



Army Institute of Technology
Dighi, Pune 411015



R&D YEARLY REPORT

2023-24

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R&D ACTIVITIES: 2023-24

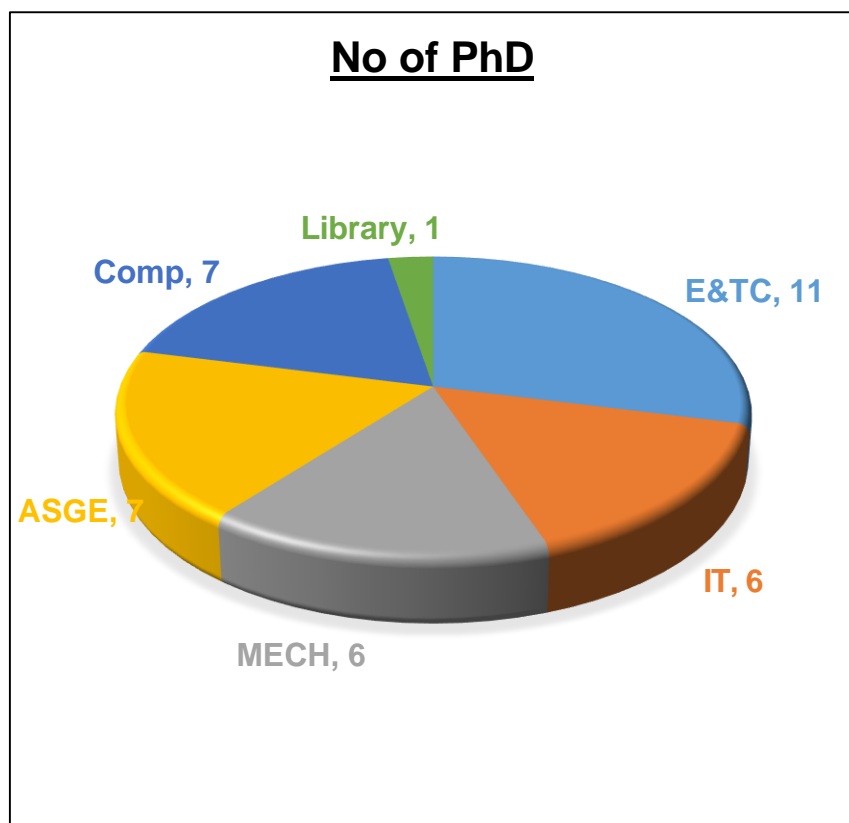
1. PhD Completed Till 30 Jun 2024.

(a)	E&TC	:	11
(b)	IT	:	06
(c)	Computer	:	07
(d)	Mechanical	:	06
(e)	ASGE	:	07
(f)	Library	:	<u>01</u>
	Total	:	<u>38</u>

2. Detail of PhD Completed Faculty Till 30 Jun 2024.

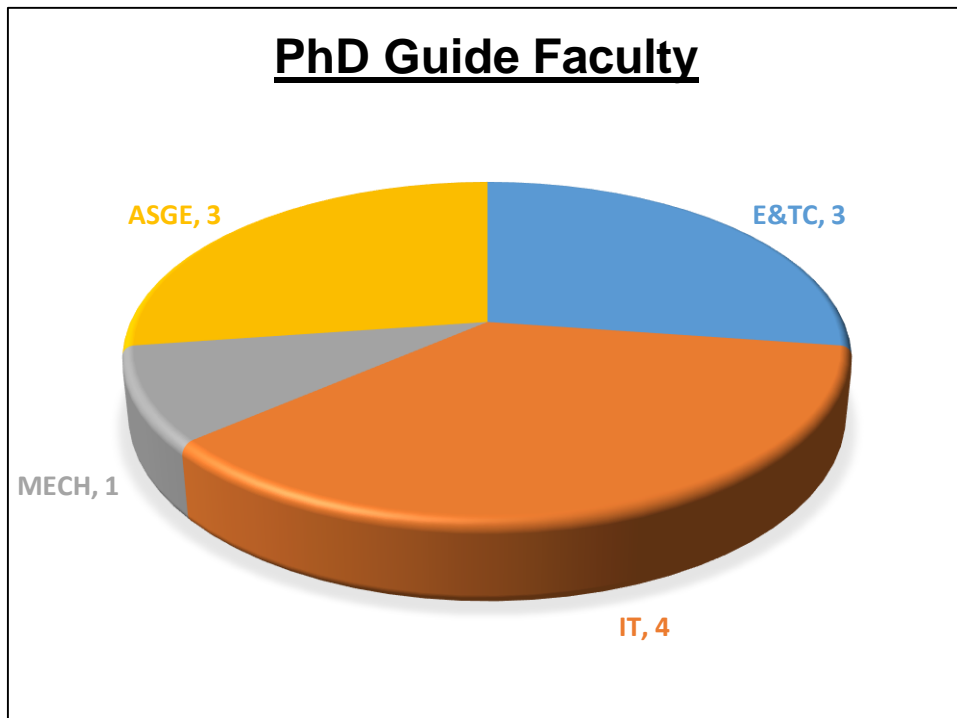
Ser No	Faculty	Date of Completion	Department
(a)	Dr P B Karandikar	16 Feb 2013	E&TC
(b)	Dr G R Patil	26 Sep 2015	
(c)	Dr Surekha K S	21 May 2018	
(d)	Dr Renuka Bhandari	14 Sep 2019	
(e)	Dr Shraddha Oza	14 Nov 2019	
(f)	Dr Rajashree Suryavanshi	19 Apr 2021	
(g)	Dr Sushma Patil	01 Jul 2021	
(h)	Dr Avinash Patil	01 Feb 2022	
(j)	Dr Sandeep Bidwai	18 Nov 2022	
(k)	Dr Preeti Warriar	06 Apr 2023	
(l)	Dr Shilpa Pawar	12 Dec 2023	
(m)	Dr Sangeeta Jadhav	07 Mar 2012	
(n)	Dr Rahul Desai	26 Dec 2017	
(o)	Dr Ashwini Sapkal	07 Jun 2019	
(p)	Dr Gajanan Walunjkar	30 Dec 2022	
(q)	Dr Deepika Birari	27 Feb 2023	
(r)	Dr Rupali Bagate	16 Oct 2023	
(s)	Dr Jayadevan R	23 May 2013	
(t)	Dr S R Dhore	14 Apr 2017	COMP
(u)	Dr N K Bansode	18 Jan 2018	
(v)	Dr Sagar Rane	29 Mar 2022	

Ser No	Faculty	Date of Completion	Department
(w)	Dr Nikita Singhal	21 Jul 2023	COMP
(x)	Dr Sharayu Lokhande	09 Jan 2024	
(y)	Dr Vaishali Ganganwar	21 Mar 2024	
(z)	Dr UV Awasarmol	01 Sep 2016	MECH
(aa)	Dr Pritee Purohit	07 Jul 2017	
(ab)	Dr JD Patil	31 May 2018	
(ac)	Dr RB Gurav	26 May 2022	
(ad)	Dr Laxmikant Jathar	18 Jul 2022	
(ae)	Dr SM Gaikwad	13 Oct 2023	
(af)	Dr Seema Tiwari	14 Jul 2005	ASGE
(ag)	Dr Swati Kulkarni	14 Sep 2015	
(ah)	Dr Sonali Bhosle	24 May 2017	
(ai)	Dr Ketankumar Ganure	20 Mar 2018	
(aj)	Dr Ganesh Mundhe	30 Mar 2019	
(ak)	Dr AK Singh	31 Jul 2020	
(al)	Dr Amruta Shinde	22 Aug 2022	
(am)	Dr Urmila Jagtap	25 Aug 2020	Library

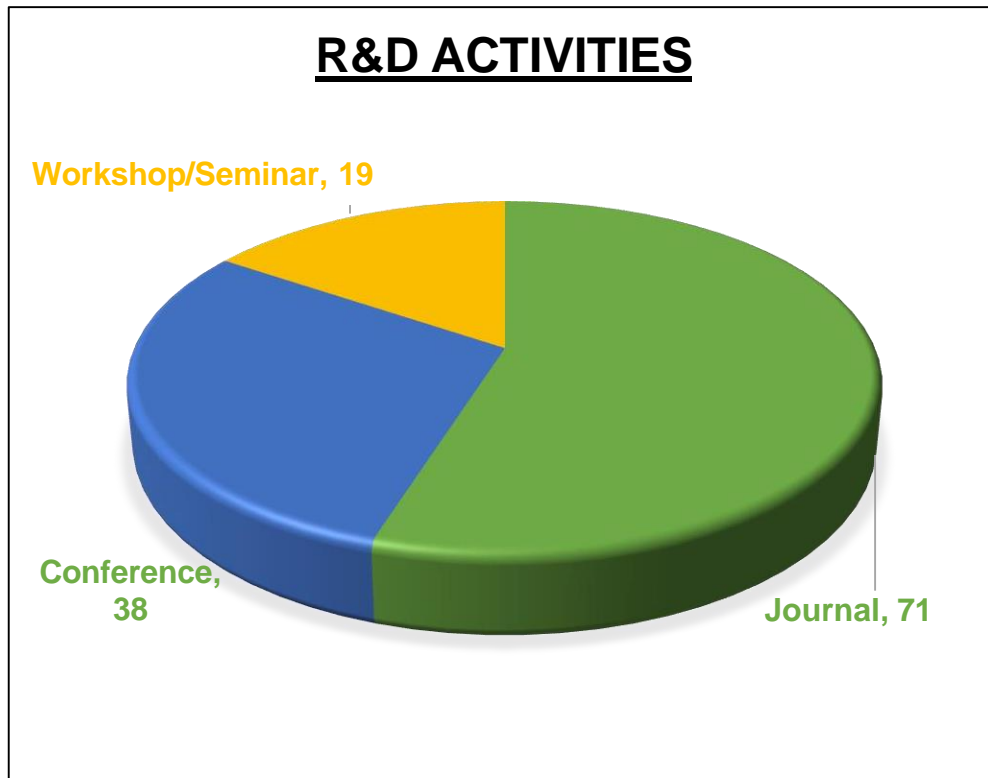


3. **SPPU Approved PhD Guide Faculty.**

Ser No	Faculty	Department
(a)	Dr BP Patil	E&TC
(b)	Dr PB Karandikar	E&TC
(c)	Dr Rajashree Suryavanshi	E&TC
(d)	Dr Swati Kulkarni	ASGE
(e)	Dr Seema Tiwari	ASGE
(f)	Dr Ganesh Mundhe	ASGE
(g)	Dr Pritee Purohit	Mech
(h)	Dr Sangeeta Jadhav	IT
(j)	Dr Rahul Desai	IT
(k)	Dr Ashwini Sapkal	IT
(l)	Dr Gajanan Walunjkar	IT

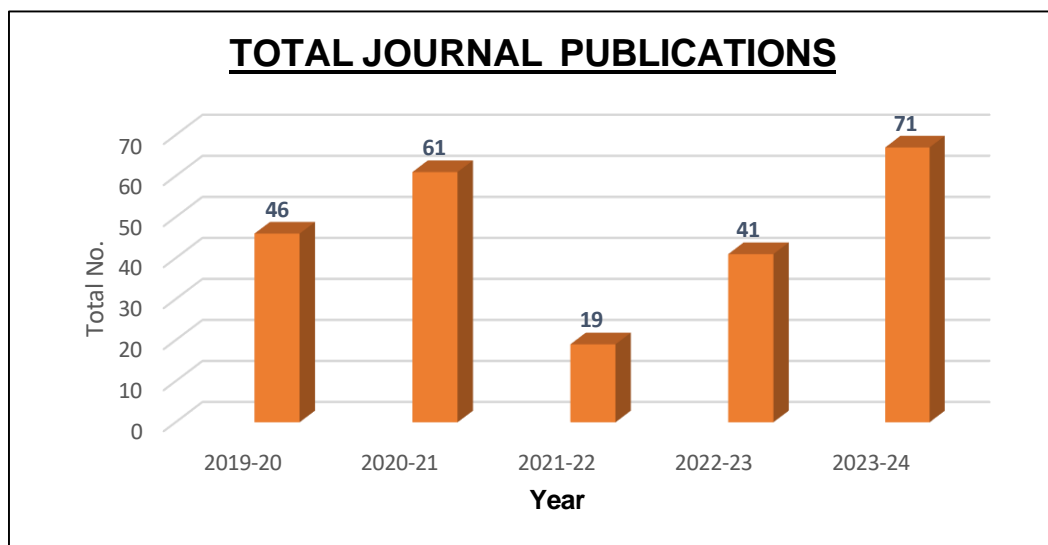
4. **R&D Activities Summary (2023-24).**

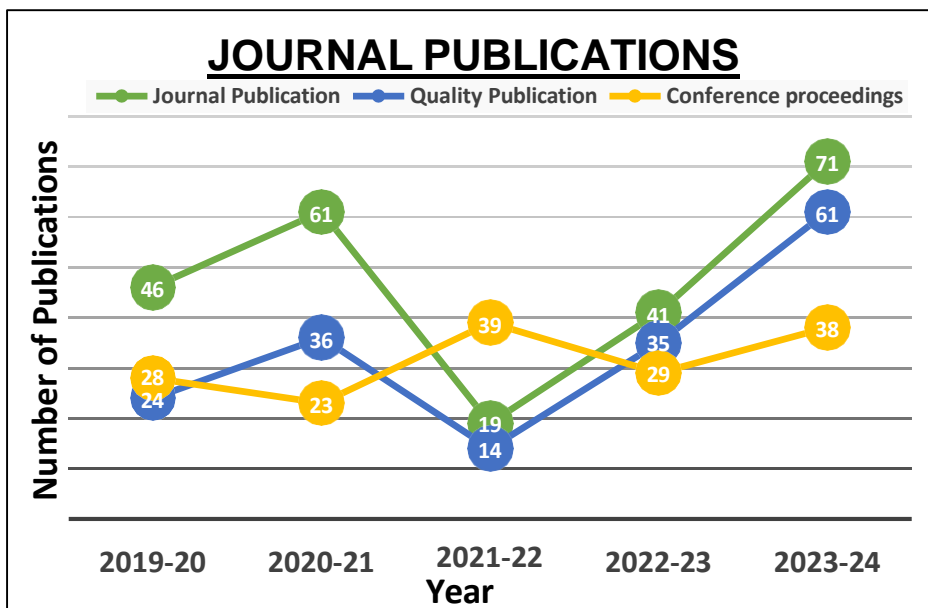
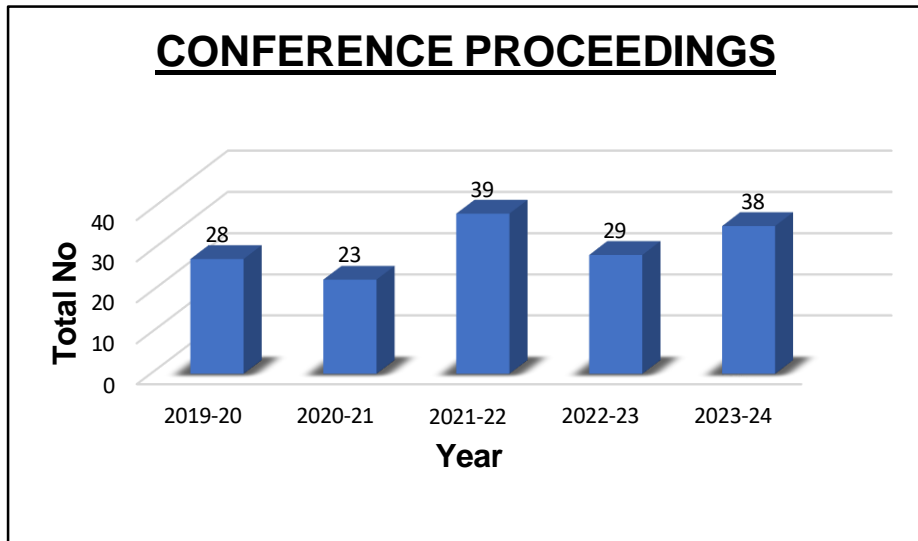
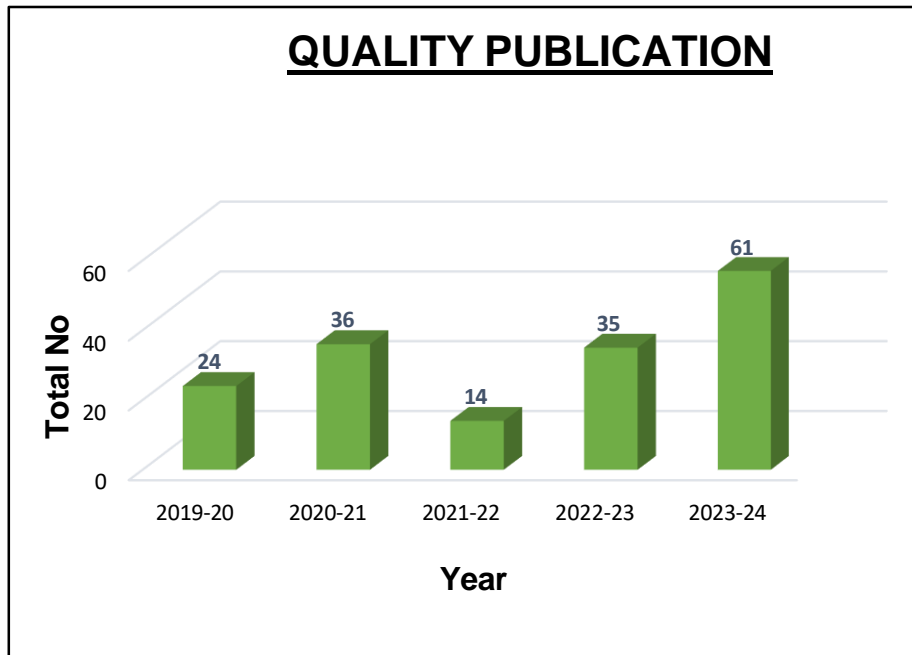
Ser No	Description	Count	Attachment
(a)	Journal	71	Appendix `A`
(b)	Conference	38	Appendix `B`
(c)	Workshop/Seminar	19	Appendix `C`



5. **Analysis of Journal Publication (Last Five Years).**

Ser No	Year	2019-20	2020-21	2021-22	2022-23	2023-24
(a)	Journal Publication	46	61	19	41	71
(b)	Quality Publication	24	36	14	35	61
(c)	Conference proceedings	28	23	39	29	38





Analysis:- Publications in the indexed journals such as SCI, SCIE, ESCI, Scopus etc. are considered as quality publications. The Journal publication graphs have shown a steady increase up to the year 2020-21. Though there is a decline in publications for the year 2021-22 due to pandemic situation. During pandemic in 2021-22 conference proceeding publication has been increased. Journal publication has shown a significant increase during the current year i.e 2023-24. The conference proceedings have also shown a slight increase for the year 2023-24.

Measures proposed for further improvement:-

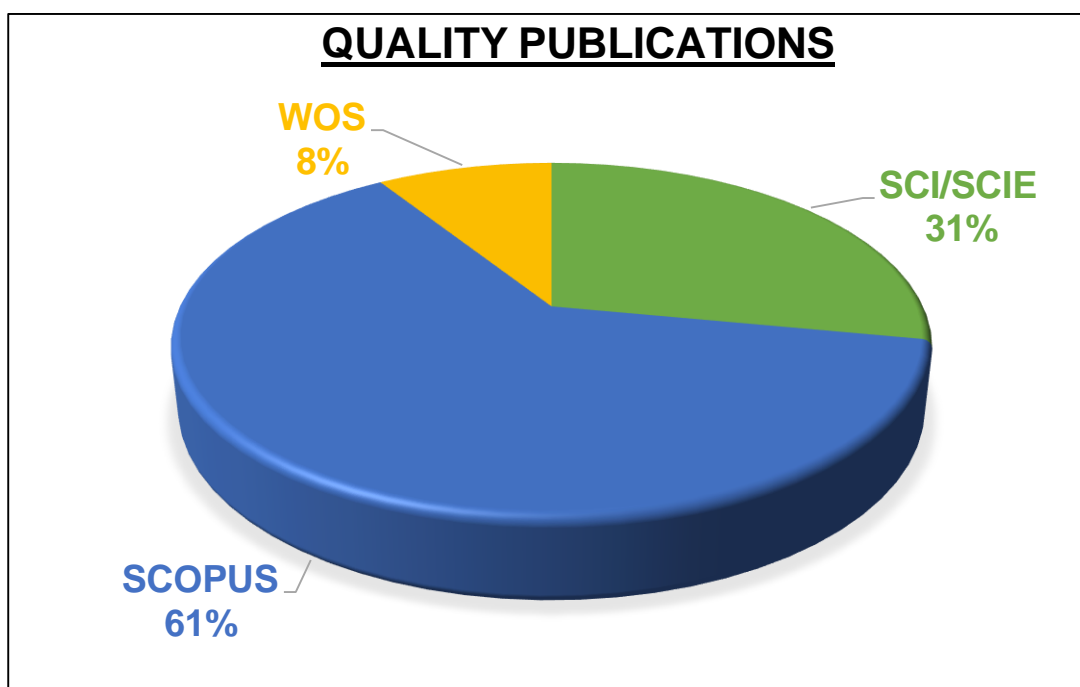
- (a) Incentives for publication as per new R&D Policy dated 18 Jul 2024.
<https://www.aitpune.com/rules/research/Incentivepolicy.pdf>

- (b) Best Research & Consultancy award instituted to motivate the faculty since 2016 (revised in 2021).
<https://www.aitpune.com/rules/CRITERIA%20FOR%20BEST%20RESEARCH%20CONSULTANCY%20AWARD.pdf>

- (c) Strict quality-based ACR for consideration of promotion.
 - (i) Detailed list of publications at **Appendix `A`**.
 - (ii) Detailed list of conference proceedings at **Appendix `B`**.

6. **Analysis of Journal Publications for AY 2023-24.****Quality Publications**

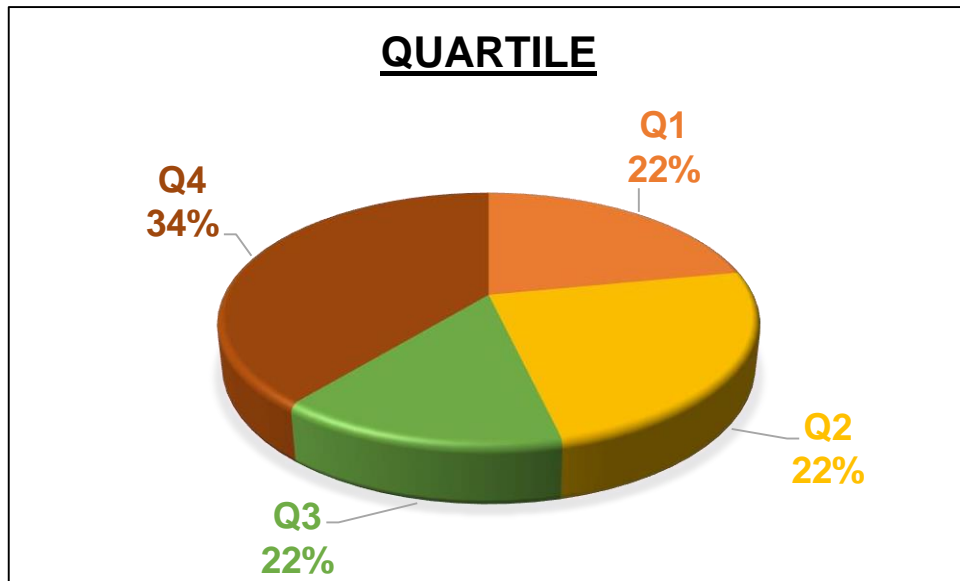
Ser No	Type	SCI/SCIE	SCOPUS	Web Of Science	Total
(a)	Number	19	37	05	61
(b)	Percentage	31	61	8	100



Analysis:- There is a significant increase in quality publications in AY 2023-24. Out of 71 publications 61 (i.e. 86 %) are quality publications.

DETAIL OF QUARTILE PUBLICATIONS

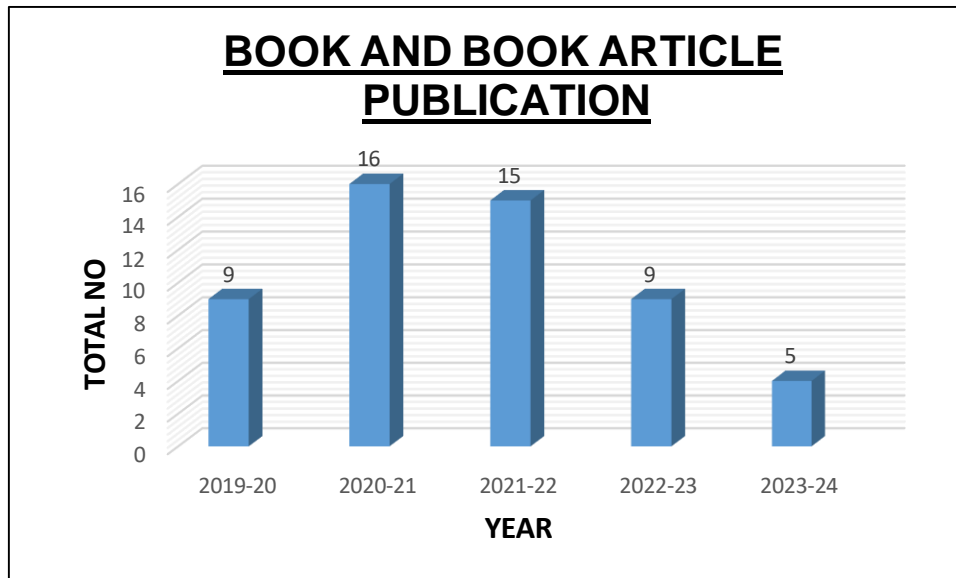
Quartile	Q1	Q2	Q3	Q4	Total
Number	10	10	10	16	46
Percentage	22	22	22	34	100



Analysis:- Out of 71 publications 46 publications are in quartile journals. 66% publications are in Q1, Q2 and Q3 category. 34% papers are published in Q4 category.

7. **Analysis of Book and Book Article.**

Year	2019-20	2020-21	2021-22	2022-23	2023-24
Book & Book Article	09	16	15	09	05



Analysis:- The Book/Book article published has shown steep decline during the academic year 2023-24 is due to the fact that more weightage is given to Journal publications and Conference proceedings.

BOOK ARTICLE

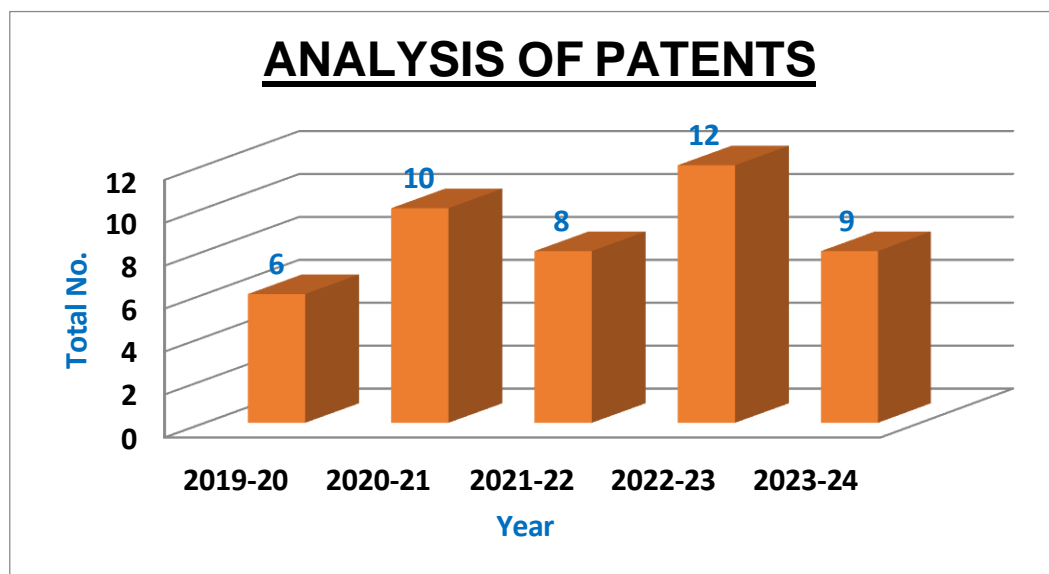
1. Vaishali Ganganwar - Using Website Content for Detecting Phishing URLs: A Novel Approach - In Advances in Data-Driven Computing and Intelligent Systems - ADCIS 2023, Lecture Notes in Networks and Systems - vol 893 - Springer Publisher - Singapore - Jul 2024
2. Singhal, N Pandey, A.K., Kumar, A. (2024). Aero Detect: Real-Time Small Object Detection in Aerial Images. In: Das, S. Saha, S. Coello Coello, C.A. Bansal, J.C. (eds) Advances in Data-Driven Computing and Intelligent Systems. ADCIS 2023. Lecture Notes in Networks and Systems, vol 891. Springer, Singapore

BOOK PUBLISHED

1. Kuldeep Hule - Human Resource Management in the Recent Era: The Role of Artificial Intelligence (AI) - 972-93-91387-55-6 -Association of global Academician & Researchers (AGAR) Publication - Oct 2023.
2. Dr GM Walunjkar - Machine Learning – 9788119117857 - ISSN / ISBN – Aug 2023.
3. Dr GM Walunjkar - Industrial Internet of Things – 9788119117826 - ISSN/ ISBN – Aug 2023

8. Analysis of Patent Filed/ Published.

Year	2019-20	2020-21	2021-22	2022-23	2023-24
Patent Filed/ Published	06	10	08	12	09



Analysis: The Patent published by the faculty has shown a decline during the year 2023-24 as there is a remarkable increment in research papers.

Measures Proposed for Further Improvement :

- (a) IPR policy is introduced since 2021 which supports 100% patent funding under two categories.

<https://www.aitpune.com/rules/SOP%20-20IPR%20Policy%2015%20Feb.pdf>

- (b) Best Research & Consultancy award instituted to motivate the faculty.
- (c) New R&D policy dated 18 Jul 2024 has been introduced where faculty will get incentives for granted patents.

PATENT (FACULTY/ INSTITUTION)

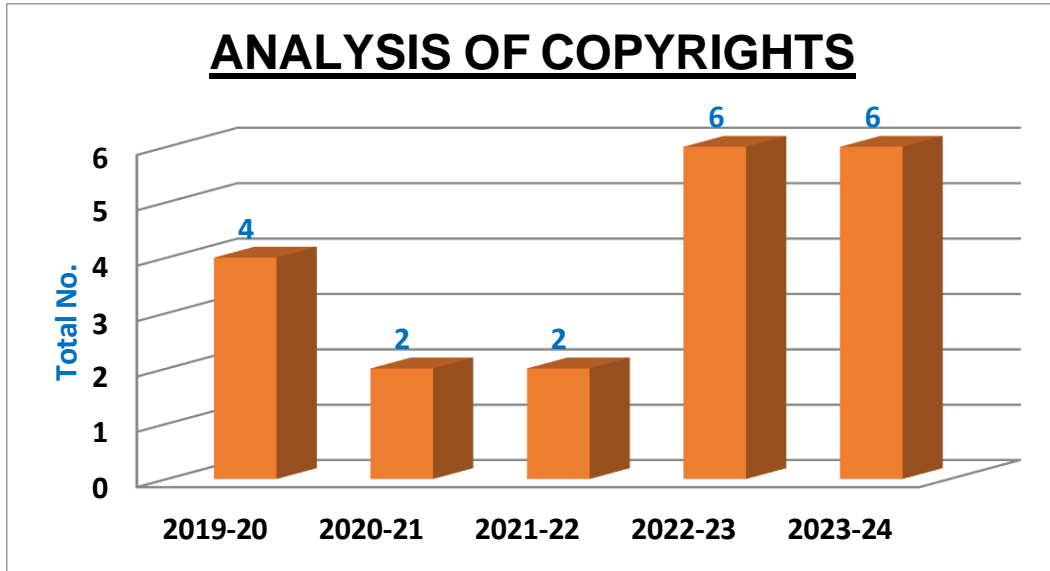
Patent Filed/ Published (National).

- Mahima Jain, Rabi Chandra Mandal (Ext), Rajni Singh (Ext), Dr Vidyottma (Ext), Sahi Arora (Ext), Dr K D V Prasad (Ext) – An artificial intelligence based system for emotional recognition – Published on 08 Mar 2024.
- Prof. Kuldeep, Anil Hule, Prof Rekha Ranawat - Detection And Correction of An Object Relational Mapping Problems Trough Code Automation – Published on 21 Jun 2024.

3. Prof. Kuldeep Anil Hule, Prof. Asha P Sathe, Prof. Sharayu A Lokhande, Prof. Mahesh Lonare , Prof. Yogita Tapesesh Hambir, Prof. Pralhad Sonwane, Anantha Murthy - Dynamic Pricing Optimization Algorithm for E-Commerce Platforms - Published on 06 Oct 2023.
4. Dr Deepika Birari - Design and Progress of Reversible Data Hiding For Improved Security In Data Transmissions – Published On 29 Sep 2023.
5. Dr Rupali Bagate - An IOT based Cervical Cancer Screening Device - Published on 23 Feb 2024.
6. Dr Dipika Birari, Prof. Anjali Hudedamani, Machine Learning Embedded Heart Health Monitoring Device, 2024, 411867-001. (Design Patent).
7. Rashel Sarkar, Prof. Pradnya Tapkir , Prof. Trupti B. Katte , Poonam P. Rayakar , Dr Gitanjali, Dr G.Malathi, Kuldeep Anil Hule. "AI and image processing-based seedling planting machine". 2024,411546-001. (Design Patent)
8. Atharva Kulkarni, Runal Mahabale, Rahul Patil, Vedant Mhatre, Keval Nikam, Nitin Motgi, Chetan Pawar, Ganesh Jadhav, Laxmikant Jathar, Solar panel cleaning system, April 2024, 407183-001. (Design Patent)
9. Supriya Kalamkar, Dr Garishankar Verma (Ext), Dr S. Degadwala (Ext), Deepika Saxena (Ext)- Intelligent Early Forecasting of Air Quality and Pollution Prediction using Machine and Deep Learning Algorithms with an Advanced Alert System- 15 Dec 2023

9. Analysis of Copyrights

Year	2019-20	2020-21	2021-22	2022-23	2023-24
Copyright	04	02	02	06	06



Analysis: T Copyright published by the faculty has been maintained during the year 2023-24.

Measures Proposed for Improvement:

- (a) IPR policy is introduced which supports funding for registered copyrights.
- (b) Best Research & Consultancy award instituted to motivate the faculty.

COPYRIGHT PUBLISHED

1. Mr Ashish Dudhale, Dr Priya Pise, Dr Neelesh Uke, Mr Sachin Kamble, Dr Shashikant Patil-Smart Contract Automation in IoT – Copyright published on 03 Nov 2023.
2. Mrs Mahima Jain - FIR filtered design using Window Method and particle swarm optimization - Copyright filed on 21 Dec 2023.
3. Prof. Pradnya Tapkir, Prof. Trupti B. Katte, Prof. Poonamp. Rayakar, Prof. Kuldeep Anil Hule Dr Rashel Sarkar, , Dr Gitanjali, Dr G. Malathi – Copyright published on 30 May 2024.
4. Dr Sangeeta Jadhav - Real Time Emotion Prediction Portable Device - Copyright published on 28 Jun 2023.

5. Dr Dipika Birari, Prof. Anjali Hudedamani - Machine Learning Embedded Heart Health Monitoring Device - Copyright published on 03 May 2024.
6. Mrs Sita Yadav, Dr Sagar Rane- Grow With AI - An App For Farmers- Copyright published on 08 Nov 2023.

10. Analysis of Funded Projects.

Year	2019-20	2020-21	2021-22	2022-23	2023-24
Amount received (Rs)	7.4 Lakh	00	2.36 Cr	2.86 Cr	2.23 Cr

Analysis.

- (a) The funding received from NSCS (The National Security Council Secretariat) for the year 2021-24 is Rs. 7.4578 Cr has supported the consultancy activities.
- (b) The amount received in the year 2021-24 (Rs. 7.4578 Cr) is considerable.

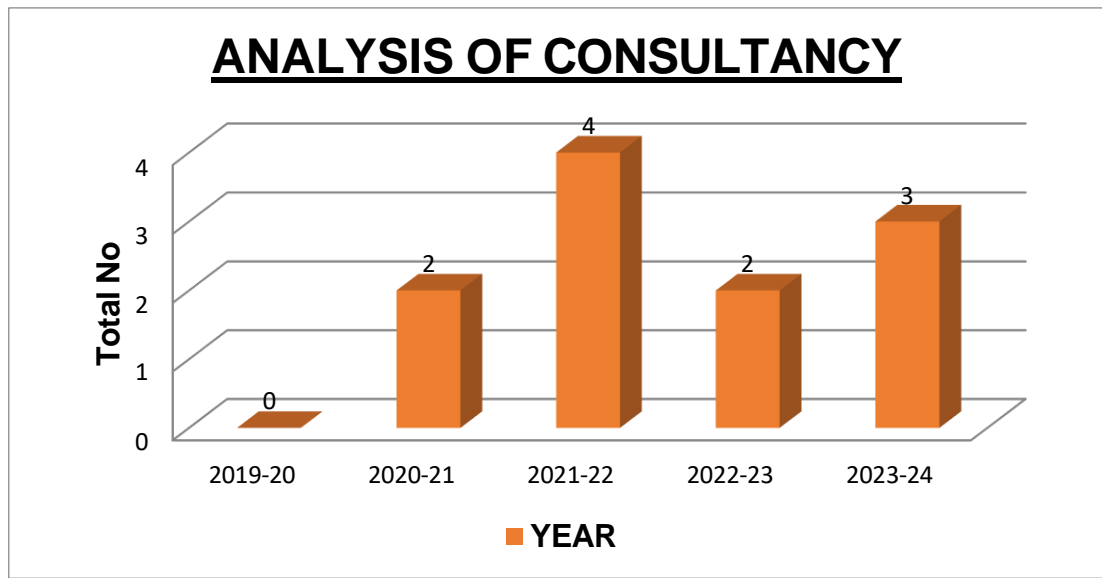
Measures proposed for improvement.

- (a) To motivate faculty to apply for National level funding such as DST, AICTE, ISRO, DRDO etc.
- (b) To motivate faculty to apply for funding which is beneficial to enhance Research activities.

Funding Received 2021-24. Received a grant of Rs. 7.4578 crores from NSCS (The National Security Council Secretariat) by the Computer Engineering department towards the development of project titled "System for secure Fine Grained Access Control and Authorization of Digital Assets and Operations" to be implemented by AIT & M/s 42 Labs for a duration of 3 year.

11. **Analysis of Consultancy.**

Year	2019-20	2020-21	2021-22	2022-23	2023-24
Funded Projects/ activities	00	02	04	02	03



Analysis: There is a marginal increase in the consultancy activity due to funding by the National Security Council Secretariat (NSCS).

- (a) Mech Dept consultancy: Under two activities.
- (b) Comp Dept consultancy: Under one NSCS project.

TABLE A : DETAILS OF MECHANICAL DEPT CONSULTANCY FOR AY 2023-24

Ser No	Name of Faculty	Consultancy details	Amount (Rs)
1.	Dr SM Gaikwad Dr Pritee Purohit Dr RB Gurav	Project Base CFD Training	45,000/-
2.	Dr SM Gaikwad	HT Lab Testing	4,000/-
3.	MB Phatangare	Wear Testing	1,200/-
4.		Wear Testing	4,800/-
5.		Wear Testing	12,000/-
6.		Wear Testing	10,400/-
7.		Wear Testing	6,400/-
8.		Wear Testing	7,200/-
9.		Wear Testing	6,400/-
10.		Wear Testing	8,000/-
11.		Wear Testing	10,000/-
Total			1,15,400/-

TABLE B: DETAILS OF COMPUTER DEPT CONSULTANCY FOR AY 2023-24

Ser No	Month	Amount (Rs)
1.	July 2023	4,25,875/-
2.	Aug 2023	4,25,875/-
3.	Sept 2023	4,25,875/-
4.	Oct 2023	3,11,716/-
5.	Nov 2023	3,11,716/-
6.	Dec 2023	3,11,716/-
7.	Jan 2024	3,11,716/-
8.	Feb 2024	3,11,716/-
9.	Mar 2024	3,11,716/-
Total		31,47,921

Total Consultancy Amount for AY 2023-24 = Rs. 32,63,321/-

12. **Analysis of Goals and Target of R&D for AY 2023-24.**

Ser No	Particular	Planned (Number/ Percentage/ amount)	Achieved (Percentage)
(a)	No of PhD faculty	50% of total Faculty (50% of 91)	84% (38/45=84%)
(b)	No of PhD Guide	50% of total No of PhD faculty (50% of 45=23)	48% (11/23=48%)
(c)	No of publication by faculty	01 each faculty (91)	78% (71/91=78%)
(d)	No of quality publication by faculty (SCOPUS/ Web of Science/ SCI only)	100 %	86% (61/71=86%)
(e)	No of patents - filed/ published/ granted	04/Dept (4x5=20)	45 % (9)
(f)	Amount of sponsored research projects	20 Lac/Dept (1Cr)	223% (2.23 Cr)
(g)	Consultancy (amount)	5 Lac/dept (5x5=25 L)	131% (32.63L)

PUBLICATION – JOURNALS

1. Dipika R. Birari - A Comparative Analysis of Machine Learning Models for Soil Health Prediction and Crop Selection International Journal of Intelligent systems and applications in engineering- Scopus indexed- Aug 2023.
2. Dipika Birari, Gajanan Walunjkar, Aarti Dandavate, Sonali Mallinath Antad, Sheetal Phatangare Integrated Approach for Emotion Detection via Speech and Text Analysis, International Journal on Recent and Innovation Trends in Computing and Communication- Sep 2023.
3. Gajanan Walunjkar, Dipika Birari, Rahul Desai, Yuvraj Gholap- Energy Efficient Routing in Group and Disaster Mobility: Comparative Analysis, International Journal of Intelligent Systems and Applications in Engineering-Scopus & WoS- Nov 2023.
4. Dr Uddhav T. Kumbhar (External), Dr G Shaber Ali (External), Dr Ajinkya Bahulekar (External), D.B. Bhojar (External), Dr Dhairyashil Patil (External), Dipika R. Birari-Assessing the Impact of Health Policy Reforms on Vulnerable Populations: A Social Science Perspective, South eastern European Journal of Public Health- Scopus (Q4) SJR- Dec 2023.
5. Dipika R. Birari, Kalyan Devappa Bamane (External), Pratik Bibhishan Kamble (External), Tanaji Anandrao Dhaigude (External), Ravindra B.Shendge (External), Aarti Dandavate (External)- Towards a Holistic Approach to Chronic Disease Management: Integrating Federated Learning and IoT for Personalized health Care, Journal of Electrical Systems- Scopus (Q3) SJR& ESCI-Jan 2024.
6. Aparna Joshi, Rupali Bagate, Yogita Hambir, Ashwini Sapkal, Nilesh P. Sable (External), Mahesh Lonare -System for Detection of Specific Learning Disabilities Based on Assessment, International Journal of Intelligent systems and applications in engineering- Scopus indexed-Jan 2024.
7. Savita Jadhav, Dr Sangeeta Jadhav-DIRED: Dual Indicator Random Early Detection for Congestion Control in WSN, International Journal of Communication System- Scopus Indexed-May 2024.
8. Aparna Joshi P. Namratha, T Venkata Naga Jayudu, Ashwini Sapkal, Rupali Amit Bagate, Gajanan Walunjkar-Deep Learning Based Traffic Classification with Feature Selection Mechanism and Explainable Artificial Intelligence (Xai), International Journal of Intelligent Systems and Applications in Engineering- Scopus indexed- May 2024.
9. Nikita Singhal, Rupali Bagate Devansh Bhadauria Shivanshu Singh Vidushi Singh Yoges - Masked Statement Classification in Conversational Text, Journal of Electrical Systems - Scopus Indexed-May 2024.
10. Dr Nilesh Uke (Ext), Dr Priya Pise (Ext), Mr. Ashish Dudhale, Dr Akhilesh Kumar Mishra (Ext) - Social Media Security Techniques using Blockchain over cloud computing, European Chemical Bulletin 2023.

11. Dr Priya Pise (Ext), Mr. Ashish Dudhale, Dr Nilesh Uke (Ext), Dr Akhilesh Kumar Mishra (Ext)-Machine Learning and Visual Computing Observation System, Journal of Data Acquisition and Processing- Scopus indexed-Jul 2023.
12. Avinash P. Moholkar (Ext), Deepak S. Bankar (Ext), Dr Parashuram B. Karandikar- Avinash P. Moholkar (Ext), Deepak S. Bankar (Ext), Dr Parashuram B. Karandikar, Super capacitor based cost effective hybrid energy storage system with reduction in battery size for diesel generator cold cranking, Indonesian Journal of Electrical Engineering and Computer Science - Scopus indexed- Jul 2023.
13. Anup Vibhute (Ext), Pranita Bhosale, Nikita Maralbhavi (Ext), Shailesh Galande (Ext), Mokshada S. Bhandare (Ext) - Face Sketch to Image Generation using Generative Adversarial Network, International Journal on Recent and Innovation Trends in Computing and Communication- Scopus Indexed-Sep 2023.
14. Deepali Newaskar (Ext), Dr B P Patil Rechargeable Active Implantable Medical Devices (AIMDs), Rechargeable Active Implantable Medical Devices (AIMDs)- Scopus Indexed-Sep 2023.
15. Snehal A. Marathe, Dr B P Patil, Dr Shobha Ajeet Waghmode (Ext), Trupti Sakharam Zaware (Ext)-Analyses of Monometallic Nano Particle Coatings to Increase Solar Panel Efficiency, TuijinJishu/Journal of Propulsion Technology- Scopus indexed - Dec 2023.
16. Amar Barik, Saumyakanta Khatua, Abhishek Rana, Dr Gajanan R Patil- Data Logging and Analysis in an Unmanned Aerial Vehicle- Assisted Internet of Things Network, Journal of Engineering, Project, and Production Management- Scopus indexed-Jan 2024.
17. Nilesh J. Uke (Ext), Sharayu A. Lokhande, Preeti Kale (Ext), Dr Shilpa Devram Pawar, Aparna A. Junnarkar (Ext), Sulbha Yadav (Ext), Swapna Bhavsar (Ext), Hemant Mahajan (Ext)- Distributed privacy preservation for online social network using flexible clustering and whale optimization algorithm, Cluster Computing: The Journal of Networks, Software Tools and Applications -SCI indexed- Feb 2024.
18. Saylee S. Bidwai (Ext), Dr Sridhar Iyer (Ext), Dr Sandeep S. Bidwai- Area-Optimized, Credit-Based, Flow Control Buffered NoC Router, International Journal of Intelligent Systems and Applications in Engineering- Scopus indexed-Feb 2024.
19. S B Abrish Aaditya, Parashuram B Karandikar, Mahima Jain, Jaywant Suryawanshi (Ext), Aditi Bellam (Ext), Datta Chavan (Ext), Rajesh Holmukhe (Ext), Parag S. Chaudhari (Ext), Abhishek Gandhar (Ext) - Thermal profiling of ultracapacitor modules: A layered analysis, Journal of Information and Optimization Sciences -ESCI indexed-Mar 2024.
20. Nikita Chaudhary (Ext), Komal Gill, Mansi Pahuja (Ext), Seema Rani (Ext), Subhabrata Das (Ext), Manoj Kumar Choudhary (Ext), Shumile Ahmed Siddiqui (Ext), Daya Rani (Ext), Mohd Afshan (Ext), Rishita Ghosh (Ext), Sk Riyajuddin (Ext), Soumyaditya Mula (Ext), Kaushik Ghosh (Ext)- Silicon Distyryl-BODIPY Hybrid Phototype: Moving a Step Ahead From Organic Interface Layer to Type II Band Alignment, Journal of Alloys and Component-SCIE indexed-Mar 2024.

21. Dr Preeti Warriar, Pritesh Shah (Ext), Ravi Sekhar (Ext). -A Comparative performance evaluation of a complex-order PI controller for DC-DC converters, Results in Control and Optimization- Scopus indexed-Mar 2024.
22. Dr Renuka Bhandari, Ritu, Bellana Arvind-Aquaculture Supervision and control System Using IoT, International Journal of Computer Science & Mechatronics- 2024.
23. Ms. Dhanashri Patil, Dr Sangeeta Jadhav- On conditional connectivity of the Cartesian product of graphs -Road Network Extraction Using Multi-path Cascade Convolution Neural Network from Remote Sensing Images, Journal of the Indian Society of Remote Sensing- Scopus and SCIE Indexed-Mar 2024.
24. Pragati Rana, Sanjeev Chauhan (Ext), Dr B. P. Patil- Cyber Security Threats Detection in IoT Using Krill Based Deep Neural Network Stacked Auto Encoder, Wireless Personal Communications- SCIE indexed- Apr 2024.
25. Snehal A. Marathe, Dr B.P. Patil, Shobha Ajeet Waghmode (Ext), Trupti Sakharam Zaware (Ext)-Green TiO₂ Nano Particles to Boost the Performance of Green Solar Panels, International Journal of System of Systems Engineering- Scopus indexed-May 2024.
26. E. Silambarasan (Ext), Rajashree Suryawanshi, S. Reshma (Ext)- Enhanced cloud security: a novel intrusion detection system using ARSO algorithm and Bi-LSTM classifier, International Journal of Information Technology- Scopus indexed- May 2024.
27. Asha P Sathe, Dheeraj Bisht, Himanshu Pawar, Nisha Robin - A Comprehensive Study On Criminal Recognition in Law Enforcement, Journal For Basic Sciences- Scopus indexed- Jan 2024.
28. Sushama Shirke, Divya Pratap Singh, Raj Singh, Tushar Singh, Manish Kalyan-AI Based Mock Interviewer with Question, Answer & Feedback, SJIS- 2024.
29. Sushama Shirke, Manish Bishnoi, MohammadAshraf, Naveen Jahjhriya Rupender- Lipread: An Empirical Examination of Lip-Reading Patterns in Sentence Cmprehnsion, SIJS-P – 2024.
30. Kuldeep Hule, Rekha Ranawat-Analysis of Different ORM Tools for Data Access Object Tier Generation: A Brief Study, International Journal of Membrane - Scopus indexed- 2024.
31. Rushali Patil, Karthik C Kallur, Manish Yadav, Himanshu Gaupale Harmanpreet Singh-Content Indexing with Automatic Image Captioning using Contextual Information Fusion, SJIS-P-2024.
32. Kuldeep Hule, P R Sonawane, Asha Sathe, Sharayu Lokhande, Yogita Hambir, M B Lonare-Crop Diseases Identification Using Deep Learning in Application, Journal of Advanced Zoology – 2024.
33. Sita Yadav, Sandeep Chaware-Detection and Classification of Objects in Video Content Analysis Using Ensemble Convolutional Neural Network Model, World Scientific – 2024.

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WORKSHOP/ SEMINAR/ ACTIVITIES

1. Innovation & Entrepreneurship Session during Induction Program of FE on 23 Aug 2023.



2. Smart India Hackathon (SIH) conducted by OSS club from 21 Sep-25 Sep 2023.



3. Unnati 3.0 - "Thrive in Chaos, Lead the Game" by I&E Cell from 22 -24 Sep 2023.



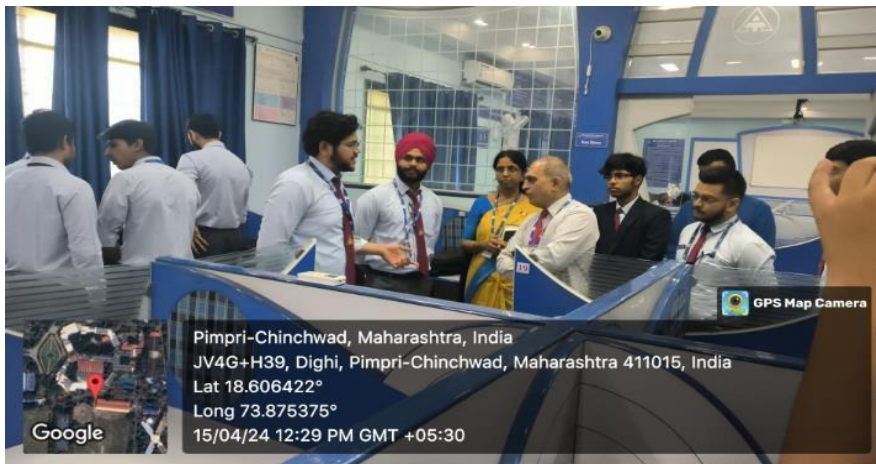
4. Two Days Seminar on “Innovation, Entrepreneurship & Career Building” from 29 Feb – 01 Mar 2024.



5. Startup Saga 3.0 – Next Niche Business Hackathon by I&E Cell from 13- 14 Apr 2024.



6. Project Competition Nexus 1.0 by I&E Cell on 15 Apr 2024.



7. Workshop on Intellectual Property Rights and IP management for startup by Mr Abhishek Shrivastava, Senior Consultant, Udchalo on 26 Apr 2024.



8. Student Visit to “Pimpri Chinchwad Startup Incubation Center” by I&E Cell on 05 Apr 2024.




9. Workshop on NEP-2020 conducted by E&TC Dept, during March 2024.
10. FDP conducted in Jun 2024 by Institute with the help of all the department.
11. MATLAB workshop in Mar 2024 by E&TC dept.
12. Guest lecture on “Internship Importance & Opportunities” on 18 Jan 2024 by Mr. Amol Aher. For TE IT students.
13. Workshop on “Data Analysis and Visualization using Python” from 18 -19 Jan 2024 by Mr. Aditya S Thakare for TE IT students.
14. Guest lecture on “Mathematical Foundation for Machine Learning” on 28 Mar 2024 by Mr. L N Pandey, Mr Prince and Mr P Kroshna for TE IT students.
15. ACM Student Chapter Inauguration on 15 Apr 2024 by Dr Sachin Lodha for IT Students in Manekshaw Hall.
16. Expert Session on “Virtual Reality” on 18 Apr 2024 by Dr Yogesh Deshpande, VIIT, Pune by SE IT students in BCJ Hall.
17. Guest Lecture on “Computer Networking and Cyber Security” on 18 Apr 2024, by Dr Sumedha Sirsikar for TE IT students in LH-01.
18. Guest Lecture on “Current Trends in Processor Architecture” on 19 Apr 2024 by Dr Sushma Patil for SE IT students.
19. Guest Lecture on Interfacing PIC-18 on 23 Apr 2024 by Dr Avinash Patil for SE IT students.


Report is prepared by following members of R&D Cell -

- **Students Secretary-** (a) Mr Ankit Singh Tomar, TE E&TC
(b) Ms Divya Kumari, TE IT
- **Faculty members-** (a) Dr Jaydevan, Associate Prof, Comp Dept
(b) Dr G Walunjkar, Associate Prof, IT Dept
(c) Dr Avinash Patil, Assistant Prof, E&TC Dept
(d) Dr LD Jathar, Assistant Prof, Mech Dept
(e) Dr Amruta Shinde, Assistant Prof, ASGE Dept
(f) Ms Komal Gill, Assistant Prof, E&TC Dept
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