



P.A. COLLEGE OF ENGINEERING

Affiliated to VTU | Approved by AICTE Recognized by Govt. of Karnataka

ANNUAL REPORT

2022-23



Near Mangalore University, Konaje, Mangaluru - 574153

PRINCIPAL
P.A. COLLEGE OF ENGINEERING
MANGALORE - 574 153

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INTRODUCTION

P.A. College of Engineering (PACE) was established in the year 2000 under the aegis of PAET, with an aim to provide a career-oriented professional education and to produce technically competent engineers with moral and ethical values. The institution is dedicated to promote an effective learning environment that encourages excellence and diversity in thoughts and endeavour.

PACE is affiliated to the Visvesvaraya Technological University (VTU), Belgaum and is approved by the All India Council for Technical Education (AICTE), New Delhi, recognized by the Government of Karnataka.

P.A. College of Engineering which instituted with a total intake of 240 students- 60 students each in four disciplines of engineering, has now grown in leaps and bounds. Over the 24 years, new undergraduate programs, postgraduate programmes in various branches of engineering, MBA courses and Research programmes were added to meet the growing demand in the industry and the intake has been increased in Engineering and management courses. Teaching and research facilities at PACE are already among the best and continues to improve. Well qualified faculty with international reputation, a well-developed campus and outstanding infrastructure makes PACE much sought after for technical and management education. The institution regularly invites experts from industry and academia for interaction with students. While helping the students to reach their full potential, PACE also offers innumerable opportunities for extracurricular activities that match nearly every interest.

PACE is located in Mangalore, a city which has established itself as the knowledge hub of South India and has become a haven for advanced study. Beautiful environment and salubrious climate make Mangalore a dream destination for learning. Mangalore is well connected to the rest of the country by air, rail and road. Nestled amidst lush greenery, P. A. College of Engineering celebrates the serene splendour of pristine nature. Spread across 60 acres, the college offers the perfect setting for an academic environment.



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VISION AND MISSION

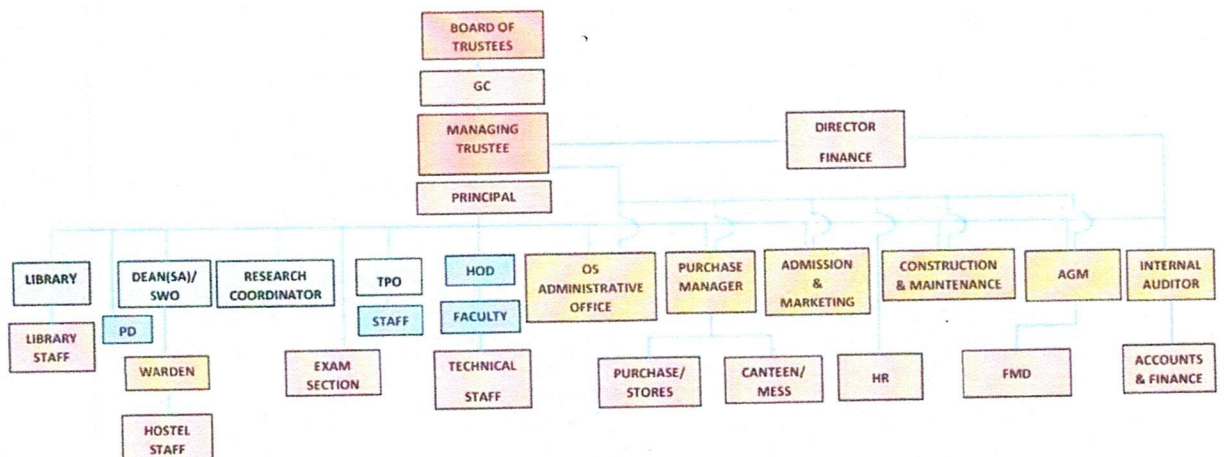
Vision

PACE is envisaged as a centre of evolution for excellence in Technological, Management and Research Education. The institution aspires to spread universal knowledge through villages and cities enabling expansion of human resources.

Mission

- To provide career-oriented professional education to produce technically competent engineers and managers with moral and ethical values.
- To foster and promote an effective learning environment in the campus to be recognized as place that encourages excellence and diversity in thoughts and endeavour.
- To provide research and intellectual resources to address problems facing the industry and the society while advancing the scopes of multidisciplinary applications.

ORGANIZATION SETUP





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GOVERNING COUNCIL

The Governing Council of P. A. College of Engineering is headed by the Managing Trustee of P. A. Educational Trust. The decisions of the Governing Council are executed through the Principal. The financial matters of the institution are monitored by the Director (Finance) under the aegis of Managing Trustee, through the internal auditor and the supporting staff. The academic body comprising of heads of various departments, teaching and non-teaching faculty members are under the supervision of the Principal. The supporting departments like Examinations, Library, Student Welfare Office, Office of the Dean (Student Affairs) and Physical Education are also under the supervision of the Principal. The Vice Principal support the Principal in academic and associate matters. The daily affairs of the various departments like Administrative Office under Office Superintendent, the HR Office under HR Officer, Transportation & Security managed by AGM, Purchase, Stores and Canteen/Mess supervised by Purchase Manager, Construction and Maintenance under Site Engineer are managed by the Principal under the guidance of the Managing Trustee.

No	Name	Designation	Profession
1	Mr. Abdulla Ibrahim	Managing Trustee	Service
2	Dr. Abdul Rahiman M	Member	Academician
3	Mr. Ahmed Kutty	Member	Director Finance
4	Mr. M P Ahammed	Member	Industrialist




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5	Dr. Sufiyan Baig	Member	Academician
6	Mr. Zubair Ibrahim	Member	Service
7	Mr. Ameen Ibrahim	Member	Service
8	Dr. Abdul Sharief	Member	Academician
9	Director of Technical Education	Member	Director DTE
10	Director of SWRO AICTE	Member	Director SWRO
11	Mr. Aseef Mohammed	Member	Advocate
12	Dr. Sharmila Kumari	Member	Vice Principal
13	Dr. Ramis M. K.	Member Secretary	Principal



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PROGRAMMES

B.E. - UG Course Details

Sl No	Courses	Intake	Accreditation Status
01	Biotechnology	30	NBA Accredited
02	Civil Engineering	60	--
03	Computer Science	120	NBA Accredited
04	Electronics & Communication	60	--
05	Artificial Intelligence & Machine Learning	30	--
06	Mechanical Engineering	60	NBA Accredited

Post Graduate: MBA

Sl No	Courses	Intake	Accreditation Status
01	MBA	60	--

Ph.D

P.A. College of Engineering has eight VTU recognized research centers offering Ph.D. and M.Sc. (Engg.) by Research courses. Appreciable number of Ph.D. faculty members are available as research guides in various departments to supervise the research scholars on recent advances in various fields.




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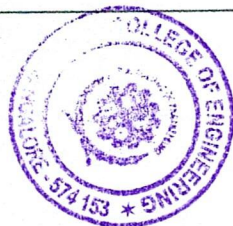
ADMISSIONS


Programme name	Number of Students admitted
B.E. COMPUTER SCIENCE & ENGINEERING	125
B.E. BIO TECHNOLOGY	13
B.E. CIVIL ENGINEERING	3
B.E. ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	31
B.E. ELECTRONICS AND COMMUNACATIONS ENGINEERING	53
B.E. MECHINICAL ENGINEERING	18
MASTER OF BUSINESS ADMINISTRATION	58

ACTIVITIES OF 2022-2023

1. The college offered 7 additional certification courses, enrolling a total of 560 students.
2. The teaching faculties were able to receive Grants up to 35,00,000/- in the academic year.

Particulars	Name of the Principal Investigator	Name of the Funding Agency	Amount
High Performance Computing Framework for Efficient Discovery of Useful Patterns from Voluminous Data Using	Dr. Zahid Ansari	VGST (CISEE)	10 lakhs




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Soft Computing			
Combined Impact of High Injection Pressure and Injection Timing on the Performance and Combustion of Common Rail Direct Injection (CRDI) Engine Fueled with a Biodiesel Blend	Dr. Ramis MK	VGST,	10 lakhs
Dynamic thermal management of Li-ionbattery cells forelectric vehicles and application of Machine learning	Dr. Abdul Razak	SERB	15 lakhs

3. Student projects were financially assisted by various bodies.

SI No	Department	Title	Guide
1	Mechanical Engg	Design & Fabrication of Attachable Electric Wheelchair	Prof. Varun Hegde
2	Computer Science	Smart Food Detection	Prof. Habeeb Ur Rahman
3	Civil Engg	Aquaponics an Alternative Land Farming	Prof. Jameela
4	Computer Science	Medical Robo Assistant	Prof. Habeeb Ur Rahman
5	Computer Science	V-Learn	Dr. Sharmila Kumari M
6	Computer Science	CREDREP	Prof. Shamna N V



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7	Biotechnology	UV Protective Umbrella	Dr. Krishna Prasad N.
8	Biotechnology	Self cleansing mouth mask	Dr. Ronald Valder
9	Computer Science	Augmented reality in Education	Dr. Sharmila Kumari M
10	Computer Science	Am the eye	Prof. Habeeb Ur Rahman

4. The institutions innovation council (IIC) of P A College of Engineering was recognized by innovation cell, ministry of education, government of India for continuous support and contribution towards building innovation and entrepreneurship culture in the campus.
5. In the academic year 2022-2023, the institute signed 22 Memorandums of Understanding (MOUs) with various companies and institutes to enhance collaboration, foster innovation, and expand opportunities for students and faculty.
6. The institute has hosted 17 workshops and seminars focused on Research Methodology, Intellectual Property Rights, and Entrepreneurship. These events have been instrumental in enhancing participants' understanding of research techniques, legal aspects of intellectual property, and entrepreneurial skills. Additionally, they have provided valuable networking opportunities and platforms for collaborative learning.
7. In 2023, the college faculty achieved significant academic contributions by publishing 43 research articles and contributing to 11 conference proceedings and book chapters. These publications reflect the faculty's dedication to advancing knowledge and sharing their research findings with the broader academic community.
8. Each department has dedicated research facilities catering the needs of the research scholars carrying out research in their domains.
9. The institute has organized approximately 10 extension and outreach activities in collaboration with the National Service Scheme (NSS) and the Youth Red Cross (YRC) units of the college. These initiatives aimed to engage students in community service,



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promote social responsibility, and address local community needs. Through these activities, students had the opportunity to apply their knowledge and skills in real-world settings, fostering a sense of civic duty and enhancing their personal and professional development.

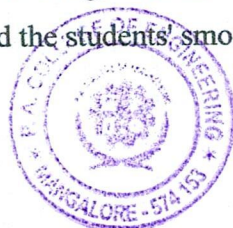
10. In the academic year 2022-2023, the institute received notable recognitions for its commitment to sustainability and community service. These include:


- Silver Certificate of Appreciation from the Energy Swaraj Movement, acknowledging the institute's efforts in promoting sustainable energy practices.
- Participation in the Swachh Bharat Mission Initiative under the campaign "Swachhata Hi Seva," highlighting the institute's dedication to cleanliness and hygiene.
- Letter of Appreciation for its involvement in the International Coastal Clean-up, reflecting the institute's commitment to environmental conservation and global sustainability efforts.

11. In the academic year 2022-2023, a total of 822 students received scholarships from both government and non-government sources. Of this amount, ₹55 lakh was provided through the National Scholarship Portal (NSP). This substantial financial support helped to alleviate educational expenses for students, allowing them to concentrate on their studies and pursue their academic goals. The scholarships demonstrate the institute's commitment to enhancing educational access and supporting student achievement through various funding avenues.

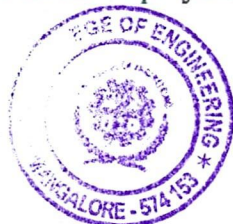
12. In the academic year 2022-2023, a total of 568 students participated in a range of programs focused on guidance for competitive examinations and career counseling offered by the institution. These programs were designed to provide students with valuable insights and strategies for preparing for competitive exams, as well as personalized career advice to help them navigate their professional paths. Through these initiatives, the institution aimed to equip students with the necessary tools and knowledge to excel in their exams and make informed career decisions, thereby supporting their overall academic and professional development.

13. A total of 212 students achieved successful placements through the institution's career services. This accomplishment highlights the effectiveness of the support provided, including career counseling, resume development, and interview preparation, which collectively facilitated the students' smooth transition into the professional workforce.




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14. In the academic year 2022-2023, 7 students successfully qualified for various state and national-level exams, including IELTS, GATE, and other competitive assessments. This achievement underscores their dedication and the institution's support in preparing them for these challenging examinations.
15. During the academic year 2022-2023, 16 students received awards and medals for their outstanding achievements in sports and cultural activities at university, state and national levels. These accolades highlight the students' exceptional skills and the institution's commitment to supporting and celebrating their diverse talents.
16. In the academic year 2022-2023, the college hosted 46 sports and cultural programs in which students actively participated. These events provided a platform for students to showcase their talents, engage in competitive activities, and foster a vibrant campus culture.
17. The registered alumni association, PACENEXT, made significant contributions during the academic year 2022-2023. Their support played a crucial role in advancing various initiatives, enhancing student experiences, and fostering a strong sense of community and connection among graduates and the institution.
18. In the academic year 2022-2023, 48 teachers received financial support totaling ₹2.91 lakhs to attend conferences, workshops, and seminars. This support also included reimbursement for membership fees to professional bodies. This funding facilitated their professional development and engagement with current trends and research in their fields.
19. During the academic year 2022-2023, a significant number of our faculty and staff engaged in professional development and training programs. Specifically, 45 teaching staff members actively participated in various Faculty Development Programs (FDP) and other professional development initiatives aimed at enhancing their teaching skills and academic expertise. Additionally, 22 non-teaching staff members took part in a range of administrative training programs, designed to improve their administrative competencies and operational efficiency. This widespread participation underscores our institution's commitment to continuous learning and professional growth for all its employees.




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20. During the academic year 2022-2023, our college continued to benefit from the DHI ERP system, which was successfully implemented in 2018. This comprehensive ERP system has played a pivotal role in streamlining our administrative and academic processes over the years. As we progress, DHI ERP remains an integral tool in enhancing our operational capabilities.

21. Faculty and students planted the saplings in the campus throughout the year and contribute to the green campus under the leadership of environment cell.

FACULTY DATA

List of full time teachers during the academic year 2022-2023 is as given below:

Sl. No.	Faculty Name	Designation	Department
1.	Dr. Krishna Prasad N.	Professor	Biotechnology
2.	Dr. Ronald Valder	Associate Professor	Biotechnology
3.	Mrs. Shainy Mathew	Assistant Professor	Biotechnology
4.	Mrs. Laila Jaseela	Assistant Professor	Biotechnology
5.	Dr. Sharmila Kumari M.	Professor	Computer Science
6.	Dr. Sayed Abdulhayan	Associate Professor	Computer Science
7.	Mr. Mohammed Hafeez M. K.	Assistant Professor	Computer Science
8.	Mr. Mohammed Asif Raibag	Assistant Professor	Computer Science
9.	Mrs. Sakeena	Assistant Professor	Computer Science
10.	Ms. Shamna N. V.	Assistant Professor	Computer Science
11.	Mr. Habeeb Ur Rehman P. B.	Assistant Professor	Computer Science
12.	Mr. Muhammad Saifuddeen	Assistant Professor	Computer Science
13.	Ms. Avvanhi	Assistant Professor	Computer Science
14.	Mrs. Divya K. K.	Assistant Professor	Computer Science
15.	Mrs. Fathimath Raihan	Assistant Professor	Computer Science
16.	Ms. Ankitha Bekal	Assistant Professor	Computer Science
17.	Ms. Saniya P. M.	Assistant Professor	Computer Science
18.	Mrs. Ramzeela	Assistant Professor	Computer Science
19.	Ms. Tuba Nagheen N.	Assistant Professor	Computer Science
20.	Dr. Abdul Khader	Assistant Professor	Computer Science
21.	Dr. Sudhakar	Assistant Professor	Computer Science
22.	Dr. Madhwaraj	Assistant Professor	Computer Science
23.	Dr. Dinesh	Assistant Professor	Computer Science
24.	Dr. Palakshappa K.	Professor	Civil Engineering
25.	Mr. Praveen Suvarna S.	Assistant Professor	Civil Engineering



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26.	Mrs. Jameela	Assistant Professor	Civil Engineering
27.	Mr. Chethan K.	Assistant Professor	Civil Engineering
28.	Mrs. Safa Sanah C.	Assistant Professor	Civil Engineering
29.	Mr. Mohammad Hussain K.	Assistant Professor	Electronics & Communication
30.	Dr. Chandana B. R.	Associate Professor	Electronics & Communication
31.	Mrs. Littimol Mathew	Assistant Professor	Electronics & Communication
32.	Mr. Tenson Jose	Assistant Professor	Electronics & Communication
33.	Mr. Mohammed Zakir B.	Assistant Professor	Electronics & Communication
34.	Mrs. Asia Hazareena	Assistant Professor	Electronics & Communication
35.	Mr. Mohammed Saleem	Assistant Professor	Electronics & Communication
36.	Ms. Safra	Assistant Professor	Electronics & Communication
37.	Mr. John Valder	Associate Professor	Electrical & Electronics
38.	Mr. Vittal Bhat M.	Assistant Professor	Electrical & Electronics
39.	Ms. Nandini S.	Assistant Professor	Electrical & Electronics
40.	Dr. Ramis M. K.	Professor	Mechanical Engineering
41.	Dr. Prashanth Pai M.	Associate Professor	Mechanical Engineering
42.	Mr. Chandrakant V. Pujar	Associate Professor	Mechanical Engineering
43.	Dr. Abdul Razak	Associate Professor	Mechanical Engineering
44.	Mr. Mohammed Kareemullah	Assistant Professor	Mechanical Engineering
45.	Mr. Navaneeth I. M.	Assistant Professor	Mechanical Engineering
46.	Mr. Chethan K. M.	Assistant Professor	Mechanical Engineering
47.	Mr. Maruthi Prashanth B. H.	Assistant Professor	Mechanical Engineering
48.	Mr. Kiran Kumar B.	Assistant Professor	Mechanical Engineering
49.	Dr. Mohammed Ismail	Professor	AI & ML
50.	Dr. Abdul Majid	Associate Professor	AI & ML
51.	Ms. Nishitha K. R.	Assistant Professor	AI & ML
52.	Mr. Ismail S.	Assistant Professor	Basic Science & Humanities
53.	Mr. Ismail Shaffi A. M.	Assistant Professor	Basic Science & Humanities
54.	Mrs. Razeena Begam	Assistant Professor	Basic Science & Humanities
55.	Dr. Mitra Kunjaru	Associate Professor	Basic Science & Humanities
56.	Mrs. Sumangala Rao	Assistant Professor	Basic Science & Humanities
57.	Mrs. Savitha Rai K.	Assistant Professor	Basic Science & Humanities
58.	Mr. Abdul Majeed	Assistant Professor	Basic Science & Humanities
59.	Mr. Mohammed Faizal	Assistant Professor	Basic Science & Humanities
60.	Mrs. Chandrakala	Assistant Professor	Basic Science & Humanities
61.	Mrs. Prameela	Assistant Professor	Basic Science & Humanities
62.	Dr. Sayyad Ameen Ahammad	Associate Professor	Master of Business Administration
63.	Dr. Zoheb Ali	Associate Professor	Master of Business Administration
64.	Mrs. Shama Hakeem	Assistant Professor	Master of Business Administration
65.	Mrs. Shafinaz Syed Ismail	Assistant Professor	Master of Business Administration
66.	Ms. Ankitha	Assistant Professor	Master of Business Administration




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67.	Mrs. Fathimath Nithinsha	Assistant Professor	Master of Business Administration
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STUDENTS DATA

Our institution proudly hosts a diverse and dynamic student body, with a total enrollment of 1,046 students. These students are distributed across 7 undergraduate (UG) programs and 1 postgraduate (PG) program. This vibrant academic community reflects our commitment to providing a broad range of educational opportunities and fostering an environment of academic excellence and growth.

SN	Name of the Program	4th year	3rd year	2nd year	1st year	Total
1	B. E. in Artificial Intelligence and Machine Learning	0	0	32	31	63
2	B. E. in Biotechnology	21	14	13	13	61
3	B. E. in Computer Science and Engineering	106	117	127	125	475
4	B. E. in Civil Engineering	38	22	14	3	77
5	B. E. in Electronic and Communication Engineering	21	18	48	53	140
6	B. E. in Electrical and Electronics Engineering	8	4	0	0	12
7	B. E. in Mechanical Engineering	35	26	30	18	109
8	Masters of Business Administration	0	0	49	60	109
Total number of students per year		229	201	313	303	1046

IQAC

- The IQAC of the institute has conducted 4 meetings in the academic year 2022-2023. These meetings were instrumental in discussing and planning various academic and administrative initiatives to enhance the functioning of our institution.



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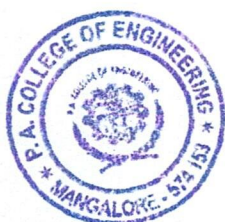
- The NBA visit of Biotechnology, as a measure of quality has been completed and the department is accredited by NBA for three years.
- The Employability Skill Programme (ESP) has been incorporated as a part of the curriculum to enhance the placement opportunities to the students.
- IQAC has initiated Centralized Internal Assessment Exams in the current academic year.
- In the academic year 2022-2023, the Internal Quality Assurance Cell (IQAC), in collaboration with recognized agencies, conducted three audits: a Green Audit, an Environmental Audit, and an Energy Audit.

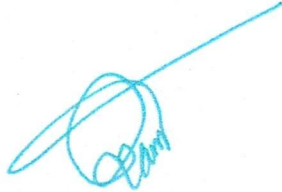
CONCLUSION

The academic year 2022-2023 marked a period of significant progress and development for our institution. With 45 teaching staff members participating in various Faculty Development Programs and 22 non-teaching staff engaged in administrative training, we have reinforced our commitment to professional growth and excellence. The DHI ERP system, implemented in 2018, continues to streamline our administrative and academic processes, enhancing operational efficiency and the educational experience.

Our institution proudly hosts 1,046 students across six undergraduate and one postgraduate programs, reflecting our dedication to diverse educational opportunities. The Department of Biotechnology achieved NBA accreditation, underscoring our commitment to maintaining high educational standards and quality assurance. Strategic meetings throughout the year have been pivotal in addressing key initiatives and ensuring continuous improvement.

As we move forward, we remain dedicated to maintaining academic excellence, fostering professional development, and enhancing our institutional operations for the benefit of our students and staff.




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