

The NSS unit of our college has done a huge tree plantation in “Vanmahostava” i.e. from Late. Shir.Vasantrao Naik Punyatithi on 1stJuly 2020 and on Independence Day 15th Aug 2020. Birth anniversary of Late Shri. Rajiv Gandhi was celebrated as “Sadbhavana diwas” on 20th Aug.2020. NSS “foundation day” was celebrated on 24th Sep 2020. On this occasion “Maze Kutumb Mazi Jababdari Abhiyan” was started.(Covid-19 awareness programme), NSS volunteers actively organized this “Maze Kutumb Mazi Jababdari Abhiyan” at Vilege Mansal & Vadsad (Tanda) during 25th & 26th Sep 2020.On 2nd Oct 2020,NSS unit celebrated birth anniversary of “Mahatma Gandhi” and “Lal Bahadur Shastri”.

Research Centre, Research Proposals & IPR

One ATAL FDP proposal was submitted to AICTE by CSE department and was approved. Two RPS proposals – one from EXTC and one from Civil Engineering Department were submitted in December 2020. Two ISTE-AICTE STTP proposals were submitted one each from EXTC and CSE Department in November 2020.

UBA (Unnat Bharat Abhiyan) cell of BNCOE, Pusad has been actively involved in interacting with the rural population of adopted villages and had carried out series of activities at each village namely Yeranda, Hegadi, Karla(juna),Shelu and Gahuli .Although the work has been hampered by Covid – 19 still Covid-19 Related **Techno-Rural Vision competition (National Level – online) was organized in June 2020** by soliciting ideas / solutions from the engineering students (Poly / UG / PG) through the circulation of Information Brochure and Banners of the contest through various social media groups like What’sapps, Telegram, etc. and through e-mail to various academic institutes.

The objective of the competition was to seek solutions using technological advances in field of ICT to combat the challenges raised by COVID-19 pandemic and associated lockdown situation with emphasis on rural areas.

The competition received praise worthy response of around 25 submissions from four states comprising of Maharashtra, Karnataka, Rajasthan and Uttar Pradesh during the stressful period of Lockdown .

First prize worth Rs 2500/- was bagged by Omkar Khapke, Second Year B.E.(IT), MET Bhujbal Knowledge City Institute of Engineering, Nashik for his submission titled “ICT- A way towards a better tomorrow”. In his submission, Omkar described the various ways of prospective applications of ICT in the field of education, Healthcare, market yards, etc. of the rural areas to improve the quality of life.

Second prize worth Rs 1000/- was secured by Awaiz Khan, Third Year B.E.(Civil), Prof. Ram Meghe Institute of Technology and Research, Badnera for his submission titled “Impact and solution for rural economies in post pandemic period”.

This submission describes the need for creation of database using UIN for unemployed persons (migrant labour), digital advertisements, investment in non-agricultural sectors and education for rural masses.

Third prize worth Rs 500/- was awarded to Pranoti Gaikwad, Third Year B.E. (Civil), Government College of Engineering, Nagpur for her submission titled “Calldoc App” in domain of remote health care in which app is proposed to be developed for the target audience who lack in technical literacy and include senior citizens.

Consolation prize of Rs 250/- was awarded to Saurabh Maniyar and Shoeb Khan, Third Year B.E.(Civil), Babasaheb Naik College of Engineering, Pusad for their submission titled “Covid-19 and Technological Advances - Goals, Challenges, Impact” in which they propose multipronged strategies comprising of Health sensors and apps, Thermal screening, tele-health, autonomous vehicles, etc. to tackle the challenges of Covid19 pandemic.

The competition fulfilled its objectives of igniting the minds of engineering students to seek novel solutions to confront the challenges of Covid19 pandemic with focus on rural areas.

UBA cell carried out series of visit to the adopted Yeranda village relating maintenance of non-working solar lights and after analysis repaired one solar light at prominent location in village through replacement of battery in October 2020. They have regularly circulated whatsapp messages in the adopted villages relating agricultural and animal husbandry advisory information in association with Kisan Vigyan Kendra (KVK), Sangvi (Darwha, Yavatmal District), including messages related to Gram Arogya Health Awareness information under guidance from UBA Headquarters.

The College has rich Library housed in spacious area of 986 sq. m. It is a fully computerized library with LIBSYS Software. Various services are offered like Book Lending, Open Access (General, Reference & Periodical Section), Reprography, Internet Service, Scanning Facility, Audio-Video OPAC (On-line Public Access Catalogue), Reading Space. Library has 62,876. Printed Books, National Journal's (Hard Copy): 28 worth Rs. 60,000/-. Library has MoU with DELNET (Developing Library Network 400E-JI). All India Technical Institute Network, New Delhi. It is a computerized library with LIBSYS software. Library has collaboration with National digital library, of IIT kharagpur, to have an online access to Journals & Books; video courses by Swayam Prabha with 32 DTH channels are also available. Book Bank facility is provided to 20 meritorious students from each semester (all branches) free of cost. All the students in SC/ST category get book bank facility under Social welfare scheme.

Our Minority, OBC, SC, ST cells are **fully functional** in our institution supporting the students

Mentor- Mentee Scheme is a structured attempt to address a range of students related issues with personal touch, which is working nicely; attempts to improve its affectivity have been taken **online meetings** have been conducted for guidance and counseling of students. 802 students in various disciplines have been successfully mentored by 35 faculty members. **Women empowerment cell** is also active.

In Student counseling cell many students avail the facility of personal counseling on decision making, health, psychological issues, academic support etc.

IE (I) Student Chapter CSE & IT has conducted a Webinar on “**Benefits of GATE Exam** which “was arranged on 28/09/2020 for Third & Final Yr. students of CSE & IT Department. Speaker was Dr. Shrikant Sonekar Professor, CSE Department, Ms.Rutuja Patil & Mr. Pranay Bhakare final year are the convener and secretary respectively.

SRC (Students’ Representative council) was formed, but no students were able to join college for any activities.

The Departments have various achievements like every year.

Department of Civil Engineering Department has undertaken the consultancy work of various Government & Private Agencies such as Irrigation Department, PWD, MJP, ZP, Nagar Parishad etc.

The department has organized-Online STTP on “Recent trends in Civil Engineering and Construction Technology” during 08-12 June 2020.National level online quizzes on “Structural Analysis” during 03-07 June, 2020, on “Fluid Mechanics” during 04-09 June, 2020, on “General Civil Engineering” during 05-07 June, 2020,on “Hydrology” during 13-19 June, 2020.

Department of Mechanical Engineering has run various software classes (certificate courses) like CATIA, SOLID WORK, PRO-E, ANSYS and MASTER CAM throughout the year under Design Training Placement Platform Program (DTPP)

Department of Computer Science & Engineering with Indian Society for Technical Education conducted **Online One Week ISTE approved Short Term Training Program on IoT and Big Data Analytics** during 04-08 July , 2020.Dr.S.S.Asole was the Convener and Dr.S.A.Bhura Coordinator for the program. 81 participants have taken advantage of this STTP.

The Department of Humanities takes care of Subjects like Professional Communication skills, for first and third year students while environmental studies for the second year .The department also contributes to the training of the students from the placement point of view.

Workshop department plays key role for project fabrication of final year students of mechanical Engineering and other branches.

The Mathematics department, Department of Applied physics and Department of Engineering Chemistry are providing substantial academic support to the fresh entrants.

The faculty of our college has numerous academic achievements like every year.

Dr.S.Y.Amdani & Dr.S.A.Bhura are working as a Expert Members in Board of Studies of Artificial Intelligence & Data Science stream.

06 faculties have presented paper at **international conferences**, **09** have published paper in **National and international Journals**, worked as **reviewers** in various journals & conferences, **77** have attended **workshops, FDPs and STTPs** at various places.**140 webinars** have been attended. One has completed NPTL course. Many Faculty members of our college are working on responsible positions in the University and are the part of various university committees as well.

Our students are having good contribution in Co-curricular activities

From the department of Electrical and Electronics & Telecommunication Ms. Harshada S. Chavan (4EE) participated in 4 week training Program on “PLC Training Programming & Applications” from 12th November to 19th December 2020 organised by Kaizen Industrial Automation & Training Institute, Chandrapur.

Nikhil Chaurasia (4EE) participated in NPTEL training Program on “TI Embedded System Design using MSP 430 MCU MOOC” during July – November 21 organized by Texas Instruments and AICTE.

Ms. Dhanshri Ade (4EE) participated in 1 week STTP on “Machine Learning & Security” during 15-20 April 2021 organized by RG College of Engineering & Research, Nagpur.

From the Computer Sci. & IT Department, more than 300 students participated in **Online Certification Courses** Such as Java Programming complete beginners to advance , Python Course , IOT Course , Cyber security , Artificial Intelligence & Machine Learning Course, Data base Testing, web development, Reinforcement Learning, quizzes on java Programming , programming challenges, online C++ Quiz etc.

Sports department has organized NATIONAL SPORTS DAY on 29th Aug.,2020

This has been an year of extended lockdowns and almost all activities have been conducted online, it has affected many academic and all co curricular activities this session. In spite of these challenges all the staff and students have immensely contributed towards the development of the institute. A lot of risk was involved in conducting the work in this academic year; everyone has taken a lot of precaution. Some have suffered with Covid -19 but fortunately have recovered.

On behalf of the college, I congratulate each one of you for your achievement and sincerely feel that your effort with commitment and discipline as an individual and as a team will definitely bring laurels to our Institution.

I take this opportunity on behalf of Babasaheb Naik College of Engineering family, to heartily thank our Management Janata S hikshan Prasarak Mandal, Pusad for extending their wholehearted support and guidance to us.

Dr. Avinash Wankhade
Principal