

I am pleased to present the Annual Report of General Engineering Department for the academic year 2019-20.



1) ACADEMIC PERFORMANCE:

The students have shown excellent performance in DBATU University Examination.

Result of F.E classes of April/May 2019 examination are as follows:

Students Achievements:

• Toppers (Academic Year 2018-19)

Rank	Name of student	Branch	CGPA
1	SHRIGANI RUSHIKESH CHANAMALAPPA	CSE	9.51
2	HARKE VINAY VIJAYKUMAR	CSE	9.46
3	GUMATE SMITA PRADIP	CSE	9.27
4	WALE SUJEET YESHWANT	Mech.	9.16
5	YEMUL SHRUTI AMBADAS	CIVIL	9.14
6	PATIL VAISHNAVI ANIL	Electrical	9.11
6	PATIL SAMRUDDHI RAJKUMAR	Electrical	9.11
6	KALSHETTI ABHISHEK VIJAYKUMAR	E&TC	9.11
6	LIGADE ANKITA PRAKASH	CIVIL	9.11
7	POOJA RAJKUMAR BIRAJADAR	E&TC	9.08
8	PRATIK IRESH MABRUKHANE	Electrical	9
8	AKANKSHA SANTOSH DHAGE	CSE	9
8	KINAGI SHRISHAIL ARVIND	CSE	9
8	NALLA RAJESH NARENDRA	E&TC	9
8	MOHINI GILBILE	Mech.	9

2) FACULTY ACHIEVEMENTS:

- 1) Dr. M.S.Shaikh was awarded Ph.D. degree in "Nostalgia In The Novels Of Jane Urquhart: A Study" from Shivaji University, Kolhapur.
2. Prof. Shivaji Chavan received Award of Excellence for Meritorious contribution in Teaching at NKOCET, Solapur.
3. Prof. Shivaji Chavan qualified SET Exam (English).
4. Prof.U.K.Jadhav qualified SET Exam (English).

3) FACULTY PUBLICATIONS:

- 1) Dr. G. D. Khuspe "Processing Temperature Dependent Chemiresistive Performance of Spin-Coated Cerium Oxide Films" Materials Chemistry and Physics, 224, 85-92, 2019.
- 2) Prof. P.A. Ubale "In vitro anticancer activity of 4(3H)-Quinazolinonederived Schiff base and its Cu(II), Zn(II) and Cd(II)

complexes: Preparation, X-ray structural, spectral characterization and theoretical investigations". Inorganica Chimica Acta (Elsevier Publication). Manuscript No. ICA_2020_473.

- 2) Prof. P.A. Ubale presented a paper titled, "Synthesis, Characterization and Theoretical Investigation of 4(3H)-quinazolinone derived Schiff Base and its Ni(II) and Cd(II) metal complexes," in International Conference on Recent Advances in Physical and Chemical Sciences held at Sangola College, Sangola on 22nd Jan 2020.

- 3) Dr. Ganesh D. Khuspe presented a paper titled "Polyaniline@ α -Fe₂O₃ Hybrid Nanocomposite: Synthesis, Characterization and Room Temperature NH₃ Gas Sensing Properties", in International conference at Visegrad, Budapest, Hungary.

- 4) Prof.A.V.Sadlapurkar presented a paper titled "Extraction and spectrophotometric determination of cu using 2 chloro benzaldehyde thiocarbohydrazone" at a Conference in Department of Chemistry, Shivaji Universtiy, Kolhapur on 6th and 7th May 2020.

4) FACULTY INTERACTION WITH OTHER

INSTITUTIONS

- 1) Dr.G.D.Khuspe conducted online session for Jr. College and High school Teachers on "Use of Online Platforms and Applications" on 18th April 2020.
- 2) Dr.G.D.Khuspe conducted Online You Tube live session on "CET Online Preparation" for 12th aspirants on 5th May 2020.
- 3) Dr.G.D.Khuspe, Dr.I.A.Shaikh, Prof.M.T.Ingale, Prof.P.A.Ubale and Prof A.P.Savant, conducted "Hands on Training on Virtual Labs" for High school teachers in Solapur City on 7th May 2020.
- 4) Dr.G.D.Khuspe conducted guest lectures on "Career Opportunities after 12th" to 12th aspirants- at Solapur, Barshi, Osmanabad, Tuljapur and Mandrup in Dec.2019.
- 5) Dr.I.A.Shaikh Conducted a guest lecture on "Mathematics" at St.Joseph Junior College Solapur on 12th Dec. 2019.
- 6) Dr. M.S. Shaikh conducted a guest lecture on "Time Management and Stress Management" at Kendriya Vidyalay Junior College, on 17th Dec.2019. Pangal Junior College on 30th Nov 2019 and Kamrunisa Junior College on 1st Nov 2019
- 7) Prof S.D.Jadhav conducted a guest lecture on "Career Opportunity after 12th" Lectures to 12th aspirants- Chandak Jr. College Bale, Jr.college on 12th Dec.2019.
- 8) Prof. U.K.Jadhav conducted a guest lecture on "Time Management and Stress Management" at Arnav College, Vairag on 10th Dec.2019.

5) SHORT TERM COURSES/ CONFERENCES/ WORKSHOPS ATTENDED/ ORGANISED BY OUR FACULTY MEMBERS.

1. Prof.S.D.Jadhav

- 8 week NPTEL course "Accreditation & Outcome Based Learning" organized by IIT Kharagpur (Aug - Oct 2019).

- One week workshop on “Applications of Algebra and Analysis “(Jun 2020)
- One day workshop on online teaching learning and assessment.
- DBATU 5 days Workshop on Mental Health Awareness during Covid-19 on "Maintaining Mental Health During Turbulence" from 6th May to 10th May 2020
- One week workshop on “Students Induction Programme” organised by AICTE.
- One day workshop on developing e-content by Devkiba College Mumbai.
- Three days workshop on Education 4.0.
- One week workshop on Industry 4.0
- Webinar on “Recent Research in Fuzzy Mathematics

2. Dr. G.D. Khuspe

- 8 week NPTEL course “Accreditation & Outcome Based Learning” organized by IIT Kharagpur (Aug - Oct 2019)
- Workshop on “ICT Tools for Effective Teaching Learning” organized by Swami
- Ramanand Teerth Marathwada University, Nanded
- Workshop on Managing Online Classes and Co-Creating MOOCS:2.0 organized by Ramanujan College, Delhi University
- Webinar on ‘Importance of Association with Professional Organizations for OBE’ organized by WCE, Sangli on 30th April 2020
- Online webinar on “The inspiring World of Nano Material” by Merk Goodfellow
- FDP on ‘MOOC, e-content e-learning in Higher Education’ by GFGCW Chamarajpet, Bangalore on 13th May 2020
- DBATU 5 days’ Workshop on Mental Health Awareness during Covid-19 on "Maintaining Mental Health During Turbulence" from 6th May to 10th May 2020
- One day workshop on “C & C++” organized by Teaching Learning Centre (ICT) at IIT Bombay on 29th Feb 2020

3. Dr.M.S.Shaikh

- One day National Workshop on Professional Development by ELTAI Solapur chapter and Dept. of English Sangameshwar College, Solapur on 4th August 2019
- 8 week NPTEL course “Accreditation & Outcome Based Learning” organized by IIT Kharagpur (Aug - Oct 2019).
- Workshop on “Effective and Efficient Online Teaching in the Age of Corona, A Hands On Workshop” organized by Teaching Learning Centre (ICT) at IIT Bombay.
- Three weeks 8 Credit Course on: WhatsApp Outcome Based Education Faculty Development Program by D Y Patil College of Engineering, Akurdi Pune from March 24 to April 14, 2020
- Webinar on “Engaging and Motivating students through visible progress” by Cambridge at Home, Cambridge University press

- DBATU 5 days Workshop on Mental Health Awareness during Covid-19 on "Maintaining Mental Health During Turbulence" from 6th May to 10th May 2020
- 2days International Webinar on “Imagination, Expression, Transformation Creating the Worlds with Words.” On 23rd and 24th May 2020.
- 5 Webinars of Cambridge at Home by Cambridge University Press in May 2020.

4. Prof. S.U.Chavan

- 8 week NPTEL course “Accreditation & Outcome Based Learning” organized by IIT Kharagpur (Aug - Oct 2019).
- Workshop on “Effective and Efficient Online Teaching in the Age of Corona, A Hands On Workshop” organized by Teaching Learning Centre (ICT) at IIT Bombay.
- International Webinar on “Leadership Skills”
- DBATU 5 days Workshop on Mental Health Awareness during Covid-19 on "Maintaining Mental Health During Turbulence" from 6th May to 10th May 2020

5. Prof. Mrs. A.V. Sadlapurkar

- 8 week NPTEL course “Accreditation & Outcome Based Learning” organized by IIT Kharagpur (Aug - Oct 2019).
- Workshop on “Effective and Efficient Online Teaching in the Age of Corona, A Hands On Workshop” organized by Teaching Learning Centre (ICT) at IIT Bombay.
- One day workshop on “C & C++” organized by Teaching Learning Centre (ICT) at IIT Bombay on 29th Feb 2020
- International E-Conference on “Strategies & Challenges in Higher Education during COVID-19 Lockdown Period in India with reference to the World” organized by Government Vidarbha Institute of Science & Humanities Amravati from 15th to 17th May 2020.
- International Level Web Conference on ‘New Pathways in Chemistry’ Organized by the Department of Chemistry of N. G. Acharya & D. K. Marathe College of Arts, Science & Commerce on 23rd and 24th May 2020.
- Webinar on “Use of Construction Chemicals in Construction Industry” organized by Department of Civil Engineering, Rajarambapu Institute of Technology, Rajaramnagar (RIT) on 20th May 2020.

6. Prof. Mrs. P.A. Ubale

- 8 week NPTEL course “Accreditation & Outcome Based Learning” organized by IIT Kharagpur (Aug - Oct 2019).
- Workshop on “Effective and Efficient Online Teaching in the Age of Corona, A Hands On Workshop” organized by Teaching Learning Centre (ICT) at IIT Bombay.
- One day workshop on “C & C++” organized by Teaching Learning Centre (ICT) at IIT Bombay on 29 Feb 2020
- Virtual Conference on “Materials for Energy Harvesting and Catalysis” organized by TIFR, Mumbai and IISER, Kolkatta from 1st - 3rd May 2020
- International E-Conference on “Strategies & Challenges in Higher Education during COVID-19 Lockdown Period in India with reference to the World” organized by Government Vidarbha Institute of Science & Humanities Amravati from 15th - 17th May, 2020

- International Level Web Conference on 'New Pathways in Chemistry' organized by Department of Chemistry of N. G. Acharya & D. K. Marathe College of Arts, Science & Commerce on 23rd & 24th May 2020
- International webinar entitled "NANO - THE TINY WARRIOR"- Engineering Nanomedicine and Drug Delivery System organized by Department of Chemistry, Kongu Engineering College, Tamil Nadu on 30th May 2020
- Webinar on "Post Covid_19: Science and Technology" organized by SRM University, Andhra Pradesh on 29th May 2020
- Online FDP on "Chemistry Significance in Engineering, Pharmacy, Nanotechnology and Environment" organized by Pragati Engineering College, Andhra Pradesh from 2nd to 6th June 2020
- One Day Online Conference on "Chemistry and Environment Interface" organized by Department of Chemistry, Arts, Commerce and Science College, Lanja, Ratnagiri on 5th June 2020

7. Prof.M.T.Ingale

- 8 week NPTEL course "Accreditation & Outcome Based Learning" organized by IIT Kharagpur (Aug - Oct 2019).
- DBATU 5 days Workshop on Mental Health Awareness during Covid-19 on "Maintaining Mental Health During Turbulence" from 6th May to 10th May 2020
- 3 days workshop on Education 4.0
- Webinar on NBA process and Margdarshan Scheme

8. Dr. I.A. Shaikh

- 8 week NPTEL course "Accreditation & Outcome Based Learning" organized by IIT Kharagpur (Aug - Oct 2019)
- DBATU 5 days Workshop on Mental Health Awareness during Covid-19 on "Maintaining Mental Health During Turbulence" from 6th May to 10th May 2020

9. Prof. A.H. Kangale

- 8 week NPTEL course "Accreditation & Outcome Based Learning" organized by IIT Kharagpur (Aug - Oct 2019)
- Online workshop on exam reforms by AICTE
- Webinar on "Result Analysis" organized by DBATU
- Webinar on "Recent Research in Fuzzy Mathematics"
- DBATU 5 days Workshop on Mental Health Awareness during Covid-19 on "Maintaining Mental Health During Turbulence" from 6th May to 10th May 2020

10. Prof. N.L. Mane

- Short Term Training Programme through ICT Mode on "NBA Accreditation" organized by National Institute Of Technical Teachers Training & Research, Kolkata from 22/4/2019 to 26/04/2019.
- 8 week NPTEL course "Accreditation & Outcome Based Learning" organized by IIT Kharagpur (Aug - Oct 2019).
- Workshop on "Effective and Efficient Online Teaching in the Age of Corona, A Hands On Workshop" by Teaching Learning Centre (ICT) at IIT Bombay.

- One day workshop on "C & C++" organized by Teaching Learning Centre (ICT) at IIT Bombay on 29th Feb 2020
- 3 days "Online Learning" workshop organized by QASPIR held on (1st – 3rd April 2020).
- 3 days online workshop on "Education 4.0" organized by Atharva College of Engineering, Mumbai held on (28th – 30th April 2020)
- Completed 3 days online FDP on MOODLE organized by VIT, Chennai & Spoken Tutorial IIT Bombay from 13 May 2020 to 15 May 2020.
- Online workshop on "LateX" jointly organized by MIT college of Railway Engineering & Research Barshi and Spoken Tutorial Project, IIT Bombay from 14 May 2020 to 17 May 2020.
- Online FDP on "Fuzzy sets & Systems" organized by Dept. of mathematics of Patrician College of Arts & Science, Chennai held on 16 May 2020
- National Level webinar on "Smart use of Mathematics" held on 31 May 2020 organized by Dept. of First Year Engineering, Dhole Patil College of Engineering, Pune.
- DBATU 5 days Workshop on Mental Health Awareness during Covid-19 on "Maintaining Mental Health During Turbulence" from 6th May to 10th May 2020

11. Prof. U.K. Jadhav

- 8 week NPTEL course "Accreditation & Outcome Based Learning" organized by IIT Kharagpur (Aug - Oct 2019).
- DBATU 5 days Workshop on Mental Health Awareness during Covid-19 on "Maintaining Mental Health During Turbulence" from 6th May to 10th May 2020
- FDP on "Incorporating Universal Human Values in Technical Education" organized by DBATU from 13th May to 17 May 2020
- DBATU 5 days Workshop on Mental Health Awareness during Covid-19 on "Maintaining Mental Health During Turbulence" from 6th May to 10th May 2020

8) CONTRIBUTION OF FACULTY MEMBERS IN VARIOUS DEPARTMENT & INSTITUTE LEVEL ACTIVITIES

Sr. No.	Name of faculty	Contribution
1	Prof. S.D. Jadhav	Head, Dept. General Engineering
		Core- Committee member
2	Dr. I.A. Shaikh	Admission Coordinator
3	Dr. G.D. Khuspe	NBA Coordinator for FE
4	Prof. Mrs. A.V. Sadlapurkar	Term work and Internal marks Coordinator
		Ladies Hostel Rector

5	Dr. M.S. Shaikh	Academic Plan Coordinator
		Magazine Coordinator
6	Prof. A.H. Kangale	Result Analysis Coordinator
		Exam Coordinator
7	Prof. Mrs. P.A. Ubale	Parent Teacher Association
		Parents meet coordinator
		ERP Coordinator
8	Prof. Mrs. M.T. Ingale	Psychological counseling coordinator
		AMC Coordinator
		Student's Stationary
9	Prof. S.U Chavan	College Magazine Co-ordinator
		Motivational Lecture Co-ordinator
10	Prof. N.L. Mane	Time Table Coordinator
		Website Coordinator
11	Prof. U.K. Jadhav	Archive Coordinator
		Induction Program Coordinator
12	Prof. A.P. Savant	Internship Coordinator
		Study session Coordinator

9) STUDENT DEVELOPMENT PROGRAMS: -

a) Orientation Sessions: - Orientation Sessions were conducted by FE HOD, Head Training and Placement, Class Coordinators and respective subject teachers.

b) Induction Programme: Induction program of 21 days was conducted comprising of various activities like making hands dirty, best out of waste, reading, sports, walk through, ICE breaker and Yoga Session etc. in the beginning of the semester. This helped the students to be acquainted with the new environment and with the subjects mentioned in the curriculum. The department conducted a session on Humanities and Moral Values for the students.

c) Personal Counseling: - Mrs. Alka Kakade conducted psychological aptitude test for all the students of First Year Engineering. Personal counseling was also provided to the students to help them improve in their academics and to resolve their difficulties.

d) Motivational Lectures: -

1) Prof. I.I. Mujawar conducted a motivational lecture for the first year students on Excel the Excellence.

e) Parent Meet: -

The department organized a Parent Meet in October 2019 to introduce Engineering subjects, study methods, semester pattern and time wasters.

f) Proctor System: - A group of 20 students is assigned to each faculty member. These faculty members work as their local guardian, mentor and guide and help the students to cope up with their academic and personal problems.

g) Hostel Visits: - Faculty members visited Boys & Girls hostel as per the timetable during preparatory leave for guiding the students.

h) Study leave plan of students: - Students are made to prepare their study plans under the guidance of the respective proctor teacher and there was a continuous follow up to check whether the students were implementing the study plan effectively.

i) Extra lectures for Advance Learners: - Additional Lectures were conducted for Advanced Learner students.

j) Coaching for Remedial Exam: - Coaching was provided to the students in each semester before they appeared for their Remedial Examination.

k) Book Bank Scheme: - Book Bank Scheme to each student for entire semester helped the student for easy availability of books for their studies & knowledge gain.

l) Study Sessions and Prelim Exam:- During the Preparatory Leave, subjectwise study sessions are conducted wherein the respective faculties sit with the students to guide them. Prelim Exam was conducted after the study session which helped them to improve their Academic Performance in the University Exam.

m) Online Activities during Covid-19

During the lockdown period 40% of the remaining syllabus was covered by the Teaching Faculty of all subjects. Online lectures, Tests, Interaction with the Alumni and Industry experts, Proctor Meetings and Parent Meetings were conducted through various platforms like Google Meet, Microsoft Teams and Zoom. Practical of various subjects were conducted through Virtual Labs. Self-recorded videos and online resources were provided to the students for concept clarity and syllabus coverage. Students have enrolled for various free online Internships on platforms like Coursera, TCS and Intern Shala which has benefitted the First Year Students. Overall a fruitful engagement of the students was carried out during the lockdown phase.

(Prof. S.D. Jadhav)

Head

Department of General Engineering