

Annual Report of General Engineering Department for the Academic Year 2021-22

I am pleased to present the Annual Report of our General Engineering Department for the academic year 2021-22



1) STUDENT DEVELOPMENT PROGRAMS: -

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

b) Induction Programme: Induction program of 1 week was conducted comprising of various activities like Imbibing Human Values, Interaction with all the Departments, motivational session “Excel the Excellence” etc. in the beginning of the first semester. This helped the students to be acquainted with the new environment and with the subjects mentioned in the curriculum. The department also conducted a session on Humanities and Moral Values for all newly admitted students.

c) Internship: First Year Students successfully completed their 2 week internship by enrolling for the course from TCS iON Career Edge - Young Professional. This course equipped the students with core employability skills such as communication, collaboration, business etiquette, financial and digital literacy skills

d) Personal Counseling: - Mrs. Alka Kakade conducted psychological counselling session for the First Year Engineering Students.

e) Motivational Lectures: -

1) Prof. I.I. Mujawar conducted a motivational lecture for the first year students on “Excel the Excellence” on 12th and 19th May 2022.

f) Parent Meet: -

The department organized Parent Meet of all Divisions in March & June 2022. The meet was conducted to interact with the parents and resolve their doubts. The parents were informed about the progress of the students, the Departmental Activities and Academic Practices. 110 parents were present for the Parent Meet.

g) 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. The faculty members

inform the parents about academic performance and the attendance of the students.

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

i) Prelim Exam: - Prelim Exam was conducted which helped the students to improve their Academic Performance in the University Exam.

j) Online Activities during Covid-19

During the lockdown period 100% of the syllabus was completed. The Teaching Faculty of all the subjects covered theory as well as practical. 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. Practicals 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 Internshala, which has benefitted the First Year Students. Overall, a fruitful engagement of the students was maintained during the lockdown phase.

2) FACULTY ACHIEVEMENTS:

1) Prof. S.U.Chavan was awarded Ph.D. in English Literature, from P.A.H. Solapur University in January 2022 in “An Exploration of Feminine Perspectives in the Novels and Short Stories of Chimamanda Ngozi Adichie”

2) Prof. P.A.Ubale was awarded PhD in Chemistry, from Shivaji University Kolhapur in January 2022 in “Study of Some Quinazoline Derivatives and their Interactions with Transition Metal Ions.”

3) Prof. U.K.Jadhav received Award of Excellence for Meritorious contribution in Teaching (Soft Skills) for Academic Year 2020-21 at NKOCET, Solapur.

2) FACULTY PUBLICATIONS:

1) Prof. S.D. Jadhav published a paper on “Initial Taylor-Maclaurin Coefficient Bounds And The Fekete-Szego Problem For Some Special Subclasses Of M-

Fold Symmetric Analytic Bi-Univalent Functions” in the

International Journal of TWMS-JAEM in January 2022.

2) Prof. S.D. Jadhav, presented a paper on “A study of Certain Class of Harmonic Univalent Functions Defined by Fractional Differential Operator” at a National Conference on Mathematical Analysis and Applications – 2022, organized by Shivaji University Kolhapur during 21st to 22nd March 2022.

3) Prof. S.D. Jadhav, presented a paper on “Coefficient Estimates for certain Subclass of M-fold Symmetric Analytic, Bi-univalent at an International Conference on Recent Advances in Mathematics- 2022, organized by DKTE, Ichalkaranji, on 27th May 2022.

4) Prof.P.A.Ubale, presented a paper on “Emerging Trends in Chemistry” organised by Department of Chemistry, Shankarrao Mohite Mahavidyalaya, Akulj on “Remarkable In Vitro anticancer activities of New Cu(II) Metal Complexes derived from 4(3H)-quinazolinone.” in One Day Online National Conference on 10th February 2022.

5) Dr.P.A.Ubale Presented Paper in “Physical, chemical, biological nanosciences” by Department of Science, Lal bahadur Shastri college of Arts, Science and Commerce, Satara on “Remarkable In Vitro anticancer activities of New Cu(II) Metal Complexes of quinazoline derived Schiff bases” in International conference on Recent trends on 17th and 18th May 2022.

3) Dr.P.A.Ubale, published a paper on “Studies on Optical, Structure, and Photoconductivity of Titanium Dioxide Thin Films Prepared by Chemical Bath Deposition Via Aqueous Route”, Macromolecules, 2021. DOI: [10.1002/masy.202100020](https://doi.org/10.1002/masy.202100020)

6) Dr. P.A.Ubale published a paper on “Evaluation of *in vitro* anticancer, antimicrobial and antioxidant activities of new Cu(II) complexes derived from 4(3H)-quinazolinone: Synthesis, crystal structure and molecular docking studies”, Journal of Molecular Structure, 2021, DOI: [10.1016/j.molstruc.2021.131984](https://doi.org/10.1016/j.molstruc.2021.131984)

7) Prof. Ms. A.V. Sadlapurkar published – Statistically designed extractive spectrophotometric determination scheme for bismuth(III) with 2-chlorobenzaldehyde thiocarbohydrazone: Analysis of

environmental and real resources.

<https://doi.org/10.1016/j.cdc.2021.100798>

7) Prof. M.T. Ingale, published a paper on “Nanofibers Synthesised from Jawar Stem (Agro-Waste) for Removal of Cr (VI) from Aqueous Solution” <https://doi.org/10.1080/03067319.2021.1966425>

8) Prof. M.T. Ingale, presented a paper on “Removal of Heavy Metals from Water Using Nanomaterials” in Two Days National Conference on Emerging Material: Chemistry and Challenges” at Rajashree Shahu Mahavidyalaya, Latur on 11th and 12th March 2022.

9) Prof. A.V. Sadlapurkar presented paper on “Recent Trends in Physical, Chemical, Biological Nanosciences” (ICRT- PCBNano-2022) in International Conference organized by Lal Bahadur Shastri College of Arts, Science and Commerce, Satara on 17th and 18th May 2022.

10) Prof.A.V.Sadlapurkar presented a paper on “Emerging Trends in Chemistry” organized by Department of Chemistry, in One Day Online National Conference organized by Shankarrao Mohite Mahavidyalaya, Akulj on 10th February 2022.

12) Prof.A.V.Sadlapurkar presented a paper on “Recent Advances in Chemical Sciences” (RACS) in One Day National conference organized by Punyashlok Ahilyadevi Holker Solapur University, Solapur on 28th April 2022.

3) FACULTY INTERACTION WITH OTHER INSTITUTIONS

1) Prof.S.D. Jadhav conducted a session on “Career Opportunities after 12th” at SVCS Jr. College, MIDC, Solapur and SVCS Jr. College Bhavani Peth, Solapur, on 29th Jan., 2022.

2) Prof.S.D. Jadhav conducted a session on “Career Opportunities after 12th at Kuchan Jr. College, Solapur on 31st Jan., 2022.

- 3) Prof.S.D. Jadhav conducted a session on “Career Opportunities after 12th at Sangmeshwar Jr. College, Solapur on 3rd Feb., 2022.
 - 4) Prof. S.D. Jadhav conducted a session on “Career Opportunities after 12th at Jr. College, Murum on 5th Feb., 2022.
 - 5) Prof.S.D. Jadhav conducted a session on “Institute Introduction and Use of Virtual Labs.” at Bharati Vidyapeeth Jr. College, Solapur, on 23rd Jan., 2022.
 - 6) Prof.S.D. Jadhav conducted A session on “Institute Introduction and Use of Virtual Labs.” at Arts, Commerce and Science College, Naldurg, on 24th Jan., 2022.
 - 7) Prof. S.D. Jadhav conducted A session on “Institute Introduction and Use of Virtual Labs.” at Jawahar Jr. College, Andur on 20th Jan., 2022.
 - 8) Dr.M.S.Shaikh conducted an online session on “Use of ICT in English Language Learning” in a National Workshop for SRM Institute of Science and Technology (Ramapuram Campus) on 9th July 2021.
 - 9) Dr.M.S.Shaikh conducted an online session on “Breaking Barriers while Speaking in English” for St.Joseph Engineering College Chennai on 13th July 2021
 - 10) Dr.M.S.Shaikh conducted an online session on “Significance of Soft Skills in Career Development” for Sangameshwar College, Solapur on 27th August 2021.
 - 11) Dr.M.S.Shaikh conducted an online session on “Placement Preparation” for Sangameshwar College, Solapur on 4th April 2022.
 - 12) Dr.M.S.Shaikh conducted a session on “Personality Development” at SSWP College, Solapur on 23rd April 2022.
 - 13) Dr.M.S.Shaikh conducted a session on “Effective English Writing Tools and Techniques” in a University Level Workshop at LBPM College, Solapur on 17th February 2022.
 - 14) Dr.M.S.Shaikh conducted an online session on “Content Writing” for Sangameshwar College, Solapur on 4th April 2022.
 - 15) Dr.M.S.Shaikh conducted a session on Interpersonal Skills for Faculty under Faculty Development Program at Maulana Azad Polytechnic, Solapur on 24th March 2022.
 - 16) Dr.S.U.Chavan conducted sessions on “Career opportunities after 12th” for Shivaji College, Omarga on 11th February 2022.
 - 17) Dr.S.U.Chavan Conducted a Seminar on “Personality Development” at Government Polytechnic, Solapur on 30th March, 2022.
 - 18) Dr.S.U.Chavan conducted an online session on Time Management for Faculty under Faculty Development Program at Maulana Azad Polytechnic, Solapur on 24th March 2022.
 - 19) Prof.Umakant Jadhav organized a session for Pratibha Niketan Junior College Murum and Arts, Commerce and Science Jr. College Murum on Career Opportunities after 12th on 05th February 2022.
 - 20) Prof.Umakant Jadhav conducted session for COCSIT Jr College Latur, on Career Opportunities after 12th on 12th February 2022.
 - 21) Prof.A.H. Kangale conducted session for Vidya Mandir Jr College Vairag, on Career Opportunities after 12th on 5th February 2022.
- 4) SHORT TERM COURSES/ CONFERENCES/ WORKSHOPS ATTENDED/ ORGANISED BY OUR FACULTY MEMBERS.**
- 1. Prof. S.D. Jadhav**
- Participated in one-week FDP on “Role of Mathematics In Latest Engineering & Technology”, Lords Institute of Engg. and Tech. Hyderabad from 4th to 10th June 2021.
 - Participated one week “National Level STTP on Latex” organised by Modern Education Society’s College of Engineering, Pune from 13th to 18th April, 2022.

- Attended one-week workshop on “Research Methodology-Tools And Techniques” organized by Geetanjali Institute of Technical studies, Udaipur from 25th to 29th April 2022.
- Participated in the National Webinar on “Algebraic Graph Theory” organised by Kavayatri Bahinabai Chaudhari North Maharashtra, University, Jalgaon from 2nd to 4th October 2021.
- Attended online seminar on “Role of Mathematics in Engineering, Science and Technology” organised by Manipal University Jaipur on 15th October 2021.

2. Dr. M.S. Shaikh

- Attended webinar on Language Learning through Literature” conducted by WELLTA, Chennai on 27th September 2021.
- Attended FDP on “Question Paper Authoring and Student Evaluation” conducted by NITTTR, Chennai from 13th to 17th September 2021.
- Attended International FDP on “Meanings and Forms of Communication;The Art of Speech” conducted by WELTA on 21st February 2022.
- Attended Seminar on “Teaching with Infographics: Practising New Digital Competencies and Visual Literacies” conducted by ELTAI on 17th April 2022.

3. Dr. S.U. Chavan

- Attended FDP on “Developing Professional Attributes for OBE Curriculum” conducted by NITTTR, Chennai from 13th to 17th September 2021.

4. Prof. Mrs.A.V.Sadlapurkar

- Attended Workshop on" How to Conduct the Student Induction (SIP) Program" organized by All India Council for Technical Education (AICTE) on 20th September, 2021.
- Attended FDP on “Developing Professional Attributes for OBE Curriculum” organized by National Institute of Technical teachers Training and Research, Chennai from 13th 2021 to 17th September 2021.

- Attended “Virtual International Conference on Interdisciplinary Approaches In Chemical Sciences (IACS-2021)” organized by Department of Chemistry, M.E.S’s Abasaheb Garware College, Pune from .21st to 23rd October 2021.
- Attended one week workshop on “Instructional Design and Delivery System” organized by National Institute of Technical teachers Training and Research, Chennai from 04th October 2021 to 08 October 2021.

5. Prof. M.T. Ingale

- Participated in one-day workshop on “How to Conduct the Student Induction Program” organized by AICTE on 21st September 2021.
- Attended one week FDP on “Recent advancement in Nanomaterial and Green Technology for Sustainable Engineering” organized by Rajiv Gandhi Institute Of Technology Mumbai held from 6th to 10th October 2021.
- Attended one-week FDP on “Research Methodology Tools And Techniques organized by Geetanjali Institute of Technical studies, Udaipur from 25th to 29th April 2022.
- Virtually participated in Two Days International Conference on “Advanced Horizon in Chemical Society 2021” held on 26th and 27th October 2021, organized by Arts, Commerce & Science College ,Satral, (Rahuri).

6. Prof. A.H. Kangale

- Attended online National Webinar on “How to Achieve Excellence in NIRF” organized by Sangameshwar College (Autonomous), Solapur, held on 14th May 2021.

7. Prof. U.K. Jadhav

- Attended FDP on “Counseling for Student Development” conducted by NITTTR, Chennai from 13th to 17th September 2021.

8. Prof. I.N. Birajdar

- Attended online National Webinar on “How to Achieve Excellence in NIRF” organized by

Sangameshwar College (Autonomous), Solapur,
held on 14th May 2021.

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

Sr. No.	Name of faculty	Contribution
1	Prof. S.D. Jadhav	Head, of Dept. General Engineering
		Admission Coordinator
		Core- Committee member
		Member of College Development committee
2	Prof. Mrs. A.V. Sadlapurkar	Ladies Hostel Rector
		Induction Program Coordinator
		Internal Marks & POE Coordinator
3	Dr. M.S. Shaikh	Magazine Coordinator
		Soft Skill Coordinator
4	Prof. A.H. Kangale	AMC coordinator FE
		FE Library committee member
		I-card coordinator institute level
		Exam Coordinator
5	Dr. P.A. Ubale	Parents meet coordinator
		Result analysis coordinator
6	Prof. Mrs. M.T. Ingale	Psychological counseling coordinator
		Academic Plan Coordinator
		Student's Stationary Coordinator
7	Dr. S.U Chavan	College Magazine Coordinator
8	Prof. S.K. Alure	Time Table Coordinator
		Website Coordinator
		Motivational Lecture Co-ordinator
9	Prof. U.K. Jadhav	Universal Human Values Coordinator
10	Prof. Ms. S.S.	Internship coordinator

	Newale	
		Study Session Coordinator
		Department Tea club coordinator
11	Prof. I.N. Birajdar	NPTEL Coordinator
		Attendance Coordinator

This was a brief review of the General Engineering Department. The academic practices of the department resulted in excellent academic results and the overall development of the students.

(Prof. S.D. Jadhav)
Head
Department of General Engineering