



**Bharati Vidyapeeth's College of Engineering for Women, Dhankawadi,
Pune-411043**

IQAC/ /2022-23

Date: 2022-2023

**INFORMATION FOR ACADEMIC AND ADMINISTRATIVE AUDIT OF
THE DEPARTMENT**

Year – 2022-2023

(Provide information for last two years from 2022-23)

1. Name of the Department: Electronics and Telecommunication Engg.
2. Year of establishment: 2000
3. Courses offered: UG, PG, M. Phil., Ph.D., Integrated Masters

Year	UG	PG
2022-23	BE E&TC (120)	ME E&TC (VLSI & ES) (09)

4. Courses introduced during last 4 years: ME E&TC (VLSI&ES) introduced in 2013-14
5. Does the department have Academic flexibility? If yes since when?
As the department follows the curriculum designed and implemented by SPPU there is no academic flexibility, but the department offers some elective and audit courses for all levels such as SE, TE and BE.
6. Interdisciplinary programs offered and departments involved:
NIL
7. Courses conducted in collaboration with other universities and Institutions:
NIL
8. Details of programmes discontinued, if any, with reasons:
NIL
9. Examination System: Annual/ Semester/Choice Based Credit System/ Credit and Grading system/ any other system, specify:



Examination system is based on semester pattern for all courses. It follows CBCS pattern for SE, TE & BE E&TC 2019 Choice Based Credit System course.

10. Participation of the department in the curriculum development for courses offered by the Departments.

NIL

11. Does the department have different syllabus than the one used by university for UG and PG courses?

No.

12. Number of teaching posts sanctioned, filled and vacant.

Designation	Sanctioned	Filled	Filled under CAS
Professor	02	03	Nil
Associate Professor	04	04	Nil
Assistant Professor	12	19	Nil
Total	18	26	Nil

13. Faculty profile with name, qualification, designation, experience, nature of appointment (confirmed/ probation/temporary):

- a) Appointed on Government Sanctioned Post. -

Academic Year 2022-23

Name	Designation	Qualifications	Teaching/Research Experience (Yrs)	Nature of appointment
Prof. Dr. S. R. Patil	Professor & Head	PhD (EC & CSE).	18 years 5 months	Permanent
Prof. S. T. Khot	Professor	PhD (Pursuing)	20 years 2 months	Academic
Prof. Dr. S. S. Chorage	Professor	PhD (Electronics Engg.)	10 years 10 months	Permanent
Prof. Dr. V. R. Pawar	Associate Professor	PhD (Electronics Engg.)	20 years 9 months	Permanent
Prof. Dr. S. M. Rajbhoj	Associate Professor	PhD (Electronics Engg.)	19 years 5 months	Permanent



Mrs. S. A. Itkarkar	Associate Professor	PhD (Pursuing)	16 years 4 months	Permanent
Ms Dr.S. L. Kore	Associate Professor	PhD (Electronics Engg.)	19 years 10 months	Academic
Mrs.Dr. S. A. Dhole	Assistant Professor	PhD (Electronics Engg.)	19 years 10 months	Permanent
Mrs. S. M. Jagdale	Assistant Professor	PhD (Electronics Engg.)	19 years 5 months	Permanent
Mrs. K. R. Chaudhari	Assistant Professor	PhD (Pursuing)	16 years 9 months	Permanent
Mrs. S. S. Salunkhe	Assistant Professor	PhD (Electronics Engg.)	15 years 10 months	Permanent
Mr. S. M. Bhilegaonkar	Assistant Professor	PhD (Pursuing)	15 years 6 months	Permanent
Mr. M. S. Kasar	Assistant Professor	PhD (Pursuing)	14 years 9 months	Permanent
Mrs. P. R. Yawle	Assistant Professor	PhD (Pursuing)	14 years 9 months	Permanent
Mrs. V. S. Karambelkar	Assistant Professor	M. Tech (Electronics & VLSI)	14 years 5 months	Permanent
Mr. V. P. Mulik	Assistant Professor	PhD (Pursuing)	14 years 9 months	Permanent
Mrs. R. R. Jain	Assistant Professor	PhD (Pursuing)	14 years 9 months	Permanent
Ms. Y. R. Dhumal	Assistant Professor	PhD (Pursuing)	14 years 8 months	Permanent
Mrs. R. J. Sapkal	Assistant Professor	PhD (Pursuing)	13 years 10 months	Academic
Mrs. S. V. Shelke	Assistant Professor	PhD (Pursuing)	13 years 10 months	Permanent
Mr. A. B. Vitekar	Assistant Professor	PhD (Pursuing)	13 years 9 months	Permanent
Mrs. K. D. Mahajan	Assistant Professor	PhD (Pursuing)	13 years 9 months	Academic
Mrs. V. V. Gaikwad	Assistant Professor	PhD (Pursuing)	11 years 8 months	Permanent
Mr. R. M. Shamalik	Assistant Professor	PhD (Pursuing)	12 years 9 months	Academic
Mr. A. P. Yadav	Assistant Professor	PhD (Pursuing)	12 years 8 months	Academic
Ms. S.M.Patil	Assistant Professor	M. Tech (Electronics & VLSI)	7 years 9 months	Academic



b) Appointed from University Fund.-NIL

14. List of Visiting Fellows/Teachers, Adjunct and Emeritus Professors, (for last 4 years).

Sr. No.	Name of Visiting Fellows/Teachers, Adjunct and Emeritus Professors	Status	Subject	Academic Year
1	Prof. Sfurti Shahare	Visiting	Leadership & Personality Development	2017-18
2	Prof. Atul Dhaigude	Visiting	Cyber Security	2017-18
3	Prof. D. N. Ghayatadak	Visiting	Engg. Mathematics III	2017-18
4	Prof. Swati Hathi	Visiting	Japanese Language	2018-19
5	Prof. Anushka Kajbaje	Visiting	Green Energy	2018-19
6	Prof. Maharudra Gitte	Visiting	Cyber Security	2018-19
7	Prof. S. K. Bhaua	Visiting	Leadership & Personality Development	2018-19
8	Prof. Jayashree Bhujbal	Visiting	Japanese Language	2018-19



9	Prof. Trupti Bidwe	Visiting	Engg. Mathematics III	2018-19
12	Prof. Jayashree Bhujbal	Visiting	Japanese Language	2020-21
13	Prof. Sfurti Shahare	Visiting	Audit Course-III	2020-21
14	Dr. Sunita Dhotre	Visiting	Audit Course	2021-22
15	Prof. Sfurti Shahare	Visiting	Audit Course	2021-22
16	Prof. Ashwini Navghane	Visiting	Control System	2022-23

15. Percentage of classes taken by temporary/visiting faculty (programme- wise information):

Sr. No.	Academic Year	Percentage of Lectures Delivered	Percentage of Practical's handled
1	2022-23	8	4
			NIL

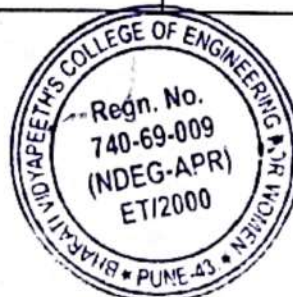
16. Programme-wise Student Teacher Ratio: (Average of 2 Years)

Year	No of Students enrolled	No of Full Time Teacher	Teacher Students Ratio
2022-23	471	25	1:19

Average of 2 Years: 1:17

17. Number of academic support staff (technical) and administrative staff sanctioned, filled and vacant:

Sr. No.	Posts	Sanctioned posts	Filled	Actual
1	Laboratory Assistant	--	03	03
2	Clerk (office)	--	01	01



3	Laboratory Attendant	--	00	00
4	Peon	--	02	02
5	Other	--	01	01

18. Thrust areas of research as identified by the department:

- Wireless Sensor Networks
- Embedded Systems
- Artificial Intelligence and Machine Learning
- Optical Communication and advanced optical networks
- Microwave engineering and antennas
- VLSI

- Pattern Recognition
- Digital Image Processing and Computer Vision
- Power Electronics

19. Information about research grants, projects completed and ongoing during the period of last 4 years

a) From National funding agencies (like UGC, CSIR, DST, DBT etc):

Sr. No.	Name of the Principle Investigator (CO-investigator)	Title of the Project	Funding Agency, Duration & date of sanction	Amount (in Lakh)	Remarks if any
			Nil		

b) From International funding agencies:

Sr. No.	Name of the Principle Investigator (CO-investigator)	Title of the Project	Funding Agency, Duration & date of sanction	Amount (in Lacs)	Remarks if any
			NIL		

20. Funds received at Departmental level through DST-FIST; CSIR, UGC-SAP/CAS, DAE, DBT, BRNS, ICSSR, AICTE, etc



Scheme and Funding Agency	Non- Recurring	Recurring	Project Fellow	Total
NIL				

21. Research facilities available in the department and recognition received, if any?

Department has following facilities for carrying out research at UG and PG level

- Vector Network Analyzer (500KHz to 4 GHz)
- PCB lab
- PIC controller Kits
- LabView Software
- VLSI SPARTAN-6 Kits
- Virtex-2
- Mentor Graphics Backend Tool
- NI Myrio Kit
- DSP Processor TMS 320/420 6713 Kits
- Matlab software
- Microwave Test Benches
- Xilinx software
- OTDR

- Hydraulic and Pneumatic Systems

22. Special research laboratories sponsored by / created by industry or corporate bodies.

Sr. No.	Name of the Principle Investigator (C0-investigator)	Title of the Project	Funding Agency, Duration & date of sanction	Amount (in Lakh)	Remarks if any
1	Principle Investigator – Prof. Dr. S. R. Patil C0-investigator – Prof. S. M. Bhilegaonkar	Upgradation of Communication Lab using higher end Vector Network Analyser for research activities."	AICTE MODROB 2 –Years 08/03/2022	973500	

23. Publications: Academic Year 2022-23

Sr. No.	papers published in Peer Reviewed Journals	Name of the Faculty	Citations	h-Index	Impact factor range/Average Impact Factor
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1	2	Prof. Dr. S. R. Patil	79	5	-
2	2	Prof. S. T. Khot	104	4	-
3	3	Prof. Dr. S. S. Chorage	102	6	-
4	5	Prof. Dr. V. R. Pawar	413	8	-
5	2	Prof. Dr. S. M. Rajbhoj	145	8	-
6	7	Mrs. S. A. Jankar	15	2	-
7	7	Ms Dr. S. L. Kore	40	4	-
8	3	Mrs. Dr. S. A. Dhole	76	6	-
9	2	Mrs. Dr. S. M. Jagdale	176	6	-
10	1	Mrs. K. R. Chaudhari	4	1	-
11	3	Mrs. Dr. S. S. Salunkhe	2	1	-
12	0	Mr. S. M. Bhilegaonkar	16	2	-
13	6	Mr. M. S. Kasar	29	2	-
14	4	Mrs. P. R. Yawle	2	1	-
15	0	Mrs. V. S. Karambelkar	5	2	-
16	4	Mr. V. P. Malik	7	2	-
17	5	Mrs. R. R. Jain		1	-



18	1	Ms. Y. R. Dhumal	56	2	-
19	4	Mrs. R. J. Sapkal	57	4	-
20	4	Mrs. S. V. Shelke	0	0	-
21	3	Mr. A. B. Vitekar	15	2	-
22	5	Mrs. K. D. Mahajan	151	4	-
23	0	Mrs. V. V. Gaikwad	4	1	-
24	2	Mr. R. M. Shamalik	42	4	-
25	2	Mr. A. P. Yadav	10	1	-
26	9	Ms. S.M.Patil	2	1	-

24. Details of patents filed & granted, and income generated:

S No	Patent Application No.	Status of Patent (Published / Granted)	Inventor/s Name	Title of the Patent	Patent Filed Date (DD/MM/YYYY)	Patent Published Date / Granted Date (DD/	Patent Publication Number / Patent Granted Number	Assignee/s Name (Institute Affiliation/s at time of application)
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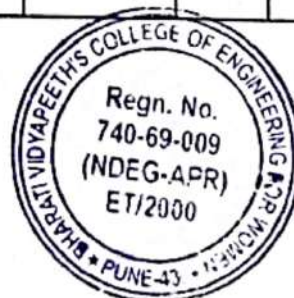
						MM/ YYY Y)		
1	202241067467	Published	Kasar Mahavir Shantinath	"ARTIFI CIAL INTELLI GENCE TECHNI QUES AND BIG DATA ANALY TICS BASED DIGITA L DOCUM ENT FRAUD DETECT ION SYSTE M USING INTERN ET OF THINGS (IOT) ENABL ED MACHI NE LEARNI NG THINGS IN FINANC E AND ECONO MIC INDUST RY	23/11/2022	2/12/2 022	48/2022	Assistant Professor, Department of E&TC, Bharati Vidyapeeth' s College of Engineering for Women, Pune43, Maharashtra 411043, India
2	202241067467	Published	Yadav Amol Pandurang	"ARTIFI CIAL INTELLI GENCE TECHNI QUES AND BIG DATA	23/11/2022	2/12/2 022	48/2022	Assistant Professor, Department of E&TC, Bharati Vidyapeeth' s College of Engineering for Women,



				ANALYTICS BASED DIGITAL DOCUMENT FRAUD DETECTION SYSTEM USING INTERNET OF THINGS (IOT) ENABLED MACHINE LEARNING THINGS IN FINANCE AND ECONOMIC INDUSTRY				Pune43, Maharashtra 411043, India
3	202211067774	Published	Kasar Mahavir Shantinath	A SYSTEM FOR EVALUATING IMPACT OF INTEGRATION OF BANKS AND CRYPTOCURRENCY IN A DEMONETIZED WORLD	24/11/2022	2/12/2022	48/2022	Assistant Professor, Department of E&TC, Bharati Vidyapeeth's College of Engineering for Women, Pune43, Maharashtra 411043, India



4	202211067774	Published	Mr. Vinod Prakash Mulik	A SYSTE M FOR EVALU ATING IMPACT OF INTEGR ATION OF BANKS AND CRYPT OCCUR ENCY IN A DEMON ETIZED WORLD	24/11/2022	2/12/2 022	48/2022	Assistant Professor, Department of E&TC, Bharati Vidyapeeth' s College of Engineering for Women, Pune43, Maharashtra 411043, India
5	202241047392	Published	Yadav Amol Pandurang	Artificial Intelligen ce Integrate d Human Paradigm through Organiza tional Agility and Sustainab le Performa nce	19/08/2022	16/09/ 2022	37/2022	Assistant Professor, Department of E&TC, Bharati Vidyapeeth' s College of Engineering for Women, Pune43, Maharashtra 411043, India
7	202211073508	Published	Mulik Vinod Prakash	THE HEART DISEAS E PREDIC TION USING TECHNI QUE OF CLASSI FICATI ON IN MACHI NE LEARNI NG USING THE CONCE PTS OF	19/12/2022	12/30/ 2022	98/2022	Assistant Professor, Department of E&TC, Bharati Vidyapeeth' s College of Engineering for Women, Pune43, Maharashtra 411043, India



				DATA MINING				
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25. Consultancy services provided, name of the teacher/s and income generated:

Sr. No.	Year	Name of the teacher	Nature of consultancy	Funds generated (In Lakh)
NIL				

26. Details of teachers invited as resource persons for Refresher courses, Orientation courses, Seminars, Workshops, Conferences at national and international levels.

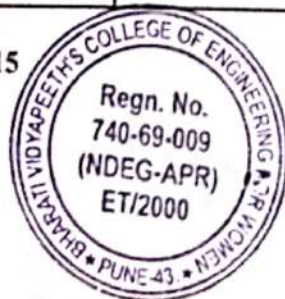
Sr. No.	Name of the Staff	Type of contribution	Organized by	Date
1	Prof.Dr. S.R.Patil	PhD Progress Presentation	AISSMS,IOIT,Pune	14/02/2023
2	Prof.Dr.S.S.Chorage	Nominated as Single Point of Contact (SPOC) for the institute BVCOEW by NPTEL	NPTEL	22/11/2017 till next five years
		V.C. Nominee subject expert for the screening - cum-evaluation committee for the Promotion of Assistant Professor	Modern College of Arts, Science and Commerce Ganeshkhind, Pune - 411016.	10/06/2022
		Invitation as V.C. Nominee subject expert for the Screening cum evaluation committee for the promotion of assistant Professor from Academic Level 10 to Academic Level 11 and Academic Level 11 to	Modern college of Arts ,Science & Commerce	11/06/2022



Academic Level 12 under the Career Advancement Scheme		
Deliver an expert at the "Faculty Orientation Workshop on BE Revised Syllabus 2019 Course" under the aegis of Board of Studies Electronics, Savitribai Phule Pune University, Pune for the subject Radiation & Microwave Techniques	Imperial College of Engineering and Research ,Pune	14/07/2022 to 16/07/2022
Evaluator for online Symposium of research Scholars (SYRES)	IEEE joint chapter of AP,MIT,EMC (JCAME) & communication Society,Pune Section	17/09/2022
Subject expert for PhD Pre-synopsis progress seminar	Riasoni college of Engineering & Management ,Pune	17/01/2023
Conduct expert session at the Faculty Orientation Workshop" on the subject "Fiber Optic Communication	Pune Vidyarthi Griha's College of Engineering and Technology &G.K.Pate(Wani) Institute of management ,Pune	23/01/2023
Appreciation for parcipating in the EduYouth Meet	The Art of Living	04/02/2023



		session chair for 1st international conference on 'Cognitive Computing & Engineering Education'	MIT school of Engineering and Science, Pune	03/05/2023
		conducted expert lecture for final year engineering Students on topic "Fibre Optic Link Design & WDM in fiber optic communication"	Zeal Education Society's, Zeal college of Engineering and Research ,Pune	09/05/2023
		Session chair for International conference on Green Energy ICOGE 2023	AISSMS College of Engineering,Pune	15/05/2023
3	Prof.Dr.V.R.Pawar	"Session Chair" for "6th International Conference on Ideas, Innovations and Impact in Science and Technology"	Sinhgad Technical Education Society's Smt. Kashibai Navale College of Engineering, Pune	3/05/2023 to 04/05/2023.
		external expert for PhD Progress Presentation -II	PICT Pune	17/08/2022
		External Examiner for the subject Deep Learning	VIIT ,Pune	11/5/2023
4	Prof S.A.Itkarkar	Reviewers for International Conference on Green Energy 2023	AISSMS College of Engineering,Pune	16/05/2023 to 17/05/2023
		Food committee member for Yuva Sankalp Abhiyan	SPPU Pune	09/08/2022
		Food Committee member for Har Ghar Tiranga upkram ani	SPPU Pune	13/08/2022



		Swarajya Mohotsav		
		preparation for state level "Tritiyanthaha Lokshahitil Sahbhag" workshop	SPPU Pune	08/09/2022
		Organizing committee member for state level "Tritiyanthaha Lokshahitil Sahbhag" workshop	SPPU Pune	12/09/2022
		Food Committee member for Bharat Nivdnuh Ayogachya vividh upkramavar Adharit Pradarshan, Tritiyanthi yanchyashi parisawad ani Mananiy Kulguru ani adhikari varg Yanchyashi sanwad	SPPU Pune	04/11/2022
		My River My Valentine Valuable contribution ,participation and commitment to clean,Save and preserve the rivers - Mula and Mutha		12/02/2023
5	Prof.S.M.Bhilegoanekar	paper setter and examiner for EFT Insem and Endsem examoination	SPPU Pune	20/09/2022



6	Prof. Y.R.Dhumal	Resource person in Faculty Orientation Workshop on Be (E&TC) revised syllabus (2019 C) under the aegis of Board of studies (E&TC/Elex) SPPU Pune university	JSPM Narhe Technical Campus ,Narhe ,Pune	30/01/2023 to 01/02/2023
7	Prof.S.V.Shelke	Paper setter for subject Industrial Automation & Control (PEEE6052T) B. Tech. (ELECTRICAL ENGINEERING)	Shirpur Education Society's R.C.Patel Institute of Technology ,Shirpur (An atonomus Institute)	28/04/2023

27. Details of teachers participated in Refresher courses, Orientation courses, Seminars, Workshops, Conferences at national and international levels.(participant, presented paper, chaired the session)

Year	Number of Teachers who attended	Title of the Professional development Program	Dates and Duration(from-to)
2022-23	3	Regional Meet Institution Innovation Council MoE's Innovation cell	01/08/2022 (1 day)
	1	NEP-2020: Challenges and Opportunities	12/11/2022 (1 day)
	1	attended Asian Conference on Innovation in Technology (ASIANCON) and presented paper on the topic Spectrally Efficient Multiple Input Multiple Output (MIMO) Non - Orthogonal Multiple Access (NOMA) technique for future wireless communication	26/08/2022 to 28/08/2022 (3 days)
	1	Second International Conference on Signal and Information Processing- 2022 IEEE IConSIP-II-2022	26/08/2022 to 27/08/2022 (2 days)
	10	EDUYOTH MEET	4/02/2023 (1 day)



1	4th International Conference of Emerging Technology (INCET 2013)	24/05/2023 to 28/05/2023 (3 days)
1	Raikeswar & Keanlgad durgawadhu & Swacheta Shibir	24/03/2023 to 25/03/2023 (2 days)
1	IEEE TECHHNICOOKNOCKDOWN-2023 (tkd-23)	4/05/2023 (1 day)
6	Virtual Labs: Hands on online Workshop	2/12/2022 (1 day)
5	Research Methodology (The Practical approach)	24/04/2023 to 28/04/2023 (5 days)
3	National Intellectual property Awareness Mission	21/07/2023 (1 days)
1	Wireless antenna & Microwave Symposium	5/06/2022 to 8/06/2022 (3 days)
1	ELECTROMAGNETICS FOR WIRELESS: OPPORTUNITIES & CHALLENGES(EMWOC)	7/12/2022 (1 day)
1	Design & Implementation of Human -Computer Interfaces	1/7/22 to 30/10/2022 (30 days)
2	International FDP on Innovation in Recent Trends in Computing	2/12/2022 (1 day)
1	Inculcating Universal Human Values in Technical Education	26/09/2022 to 30/09/ 2022 (5 days)

28. Participation of teachers in various academic activities as members of committees at University level, State level, National level, International level bodies. (give details)

Year	Name of the Staff	Name of the body in which full time teacher participated	Total Number of teacher
2022-23	Prof.S.S.Chorage	Invitation as V.C. Nominee subject expert for the Screening cum evaluation committee for the promotion of assistant Professor from Academic Level 10 to Academic Level 11 and Academic Level 11 to Academic Level 12 under the Career Advancement Scheme at Modern college of Arts ,Science & Commerce,Pune	1



2022-23	Prof S.A Itkarkar	Food committee member for Yuva Sankalp Abhiyan at SPPU, Pune	1
		Food Committee member for Har Ghar Tiranga upkram ani Swarajya Mohotsav at SPPU, Pune	1
		preparation for state level "Tritiyanthacha Lokshahitil Sahbhag" workshop at SPPU, Pune	1
		Organizing committee member for state level "Tritiyanthacha Lokshahitil Sahbhag" workshop at SPPU, Pune	1
		Food Committee member for Bharat Nivdnu Ayogachya vividh upkramavar Adharit Pradarshan, Tritiyanthi yanchyashi parisawad ani Mananiy Kulguru ani adhikari varg Yanchyashi sanwad at SPPU, Pune	1

29. Details of teachers appointed/nominated on Editorial Boards at university, state, national and international levels.

NIL

30. Awards / Prizes and recognitions received by teachers at university, state, national and international level.

Sr. No.	Name of faculty	Achievement/Award/Recognitions	Awarding Agency	Year
2022-23				
1	Prof.Dr.S.R.Patil	Received prestigious award "Outstanding leader in Higher Education" by ELETs Education Innovation Summit	ELETs Education Innovation Summit, Pune	2022-23
2	Prof.S.A.Itkarkar	Appointed as NSS District Coordinator by NSS, SPPU (Savitribai Phule Pune University), Pune	SPPU, Pune	2022-23
3	Prof. Dr. S. S. Salunkhe	Successfully awarded Ph.D in Electronics Engineering by Bharati Vidyapeeth (Deemed to be) University on 3rd December, 2022 for her research on "Content Based	Bharati Vidyapeeth (Deemed to be) University, Pune	2022-23



		Image Retrieval : A Hybrid Model Approach” .		
6	Prof. A. B. Vitekar	NPTEL online Certification course on subject “Design and Implementation of Human Computer Interface” with Elite grade	NPTEL online Certification Funded by the Ministry of HRD , Govt. of India	2022-23
	Prof.A.P.Yadav	NPTEL online Certification course on subject “Design and Implementation of Human Computer Interface” with Elite grade	NPTEL online Certification Funded by the Ministry of HRD , Govt. of India	2022-23

31. Awards and Prizes received by students at university, state, national and international level:

Sr. No.	Name of The Student	Event	Venue	Class	Prize	Year
1	Sayali Patil Mitali Waghmode Shrutika Pawar	Project Competition cum exhibition	PICT Pune	BE2	1st	2022-23
2	Tanishka Dande	for Bharatnatyam Dance competition	Akhil Bharatiya Sanskrutik Sangh,Pune	SE1	1st	2022-23
3	Dhanashree Kadam	Chasing Bits ' competition	BVDUCOE,Pune	TE1	2nd	2022-23

32. Details of Seminars/ Conferences/Workshops organized at university, state, national and international level and the source of funding with details:

Name of Conference/ Seminars / Workshops	Funding agency	No. of Participants	University/State/National/ International	Dates
2022-2023				
Faculty Orientation Program on BE(E&TC) Revised Syllabus 2019 Course for the Subject	NIL	10	University	30/01/2023 to 01/02/2023



Android Development (404191(C))- Elective-V				
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33. Student profile programme-wise at UG and PG

UG/PG	Applications Received	No. of students Admitted	Seats Available	Male	Female	Total	Year
UG	121	121	120	0	121	121	2022-23
PG	10	2	2	0	2	2	2022-23

34. Year-wise results of students at UG and PG:

UG/PG	Year	Appeared	Passed	Pass %	Grade %			
					O	A	B	C
UG	2022-23	90	85	94.44	80	5	0	0
PG	2022-23	2	2	100	2	0	0	0

35. Information about M. Phil. programme:

Year	Applications Received	No. of students admitted	Male	Female	Total
NIL					

36. Information about Ph. D. programme :

Year	Applications Received	No. of students admitted	Male	Female	Total
NIL					

37. Number of students awarded M.Phil., Ph.D ,Degree :

Year	M.Phil	Ph.D.	Male	Female	Total
NIL					

38. Diversity of Students : (Year-wise)



Name of the Programme	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
UG (2022-23)	81	39	1	NIL
PG (2022-23)	1	1	0	NIL

39. Number of students cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give Category wise data.

Year	MPSC/UPSC	NET/SET	GATE	Other Exams	Total
2022-23	0	0	2	6	8

40. Student progression/ placement record: Number/ percentage of students proceeded for higher studies Number/percentage of students placed:

Year	% proceeded for higher studies		% of students placed
	UG to PG	PG to Ph.D./ M.Phil	
2022-23	3 %	0	62.22%

41. Diversity of Faculty:

Teaching faculty	%
from the same university	27
from other universities within the State	73
from other States	NIL
from outside the country	NIL

42. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. / D.Lit.: NIL

43. Present details of departmental infrastructural & other facilities with regard to
a) Central Library Books and Journals, etc, relevant to Department :



Total No. of Books UG:	8308	8910
Total No. of Books PG:	602	
Social Welfare Books:		220
Journals:		18
Periodic:		0
E-Journals:		0

b) Departmental Library (books, journals etc.) : Yes

No. of Books:	580
No. of Journals:	NIL

- c) Computers and Internet facilities for staff : 10, Wi-Fi and internet facility for all
- d) Total number of class rooms : UG: 04, PG: 02
- e) Class rooms with ICT facility : 06
- f) Students' laboratory : 10
- g) Research laboratories : 01
- h) Seminar Hall : 01 common for all dept.
- i) Smart class room : NIL
- j) Any other facility LCDs, : 07 LCDs

44. List of post-doctoral students and Research Associates

a) Post-doctoral. Students- NIL

Sr. No.	Name of the Faculty	Post-doctoral Students	Research Topic
1			

b) Research Associates: NIL

45. Number of post graduate students getting financial assistance from the university/state / central government : NIL

46. Curricular Aspects:

- a) Does the faculty take initiative in curriculum development process? No.
- b) Is curriculum suitable to make students globally competitive in the Subject? If yes, substantiate.

- Yes The Student are opting for Higher Education in other Universities

Sr. No	Year	No. of students	Institution Name	Program Name
1	2022-2023	1	Shizuoka University, Japan	



				Master of Science
2	2022-2023	1	The University of Melbourne, Australia	Master of Management
3	2022-2023	1	MIT school of Distance Education, India	PGDM in Human Resource Management

c) Does the department offer program with sufficient no. of electives options. Yes.

d) While framing curriculum, is feed-back taken from stakeholder's viz. Students/Alumni/Parents/Employers considered?

Yes, Institute has central feedback committee which takes regular course feedback at the end of each semester.

e) What is the frequency of curriculum revision? (3/4/5 years or more)

5 years

f) Does the curriculum have emerging thrust areas, including interdisciplinary Areas? (If yes, elaborate).

Yes.

- Wireless Sensor Networks
- Embedded Systems
- Artificial Intelligence and Machine Learning
- Optical Communication and advanced optical networks
- Microwave engineering and antennas
- VLSI
- Pattern Recognition
- Digital Image Processing and Computer Vision
- Power Electronics

47. Teaching-Learning, Evaluation.

1) Number of teachers preparing & following Academic Teaching plan :26

2) How many teachers use the following teaching methods?

a) Interactive lecture method using blackboard, Group discussions, Problem solving, Seminars. 26

b) Use ICT methods to support lectures. : 26

3) Does the Department have Peer review processes? If yes, are the suggestions Effectively used to improve the teaching quality?

- Yes, the department has effective student feedback system for course feedback and teacher feedback at the end of every semester. The analysis of this feedback is used to improve teaching quality.
- Yes. A course mentor is assigned for each course. The mentor conducts meeting to guide and take review of the peer before, during and at the end of every semester for the conduction of the course. The suggestions given



by the mentor are implemented by the mentee to improve the teaching quality.

4) Does the department have any mechanism to ensure that entire syllabus is completed?

Yes. Continuous academic monitoring, student counselling meetings and regular mentor- mentee meetings help in ensuring syllabus completion.

5) Do you offer Bridge/Remedial courses? If yes, Give details.

Yes.

Sr. No.	Dates	Resource person	Details of bridge course/ Remedial course	Level
1	21/08/2022 to 22/08/2022	Mr Ankit Kumar From MathWorks at Design Tech System Pvt. Ltd. (Pune)	Awareness Session on MATLAB	Third Year
2	11/02/ 2023	Ms. Nitya, Mr.Nagaraju Mamidi. Mr. Shashi Kumar Mr. Vikas Gowda from Abhiyantha training division of Entuple Technologies	Internship opportunities on VLSI, IOT, and RF	Third Year

6) What is the method for conducting internal evaluation?

Following are the methods for conducting internal evaluation by faculty members:

- Unit Test 1 on unit 1 & 2
- Assignment oral for unit 3
- Unit Test 2 on unit 4 & 5
- Assignment oral for unit 6
- Mock Practical/ Oral examination

48. Teacher Performance:

1) Whether the performance of the teacher assessed by the students? If yes, are the feedback reports analysed and suggestions communicated to teachers?

Yes. The feedback reports are analysed and suggestions are communicated to the respective teacher for further improvement.

2) Number of teachers



Sr. No	Academic year	Semester	Excellent	Good	Satisfactory	Average
1	2022-23	SEM-I	24	2	-	-
		SEM-II	25	1	-	-

3) Whether suggestion boxes are kept in the department to get suggestions from Students on infrastructural facilities available in the department?

Yes.

4) Are the suggestions received from students used for improvement of Facilities?

Yes. The suggestions are communicated through student counselling meeting.

5) Do teachers submit Self-Appraisal Reports? Are these reports appraised by HOD and forwarded to the university with comments?

Yes.

6) What is the Departmental average API ____? How many teachers have?

API > Average API

No

7) What is the individual faculty wise h index?

Sr. No.	Name of the Faculty	h-Index
1	Prof.Dr. S.R.Patil	5
2	Prof. S.T.Khot	2
3	Prof.Dr.S.S.Chorage	6
4	Prof.V.R.Pawar	8
5	Prof.S.M.Rajbhoj	2
6	Prof.S.A.Itkarkar	0
7	Prof.Dr.S.L.Kore	3
8	Prof.Dr.S.A.Dhole	4
9	Prof.S.M.Jagdale	4
10	Prof.K.R.Choudhari	0
11	Prof.S.S.Salunkhe	1
12	Prof.S.M.Bhilegaonkar	2
13	Prof.M.S.Kasar	1
14	Prof.P.R.Yawale	0



15	Prof.V.S.Karambelkar	1
16	Prof.V.P.Mulik	2
17	Prof.R.R.Jain	0
18	Prof.Y.R.Dhumal	2
19	Prof.R.J.Sapkal	2
20	Prof.S.V.Shelke	0
21	Prof.A.B.Vitekar	2
22	Prof.K.D.Mahajan	3
23	Pro.V.V.Gaikwad	1
24	Prof.R.M.Shamlik	1
25	Prof.A.P.Yadav	1
26	Prof.S.M.Patil	0

8) Give details of “beyond syllabus scholarly activities” of the department.

Academic Year 2022-23

Sr. No.	Date	Type Of Event	Name and Address of Resource Person	Name of the Activity	Organized For
3	17/07/2018	Seminar	India first Robotics team	Seminar on Recent Technology	SE
4	05/09/2018 to 07/09/2018	Workshop	Mr. C. P. Mahajan Dolphin Labs, Pune	Workshop on PCB Design	SE
5	05/01/2019	Seminar	Mr.Pratap Sanap	Seminar on Current Technology trends in AI and ML	TE
6	23/02/2019	Seminar	Mr. Dinesh Joshi Infinity X	Seminar on Current trends in Industrial IoT	TE
7	23/03/2019	Seminar	Mrs. Mugdha kale ISNT, Pune	Seminar on “Introducing New Avenues- NDT”	BE

49. List the distinguished alumni of the department (maximum 10)



Sr. No.	Name Of the Alumni	Company Name	Current Position	Branch
1	Priyanka Padhye	Vodafone Shared Services Ltd.	<ul style="list-style-type: none"> Senior Manager Awarded for clear driving force by C.I.O., Vodafone Germany 	E&TC
2	Priyanka Reddy	Students.com, South Asia, Japan	<ul style="list-style-type: none"> Sales Consultant 	E&TC
3	Shashanki Singh	University of Mumbai	<ul style="list-style-type: none"> Assistant Professor SPPU University Topper for TE (1st rank) and BE (9th rank) 	E&TC
4	Aishwarya Ravlekar	Rings & I - India's first ever Designer Diamond Ring Studio	<ul style="list-style-type: none"> Entrepreneur Software engineer ,TCS 	E&TC
5	Komal Pawar	IMB India Pvt.Ltd.	<ul style="list-style-type: none"> SAP Consultant SPPU University Topper for BE(9th rank) 	E&TC
6	Poornima Lala	IILM College of Engineering and Technology	<ul style="list-style-type: none"> Assistsnt Professor Speaker in the 'Connected Vehicles Workshop' during IEEE ANTS 2019, BITS, Goa 	E&TC
7	Kasturi Dalvi	Infosys, California	<ul style="list-style-type: none"> Cloud Security Engineer Completed M.S. from San Jose State University , California 	E&TC
8	Sneha Bantu	Galaxy Technovations LLp	<ul style="list-style-type: none"> Director 	E&TC
9	Swati Rai	BIT, Vadodara	<ul style="list-style-type: none"> Pursuing Ph.D 	E&TC
10	Neelam Gawade	Asst. Quality Manager	<ul style="list-style-type: none"> Hiphysix Laboratory India Pvt.Ltd. Conducts workshops for newly introduced software "LaTEX" 	E&TC

50. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

Sr. No	Date	Name of the Event	Name of The Speaker	Designation & company address	Class
1	07/09/2022	Webinar on "Your study abroad Journey	Mr. Anand Bannatkar	ASAP Foreign Language Institute	SE
2	15/09/2022	Webinar on "Data Structures & Algorithms "	Mr. Nagesh Mhatre	Click In Computer	SE
3	28 to 30/09/2022	Zest Fiesta Event	College Level		SE, TE, BE
4	11/10/2022 to 15/10/2022	IOT Workshop	Mr.Chittranjan Mahajan	Dolphin Lab	BE



5	25/3/2023	Training Demo session on Apttude, Technical	Mr. Aditya Wakodkar	Seven Sense Talent Solution	TE
6	09/03/2023	Training Demo session on Apttude, Technical	Mr. Aditya Wakodkar	Seven Sense Talent Solution	BE, SE
7	11/03/2023	Training Demo session on Apttude, Technical	Mr. Avinash	Carpe Diem Boot Camp	TE
8	21/03/2023	Training Demo session on Apttude, Technical	Mr. Vishal	EDU PLUS	TE
9	25/03/2023	Webinar on Coding Supper power	Ms. Bhakti	BrightSea Technology Pvt Ltd.	SE
10	11/04/2023 & 13/04/2023	Placement Assessment Test	Mr. Dipendra Wagh	Campus Credentials	SE & TE
11	12/04/2023	Workshop on PCB designing	Mr.Chittranjan Mahajan	Dolphin Lab	SE

51. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Department has separate result analysis committee which deals with progress related to the results. Every faculty evaluates the students by calculating course attainment and PO attainment.

52. Highlight the Special facilities (if, any) of the Department.

- Vector Network Analyzer (500KHz to 4 GHz)
- PCB lab
- LabView Software
- Mentor Graphics Backend Tool
- NI Myrio Kit
- Microwave Test Benches
- OTDR
- Hydraulic and Pneumatic Systems

53. Highlight the unique features of the department.

- Higher no. of Ph. D. completed and registered Faculty.
- Average experience of Faculty is 10 yrs.
- University rankers for successive 3 yrs.
- Highly equipped laboratory with high end software

54. State the Innovative practices adopted in the department.

- Peer to peer training for students
- Course mentor-mentee



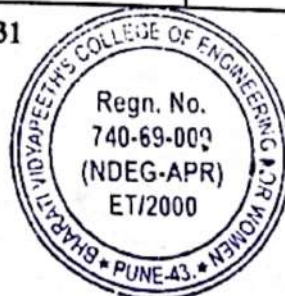
- Course supporters
- Student counselling
- Mock interviews of SE and BE students
- Use of ICT portal for every course

55. Highlight the participation of students and faculty in extension activities.

Title of the Activities	Organizing unit/ agency/ collaborating agency	Number of teachers co-ordinated such activities	Number of students participated in such activities
Tree Plantation at Taljai	Maharashtra Forest Dept & BVCOEW-NSS	5	114
Fit India Movement Flashmob at SPPU	SPPU	1	9
Rakhabandhan celebration at Ayurvedic Hospital	Bharati Ayurveda Hospital, Pune & BVCOEW-NSS	1	10
Inauguration of Samartha Bharat Abhiyan	SPPU	1	6
Cleanliness Drive at Tilak Road (Swacha Bharat Abhiyan)	Make My Pune & BVCOEW NSS	1	8
Kerala Relief Fund Drive	SPPU & BVCOEW-NSS	1	2
New Year Celebration at Bharati Hospital	Bharati Hospital, Pune & BVCOEW-NSS	1	9
Flashmob at Campus(Hum Fit toh India Fit)	BVCOEW-NSS	2	22
Visit to Sarhad College NSS Camp at Kamare Village	Sarhad College of Arts, Commerce & Science, Pune , Abhinav College of Arts, Commerce & Science, Pune, Jadhavar College, Pune	1	2
Visit to Jaykranti College NSS Camp at Shivapur Village	Jaykranti College, katraj, Pune	1	2



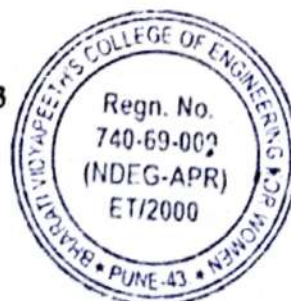
Pre-Camp Visit to Khopi Village	Khopi Grampanchayat & BVCOEW-NSS	1	2
Road Safety Awareness at Munot Vidyalaya Camp	Munot Vidyalaya, Katraj, Pune	1	11
Electronics Workshop at Dolphin Lab	Dolphin Labs, Pune & BVCOEW-NSS	1	6
Nirdhar Vahtuk Shisiticha(Road SafetyAwareness Program) at BVP Campus	BVCOEW-NSS	1	10
Fit India Movement Campaign at Taljai on Republic Day	BVCOEW-NSS	1	18
Interaction with cancer patients at Bharati Hospital, Pune	Bharati Hospital, Pune & BVCOEW-NSS	1	9
Voter Awareness Essay Competition at SP College	SPPU NSS & S.P.College, Pune	1	2
Street Play at Munot Vidyalaya, Katraj	BVCOEW-NSS	1	10
Shivjayanti-Cloth Donation at Khopi	BVCOEW-NSS	1	6
Visit to NDRF	NDRF(Pune),India	3	2
Avhan Disaster Management Camp Preselection	SPPU-NSS	0	3
Avhan Disaster Management camp at Kolhapur	NDRF & Shivaji University-NSS	0	1
Gram Sarvekshan at Khopi village	BVCOEW-NSS, PICT-NSS BVCOFA-NSS	3	150
Health Check-up Camp at Khopi	Bharati Ayurved Hospital, Pune BVCOEW-NSS, PICT-NSS BVCOFA-NSS	3	150
Dental Check-up at Khopi	Khopi Grampanchayat, Bharati Dental College & Hospital, Pune &	3	150



	BVCOEW-NSS, PICT-NSS BVCOFA-NSS		
Shramdaan at Khopi	Khopi Grampanchayat & BVCOEW-NSS, PICT-NSS BVCOFA-NSS	3	150
Participaion in Pune-Saswad Dindi(35km)	BVCOEW-NSS	3	10
Warkari Mitra program during palakhi stay at Bhavani Peth (Pandharpur waari)	SPPU-NSS	1	120
Warkari Mitra Activity (Post Wari Stay)	BVCOEW-NSS	1	7
GK test on account of Gandhi Jayanti	BVCOEW-NSS	0	10
Pre-Camp Visit to Khopi Village	Khopi Grampanchayat & BVCOEW-NSS	1	2
Relevancy of satyagrah in Modern era (Morning Prayer) at Khopi	Khopi Grampanchayat & BVCOEW-NSS, PICT-NSS BVCOFA-NSS	4	150
discussion on Street play topics and preparation	BVCOEW-NSS, PICT- NSS, BVCOFA-NSS	2	150
Presentation Topic Discussion for Awareness	BVCOEW-NSS, PICT- NSS, BVCOFA-NSS	2	150
Republic Day Celebration- Speech	BVCOEW-NSS	55	25
Cloth donation drive for Tribal Areas in Gadchiroli	BVCOEW-NSS& Sinhgad Alumini Team	5	25
Science Exhibition at Khopi Village	Khopi Grampanchayat & BVCOEW-NSS, PICT-NSS BVCOFA-NSS	5	150
Electronics Project Exhibition by Dolphin Lab at Khopi	Khopi Grampanchayat & BVCOEW-NSS, PICT-NSS BVCOFA-NSS	5	150



Rally on Saksham Yuva Samartha Bharat	Khopi Grampanchayat & BVCOEW-NSS, PICT-NSS BVCOFA-NSS	2	120
Swarchitra Jugalbandi (Art-Music Concert)	Khopi Grampanchayat & BVCOEW-NSS, PICT-NSS BVCOFA-NSS	8	150
Wall Painting	Khopi Grampanchayat & BVCOEW-NSS, PICT-NSS BVCOFA-NSS	4	60
Capacity Building of Village Children through Cultural Program	Khopi Grampanchayat & BVCOEW-NSS, PICT-NSS BVCOFA-NSS	8	150
Master chef Competition for Village Women	Khopi Grampanchayat & BVCOEW-NSS, PICT-NSS BVCOFA-NSS	5	150
Anand Melava for Villagers at khopi	Khopi Grampanchayat & BVCOEW-NSS, PICT-NSS BVCOFA-NSS	5	150
Arrangement of Village Library books using Rostrum Library Software	Khopi Grampanchayat & BVCOEW-NSS, PICT-NSS BVCOFA-NSS	3	50
Guinese World Record of Tree Plantation (Sapling Distribution) at SPPU	SPPU-NSS & SDO	3	100
Avhan Preselection	SPPU-NSS	0	3
Avhan Disaster Management camp at Kolhapur	NDRF & Shivaji University-NSS	0	1
Pune-Saswad Dindi	BVCOEW-NSS	3	10
Warkari Mitra	SPPU-NSS	1	120
Post Warkari Mitra Activity	BVCOEW-NSS	1	7
Shivjayanjti Celebration (Speech & Resolution Campaign)	BVCOEW-NSS	3	40



Marathi Bhasha Divas - Discussion on Marathi Sahitya	BVCOEW-NSS	30	15
Yoga Session on International Yoga Day	SPPU-NSS & BVCOEW-NSS	1	4
Yoga Session on International Yoga Day	BVP & BVCOEW-NSS	18	100
Guru Pournima Celebration	BVCOEW-NSS	45	25
Organ Donation Awareness Campaign	BIG FM Radio & BVCOEW-NSS	3	80
Teacher's day Celebration - Craft Workshop (Flower and Diary Making)	BVCOEW-NSS	2	25
Life Skill Education Workshop	AACCI & BVCOEW-NSS	2	70
Mission Green-Corridor Gardening	BVCOEW-NSS	2	20
Visit to historical place- Karla Caves	BVCOEW-NSS	1	20
NAAC committee visit to NSS Office	BVCOEW	3	35
Blood Donation camp	BVCOEW-NSS	25	120
Cultural Program	BVCOEW	60	70
Documentation and record keeping of NSS	BVCOEW-NSS	1	25
NSS Office Recreation & decoration	BVCOEW-NSS	2	25
Flashmob -Fitness Awareness(HumFit Toh India Fit)	BVCOEW-NSS	4	50



Dance Practice-fitness campaign	SPPU-NSS, FTII & BVCOEW-NSS	2	120
Handcrafts Workshop (Book Mark)	BVCOEW-NSS	2	25
Presentation on NSS Activities	BVCOEW-NSS	2	25
Poster Making-Awareness campaign(gender equality,girl child,etc)	BVCOEW-NSS	2	28
Science Projects building	BVCOEW-NSS, PICT-NSS, BVCOFA-NSS	4	150
Special Camp Pre-Planning meeting	BVCOEW-NSS, PICT-NSS, BVCOFA-NSS	4	150
NSS Special camp organization	BVCOEW-NSS, PICT-NSS, BVCOFA-NSS	4	30
Inauguration of Camp at BVCOEW	BVCOEW-NSS, PICT-NSS, BVCOFA-NSS	4	150
Itihaas Lekhan (Gramsarveskhan on Social issues)	Khopi Grampanchayat, BVCOEW-NSS, PICT-NSS & BVCOFA-NSS	4	150
Shivvyakhyan at Khopi	Khopi Grampanchayat, BVCOEW-NSS, PICT-NSS & BVCOFA-NSS	4	150
Inauguration at village Khopi	Khopi Grampanchayat, BVCOEW-NSS, PICT-NSS & BVCOFA-NSS	6	150
Need of 'Sarvodya' for Sustainable development (Morning Prayer)	Khopi Grampanchayat, BVCOEW-NSS, PICT-NSS & BVCOFA-NSS	3	150
Gajar Kirtanacha -Bhajan at Khopi	Khopi Grampanchayat, BVCOEW-NSS, PICT-NSS & BVCOFA-NSS	3	150
Mokla shwaas-Mindfulness Workshop	Khopi Grampanchayat, BVCOEW-NSS, PICT-NSS & BVCOFA-NSS	3	150



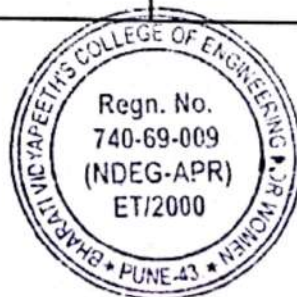
Computer Literacy Program for school children at Khopi	Khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	3	150
Shramdaan at Temple Khopi	Khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	3	150
Lecture on Health Issues by Dr.T.A Khan	Khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	3	150
Being "Ahinsa" in daily life (Morning Prayer)	Khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	3	150
Shramdaan- Canals cleaning	Khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	3	150
Development of "Swarajya" (Morning Prayer)	Khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	3	150
Drawing competition at Khopi school	Khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	3	150
Shramdaan at Smashaan Bhoomi	Khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	3	150
Aarogya hich sampatti by Dr.Shaileja Mane	Khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	3	150
Aayushyavar Bolu Kahi- Lecture by Prof. Dr. A.R Mhetre Sir	Khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	3	150
Demonstration workshop of Teracota-Prof.Dr.Girish Charwad sir	Khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	3	150
Fancy Dress Competition of children at Khopi	Khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	3	150
Seminar on "How to conquer success?" by Prof. Khot Sir	Khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	4	150



Yogabhyas at khopi	Khopi Grapanchayat, BVCOEW-NSS, PICT- NSS& BVCOFA-NSS	4	150
Varhad Nighalay Londonla drama	Khopi Grapanchayat, BVCOEW-NSS, PICT- NSS& BVCOFA-NSS	4	150
Mi ek Satyagrahi' Lecture By Mr. Sandip Barve	Khopi Grapanchayat, BVCOEW-NSS, PICT- NSS& BVCOFA-NSS	4	150
Organic Farming Session- Ek Divas Sendriya Sheti Sathi	Khopi Grapanchayat, BVCOEW-NSS, PICT- NSS& BVCOFA-NSS	4	150
Dhvajarohan at Khopi Temple	Khopi Grapanchayat, BVCOEW-NSS, PICT- NSS& BVCOFA-NSS	4	150
Shramdaan- Bridge Transformation	Khopi Grapanchayat, BVCOEW-NSS, PICT- NSS& BVCOFA-NSS	4	150
Emphasis on "Sarvabhaum"(Morning Prayer)	Khopi Grapanchayat, BVCOEW-NSS, PICT- NSS& BVCOFA-NSS	4	150
Trek at Nearby Mountain in Khopi	Khopi Grapanchayat, BVCOEW-NSS, PICT- NSS& BVCOFA-NSS	4	150
Shramdan - Corridor cleaning	Khopi Grapanchayat, BVCOEW-NSS, PICT- NSS& BVCOFA-NSS	4	150
Elaboration of "Shashwat"(Morning Prayer)	Khopi Grapanchayat, BVCOEW-NSS, PICT- NSS& BVCOFA-NSS	4	150
Shramdaan- Going Eco- friendly with Cow dung for Temple area leveling	Khopi Grapanchayat, BVCOEW-NSS, PICT- NSS& BVCOFA-NSS	4	150
Guj-Goshati by Prof. S.A. Itkarkar Maam at Khopi	Khopi Grapanchayat, BVCOEW-NSS, PICT- NSS& BVCOFA-NSS	4	150



Ek Kshan kasoticha-Prize distribution of Various competitions at khopi	Khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	5	150
Standing for "Satyagraha"(Morning Prayer)	Khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	4	150
Being "Abhivyakti"(Morning Prayer)	Khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	4	150
Drama- Pruthvi var manus uparach (Environmental Issues)	Khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	4	150
Drama-Mala kahi tari sangaychay (Historical monument)	khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	4	150
Drama-Phakt Ladh Mhana	khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	4	150
Drama-Chukli disha Tarihi	khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	4	150
Closing Ceremony of NSS Special camp at Khopi	khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	4	150
Street Play-Women Empowerment	khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	4	150
Street Play-Political awareness	khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	4	150
Street Play- water management	khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	4	150
Street play -Green India	khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	4	150
Street Play-divyangata(Specially Abled People)	khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	4	150



Presentation on latest Innovations	khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	4	150
Powerpoint Presentation-Digital Education	khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	4	150
Powerpoint Presentation-Incredible India	khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	4	150
Powerpoint presentation-Power of Social Media	khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	4	150
Ex-tempore(Drama)-Baithak	khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	4	150
Debate-Knowledge/Marks	khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	4	150
Debate-Peer Presure	khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	4	150
Home Minister competition at Khopi	khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	4	150
Haldi -Kunku program at Khopi	khopi Grapanchayat, BVCOEW-NSS, PICT-NSS& BVCOFA-NSS	4	150
Anand Melava(Food fare) for Villagers at khopi	Khopi Grampanchayat & BVCOEW-NSS, PICT-NSS BVCOFA-NSS	5	150
FSAI Student Induction program	FSAI	1	107
Technical session on IOT	FSAI	1	99



Seminar on Internet of Things (IoT)	FSAI	1	138
Seminar on Self defence	FSAI	1	113
FSAI Life Marathon-Run for Surakshit Bharat	FSAI	1	45
Combined Annual Training Camp-713	2 MAH NCC PUNE	0	1
Combined Annual Training Camp-715	2 MAH NCC PUNE	0	1
Combined Annual Training Camp-716	36 MAH BATTALION NCC PUNE	0	1
Group RDC Selection-II	2 MAH GIRLS NCC PUNE	0	1
CATC RDC IGC-717	38 MAH BATTALION NCC PUNE	0	1
CATC (PRE-RDC, CAT-1)	38 MAH BATTALION NCC PUNE	0	1

56. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths:-

1. Post-Graduation program in VLSI and Embedded System Design.
2. Laboratories with State of the Art equipment & modern software tools.
3. Effective use of ICT in teaching learning process.
4. Student centric functioning with mentoring and counselling through teachers.

5. Weakness:-

1. Lack of consultancy services.



2. Improvement of aptitude and communication skill for students.
3. Moderate employable competency.
4. Less research publications in peer reviewed international journals having high impact factor.

Opportunities

1. Promotion of Post-doctoral research.
2. Conduction of FDP and STTP.
3. Organization of national/international conferences and value addition programs.
4. Effective Participation of alumni in department development.

Challenges

1. More Placement in core companies
2. Strengthen industry and institute interaction.
3. More participation in the summer school and industry internship.
4. Strengthen alumni interaction.

57. Future plans of the department:

Long term plans- (Future Plans)

- a. To establish research Centre.
- b. To promote patents and registration.
- c. To prepare students ready for placement from initial stages.
- d. Online submission and assessment of assignment and unit test.

Short term plans

- a. More Placement in core companies
- b. Strengthen industry and institute interaction.
- c. Creating awareness about employment opportunities E & Tc Engineering
- d. Strengthen alumni interaction.

Declaration by the Head of the Department/Institution:



I am aware that the above information provided by the department will be validated by the AAA committee during the visit.

Date:

25/09/25



Head of Department

Head of the Department
Electronic & Tele Communication
Bharati Vidyapeeth's College of Engineering for Women
Pune - 411043



IQAC Coordinator





**Bharati Vidyapeeth's College of Engineering for Women, Dhankawadi,
Pune-411043**

Date:

**INFORMATION FOR ACADEMIC AND ADMINISTRATIVE AUDIT OF THE
DEPARTMENT**

Year – 2022-23

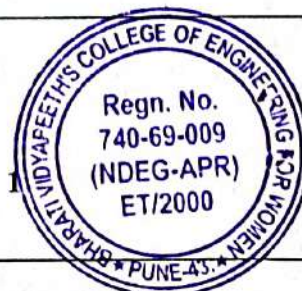
(Provide information for 2022-23)

1. Name of the Department: **Computer Engineering**
2. Year of establishment: **2000**
3. Courses offered: UG, PG, M. Phil., Ph.D., Integrated Masters

Year	UG
2022-23	60

4. Courses introduced during last 5 years: NIL
5. Does the department have Academic flexibility? If yes since when?
Yes, the department offers choice based elective subjects since 2004.
6. Interdisciplinary programs offered and departments involved: NIL
7. Courses conducted in collaboration with other universities and Institutions: NIL
8. Details of programmes discontinued, if any, with reasons: NIL
9. Examination System: Annual/ Semester/Choice Based Credit System/ Credit and Grading system/ any other system, specify:

Programme Name	System Pattern
UG	Credit and grading system for SE, TE and BE students



10. Participation of the department in the curriculum development for courses offered by the University.

Sr. No	Name of the Faculty	Details	Organized By	Year
	NIL	NIL	NIL	NIL

11. Does the department have different syllabus than the one used by university for UG and PG courses?

Institution is affiliated to SPPU, thus the syllabus is as provided by the University.

12. Number of teaching posts sanctioned, filled and vacant.

Designation	Sanctioned	Filled	Filled under CAS
Professor	1	NIL	NIL
Associate Professor	2	3	NIL
Assistant Professor	7	10	NIL
Total	10	13	NIL

13. Faculty profile with name, qualification, designation, experience, nature of appointment (confirmed/ probation/temporary):

a) Appointed on Government Sanctioned Post.

Name	Designation	Qualifications	Teaching/ Research Experience	Nature of appointment
Prof. D. D. Pukale	Associate Professor	M.E.(CSE) Ph.D. (pursuing)	27 years	Full Time

Prof. P. D. Kale	Associate Professor	M.E (Comp)	24 years	Full Time
Prof. Dr. S. P. Kadam	Associate Professor	M.E (Comp) Ph.D	17 Years	Full Time
Prof. S. B. Jadhav	Assistant Professor	M.E (Comp) Ph.D. (pursuing)	17.4 Years	Full Time
Prof. A. P. Kadam	Assistant Professor	M.E (Comp) Ph.D. (pursuing)	15.10 Years	Full Time
Prof. V. D Kulkarni	Assistant Professor	MTech (I.T.)	16 years	Full Time
Prof. K. S. Warke	Assistant Professor	MTech (I.T.)	15 Years	Full Time
Prof. K. S. Sawant	Assistant Professor	MTech (I.T.)	14 years	Full Time
Prof. N. I. Dalvi	Assistant Professor	MTech (I.T.)	11.5 years	Full Time
Prof. J. D. Jadhav	Assistant Professor	MTech (Comp)	13.6 years	Full Time
Prof. K.D. Yesugade	Assistant Professor	M.E (Comp) Ph.D. (pursuing)	19 Years	Full Time
Prof. Dr. S. A. Pawar	Assistant Professor	MTech (Comp) Ph.D	10.2 Years	Full Time
Prof. Dr. S.A.Deshmukh	Assistant Professor	MTech (Comp) Ph.D	10 Years	Full Time

b) Appointed from University Fund. -

Name	Designation	Qualifications	Teaching/Research Experience	Nature of appointment.
Nil	Nil	Nil	Nil	Nil



14. List of Visiting Fellows/Teachers, Adjunct and Emeritus Professors, (for last 2 years).

Sr. No.	Name of Visiting Fellows/Teachers, Adjunct and Emeritus Professors	Status	Subject	Academic Year
1	Mrs Palasdeokar Dhanashree	Visiting	Mathematics -III	2022-23

15. Percentage of classes taken by temporary/visiting faculty (programmer- wise information):

Sr. No.	Academic Year	Sem	Percentage of Lectures Delivered	Percentage of Practical's handled
1	2022-23	II	100%	100%

16. Programme-wise Student Teacher Ratio: (Average of 2Years)

Year	No of Students Enrolled in the institute	No of Full Time Teachers	Teacher Student Ratio
2021-22	241	11	21.9
2022-23	239	11	21.7
Average of 2 years			21.8

Average of 2 Years Teacher Student Ratio: - 1:21

17. Number of academic support staff (technical) and administrative staff sanctioned, filled and vacant:

Sr. No.	Posts	Sanctioned posts	Filled	Actual
1	Laboratory Assistant	-	02	02
2	Clerk (office)	-	01	01
3	Laboratory Attendant	-	00	00
4	Peon	-	01	01
5	Other	-	00	00

18. Thrust areas of research as identified by the department:

Cloud Computing, IoT, Artificial Intelligence, Machine Learning, Big Data Analysis, Image Processing.

19. Information about research grants, projects completed and ongoing during the period of last 5 years.

a) From National funding agencies (like UGC, CSIR, DST, DBT etc):

Sr. No.	Name of the Principle Investigator (CO-investigator)	Title of the Project	Funding Agency, Duration & date of sanction	Amount (in Rs)
	NIL			

b) From International funding agencies:
NIL

20. Funds received at Departmental level through DST-FIST; CSIR, UGC-SAP/CAS, DAE, DBT, BRNS, ICSSR, AICTE, etc.

NIL

21. Research facilities available in the department and recognition received, if any?

Digital Library is provided in the department.

22. Special research laboratories sponsored by / created by industry or corporate bodies.

NIL

23. Publications:

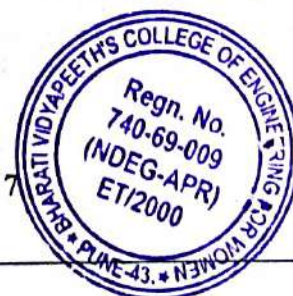
Sr. No.	Paper Published in peer reviewed journals	Name of Staff	Monographs, books, chapters in book	Citations	H-index	Impact Factor/ Average impact factor
1	Wild Animal Detection and Identification using Deep learning.	Prof. Pukale D. D.		10	2	
2	"Review Of Artificial Intelligence Techniques For Dental Implants Using Radiographic Images",	Dr Sonali kadam		42	4	
3	Factory Downtime Prediction Using Machine Learning Algorithms	Dr Sonali kadam		48	4	



4	Predicting the Growth of COVID Pandemic using Machine Learning	Prof. A. P. Kadam				
5	Smart Road Damage Detection and Warning	Prof. A. P. Kadam				7.97
6	Predicting the Growth of COVID Pandemic using Machine Learning	Prof. S. A. Karande		12	2	7.97
7	Helmet, Number Plate Detection and Stolen vehicle recognition using Machine Learning	Prof. V.D.Kulkarni		09	2	7.97
8	Advancements in Deep Learning Based Sign Language Gesture Recognition for Enhanced Communication Accessibility	Prof. V.D.Kulkarni		09	2	
9	ML BASED STOCK AND SUPPLY REGULATION SYSTEM	Prof. V.D.Kulkarni		09	2	7.95
10	Deepfake Detection through Deep Learning using Resnext CNN and LSTM	Prof. Kanchan Warke		2	1	7.95
11	Deepfake Detection through Deep Learning	Prof. Kanchan Warke		2	1	7.95
12	Fall Detection for Elderly People Using Machine Learning	Prof. Kanchan Warke		2	1	7.95
13	Depression Detection Using Face .Text and Audio Using Machine Learning	Prof.K.S.Sawant		2	1	7.95
14	Depression Detection Using face , text and audio.	Prof.K.S.Sawant		2	1	7.95
15	Object Detection for Blind	Prof.K.S.Sawant		2	1	7.95

	People's					
16	Fire Detection Application using Deep Learning	Prof.N.I.Dalvi				8.17
17	Dental Disease Detection using Deep Learning", Journal of Emerging Technologies and Innovative Research	Dr. Shital Pawar		58	5	7.97
18	Fall Detection for Elderly People Using Machine Learning	Dr. Shital Pawar		58	5	7.97
19	Deep Learning Approach For Suspicious Activity Detection	Prof. K.D.Yesugade		24	3	7.95
20	Recent advances of Artificial Intelligence (AI) for Nanobiomedical Applications: Trends, Challenges and future prospects	Dr. Sonali Kadam	Disruptive Developments in Biomedical Applications	42	4	
21	A Strategic approach to Model the Machine to Machine Communication of Industrial IoT system for MQTT Protocol with a Case Study	Dr. Shital Pawar	Proceedings of 3rd International Conference on Machine Learning, Advances in Computing, Renewable Energy and Communication . Lecture Notes in Electrical Engineering (LNEE)	58	5	

Conference Publication



Sr. No	Name of the teacher	Title of the paper	Name of the conference	ISBN/ISSN number of the proceeding
1	Prof. S. B. Jadhav	Comparative Analysis of Image Segmentation Techniques for Real Field Crop Images	International Conference on Innovative Computing and Communications	978-981-19-2534-4, 522162_1_En,
2	Prof. Dr.Sonali Kadam	A systematic review on security mechanism of Electric Vehicles	22nd International Conference on Intelligent Systems Design and Applications	
3	Dr. Shital Pawar	Detection of Leaf Diseases for Multiple Plants using Convolutional Neural Network	3rd International Conference on Smart Electronics and Communication (ICOSEC IEEE Conference)	978-1-6654-9764-0

24. Details of patents filed & granted and income generated:

NIL

25. Consultancy services provided, name of the teacher/s and income generated:

NIL

26. Details of teachers invited as resource persons for Refresher courses, Orientation courses, Seminars, Workshops, Conferences at national and international levels.

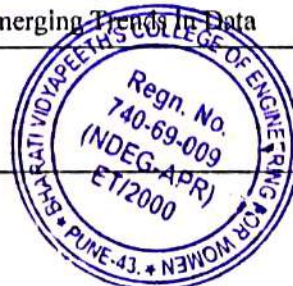
NIL

27. Details of teachers participated in Refresher courses, Orientation courses, Seminars, Workshops, Conferences at national and international levels. (participant, presented paper, chaired the session)

a. National

Year	Name of Teacher who attended	Title of the Professional development Program	Dates and Duration(from-to)
2022-23	Prof. K.D.Yesugade	Deep Learning	9-01-23 to 20-01-23

	Prof. K.D.Yesugade	AICTE Training And Learning (ATAL) Academy Blended/Hybrid FDP on Emerging Trends in Data Science and Analytics	2022-10-31 and 2022-11-07(Online) 11/5/2022 and 2022-11-11(Offline)
	Prof. K.D.Yesugade	Data Science tools and Research	1-11-22 to 5-11-22
	Prof. V.D.Kulkarni	Data Science tools and Research	1-11-22 to 5-11-22
	Prof. V.D.Kulkarni	Recent trends in Multidisciplinary research	6-02-23 to 10-02-23
	Prof. V.D.Kulkarni	Data Science	6-02-23 to 10-02-23
	Prof.N.I.Dalvi	Data Science	6-02-23 to 10-02-23
	Prof. S. A. Karande	Research Trend in Data Computing and Machine Learning	22-05-23 to 26-05-23
	Prof. S. A. Karande	Research Paper Writing and Publishing Skills for SCOPUS and SCI Journals	10-04-23 to 14-04-23
	Prof. S. A. Karande	Recent trends in Multidisciplinary research	6-02-23 to 10-02-23
	Prof.K.S.Sawant	Data Science tools and Research	1-11-22 to 5-11-22
	Prof.K.S.Sawant	Deep Learning and it's Applications	30-01-23 to 4-02-23
	Prof.K.S.Sawant	Recent trends in Multidisciplinary Research	6-02-23 to 10-02-23
	Prof.K.S.Sawant	Deep Learning Application Development Tools and Research	28-02-23 to 4-03-23
	Dr. Sonali Kadam	Data Science tools and Research	1-11-22 to 5-11-22
	Prof. Anjali P. Kadam	AICTE Training And Learning (ATAL) Academy Blended/Hybrid FDP on Emerging Trends in Data	2022-10-31 and 2022-11-07(Online) 11/5/2022 and



		Science and Analytics	2022-11-11(Offline)
	Prof. Kanchan Warke	5 Day Faculty Development Program on "Data Science : tools and Research"	1-11-22 to 5-11-22
	Prof. Kanchan Warke	One week Online FDP on "Machine Learning"	7-12-22 to 11-12-22
	Prof. Kanchan Warke	One week Online FDP on "Research Methododlogy : The Practical Approach"	24-04-23 to 28-04-23
	Dr. Shital Pawar	Deep Learning Application Development	28-02-23 to 4-03-23
	Dr. Shital Pawar	Data Science: Tools and Research	1-11-22 to 5-11-22

b. International

Year	Name of Teacher who attended	Title of the Professional development Program	Dates and Duration(from-to)
2022-23	Prof. K.D.Yesugade	Data Science using Machine Learning	2-01-23 to 6-01-23
	Prof. V.D.Kulkarni	Amazon Web Services	22-08-22 to 27-08-22
	Prof.K.S.Sawant	Amazon Web Services	22-08-22 to 27-08-22
	Dr. Sonali Kadam	Amazon Web Services	22-08-22 to 27-08-22
	Prof. Anjali P. Kadam	Five Day's Online International Level Faculty Development Program on Data Science using Machine Learning	2-01-23 to 6-01-23

28. Participation of teachers in various academic activities as members of committees at University level, State level, National level, International level bodies. (give details) -

Sr. No.	Name of Staff	Name of Event	Organized by	Date	Total no of Faculty
1	Prof Dr.Sonali Kadam	Expert for Phd Progress presentation	SKNCOE,S PPU		13
2	Prof Dr.Sonali Kadam	Expert for Phd Progress presentation	VIIT, SPPU		13
3	Prof Dr.Sonali Kadam	External Examiner for Reserch internship	VIIT, SPPU		13
4	Prof. K.D.Yesugade	Paper Setter & Examiner CAP Appoinment of TE Computer: Computer Networks and Security (2019 Pattern) End Sem	SPPU	25-Jan-23	13
5	Prof. K.D.Yesugade	Paper Setter & Examiner TE Computer: Computer Networks and Security (2015 Pattern)	SPPU	11-Sep-22	13
6	Prof. K.D.Yesugade	Paper Setter & Examiner TE Computer: Computer Networks and Security (2015 Pattern)	SPPU	29-April-23	13
7	Prof.S.P.Deshmukh	Reviewer for IEEE MYSURUCON 2022-The 2nd Edition of the Mysore Subsection Flagship International Conference		16-oct-22.	13
8	Prof .S.P.Deshmukh	Reviewer member for IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI-2022)		21-Dec-22	13
9	Prof .S.P.Deshmukh	Reviewer for NTERNATIONAL JOURNAL OF RESEARCH AND ANALYTICAL REVIEWS IJRAR (www.ijrar.org)		07-08-22	13



29. Details of teachers appointed/nominated on Editorial Boards at university, state, national and international levels.

NIL

30. Awards / Prizes and recognitions received by teachers at university, state, national and international level:

Sr. No.	Name of faculty	Achievement/Award/Recognitions	Awarding Agency	Year
	NIL	NIL	NIL	NIL

31. Awards and Prizes at university received by students, state, national and international level:

Sr. No	Name	Name of the Activity	Recognition /Award	Date	Organized by
1	Aishwarya Kottapalli	Presented paper titled "Prediction of Stock Prices Using Sophisticated Machine Learning Technique" guided by Prof. P. D. Kale, in Paper Presentation Avinya- 2023	Won First Prize.	27 th April 2023	Bharati Vidyapeeth's College of Engineering for Women Pune
2	Shital Patil				
3	Suhasi Gadge				
4	Piyusha Patil				
5	Kajal Gadekar	Capgemini CodeX Hackathon (Project Competition). The title of the project was "EcRD: Edge-cloud Computing Framework for Smart Road Damage Detection and Warning", guided by Prof. A. P. Kadam.	Won 3 rd Prize	11 th May 2023	Capgemini
6	Anuradha Birajdar				
7	Rakshanda Borse				
8	Ankita Tilekar				

32. Details of Seminars/ Conferences/Workshops organized at university, state, national and international level and the source of funding with details:

Name of Conference/ Seminars / Workshops	Funding agency	No. of Participants	University/State/National/ International	Dates
Workshop on Machine learning with tabular data	---	48	University	27-05-2022 to 18-11-2022

33. Student profile programme-wise at UG and PG

UG	Applications Received	No. of students Admitted	Seats Available	Female	Year
UG Computer Engineering	Not Applicable since admission processes is as per DTE norms.	67	60	67	22-23

34. Year-wise results of students at UG and PG:

UG	Year	Appeared	Passed	Pass %	Grade %			
					O	A	B	C
UG	Second Year	77	76	98.70 %	31	47	4	-
UG	Third Year	80	78	97.50 %	19	41	11	-
UG	Fourth Year	82	82	100 %	-	37	27	-

35. Information about M. Phil. programme: NIL

36. Information about Ph. D. programme : NIL

37. Number of students awarded M.Phil., Ph.D. ,Degree : NIL

38. Diversity of Students : (Year-wise)

Name of the Programme	Year	% of students from the same	% of students from other Universities	% of students from Universities outside the State	% of students from other countries
-----------------------	------	-----------------------------	---------------------------------------	---	------------------------------------



		University	within the State		
Computer Engineering	2022-23	71.6	26.8	1.6	Nil

39. Number of students cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give Category wise data. -

Year	MPSC/UPSC	NET/ SET	GATE	Other Exams	Total
2022-23	Nil	Nil	Nil	4	4

40. Student progression/ placement record: Number/ percentage of students proceeded for higher studies Number/percentage of students placed:

Year	% proceeded for higher studies		% of students placed
	UG to PG	PG to Ph.D./ M.Phil.	
2022-23	2.43	NIL	65.85

41. Diversity of Faculty:

Teaching faculty	% 2020-21	% 2021-22	% 2022-23
from the same university	7.69	7.69	7.69
from other universities within the State	92.3	92.3	92.3
from other States	0.00	0.00	0.00
from outside the country	0.00	0.00	0.00

42. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. / D.Lit.:

Sr.No	Name of faculty	Degree Awarded	Awarding University	Year
1	Dr. Shital A Pawar	Ph.D in Computer engg.	BVDUCOE	2022
2	Dr. S.A.Deshmukh	Ph.D in Computer engg.	BVDUCOE	2023

--	--	--	--	--

43. Present details of departmental infrastructural & other facilities with regard to

a) Central Library Books and Journals, etc., relevant to Department:

Total No. of Books (Last Five Years)	5226
Journals-	6
Periodic	0
E-Journals	0

b) Departmental Library (books, journals etc.) :

No. Of Books	317
No Journals	Nil

- c) Computers and Internet facilities for staff : 15
d) Total number of class rooms : 2
e) Class rooms with ICT facility : 2
f) Students' laboratory : 6
g) Research laboratories :
h) Seminar Hall :
i) Smart class room : 02
j) Any other facility LCDs : 03

44. List of post-doctoral students and Research Associates

a) Post-doctoral. Students- NIL

b) Research Associates - NIL

45. Number of post graduate students getting financial assistance from the university/state / central government - NA

46. Curricular Aspects:

a) Does the faculty take initiative in curriculum development process?
Yes

b) Is curriculum suitable to make students globally competitive in the Subject?
If yes, substantiate.
Yes The Student are opting for Higher Education in other Universities



Sr. No	Year	No. of students	Institution Name	Program Name
1	2022-23	1	University of Exeter, England	Master of Science in Advanced Computer Science

Competitive Exams

Year	Number of students selected/ qualifying								
	NET	SLET	GATE	GMAT	CAT	GRE	TOFEL/ IELTS	Civil Services	State government examinations
2022-23	--	--	--	--	---	1	2 (TOEFL) 2 (IELTS)	--	--

c) Does the department offer program with sufficient no. of electives options?
Yes

d) While framing curriculum, is feed-back taken from stakeholder's viz. Students/Alumni/Parents/Employers considered?

College is affiliated to Savitribai Phule Pune University (SPPU) hence while framing the curriculum, analysis of the feedback taken from stakeholders, is forwarded to Board of Studies Members of Computer department, Savitribai Phule Pune University

e) What is the frequency of curriculum revision? (3/4/5 years or more)
3 Years

f) Does the curriculum have emerging thrust areas, including interdisciplinary Areas? (If yes, elaborate).

Yes, Cloud Computing, IoT, Artificial Intelligence, Big Data Analysis

47. Teaching-Learning, Evaluation.

1) Number of teachers preparing & following Academic Teaching plan

2022-23
13

2) How many teachers use the following teaching methods?

	2022-23
--	---------

a.	Interactive lecture method using blackboard, Group discussions, Problem solving, Seminars	13
b.	Use ICT methods to support lectures.	13

3) Does the Department have Peer review processes? If yes, are the suggestions effectively used to improve the teaching quality?

- Yes, the department has effective student feedback system at the end of every semester. The analysis of this feedback is used to improve teaching quality.
- Yes. A mentor is assigned for each course. The mentor conducts meeting to guide and take review of the peer before and during the conduction of the course. The suggestions given by the mentor are implemented by the mentee to improve the teaching quality.

4) Does the department have any mechanism to ensure that entire syllabus is Completed?

- Yes, the department implements the Academic monitoring system where the completion of syllabus is checked by the Mentor. Also, in weekly meeting Head of the department takes the reviews about practical and theory syllabus completion.

5) Do you offer Bridge/Remedial courses? If yes, Give details.

Sr. No	Name	Year	No. of student s attende d	Contact person name
NIL	NIL	NIL	NIL	NIL

6) What is the method for conducting internal evaluation?

- Unit Test I: It is conducted on Unit 1 and 2. The exam is conducted for SE, TE and BE students before INSEM examination of SPPU for TE & BE / Online Examination for SE, SPPU.
- Assignment 1: Oral exam on Unit 3 is conducted.
- Unit Test II: This exam is conducted after INSEM Exam .It is conducted on Unit 4 and 5.
- Assignment 2: Oral exam on Unit 6 is conducted.
- Practical Courses: Mock practical are conducted before University Practical. Also continuous progressive assessments are done through viva voce, presentation, report submission and laboratory quiz, etc.



- Various co-curricular activities: In this component, home assignments, tutorials, problem solving, group discussions, quiz etc. are conducted and evaluated regularly.

48. Teacher Performance:

- 1) Whether the performance of the teacher assessed by the students? If yes, are the feedback reports analysed and suggestions communicated to teachers?
 - Yes, A proper record of collected feedback is maintained and analysed further for necessary actions.
- 2) Number of teacher's remarks from students.

Sr. No	Academic year	Semester	Excellent	Good	Satisfactory	Average
1	2022-23	Sem 1	11	1		
		Sem 2	10	2		

- 3) Whether suggestion boxes are kept in the department to get suggestions from Students on infrastructural facilities available in the department?
 - Yes
- 4) Are the suggestions received from students used for improvement of Facilities?
 - Yes
- 5) Do teachers submit Self-Appraisal Reports? Are these reports appraised by HOD and forwarded to the university with comments?
 - Yes

6) What is the individual faculty wise h index?

Sr. No	Name of faculty	h-index
1	Prof. D. D. Pukale	2
2	Prof. P. D. Kale	1
3	Prof. Dr. S. P. Kadam	4
4	Prof. S. B. Jadhav	2
5	Prof. A. P. Kadam	1
6	Prof. V. D Kulkarni	2
7	Prof. K. S. Warke	1

8	Prof. K. S. Sawant	1
9	Prof. N. I. Dalvi	
10	Prof. J. D. Jadhav	2
11	Prof. K.D. Yesugade	3
12	Prof. S. A. Pawar	5
13	Prof.S.A.Deshmukh	2

7) Give details of "beyond syllabus scholarly activities" of the department.

Sr. No	Academic Year	Class	Name of Activity
1	2022-23	SE,TE	Webinar on "Data visualization using Qlik Sense"
2	2022-23	TE	Webinar on "Spring Framework of Java"

49. List the distinguished alumni of the department (maximum 10)

Sr. No.	Name of Alumni	Distinguishing Details	Pass out Year
1.	Tanmaya Kulkarni	Ranked 47 th in the top 50 UK Software Engineering leaders.	2004-2005

50. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

Academic Year 2022-23

Sr. No	Date	Type of Event	Name of Activity	Name and Address of resource person	Contact Details	Organized for
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1	20/9/2022	Seminar	Seminar on "Higher Studies Opportunities and IELTS Examination"	Mr. Rahul Kamble Sr. IELTS Operation executive	9429371758	TE
2	23/9/2022	Seminar	Seminar on "Carrier Opportunities in the Armed Forces for Women"	GP CAPT. Sanjay Pethkar Dignitary Defence Academy	9449994003	SE
3	23/9/2022	Seminar	Seminar on "Carrier in IT Industry"	Mrs. Supriya Lande IANT Pvt.Ltd.	9325627273	SE, TE
4	10/11/2022	Seminar	Seminar on "Higher studies abroad with 100% scholarship"	Mr. Subhash Pol Business development Manager	91-20-41045333	SE
5	23/11/2022 24/11/2022	Workshop	Workshop on "Python Programming for machine learning"	Mr. Atul Wadkar Director, Algorithmic electronics, pune	9049301122	SE
6	25/02/2023	Webinar	Webinar on coding and aptitude	Aditya Wakodakar Corporate trainer seven sense pvt.ltd.	7022492155	TE
7	09/03/2023	Webinar	Webinar on coding and aptitude	Aditya Wakodakar Corporate trainer seven sense pvt.ltd.	7022492155	SE
8	3/11/2023	Webinar	Webinar on "Training of technical and soft skill demo"	Avinash Pathak Corporate trainer Carpe diem Boot camp	7875437744	TE
9	3/21/2023	Webinar	Webinar on "Training demo on coding and aptitude"	Mr. Sachin Satpute Corporate trainer Eduplus pvt.ltd	8956319404	TE
10	3/24/2023	Webinar	Webinar on "Coding Super Power: Go Easy with C++ and Logic Building"	Bhakti Jagtap Director, BrightSea Technology OPC Private Limited	7796208181	SE

11	16th Oct 2022	Webinar	Webinar on "Data visualization using Qlik Sense"	Mrs. Sumitra Pundlik , MIT, Pune	8669173315	SE, TE
12	4th March 2023	Webinar	Webinar on "Spring Framework of Java"	Apurva Kulkarni Software Developer at LTI - Larsen & Toubro Infotech, Pune	9028705123	TE
13	21st March 2023	Seminar	Seminar on "Cloud Computing and Web Hosting Services"	Mr. Mayur Shah, Head Technology (Maintenance), Bharati Vidyapeeth ,Pune.	9604680002	TE BE

51. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The attainments levels are determined by direct (student performance) and indirect (surveys) assessment methods.

Direct Assessment:

Process for Direct Assessment Method is as follows:

Course Outcome (CO) Attainment:

- Attainment level is measured in terms of student performance in internal examinations with respect to Course Outcomes of a course and university examinations.
- Target is stated as the average marks in the corresponding examination for last three years.
- Attainment levels are defined as follows:
 - Level 0: Less than 50% of students scoring more than set target marks.
 - Level 1: 40% of students scoring more than set target marks.
 - Level 2: 50% of students scoring more than set target marks.
 - Level 3: 60% of students scoring more than set target marks.

- Attainment is measured in terms of actual percentage of students getting set percentage of marks.
- CO attainment is calculated by assigning 80% weightage to university examination and 20% weightage to internal assessment.

Program Outcome (PO) and Program Specific Outcome (PSO) Attainment:

- A particular PO/PSO is mapped to all COs of a course by considering correlation levels 1, 2 and 3 as defined below:
 - 1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)
- Direct attainment level of PO and PSO is determined by considering all courses and hence CO attainment addressing that PO/PSO.

Indirect Assessment

Process for Indirect Assessment Method is as follows:



- Surveys such as Exit survey, Alumni survey, External examiner survey, Project examiner survey, Question paper survey, Employer survey and Parent survey are considered in the indirect method, which contributes to the attainment of POs and PSOs.
- These give an idea about the strengths and weaknesses of program, thus providing a basis for revision of Pos and PSOs.

Overall PO/PSO Attainment

- PO/PSO attainment level is based on attainment levels of direct assessment and indirect assessment.
- PO/PSO attainment level is determined by assigning 75% weightage to direct assessment and 25% weightage to indirect a assessment.

52. Highlight the Special facilities (if, any) of the Department.

- Wi-Fi facility.
- Departmental Library.
- Lecture Monitoring System (LMS) is used at college level
- ICT based facilities are used by all the faculties. The syllabus related content is uploaded on the ICT portal of the college.
- Department has young and highly motivated faculties with good academic experience
- Department has excellent student to teacher ratio as per AICTE norms.

53. Highlight the unique features of the department.

- Strong industry institute interaction.
- Provide exposure to the student by continuous interaction with experienced alumna.
- CESA Plays an important role in developing personality among the students by conducting various activities such as seminar, workshop, expert lecture etc.
- Department encourages the staff members for quality improvement programs including participation in various national & international conference, workshop, seminars, short term training programs and faculty development programs.
- The department library provides facilities for reference books, text books, seminar reports & project reports.

54. State the Innovative practices adopted in the department..

Teaching innovation is the process of coming up with new ideas, theories, collaboration and solutions that can be shared in the classroom. Components of innovation are creative, diverse, collaborative, and perceptive learning. Creative efforts are followed by the teacher to bring out the innovation in the classroom. Experienced faculties have come out from the traditional way of teaching and learning (chalk & talk) and adopted innovative and creative approaches. Innovative methods used are as follows:

- **E-learning :** In order to implement flipped classroom activities, faculty members have created courses on Google Classroom, Myexamo, and WordPress. These platforms offer a vast array of e-learning resources at various cognitive levels, including multiple choice question quizzes, assignments, practical write-ups, question banks, animations, and video lectures. Additionally, they provide numerous avenues for student interaction, such as discussion forums and chat forums.
- **Interactive learning:** Faculty have designed quizzes & crossword puzzles to test progress of students. Faculty facilitate methodologies such as group interactions and role plays among the students to make learning interactive. Faculty members show animations, videos, 3D models in classrooms, pose a question to visualize and think on the topic. Students can pair and share their answers. Faculty design quizzes with use of Google form for MCQ questions and share score cards, aim of this activity is to evaluate students' understanding of the topic.
- **Problem based learning:** Faculty poses critical questions and conducts brainstorming sessions to develop their own logic & enlist the possible outcomes. The students undergo hands-on training for the latest software technology. Students work in groups to carry out mini projects for various subjects and Final year projects. Students take Seminar topics as per their interest and carry out work under the guidance of Faculty on the latest topic.
- **Cooperative learning:** Faculty encourage students to prepare and participate in paper presentation, project exhibitions, industrial visits, internships etc. For some of the courses students are instructed to prepare their write ups / Journals, charts in groups through the reference books. Mock interviews are conducted for third year Computer students by final year students placed through campus placement.
- **Project based learning:** Faculty from the Computer department guides students to explore and provide solutions for various real time problems. Project based learning is started from First year till Final year projects. Students design and develop projects based on current issues in the field of security, bio-medical, agriculture, etc using the latest tools, remote sensing and image processing.
- **Certification Courses:** Getting a professional certificate course boosts student's chances of getting a job in a reputed company and open up new career prospects, which is one of the main advantages of doing so. The computer department provided AWS certification courses and Oracle Academy courses to students.

55. Highlight the participation of students and faculty in extension activities.

- National Service Scheme (NSS)
- Tree Plantation
- Industrial Visits
- Seminars and Workshops.
- Short Term Course on Cloud Computing.
- CSI Student Chapter.
- FSAI



56. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

a. Strengths:

1. Student centric process (Guardian Faculty Member, Mentor).
2. Conducive working and Learning leading to faculty and staff retention
3. Good Infrastructure Facility with well-equipped laboratories and classrooms.
4. Encouraging environment for students and faculty for participating in technical and social activities.
5. Effective academic monitoring leads improvement in student performance.
6. Co-curricular activities like NSS, student's association lead to overall development of students.
7. Improved aptitude and communication skill of students.

b. Weakness:

1. Lack of consultancy project.
2. Improvement in aptitude and communication skill of students.
3. Less research publication in Scopus or web of science citation.
4. MoUs with institute need to be improved.

c. Opportunity:

1. Promoting industrial training to staff.
2. Contribution in conducting Faculty Development Programme. Short Term Training
3. Programme, Conference
4. Increase external funding for projects, FDP's, and conferences through various funding agencies.
5. Conduction of value added technical certifications for the students. Promoting interdisciplinary projects.
6. Better quality publication with peer reviewed journals

d. Challenges:

1. Promoting consultancy, sponsored project And MOUs from industry.
2. Centre of excellence for latest industrial technology.
3. Training the major hub of students coming from rural background.

57. Future plans of the department:

a. Long term plans-

1. P.G. Programme
2. Foreign language programme.

3. Continuous efforts for enhancing employability of students.

b. Short term plans-


1. Improve Industry institute interaction through student internships project, corporate social responsibility activities.
2. Capacity building programmes for staff to be conducted to improve teaching learning process.
3. Understand Information & communication technologies various tools & resources to upgrade teaching process.
4. Research proposals to get grants from AICTE/ SPPU etc.
5. Interaction with alumni to understand & create professional environment among students which will help in capacity building
6. Conduction of value addition programme for technical up gradation of students & making them employable.

Declaration by the Head of the Department/Institution:

I am aware that the above information provided by the department will be validated by the AAA committee during the visit.


Head of Department


IQAC Coordinator


Principal
Bharati Vidyapeeth's
College of Engineering for Women
Pune-Satara Road, Pune-411043.

Date:





**Bharati Vidyapeeth's College of Engineering for Women, Dhankawadi,
Pune-411043**

IQAC/ /2024
Date:10/1/2024

**INFORMATION FOR ACADEMIC AND ADMINISTRATIVE AUDIT OF
THE DEPARTMENT**

Year – 2023-24

(Provide information for one year from 2022-2023)

- 1. Name of the Department: Information Technology**
- 2. Year of establishment: 2000**
- 3. Courses offered: UG,**

Year	UG
2022-2023	60

- 4. Courses introduced during last 4 years:**

Sr. No.	Name of Subject	Subject Code	Date of Introduction
1	Information and Storage Retrieval	414441	18/06/2022
2	Software Project Management	414442	18/06/2022
3	Deep Learning	414443	18/06/2022
4	Elective III: Mobile Computing	414444	18/06/2022
5	Elective IV: Introduction to DevOps	414445	18/06/2022
6	Lab Practice III	414446	18/06/2022
7	Lab Practice IV	414447	18/06/2022
8	Project Stage-I	414448	18/06/2022
9	Audit Course - VII (English for Research Paper Writing)	414449C	18/06/2022
10	Distributed Systems	414450	18/06/2022
11	Elective V: Social Computing	414451	18/06/2022



11	Elective VI:Blockchain Technology	414452	18/06/2022
12	Startup and Entrepreneurship	414453	18/06/2022
13	Lab Practice V	414454	18/06/2022
14	Lab Practice VI	414455	18/06/2022
15	Project Stage II	414456	18/06/2022
16	Audit Course – VIII (Constitution of India)	414457C	18/06/2022

5. DoesthedepartmenthaveAcademicflexibility? If yessincewhen?

Yes. The department offers choice-based elective subjects to final-year students since A.Y. 2004

6. Interdisciplinary programsofferedanddepartmentsinvolved:

NIL

7. CoursesconductedincollaborationwithotheruniversitiesandInstitutions:

Sr.No.	Course Name	Collaborating Organization	Duration	A.Y.
1	Learning track for Internship and Placement	Link-Code Technologies	1 hr.	2022-23
2	Programming in multilayer neural network model	Bharat Soft Solutions Pvt. Ltd.	One day workshop	2022-23
3	Internship opportunities in advanced IT Trends	Passion Infotech	2hrs.	2022-23
4	Extra steps for getting placed quickly	QJ Technologies	1hrs	2022-23
5	Careers in Information Technology	Swaptechnobiz, Pune		2022-23
6	Current Trends in the Industry	KasNet Technologies Pvt Ltd.		2022-23
7	Introduction to Angular	Link-Code Technologies	1hr.	2022-23
8	Master in Front End Development Using Angular	Link-Code Technologies	30hrs.	2022-23
9	Why Python Programming is a Future Skill for Every Learner	9Ledge Pro	1hr.	2022-23
10	Industry Requirements for landing a good job	QJ Technologies	1hr.	2022-23
11	CICD with Docker and Kubernetes	Veritas Software	2hrs	2022-23

		Technologies India Private Ltd.		
12	How to plan for Start-up	Passion Infotech	1 hr.	2022-23
13	Entrepreneurship and Innovation	Passion Infotech	1 and ½ hrs	2022-23
14	Internship on Generative Artificial Intelligence and Google data studio	Passion Infotech	6 Months	2022-23
15	Introduction to Arduino and Raspberry pi	Algorithmic Electronics	1hr.	2022-23
16	Drupal- Content Management System	Qset Technologies	2hrs	2022-23
17	BE Major Project	Veritas Software Technologies India Private Ltd.	1 year	2022-23

8. Details of programmes discontinued, if any, with reasons:
Nil

9. Examination System: Annual/Semester/Choice Based Credit System/Credit and Grading system/ any other system, specify:
Credit and Grading System for S.E. T.E. and B.E. students.

10. Participation of the department in the curriculum development for courses offered by the Departments.

Sr. No.	Name of the Faculty	Curriculum Development Details	Academic Year
1	Prof. Dr.K.A.Malgi	Coordinator for Syllabus Revision of BE-IT (2019 Course) SEM - I for the subject "Software Project Management".	2022-23
2	Prof. A. D. Khairkar	Member for Syllabus Revision of BE-IT Revised Syllabus (2019 Course) SEM - I for the subject "Deep Learning" and "Lab Practice - IV"	2022-23
3	Prof. A. D. Khairkar	Member for Syllabus Revision of BE-IT Revised Syllabus (2019 Course) Sem -I for the subject "E-IV : Introduction to DevOps"	2022-23
4	Prof. N.A.Mulla	Member for Syllabus Revision of (BE Information Technology of Engineering Course 2019 Sem -II for the subject "Elective-VI: Blockchain Technology"	2022-23



11. Does the department have different syllabus than the one used by university for UG and PG courses?
The institute is affiliated to SPPU and follows the syllabus as prescribed by the University.

12. Number of teaching posts sanctioned, filled and vacant.

Designation	Sanctioned	Filled	Filled under CAS
Professor	01	01	-
Associate Professor	02	01	-
Assistant Professor	06	09	-
Total	09	11	-

13. Faculty profile with name, qualification, designation, experience, nature of appointment (confirmed/probation/temporary):

Name of Staff	Designation	Qualifications	Teaching / Research Experience	Nature of appointment
Prof. Dr. D. A. Godse	Professor	Ph.D. (Comp. Engg.)	31 years, 3 months	Confirmed
Prof. K. B. Naik	Associate Professor	Ph.D. (Pursuing)	21 years, 5 months	Confirmed
Prof. S. B. Dhuttargi	Assistant Professor	M.E. (Comp.)	24 years, 6 months	Confirmed (resigned on 30 th March, 23)
Prof. M. A. Rane	Assistant Professor	M.Tech. (Comp.)	17 years, 4 months	Confirmed
Prof. S. A. Sagar	Assistant Professor	M.E. (Comp)	17 years	Confirmed
Prof. S. A. Hadke	Assistant Professor	M.E. (IT)	17 years, 4 months	Confirmed
Prof. A. D. Khaikar	Assistant Professor	M.Tech. (Comp.)	15 years, 5 months	Confirmed



Prof. A. V. Kanade	Assistant Professor	M.Tech. (IT)	15 years, 5 months	Confirmed
Prof. S. S. Thite	Assistant Professor	Ph.D (Pursuing)	14 years, 5 months	Confirmed (resigned on 28 th Feb,23)
Prof. N. A. Mulla	Assistant Professor	Ph.D (Pursuing)	14 years, 1 month	Confirmed
Prof. K. V. Patil	Assistant Professor	M.Tech. (Comp)	7 year	Confirmed

14. List of Visiting Fellows/Teachers, Adjunct and Emeritus Professors, (for last 4 years).

Sr. No.	Name of Faculty	Status of Faculty	A.Y
1	Ms. Vaishnavi Harale	Visiting Faculty	2022-23 SEM-II

15. Percentage of classes taken by temporary/visiting faculty (programme-wise information):

Sr. No.	Percentage of Lectures delivered	Percentage of practical classes handled	A.Y
1	1.67	6.70	2022-23 SEM II

16. Programme-wise Student Teacher Ratio: (Average of 4 Years)

A.Y.	Student Teacher Ratio
2022-23	22:1

17. Number of academic support staff (technical) and administrative staff sanctioned, filled and vacant:

Nil

Sr. No.	Posts	Filled
1	Laboratory Assistant	01
2	Clerk (office)	01
3	Laboratory Attendant	-
4	Peon	01
5	Other	-



18. Thrust areas of research as identified by the department:

Artificial Intelligence, Cloud Computing, Machine Learning, Deep Learning Networking, Big Data, IoT

19. Information about research grants, projects completed and ongoing during the period of last 4 years

a) From National funding agencies (like UGC, CSIR, DST, DBT etc):

Sr. No.	Name of the Principle Investigator (CO-investigator)	Title of the Project	Funding Agency, Duration & date of sanction	Amount (in Lakh)	Remarks if any
1	Prof. Dr. Sandip Thite	Phd in topic Design and	Ministry of Electronics and	2.5	

20. Funds received at Departmental level through DST-FIST; CSIR, UGC SAP/CAS, DAE, DBT, BRNS, ICSSR, AICTE,

21. Research facilities available in the department and recognition received, if any?

22. Special research laboratories sponsored by/created by industry or corporate bodies.

Nil

23. Publications:

Sr. No.	Papers published in peer reviewed journals	Monographs, Books, Chapters in books	Citations	h-index	Impact factor range/Average Impact factor
1	18	3			

Sr. No.	Name of the Author(s)	Complete Title of the Article	Title of the Journal
1	Prof. Kamlesh V. Patil	A Study Paper: NCPR Reducing Path-Discovery overload in Mobile Adhoc Networks	NeuroQuantology
2	Dr. Deepali A. Godse	Evaluation of Delay Parameter of MQTT Protocol	International Journal of Engineering Trends and Technology
3	Dr. Deepali A. Godse	Auto-detection of Optic Disc in Retinal Image using Transfer Learning Technique	IEEE Xplore
4	Swati A. Sagar	The Automated Screening of Ultrasound Images for Nuchal Translucency using Auxiliary U-Net for Semantic Segmentation	Proceedings of the 17th INDIACom; 2023 10th International Conference on Computing for Sustainable Global Development, INDIACom 2023
5	Swati A. Sagar	Energy audit and Energy conservation potential of Medical College	International Conference on Green Energy 2023



6	Prof.S. A. Hadke	ALERT GENERATION ON DETECTION OF SUSPICIOUS ACTIVITY USING DEEP LEARNING	Journal of the Maharaja Sayajirao University of Baroda
7	Prof.S. A. Hadke	CROP RECOMMENDATION BASED ON SOIL ANALYSIS USING DEEP LEARNING	Journal of the Maharaja Sayajirao University of Baroda
8	Prof. M. A. Rane	TECHNET BVCOEW COMMUNITY - Web Portal	Journal of Engineering, Computing and Architecture
9	Prof. M. A. Rane	OPERATING VIRTUAL MOUSE AND KEYBOARD USING GESTURES RECOGNITION	Journal of Emerging Technologies and Innovative Research
10	Prof.A.D.Khairkar	Algorithmic Trading Using Machine Learning Techniques	Journal of Emerging Technologies and Innovative Research
11	Prof. A. D. Khairkar	Expeditious Smoke and Fire Detection System using Deep Learning	Journal of the Maharaja Sayajirao University of Baroda
12	Prof. Ashwini V. Kanade Prof. Ashwini D. Khairkar	Speech Sentiment Prediction using Deep Learning	Journal of the Maharaja Sayajirao University of Baroda
13	Swati A. Sagar	Software Defect Prediction Using Machine Learning Algorithm	Journal of the Maharaja Sayajirao University of Baroda
14	Swati A. Sagar	Alzheimer's Disease Detection Using Machine Learning Technique	Journal of the Maharaja Sayajirao University of Baroda
15	Dr. KetakiNaik	Music Recommendation System Using Sentiment Analysis	Multidisciplinary Journal of Research in Engineering and Technology
16	Dr. KetakiNaik	Smart Bus Pass System	Multidisciplinary Journal of Research in Engineering and Technology
17	Dr. Deepali A. Godse,	Review on Steganography and Cryptography	Elsevier, Ecosystem Services
18	Sonali Dhuttar gi	Elite Vehicle Controller: Drunk Driving Detection with Vehicle Ignition Locking Using GSM	International Journal for Research in Applied Science & Engineering Technology (IJRASET)
19	Ashwini Kana de	Data De-Duplication Engine for Efficient Storage Management	International Research Journal of Engineering and Technology (IJRET)



20	SeemaHadke	SYSTEM TO DETECT MENTAL STRESS USING MACHINE LEARNING AND MOBILE DEVELOPMENT	International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE)
21	SeemaHadke	DETECTION OF PHISHING WEBSITES USING MACHINE LEARNING	International Journal of Advanced Research in Computer and Communication Engineering(IJAR CCE)

24. Details of patents filed & granted and income generated:

Prof. K. V. Patil has published a Patent on "The Classification technique for the face spoof detection in artificial neural networks using the concept of machine learning" dated 25/11/2022, (Appln. Id: 202221066095).

Prof. K. V. Patil has published a Patent on "The Heart disease prediction using technique of classification in machine learning using the concepts of data mining" dated 30/12/2022, (Appln. Id: 202211073508).

25. Consultancy services provided, name of the teacher/s and income generated:

Nil

26. Details of teachers invited as resource persons for Refresher courses, Orientation courses, Seminars, Workshops, Conferences at national and international levels.

University Level

Sr. No.	Year	Name of the Teacher	Title of the Program	Date	Duration
1	2022-23	Prof. Dr. K. A. Malgi	Resource Person for faculty orientation programme on "Software Project Management" (BE IT-2019 Course)	25th July 2022	One day
2		Prof. A. D. Khairkar	Resource Person for faculty orientation programme on "Deep Learning and LP-IV" (BE IT-2019 Course)	28th July 2022	One day
3		Prof. A. D. Khairkar	Resource Person for faculty orientation programme on "E-IV (Introduction to DevOps)" (BE IT-2019 Course)	30th July 2022	One day
4		Prof. S. S. Thite	Resource Person for faculty orientation programme on "Augmented and Virtual Reality" (BE IT-2019 Course)	9th February 2023	One day



5		Prof. N.A.Mulla	Resource Person for faculty orientation programme on "Blockchain Technology and LP-VI" (BE IT-2019 Course)	8th February 2023	One day
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27. Details of teachers participated in Refresher courses, Orientation courses, Seminars, Workshops, Conferences at national and international levels. (participant, presented paper, chaired the session)

Year	Sr. No.	Name of Teacher who attended	Title of the Professional Development Program	Dates (from-to)	Duration
2022-23	1	Prof. Dr. D. A. Godse	1. One Day Iyengar Yoga Workshop	11th January 2023	One Day
	2		2. EDU YOUTH MEET	4th Feb. 2023	One Day
	3		3. Research Methodology: The Practical Approach	24th April 2023 to 28th April 2023	Five Days
	4		4. Preparing for NBA Accreditation	24th May 2023	One Day
	5		5. Research Trends in Data Computing and Machine Learning	22nd May 2023 to 26th May 2023	Five Days
	6	Prof. Dr. K.A. Malgi	1. Online One Day Faculty Orientation Program on BE-IT Revised Syllabus (2019 Course) SEM - I for the subject "Software Project Management".	25th July 2022	One Day
	7		2. One Day Iyengar Yoga Workshop	11th January 2023	One Day



	8		3.EDU YOUTH MEET	4th Feb.2023	One Day
	9		4.Innovation Ambassador Training of Advance Level in online mode by MoE's Innovation Cell and AICTE for 30 contact hours.	22nd Feb.2023 to 20th March 2023	One Month
	10		5.Faculty Diploma Program in Machine Learning and Data Science with Python	25th Feb. 2023 to 1st April 2023	One Month
	11	Prof S.B. Dhuttargi	1.Faculty Development Program on Recent Trends in Computation	18th July 2022 to 23rd July 2022	Six Days
	12		2.Online Workshop on Intellectual Property Rights (IPR) & Patents and Design filing	21st July 2022	One Day
	13		3.NPTEL Online Certification for the course "Distributed System"	25th July 2022 to 25 Sept. 2022	Two Months
	14		4.Five Days Workshop on "Machine Learning using Python"	13th October 2022 to 17th October 2022	Five Days
	15	Prof. M. A. Rane	1. Online One Day Faculty Orientation Program on BE-IT Revised Syllabus (2019 Course) SEM - I for the subject "Deep Learning" and "Lab Practice - IV"	30th July 2022	One Day
	16		2. One Week Online FDP on "Fundamentals of DevOps"	23rd August 2022	Five Days



				to 27th August 2022	
	17		3. One Week Online FDP on "DEEP LEARNING WITH PYTHON"	19th Sept.20 22 to 24th Sept. 2022	Seven Days
	18		4.EDU YOUTH MEET	4th Feb.202 3	One Day
	19		5. FDP on Effective Teaching	15th Feb. 2023 to 17th Feb. 2023	Three Days
	20		6. One Day Faculty Orientation Programme on BE-IT Revised Syllabus (2019 Course) Sem -II for the subject "Distributed Systems and Lab Practice - V"	11th Feb 2023	One Day
	21		7. One Week Online FDP on "Augmented and Virtual Reality"	20th Feb.202 3 to 24th Feb. 2023	Five Days
	22		8. One Week Online FDP on "Blockchain Technology and it's Use cases"	20th March 2023 to 25th March 2023	Six Days
	23		9. FDP on Data Science and ChatGPT	15th May 2023 to 19th May 2023	Five Days



24		Prof. S. A. Sagar	1. Five Days FDP on Data Science : Tools and Research	1 Nov. 2022 to 5 Nov. 2022	Five Days
25			2. Faculty Development Program on "Machine Learning"	7th Dec. 2022 to 11th Dec. 2022	Five Days
26			3. EDU YOUTH MEET	4th Feb. 2023	One Day
27			4. Five Days FDP on "Deep Learning Application Development, tools and Research"	28th Feb. 2023 to 4th March 2023	Five Days
28			5. National Level One Week Online Faculty Development Program on "Research Methodology: The Practical Approach"	24th April 2023 to 28th April 2023	Five Days
29			6. Presented paper "Software Defect Prediction Using Machine Learning Technique" in Multidisciplinary International Conference on Recent Trends in Science, Technology, Engineering & Mathematics (MICRT-STEM 2023)	25th Apr. 2023 to 26th Apr. 2023	Two Days
30			7. Participated in internal conference on Green Energy 2023	16th May 2023 to 17th May 2023	Two Days
31		Prof. S. A. Hadke	1. One Week Faculty Development Program on "Recent Trends in Computations"	18th July 2022 to 23rd July 2022	Six Days



32		2. Online Workshop on Intellectual Property Rights (IPR) & Patents and Design filing	21st July 2022	One Day
33		3. Online One Day Faculty Orientation Program on BE-IT Revised Syllabus (2019 Course) SEM - I for the subject "Elective-III: High Performance Computing"	29th July 2022	One Day
34		4. One week International Level Faculty Development Program On "Amazon Web Services"	22nd August 2022 to 27th August 2022	Six Days
35		5. Five Days Workshop On "Machine Learning Using Python"	13th October 2022 to 17th October 2022	Five Days
36		6. Five Days Online International Level FDP on "Data Science using Machine Learning"	2nd January 2023 to 6th January 2023	Six Days
37		7. Five Days STTP on "Emerging Technological Advancements and Practical Applications of Data Science"	16th January 2023 to 20th January 2023	Five Days
38		8. EDU YOUTH MEET	4th Feb. 2023	One Day
39		9. One Day Faculty Orientation Programme on BE-IT Revised Syllabus (2019 Course) Sem -II for the subject "Start-up and Entrepreneurship"	13th Feb 2023	One Day
40		10. FDP on Effective Teaching	15th Feb.	Three Day



					2023 to 17th Feb. 2023	
	41			11. Presented paper " Crop Recommendation Based on Soil Analysis using Deep Learning" in Multidisciplinary International Conference on Recent Trends in Science, Technology, Engineering & Mathematics (MICRT-STEM 2023)	25th Apr. 2023 to 26th Apr. 2023	Two Days
	42			12. Presented paper " Alert Generation on Detection of Suspicious Activity Using Deep Learning" in Multidisciplinary International Conference on Recent Trends in Science, Technology, Engineering & Mathematics (MICRT-STEM 2023)	25th Apr. 2023 to 26th Apr. 2023	Two Days
	43		Prof. A. D. Khairkar	1.One Day Online FOP on "E-IV : Introduction to DevOps"	28th July 2022	One Day
	44			2.Online One Day Faculty Orientation Program on BE-IT Revised Syllabus (2019 Course) SEM - I for the subject "Deep Learning" and "Lab Practice - IV"	30th July 2022	One Day
	45			3. One Week Online FDP on "Fundamentals of DevOps"	23rd August 2022 to 27th August 2022	Five Day
	46			4.One Week Online FDP on "DEEP LEARNING WITH PYTHON"	19th Sept. 2022 to 24th Sept. 2022	Six Days
	47			5.Day's Online International Level Faculty Development Program on	2nd January 2023	Five Days



			Data Science using Machine Learning	to 6th January 2023	
	48		6. One Day Iyengar Yoga Workshop	11th January 2023	One Day
	49		7. EDU YOUTH MEET	4th Feb. 2023	One Day
	50		8. One Day Faculty Orientation Programme on BE-IT Revised Syllabus (2019 Course) Sem -II for the subject "Start-up and Entrepreneurship"	13th Feb 2023	One Day
	51		9. One Week Online FDP on "Augmented and Virtual Reality"	20th Feb. 2023 to 24th Feb. 2023	Five Days
	52		10. Presented paper in Multidisciplinary International Conference on Recent Trends in Science, Technology, Engineering & Mathematics (MICRT-STEM 2023)	25th Apr. 2023 to 26th Apr. 2023	Two Days
	53		11. Presented paper "Expedition Smoke and Fire Detection System Using Deep Learning" in Multidisciplinary International Conference on Recent Trends in Science, Technology, Engineering & Mathematics (MICRT-STEM 2023)	25th Apr. 2023 to 26th Apr. 2023	Two Days
	54	Prof. A.V.Kanade	1. Five Days Face to Face UHV-II FDP	2nd Aug 2022 to 6th Aug. 2022	Six Days
	55		2. Five Days FDP on Data Science : Tools and Research	1st Nov. 2022 to 5th Nov. 2022	Five Days



56		3. AICTE Training And Learning (ATAL) Academy Blended/Hybrid FDP on "Emerging Trends in Data Science and Analytics"	31st Oct.2022 to 11th Nov. 2022	Twelve Days
57		4. Five Day's Online International Level Faculty Development Program on "Data Science using Machine Learning"	2nd January 2023 to 6th January 2023	Five Days
58		5.EDU YOUTH MEET	4th Feb.2023	One Day
59		6. One Day Faculty Orientation Programme on BE-IT Revised Syllabus (2019 Course) Sem -II for the subject "Start-up and Entrepreneurship"	13th Feb 2023	One Day
60		7. Five day workshop on the "Research Methodology and Publication Ethics"	21st Feb. 2023 to 25 th Feb.2023	Five Days
61		8. Presented paper"Speech Sentiment Prediction using Deep Learning" in Multidisciplinary International Conference on Recent Trends in Science, Technology, Engineering & Mathematics (MICRT-STEM 2023)	25th Apr. 2023 to 26th Apr. 2023	Two Days
62	Prof. S. S. Thite	1.The Fundamentals of Digital Marketing	10th August 2022 to 15th August 2022	Six Days
63		2.General Course of Intellectual Property	20th Sept. 2022 to 3rd	One Month Thirte



				Nov. 2022	en Days
	64		3.EDU YOUTH MEET	4th Feb.2023	One Day
	65	Prof. N.A.Mulla	1.FDP on Data Science: Tools & Research	1st Nov. 2022 to 5th Nov. 2022	Five Days
	66		2.EDU YOUTH MEET	4th Feb.2023	One Day
	67		3.Faculty Orientation Program (FOP) on BE Information Technology of Engineering Course 2019 Syllabus Orientation Programme- "Elective-VI"	8th February 2023	One Day
	68		4.FDP on Research Methodology: The Practical Approach	24 April 2023 to 28 April 2023	Five Days
	69		5.FDP on Research Trends in Data Computing and Machine Learning	22nd May 2023 to 26th May 2023	Five Days
	70	Prof. K.V.Patil	1. Five Days Face to Face FDP UHV-II	2nd Aug. 2022 to 6th Aug. 2022	Five Days
	71		2.EDU YOUTH MEET	4th Feb.2023	One Day
	72		3. One Day Faculty Orientation Programme on BE-IT Revised Syllabus (2019 Course) Sem -II for the subject "Social Computing"	7th Feb. 2023	One Day



	73		4. One Day Faculty Orientation Programme on BE-IT Revised Syllabus (2019 Course) Sem -II for the subject "Distributed Systems and Lab Practice - V"	11th Feb. 2023	One Day
	74		5.FDP on Effective Teaching	15th Feb. 2023 to 17th Feb. 2023	Two Days
	75		6. FDP on Data Analytics using power BI	20th March 2023 to 24th March 2023	Five Days
	76		7. FDP on Data Science and ChatGPT	15th May 2023 to 19th May 2023	Five Days

28. Participation of teachers in various academic activities as members of committees at University level, State level, National level, International level bodies. (give details)

University Level

Academic Year	Name of the staff member	Name of the body in which full time teacher participated	Total no. of Teachers
2022-23	Prof. Dr.K.A.Malgi	1.Chairman for Paper setting of " Software Project Management " B.E. IT (2019 Course) for Insem Exam	6
		2.Chairman for Paper setting of " Software Project Management " B.E. IT (2019 Course) for Endsem Exam	
		3.Paper Setter for Artificial Intelligence TE IT 2019 Course EndSem Exam	



		4.Paper Setter for Artificial Intelligence TE IT 2019 Course Insem Exam	
		5.Chairman for Paper setting of " Software Project Management " B.E. IT (2019 Course) for Endsem Exam	
		6.Paper Setter for Artificial Intelligence TE IT 2019 Course EndSem Exam	
	Prof. M. A. Rane	1.Paper setter for Discrete Mathematics SE IT 2019 Course InSem	
		2.Paper setter for Discrete Mathematics SE AIML 2019 Course InSem	
		3.Paper setter for Discrete Mathematics SE IT 2019 Course EndSem	
		4.Paper setter for Discrete Structures SE IT 2015 Course EndSem	
		5.Paper setter for Discrete Mathematics SE AIML 2019 Course EndSem	
		6.Paper setter for Discrete Mathematics SE IT 2019 Course EndSem	
		7.Paper setter for Discrete Structures SE IT 2015 Course EndSem	
		8.Paper setter for Discrete Mathematics SE AIML 2019 Course EndSem	
	Prof. S. A. Sagar	1.Paper Setter & Examiner for Paper- Processor Architecture (Theory) (Sem.-II) (214451), (2019 Pattern) SE 2019 EndSem Exam	



		2.Paper Setter & Examiner for Paper-Processor Architecture (Theory) (Sem.-II) (214451), (2019 Pattern) SE 2019 InSem Exam	
		3.Paper Setter & Examiner for Paper-Processor Architecture (Theory) (Sem.-II) (214451), (2019 Pattern) SE 2019 EndSem Exam	
	Prof. A. D. Khairkar	1. Paper Setter & Examiner INSEM Examination BE IT Nov-Dec 2022,Deep Learning (414443)(2019 course)	
		2. Paper Setter & Examiner ENDSEM Examination BE IT Nov-Dec 2022,Deep Learning (414443)(2019 course)	
		3. Paper Setter & Examiner INSEM Examination for E-IV(Intro. to DevOps) (414445) BE IT, 2019 Pattern Nov-DEC-2022	
		4. Paper Setter & Examiner ENDSEM Examination for E-IV(Intro. to DevOps) (414445) BE IT, 2019 Pattern Nov-DEC-2022	
	Prof. A.V.Kanade	1.Paper setter for Database Management System SE IT 2019 Course Endsem Exam	
		2.Paper Setter for Database Management System SE IT 2019 Course Insem Exam	
		3.Paper setter for Database Management System SE IT 2019 Course Endsem Exam	
	Prof. K.V.Patil	1.Paper setter for Social Computing BE IT 2019 Course InSem Exam	
		2.Paper setter for Social Computing BE IT 2019 Course EndSem Exam	

29.Detailsofteachersappointed/nominatedonEditorialBoardsatuniversity,state,nationaland internationallevels.

30.Awards /Prizes and recognitions received by teachers at university, state, nationalandinternational level:



31. Awards and Prizes received by students at university, state, national and international level:

Sr No.	Name of Student	Class	Staff/Guide Name	Name of Activity	Recognition/Award	Date	Organized By
1	Dhanashree Vaidya	BE	Prof. N.A. Mulla	Prakalp 2023 (Project Competition and Exhibition)	Secured third position	23 rd and 24 th Mar, 2023	Dept of IT under INNOVISION-2023- A National Level Techno-Social Symposium conducted by JSPM Group of Institutes Tathawade Campus, Pune.
2	Manavi Kambale	BE					
3	Isha Mishra	BE					
4	Prajakta Thorat	BE					
5	Bangar Sakshi	BE	Prof. M.A. Rane	NES Innovation Awards 2023	Qualified for 2nd round (Jury round) of NES Innovation Awards 2023 Qualified as one of the top 50 teams	07 th Apr, 2023	GTT Foundation
6	Gupta Garima	BE					
7	Gupta Ishika	BE					
8	Patange Sakshi	BE					
9	Rupali Dakore	BE	Prof. A.D. Khairkar	NES Innovation Awards 2023	Qualified for 2nd round (Jury round) of NES Innovation Awards 2023 Qualified as one of the top 50 teams	07 th Apr, 2023	GTT Foundation
10	Sakshi Kolte	BE					
11	Pragati Bhaklad	BE					
12	Janhavi Patil	BE					
13	Amina Khalid Shaikh	TE	-	Avinya 2023- Portfolio Building	1 st Prize	27 th and 28 th Apr, 2023	BVCOEW
14	Mhaske Kirti Dattatray	TE	-	MaTPO Aptitude Idol Test	Selected for 2nd round (Top 120) out of 35,000 students	29 th Apr, 2023	Maharashtra Association of Training & Placement Officers and DTE, Mumbai
15	Anam Wasim Bagwan	TE	-	Haktech Event (hackathon)	1 st Prize	27 and 28 th Apr, 2023	BVCOEW



16	GhanishtaRane	TE	-	Avinya 2023-TechTrix (Technical Quiz)	3 rd Prize	27 and 28 th Apr, 2023	BVCOEW
17	SmitiChandwadkar						
18	TruptiPacharne						
19	PudaleManasviDilip	SE	-	Sports (Handball)	Selected for Interzone Handball competition	13 th Nov, 2022	SavitribaiPhule Pune University
20	SejalPawar	TE	-	Felicitation Program by Skoda Auto Volkswagen in chakan under Lila Poonawalla Foundation Undergraduation Scholarship	Received a skoda watch by Skoda Auto Volkswag	10 th Oct, 2022	Lila Poonawalla Foundation
21	TruptiAnandaPacharne	TE	-	National level Intercollegiate GK Test 2023	Second rank with Rs. 4000/- as prize money	7 th Jan, 2023	YashwantraoMohite College of Arts, Science and Commerce, Erandwane, Pune-38
22	SejalPawar	TE	-	BMC MentoRing Sessions under Lila Poonawalla Foundation Undergraduation Scholarship	Certifate and Dell laptop received	8 th Mar, 2023	BMC Software
23	ShraddhaJadhav	TE	-	BMC MentoRing Sessions under Lila Poonawalla Foundation Undergraduation Scholarship	Certificate and Dell laptop received	8 th Mar, 2023	BMC Software
Scholarships Received							
Sr No	Student Name	Class	Scholarship Name	Organized By	Receiving scholarship since (e.g Oct 2019)	Duration of Scholarship (3 or 4 years)	Scholarship Amount
1	SimranSalu Dsouza	BE	Kiran Scholars	Persistent Foundation	Oct 2019	4 years	40000



			hip	Limited			
2	Snehal Balaji Gavali	BE	Lila Poonawalla Foundation Undergraduate Scholarship	Lila Poonawalla Foundation	2020	3 years	45000
3	Akanksha Ajit Patil	BE	Lila Poonawalla Foundation Undergraduate Scholarship	Lila Poonawalla Foundation	March 2020	3 years	45000
4	Ishika Gupta	BE	Cybage Khushboo Scholars hip	Cybage Software Private Limited	Sep-19	4 years	40000
5	Pudale Manasvi Dilip	SE	Kiran Scholars hip	Persistent Foundation	March 2022	4 years	40000
6	Shaikh Alnaaz Murtaja	SE	Lila Poonawalla Foundation Undergraduate Scholarship	Lila Poonawalla foundation	Feb 2021	4 years	55000
7	Apurva Nangare	SE	Lila Poonawalla Foundation Undergraduate Scholarship	Lila Poonawalla Foundation	2021 - 22 (Feb 2022)	4 years	50,000
8	Kirti Namdeo Pawar	SE	Lila Poonawalla Foundation Undergraduate Scholarship	Lila Poonawalla Foundation	2021	4 years	60000
9	Chaitali Rajesh Nigade	SE	Lila Poonawalla Foundation	Lila Poonawalla Foundation	2021	4 years	45000



			on Under-Graduation Scholars hip				
10	KarkandeRutujaVinod	SE	Lila Poonawalla Foundation on Undergr aduation Scholars hip	Lila poonawala foundation	Feb 2021	4 years	45000
11	PatilPrayujaShahaji	SE	Lila Poonawalla Foundation on Undergr aduation Scholars hip	Lila poonawala foundation	Mar 2022	4 years	30000
12	SanikaBhosale	SE	Lila Poonawalla Foundation on Undergr aduation Scholars hip	Lila Poonawala Foundation	Feb-21	4 years	45000
13	SamruddhiBhaskarShitole	SE	Lila Poonawalla Foundation on Undergr aduation Scholars hip	Lila Poonawala Foundation	Feb 2022	4 year	45000
14	PatilPallaviBhimrao	SE	Lila Poonawalla Foundation on Under Graduation Scholars hip	Lila Poonawala Foundation	Academic year 2021-22	4 years	45000
15	Das MayuriKantilal	SE	Lila Poonawalla Foundation	Lila Poonawala Foundation	2021	4 years	45000



			Undergr aduation Scholars hip				
16	SvarupaRam dasKadam	SE	Lila Poonawa lla Foundati on Undergr aduation Scholars hip	Lila Poonawala Foundation	2021	4 years	53000
17	MhaskeKirti Dattatray	TE	Lila Poonawa lla Foundati on Undergr aduation Scholars hip	Lila Poonawalla Foundation	March 2021	4 years	45,000
18	PawarJyoti	TE	Lila Poonawa lla Foundati on Undergr aduation Scholars hip	Lila Poonawalla Foundation	March 2021	4 years	45000
19	Samruddhi Vijay Divekar	TE	Lila Poonawa lla Foundati on Undergr aduation Scholars hip	Lila Poonawalla Foundation	2020	4 years	60000
20	ShraddhaRa mdasJadhav	TE	LillaPoo nawalla foundati on undergra duate scholars hip	LillaFirozPoo nawalla	2020- 2021	4 years	50000
21	AnamWasim Bagwan	TE	Lila Poonawa la - Under Graduati on Scholars hip	Lila Poonawala Foundation	February 2022	3 years	60000



22	Sejal Pawar	TE	Lila Poonawalla Foundation Undergraduate Scholarship	Lila Poonawalla Foundation	March 2021	4 years	50,000
23	Nikita Hemant Bankar	TE	Lila Poonawalla Foundation Undergraduate Scholarship	Lila Poonawalla Foundation	Feb 2020	4 years	60000
24	Utkarsha Kakade	TE	Lila Poonawalla Foundation Undergraduate Scholarship	Lila Poonawalla Foundation	Mar 2021	3 years	60000
25	Trupti Anand Pacharne	TE	Kiran girls scholars hip	Persistent Foundation	2020	4 years	40000
26	Sharwari Bhalerao	TE	Lila Poonawalla Foundation Undergraduate Scholarship	Lila Poonawalla Foundation	2020	4 years	60,000
27	Rutuja Sunil Chatur	TE	Lila Poonawalla Foundation Undergraduate Scholarship	Lila Poonawalla Foundation	March 2020	4 years	55000
28	Sanjivaninagathbulbule	TE	Lila Poonawalla Foundation Undergraduate Scholarship	Lila Poonawalla Foundation	Feb-21	4 years	60,000



			hip				
29	NamrataJadhav	TE	Lila Poonawalla Foundation Undergr aduation Scholars hip	Lila Poonawalla Foundation	March 2020	4 years	60000
30	Rutika Santosh Bhosale	TE	Lila Poonawalla Foundation Undergr aduation Scholars hip	Lila Poonawalla Foundation	2020-21	4 years	55000
31	VrushaliGaikwad	TE	Lila Poonawalla Foundation Undergr aduation Scholars hip	Lila Poonawalla Foundation	2020	4 years	60000

32. Details of Seminars/ Conferences/Workshops organized at university, state, national and international level and the source of funding with details:

Name of Conference/ Seminars/ Workshops	Funding agency	No. of Participants	University/State/National/ International	Dates

33. Student profile programme-wise at UG and PG

UG/PG	Applications Received	No. of students Admitted	Seats Available	Male	Female	Total	Year
BE (IT)	Not applicable since the admission process is as	64	60	00	64	6	2022-23



34. Year-wiseresultsofstudentsatUGandPG:

UG/PG	Year	Appeared	Passed	Pass %	Grade%			
					O	A	B	C
BE(IT)	2022-23	81	80	98.75%	74 (92.5%)	6 (7.5%)	0 (0.0%)	0 (0.0%)

35.InformationaboutM. Phil. programme:

NA

36. InformationaboutPh. D.programme:

NA

37. NumberofstudentsawardedM.Phil.,Ph.D,Degree:

NA

38. Diversity of Students: (Year-wise)

Nameof the Programme	% of students from the same university	% of students from other universities withintheState	% of students from universities outside the State	% of students from other countries
UG	45 (70.31%)	18 (28.13%)	01 (1.56%)	00 (0.0%)

39.NumberofstudentsclearedCivilServicesandDefenseServicesexaminations, NET,SET, GATE andothercompetitiveexaminations? GiveCategorywisedata.

Year	MPSC/UPSC	NET/ SET	GATE	Other Exams	Total
2022-23	-	-	-	4	4

40. Student progression/ placement record: Number/ percentage of studentsproceededforhigherstudiesNumber/percentageofstudentsplaced:

Year	% proceededforhigherstudies		% of studentsplaced
	UGtoPG	PGtoPh.D./ M.Phil	
2022-23	0	0	45.68%

41. Diversity of Faculty:

Teaching faculty	%
fromthesameuniversity	09.10
fromother universities within theState	90.90
fromotherStates	00.00
fromoutside the country	00.00

42. Numberof faculty who wereawardedM.Phil.,Ph.D., D.Sc. /D.Lit.:

43. Present detailsofdepartmentalinfrastructural&otherfacilitieswithregardto

- CentralLibraryBooksandJournals, etc, relevanttoDepartment : 5522
- DepartmentalLibrary(books, journalsetc.) : 480
- ComputersandInternetfacilitiesforstaff : 13
- Totalnumber of classrooms : 2
- Classrooms with ICTfacility : 2
- Students' laboratory : 6



g) Research laboratories : Nil

h) Seminar hall : Nil

i) Smart classroom : 2

j) Any other facility LCDs, : 03

44. List of post-doctoral students and Research Associates
NIL

45. Number of post graduate students getting financial assistance from the university/state/central government
NA

46. Curricular Aspects:

a) Does the faculty take initiative in curriculum development process?
YES

b) Is the curriculum

suitable to make students globally competitive in the subject? If yes, substantiate.

Yes

Sr.No.	A.Y.	Name of the Student	Admitted To
	2022-23	NIL	NIL

c) Does the department offer a program with sufficient no. of electives options.
Yes

d) While framing curriculum, is feed-back taken from stakeholder's viz. Students/Alumni/Parents/Employers considered?

College is affiliated to Savitribai Phule Pune University (SPPU) hence while framing the curriculum, an analysis of the feedback taken from stakeholders, forwarded to the Board of Studies members of the IT department at Savitribai Phule Pune University.

e) What is the frequency of curriculum revision? (3/4/5 years or more)
3 Years

f) Does the curriculum have emerging thrust areas, including interdisciplinary areas? (If yes, elaborate).

Yes. Artificial Intelligence, Cloud Computing, Deep Learning, Big Data, IoT, Machine Learning

47. Teaching-Learning, Evaluation.

1) Number of teachers preparing & following Academic Teaching plan

2022-2023
11

2) How many teachers use the following teaching methods:



- a) Interactive lecture method using blackboard, Group discussions, Problem solving, Seminars.

2022-2023
11

- b) Use ICT method to support lectures.

2022-2023
11

- 3) Does the Department have Peer review processes? If yes, are the suggestions effectively used to improve the teaching quality?

Yes. A mentor is assigned for each course. The mentor conducts meetings to guide and take review of the peer before and during the conduct of the course. The suggestions given by the mentor are implemented by the mentee to improve the teaching quality. The department has an effective student feedback system at the end of every semester; the analysis of the feedback is used to improve teaching quality.

- 4) Does the department have any mechanism to ensure that entire syllabus is completed?

Yes, through academic monitoring and feedback system.

- 5) Do you offer Bridge/Remedial courses? If yes, Give details.

The course teacher interacts on a one-on-one basis to understand the difficulties faced by the student in her learning process. Course teacher conducts remedial lectures / practical sessions for slow learners and failures to improve their academic performance.

Guardian Faculty Member (GFM) communicates the student's academic performance to her parents, interacts with parents, and seeks their support in resolving the student's difficulties. Provide them with an additional set of questions and study material.

- 6) What is the method for conducting internal evaluation?

1. Unit Test I: This is conducted on the first two units of the course before the In-Sem examination, SPPU (TE & BE) / Online Examination (SE), SPPU.
2. Assignment I: Assignment I is based on unit 3 of the course and evaluation of the students is done through oral based on the Assignment Questions at the time of Assignment submission before the In-Sem examination of SPPU.
3. Unit Test II: This is conducted on the 4th and 5th Units of the course in the third week of March before the Term- End of SPPU.
4. Assignment II: Assignment II is based on Unit 6 of the course, and the evaluation of the students is done orally based on the assignment questions at the time of assignment submission before the term-end of SPPU.



5. Practical Courses: In these continuous progressive assessments are done through viva voce, presentations, reviews, mock practical conduction, mid-term submission, report submission and laboratory quiz.
6. Various co-curricular activities: In this component, problem solving, group discussions, quiz etc. are conducted and evaluated regularly.

48. Teacher Performance:

1) Whether the performance of the teacher is assessed by the students? If yes, are the feedback reports analyzed and suggestions communicated to teachers?

Whether the performance of the teacher is assessed by the students? If yes, are the feedback reports analyzed and suggestions communicated to teachers?
Yes.

A proper record of collected feedback is maintained and analyzed further for necessary actions.

2) Number of teachers getting students remark based on feedback

A. Y		Excellent	Very Good	Good	Average
22-23	Sem-1	09	02		
	Sem-2	11	-	-	-

3) Whether suggestion boxes are kept in the department to get suggestions from students on infrastructural facilities available in the department?

Yes

4) Are the suggestions received from students used for improvement of facilities?

Yes

5) Do teachers submit Self-Appraisal Reports? Are these reports appraised by HOD and forwarded to the management with comments?

Yes, these reports are appraised by HoD and forwarded to the Head of the Institute.

6) What is the individual faculty wise index?

7) Give detail of "beyond syllabus scholarly activities" of the department.

49. List the distinguished alumni of the department (maximum 10)

50. Give detail of student enrichment programmes (special lectures/workshops/seminar) involving external experts.

List of Events (2022-23)

Sr No.	Date	Type of Event	Name of the Activity	Name and Address of Resource person	Organized for and Duration
1	30/08/2022	Seminar	Programming Techniques	Mr. Nagesh Mhetre, Click in Computers	1 hr

2	07/09/2022	Seminar	Study Abroad Opportunities (Foreign Languages)	Mr. AnandBannatkar, ASAP (As Soon As Possible) Foreign Languages Institute	1 hr
3	16/09/2022	Seminar	Career opportunities in Indian Armed Forces for women-come join the team	Group Captain Sanjay Pethkar(Retd)	1 hr
4	16/09/2022	Seminar	Higher Studies Abroad and Further Opportunities and IELTS	Mr. YogeshRanga and Mr. Rahul Kamble Seminar on Programming Techniques SEIT Mr. NageshMhetre, Click in Computers 30/08/2022	1 hr
5	23/09/2022	Seminar	Career Opportunities in IT	Mr. Mohan Dhanve, IANT J. M. Road : Pune 1st Floor, LaxmiSadan, Opp. Kalmadi Petrol Pump, Above Arrow Showroom, J.M. Road Pune-411004	1 hr
6	14/10/2022	Seminar	How can students get 100% scholarship to study abroad	Mr. Subhash Pol, BDM, Edwise International, Pune	1 hr

51. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The attainments levels are determined by direct (student performance) assessment methods.

Direct Assessment:

Process for Direct Assessment Method is as follows:

Course Outcome (CO) Attainment:

Attainment level is measured in terms of student performance in internal examinations with respect to Course Outcomes of a course and university examinations. Target is stated as the average marks in the corresponding examination for the last three years.



Attainment levels are defined as follows:

Level 0: Less than 50% of students scoring more than set target marks.

Level 1: 50% of students scoring more than set target marks.

Level 2: 60% of students scoring more than set target marks.

Level 3: 70% of students scoring more than set target marks.

Attainment is measured in terms of actual percentage of students getting set percentage of marks.

CO attainment is calculated by assigning 60% weightage to university examination and 40% weightage to internal assessment.

Program Outcome (PO) and Program Specific Outcome (PSO) Attainment:

A particular PO/PSO is mapped to all COs of a course by considering correlation levels 1, 2 and 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

Direct attainment level of PO and PSO is determined by considering all courses and hence CO attainment addressing that PO/PSO.

Overall PO/PSO Attainment

PO/PSO attainment level is based on attainment levels by assigning 100% weightage to direct assessment

52. Highlight the Special facilities (if, any) of the Department.

1. Remedial lectures/practical is conducted for slow learners and failure students.
2. Certified courses related to basic and current technologies are provided for students.
3. Seminars on GATE, GRE preparation for higher studies are organized through ITech'SA student association.
4. Personality development activities are conducted through an audit course.
5. Opportunities to participate in national and international conferences are provided for students and staff.

53. Highlight the unique features of the department.

1. The laboratories are well equipped with the latest configuration machines, high speed internet, Wi-Fi facility and legal licensed software.
2. Modern aids such as Smart Board, LCD projector, and ICT tools are used for classroom teaching.
3. Robust networking facilities to support FE & SE online SPPU examination.
4. Excellent academic performance and achievements of our students are recognized by various multinational companies such as Microsoft, Accenture, TCS, Wipro, Zensar, Tech Mahindra etc. and recruit our students during campus placements with attractive salary packages.
5. Emphasis is given on hands-on experience by conducting Industrial visits to CDAC, Ergen Technology, Bahu's Entrepreneurship Cell of COEP.
6. Information Technology Students' Association (ITech'SA) plays an important role in developing personality among the students by conducting various activities such as



guest lectures by experts on personality development, soft skills, aptitude test preparation, career guidance etc.

7. The department has agreements with Microsoft IT academy (ATS Infotech) for .net and Link code Technologies for core and advanced Java courses.
8. Department encourages staff members for quality improvement programmes including participation in various national & international conferences, workshops, seminars, short term training programs and faculty development programs.
9. Department arranges Industry Institute Interaction programs to enhance employability.
10. The department library provides facilities for reference books, University question paper bank, seminar reports and project reports.

54. State the Innovative practices adopted in the department.

The following Innovative practices adopted in the department:

- a. E-learning
- b. Interactive learning
- c. Problem based learning
- d. Co-operative learning
- e. Project based learning

55. Highlight the participation of students and faculty in extension activities.

56. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) the department. of

a. Strengths:

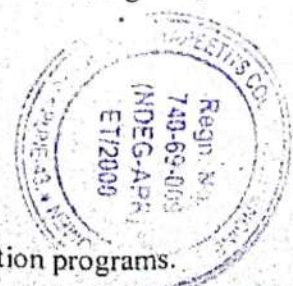
1. Qualified, experienced, and dedicated staff.
2. Well-equipped Laboratories.
3. Faculty members are involved in the design, development, and implementation of the curriculum in the Board of Studies of affiliating universities.
4. Effective use of ICT in the teaching-learning process.
5. Assistance by staff members for counseling and mentoring of the students.
6. Efficient Academic monitoring.
7. Encouragement to the students for implementing research projects.

b. Weaknesses:

1. Inadequate consultancy services.
2. Modest employability.
3. Few research publications in peer-reviewed international journals have a high impact factor.

c. Opportunities:

1. Promotion for Ph.D.
2. Conduction of FDP and STTP.
3. Organization of national/international conferences and value addition programs.



d. Challenges:

1. Better Placement in multinational companies
2. Establishing apprehension about employment opportunities in IT.
3. Promoting involvement in summer school.
4. Efficacious participation of alumni in strengthening the department.

57. Future plans of the department:

1. To promote patents.
2. Establish linkages with reputed industries.
3. Setting up a virtual laboratory for programming-based assignments.
4. Setting up a private academic CLOUD.

Declaration by the Head of the Department/Institution

I am aware that the above information provided by the department will be validated by the AAA committee during the visit.

F. Kamalgi
Head of Department

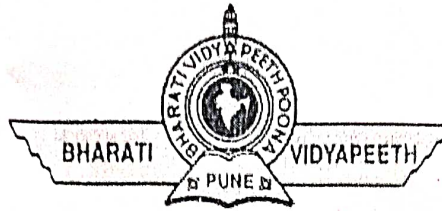
Date: 12/01/2024,

[Signature]
Prof. Dr. S.S. Chorage
(IQAC Co-ordinator)

[Signature]
Prof. Dr. S.R. Patil
(Principal)



I/C PRINCIPAL
Bharati Vidyapeeth's
College of Engineering for Women
Pune-Salara Road, Pune-411043.



**Bharati Vidyapeeth's College of Engineering for Women, Dhankawadi,
Pune-411043**

Date: 17/11/2022

**INFORMATION FOR ACADEMIC AND ADMINISTRATIVE AUDIT OF THE
DEPARTMENT**

Year – 2023-2024

(Provide information for last year 2022-23)

1. Name of the Department: **Engineering Sciences and Allied Engineering**
2. Year of establishment: **2000**
3. Courses offered: UG, PG, M. Phil., Ph.D., Integrated Masters

Year	UG
2022-23	240

4. Courses introduced during last 5 years:

- NIL

5. Does the department have Academic flexibility? If yes since when?

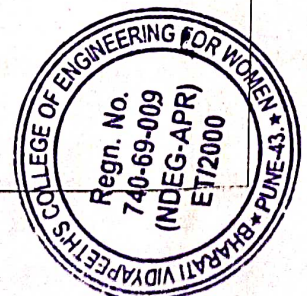
- NIL

6. Interdisciplinary programs offered and departments involved:

Sr. No.	Names of Interdisciplinary Courses	Year	Department Involved
1	Basic Electronics Engineering	2022-23	Electronics & Telecommunication
2	Programming and Problem Solving	2022-23	Computer Engineering & Information Technology

7. Courses conducted in collaboration with other universities and Institutions:

- NIL



8. Details of programmes discontinued, if any, with reasons:

- NIL

9. Examination System: Annual/ Semester/Choice Based Credit System/ Credit and Grading system/ any other system, specify:

Sr. No.	Programme Name	System Pattern
1	UG	(Semester/Credit and Grading system) 2022-23

10. Participation of the department in the curriculum development for courses offered by the University.

Sr. No	Name of the Faculty	Details	Organized By	Year
	Nil	Nil	Nil	Nil

11. Does the department have different syllabus than the one used by university for UG and PG courses?

- Institution is affiliated to SPPU, thus the syllabus is as provided by the University.

12. Number of teaching posts sanctioned, filled and vacant.

Designation	Sanctioned	Filled	Filled under CAS
Professor	1	00	NIL
Associate Professor	3	01	NIL
Assistant Professor	8	7	NIL
Total	12	08	NIL



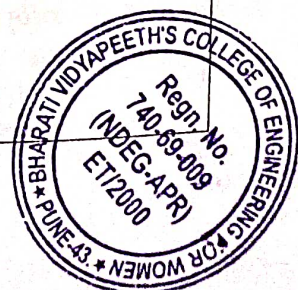
13. Faculty profile with name, qualification, designation, experience, nature of appointment (confirmed/ probation/temporary):

a) Appointed on Government Sanctioned Post.

Name	Designation	Qualifications	Teaching/ Research Experience	Nature of appointment
Prof. Dr.Avinash. M. Pawar	Asso. Professor	M.E. (Mech.), Ph.D. (Mechanical Engg.)	23Years	Full Time Teacher
Prof. Santosh. R. Mitkari	Asst. Professor	M.Sc. (Maths.), Ph.D. (Pursuing)	21Years	Full Time Teacher
Prof. Milind A.Patwardhan	Asst. Professor	M.Sc. (Phy.) Ph.D.(Pursuing)	15.5 Years	Full Time Teacher
Prof.Yogesh .D.Kute	Asst. Professor	B.E. (Mech.), M.Tech.	16Years	Full Time Teacher
Prof.Diksha P. Chopade	Asst. Professor	M.Tech. (Elect.), Ph.D.(Pursuing)	15Years	Full Time Teacher
Prof.Urmila S. Zope	Asst. Professor	B.E. (Mech.) M.E.	10Years 11 Months	Full Time Teacher
Prof.Kiran B. Naikwadi	Asst. Professor	M.Sc. (Maths.)	15Years	Full Time Teacher
Prof. Dr. Smita S. Jadhav	Asst. Professor	M.Sc. (Chem.), M.Phill, Ph.D.	24Years	Full Time Teacher

b) Appointed from University Fund.

Name	Designation	Qualifications	Teaching/Research Experience	Nature of appointment.
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NIL	NIL	NIL	NIL	NIL
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14. List of Visiting Fellows/Teachers, Adjunct and Emeritus Professors, (for last 2 years).

Sr. No.	Name of Visiting Fellows/Teachers, Adjunct and Emeritus Professors	Status	Subject	Academic Year
1	Prof. Indrajeet Jain	Visiting	EM	2022-23

15. Percentage of classes taken by temporary/visiting faculty (programmer- wise information):

Sr. No.	Academic Year	Sem	Percentage of Lectures Delivered	Percentage of Practical's handled
1	2022-23	I	8.33	00
		II	8.33	Nil

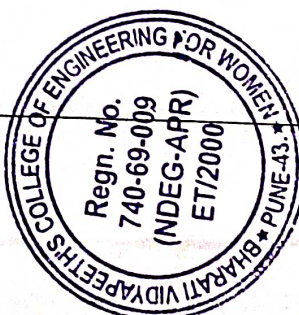
16. Programme-wise Student Teacher Ratio: (Average of 2 Years)

Year	No of Students Enrolled in the institute	No of Full Time Teachers	Teacher Student Ratio
2022-23	253	8 + 2	1:25.3

Average of 5 Years Teacher Student Ratio: - 1:25.3

17. Number of academic support staff (technical) and administrative staff sanctioned, filled and vacant:

Sr. No.	Posts	Sanctioned posts	Filled	Actual
1	Laboratory Assistant	-	01	-
2	Clerk (office)	-	01	-
3	Laboratory Attendant	-	00	-
4	Peon	-	01	-



5	Other	-	00	-
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18. Thrust areas of research as identified by the department:

Sr.	Faculty	Subject	Area of Research
1.	Dr. Avinash. M. Pawar	Mechanical Engineering	Advanced Manufacturing Process
2.	Mr. Santosh R. Mitkari	Mathematics	Calculus
3.	Mr. Milind A. Patwardhan	Physics	Condensed Matter Physics
4.	Mr. Yogesh D. Kute	Mechanical Engineering	Heat Power Engineering
5.	Mrs. Diksha P. Chopade	Electrical Engineering	Energy Audit and Power Quality in Electrical Distribution System
6.	Mrs. Urmila S. Zope	Mechanical Engineering	CAD-CAM
7.	Mr. Kiran B. Naikvadi	Mathematics	Calculus
8.	Dr. Smita S. Jadhav	Chemistry	waste water treatment, synthesis, conducting polymer, adsorption, dyes

19. Information about research grants, projects completed and ongoing during the period of last 5 years

a) From National funding agencies (like UGC, CSIR, DST, DBT etc):

Sr. No.	Name of the Principle Investigator (CO-investigator)	Title of the Project	Funding Agency, Duration & date of sanction	Amount (in Rs)
1.	NIL	NIL	NIL	NIL

b) From International funding agencies:

- NIL

20. Funds received at Departmental level through DST-FIST; CSIR, UGC-SAP/CAS, DAE, DBT, BRNS, ICSSR, AICTE, etc.

- NIL

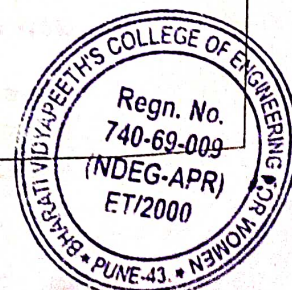
21. Research facilities available in the department and recognition received, if any?

- Digital Library is provided in the department.

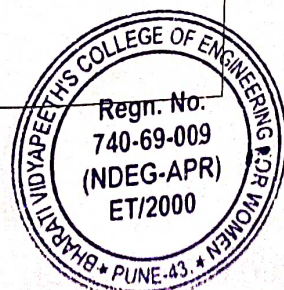
22. Special research laboratories sponsored by / created by industry or corporate bodies.

- NIL

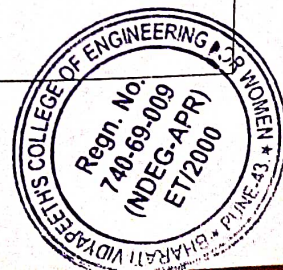
23. Publications:



Sr. No.	Paper Published in peer reviewed journals	Name of Staff	Monographs, books, chapters in book	Citations	H-index	Impact Factor/ Average impact factor
1	Comprehensive review about automatic classification of medicinal plants	Prof. Dr. A. M. Pawar	AIP Conference Proceedings	2022-23	-	-
2	Tulsi Leaf Disease Detection using CNN	Prof. Dr. A. M. Pawar	IEEE Xplore - 2022 IEEE Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation, IATMSI 2022	2022-23	-	-
3	Employee Churn walkthrough using KNN	Prof. Dr. A. M. Pawar	IEEE Xplore - 2022 2nd Asian Conference on Innovation in Technology, ASIANCON 2022	2022-23	-	-
4	Role of bacteria for the Recovery of Precious Metals from E-waste	Prof. Dr. S. S. Jadhav	Microbial Technology for Sustainable E-waste Management (Springer)	2022-23	-	-
5	Application of phase change material (PCM) in battery thermal management system (BTMS): A critical review	Prof. Dr. A. M. Pawar	14 th International conference on Material Processing and Characterization (ICMPC2023)	2022-23	-	6.78
6	Reconstructed Optimization Logic for the Secure Vaults with Arduino for the IoT Environment	Prof. S. R. Mitkari	International Journal of Intelligent Systems and Applications in Engineering	2022-23	9	-



			(Indexing: Scopus)			
7	Weighted Hashing-Based Capture Text Similarity Estimation with the Cross-Media Semantic Level	Prof. S. R. Mitkari	International Journal of Intelligent Systems and Applications in Engineering (Indexing: Scopus)	2022-23	9	-
8	Role of bacteria for the Recovery of Precious Metals from E-waste	Prof. Dr. S. S. Jadhav	Microbial Technology for Sustainable E-waste Management (Springer)	2022-23	-	-
9	A comparative study between coblator and microdebrider assisted inferior turbinate reduction surgery	Prof. K. B. Naikwadi	International Journal of Otorhinolaryngology and Head and Neck Surgery	2022-23	-	-
10	A Comparative Study Between Anterior-Posterior and Superior-Inferior Flap Suturing Technique in Endoscopic Dacryocystorhinostomy at our Tertiary Institution	Prof. K. B. Naikwadi	Indian Journal of Otolaryngology and Head & Neck Surgery (Indexing: Scopus)	2022-23	28	0.6
11	A Case Series of Dentigerous Cyst in Paediatric Patients at Our Tertiary Institution	Prof. K. B. Naikwadi	Indian Journal of Otolaryngology and Head & Neck Surgery (Indexing: Scopus)	2022-23	28	0.6
12	Performance Testing of Multicylinder Compressed Ignition Engine with Dual Fuel Mode of CNG with Biodiesel and Diesel	Prof. Y. D. Kute	International Journal of Vehicle Structures and Systems (Indexing: Scopus)	2022-23	20	0.6
13	Energy Audit and	Prof. D. P. Chopade	International	2022-23	-	-



	Conservation of Dental College-A case study		conference on renewable energy potential for sustainable initiatives (REPSI-2022) (Indexing: WOS)			
14	A statistical approach for the management of electrical energy consumption of an educational organization	Prof. D. P. Chopade	International conference on renewable energy potential for sustainable initiatives (REPSI-2022) (Indexing: WOS)	2022-23	-	-
15	Batch and column studies on the use of doped Polymer for the removal of (Sodium 4-[[4-(dimethyl amino) phenyl] diazenyl} benzene-1-sulfonate) from wastewater	Prof. Dr. S.S. Jadhav	International Journal of Environmental Analytical Chemistry (Indexing: SCI, Scopus)	2022-23	48	2.6

24. Details of patents filed & granted and income generated:

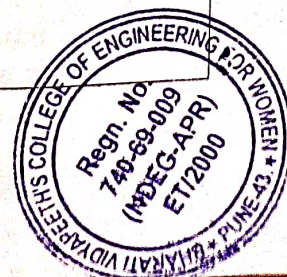
Sl. No.	Status of Patent (Published / Granted)	Inventor/s Name	Title of the Patent	Patent Filed Date (DD/MM/YY YY)	Patent Published Date / Granted Date (DD/MM/YY YY)	Patent Publication Number / Patent Granted Number
1	NIL					

25. Consultancy services provided, name of the teacher/s and income generated:

- NIL

26. Details of teachers invited as resource persons for Refresher courses, Orientation courses, Seminars, Workshops, Conferences at national and international levels.

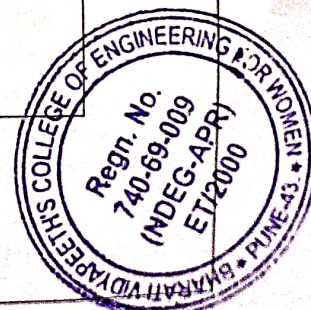
- NIL



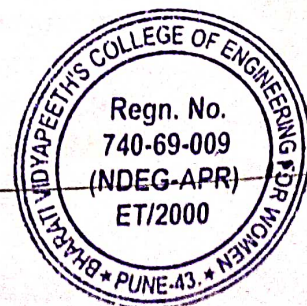
27. Details of teachers participated in Refresher courses, Orientation courses, Seminars, Workshops, Conferences at national and international levels. (participant, presented paper, chaired the session)

a. National

Name of Teacher who attended	Title of the Professional development Program	Dates and Duration(from-to)
Prof. Kiran B. Naikwadi	Participated in IP Awareness/Training program under National Intellectual Property Awareness Mission	21-07-2022 to 21-07-2022
Prof. Dr. Avinash M. Pawar	Contributing as a Reviewer for the 10 th National Conference on Recent Developments in Mechanical Engineering (RDME 2022)	15-09-2022 to 16-09-2022
Prof. Milind A. Patwardhan	Attending the Two days' workshop on "Automation of Physics Experiments using Arduino"	15-09-2022 to 16-09-2022
Prof. Dr. Avinash M. Pawar	Participated & Completed Blended/Hybrid FDP on "Emerging Trends in Data Science and Analytics" under AICTE Training And Learning Academy (ATAL).	31-10-2022 to 11-11-2022
Prof. Santosh R. Mitkari	Participated & Completed Blended/Hybrid FDP on "Emerging Trends in Data Science and Analytics" under AICTE Training And Learning Academy (ATAL).	31-10-2022 to 11-11-2022
Prof. Diksha P. Chopade	Completed the one week online STTP on Signal Processing using Machine Learning Algorithms with A Grade.	02-01-2023 to 07-01-2023
Prof. Dr. Avinash M. Pawar	Participating in Syllabus Implementation workshop cum faculty development program for the subject Quality & Reliability Engineering	12-01-2023 to 14-01-2023
Prof. Dr. Avinash M. Pawar	Board of Studies, Mechanical and Automobile Engineering SPPU attended implementation & FDP of 2019 course Curriculum at BE Mechanical Engineering for the course Engineering Economics & Financial Management(402050D)	11-01-2023 to 16-01-2023
Prof. Urmila S. Zope	Participated in ISTE approved Short Term Training Program (STTP) on Role of Artificial Intelligence, Machine Learning and data Science in Emerging Trends of Mechanical Industries.	23-01-2023 to 30-01-2023
Prof. Dr. Avinash M. Pawar	Participated in the Record Event- Maximum number of people reciting the Ganesh Atharvashirsh at a single venue noted in Asia Book of records, India Book of records & World book Records London in presence of Gurudev Sri Sri Ravi Shankar in Pune.	03-02-2023 to 03-02-2023



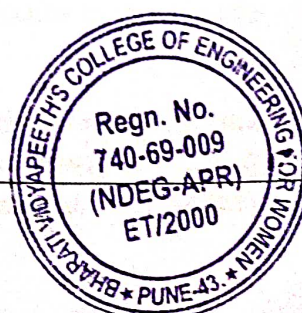
Prof. Milind A. Patwardhan	Participated in the Awareness Training Session on Energy Conservation Measures in Institutional Buildings for Constituent Units of BV (DU)	03-02-2023 to 03-02-2023
Prof. Dr. Avinash M. Pawar	Committed to uphold Human values by participating in the EduYouth Meet addressed by Gurudev Sri Sri Ravi Shankar in Pune & has exhibited rectitude in pledging for a Drug Free India this events finds a mention in the Asia, India and London Book of Records.	04-02-2023 to 04-02-2023
Prof. Santosh R. Mitkari	Committed to uphold Human values by participating in the EduYouth Meet addressed by Gurudev Sri Sri Ravi Shankar in Pune & has exhibited rectitude in pledging for a Drug Free India this events finds a mention in the Asia, India and London Book of Records.	04-02-2023 to 04-02-2023
Prof. Milind A. Patwardhan	Committed to uphold Human values by participating in the EduYouth Meet addressed by Gurudev Sri Sri Ravi Shankar in Pune & has exhibited rectitude in pledging for a Drug Free India this events finds a mention in the Asia, India and London Book of Records.	04-02-2023 to 04-02-2023
Prof. Yogesh D. Kute	Committed to uphold Human values by participating in the EduYouth Meet addressed by Gurudev Sri Sri Ravi Shankar in Pune & has exhibited rectitude in pledging for a Drug Free India this events finds a mention in the Asia, India and London Book of Records.	04-02-2023 to 04-02-2023
Prof. Diksha P. Chopade	Committed to uphold Human values by participating in the EduYouth Meet addressed by Gurudev Sri Sri Ravi Shankar in Pune & has exhibited rectitude in pledging for a Drug Free India this events finds a mention in the Asia, India and London Book of Records.	04-02-2023 to 04-02-2023
Prof. Kiran B. Naikwadi	Committed to uphold Human values by participating in the EduYouth Meet addressed by Gurudev Sri Sri Ravi Shankar in Pune & has exhibited rectitude in pledging for a Drug Free India this events finds a mention in the Asia, India and London Book of Records.	04-02-2023 to 04-02-2023
Prof. Dr. Avinash M. Pawar	Completed two days National Level Workshop on Implementation of National Education Policy 2020: Industry Linkage	10-02-2023 to 11-02-2023



Prof. Santosh R. Mitkari	Completed two days National Level Workshop on Implementation of National Education Policy 2020: Industry Linkage	10-02-2023 to 11-02-2023
Prof. Diksha P. Chopade	Participated & completed successfully AICTE Training And Learning (ATAL) Academy Blended/Hybrid FDP on "Power Electronics, Energy Storage and Renewable Technologies (PEESRT) for E-Transportation in India (Basic)"	13-02-2023 to 18-02-2023 21-02-2023 to 25-02-2023
Prof. Urmila S. Zope	Attended one week online FDP on Industry 4.0 as a Future	20-02-2023 to 24-02-2023
Prof. Diksha P. Chopade	Participating in Online National Level workshop " The Joy of Research"	20-03-2023 to 20-03-2023
Prof. Diksha P. Chopade	Participating in One day Online workshop on Pathway to effective Publication.	25-03-2023 to 25-03-2023
Prof. Kiran B. Naikwadi	Participated and successfully completed the 3-day Face-to-Face FDP on the theme "Inculcating Universal Human Values in Technical Education"	03-04-2023 to 05-04-2023
Prof. Dr. Smita S. Jadhav	Participated in the two days (Online) National Workshop on 'Hydrogen Based Integrated Energy System' conducted in Association with ISHRAE Student Chapter at G H Raison COE & Management, Wagholi, Pune	10-04-2023 to 11-04-2023

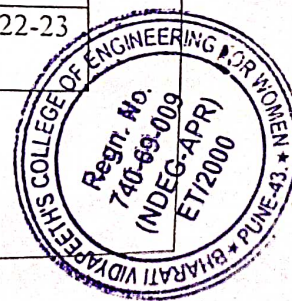
b. International

Name of Teacher who attended	Title of the Professional development Program	Dates and Duration(from-to)
Prof. Diksha P. Chopade	Participated in One week International Online FDP on "Trends & Challenges in the development of Electric Vehicles & Hybrid Electric Vehicles(Series-I)	26-09-2022 to 30-09-2022
Prof. Dr. Avinash M. Pawar	Participated in Five Day Online International faculty development program on " Recent Advancements in Manufacturing Technologies: Industry Approach"	13-03-2023 to 17-03-2023
Prof. Dr. Avinash M. Pawar	Participating and presenting a paper title: Application of phase change material(PCM) in battery thermal management system (BTMS): A critical review in 14 th International Conference on Materials Processing and Characterization (ICMPC2023)	24-03-2023 to 26-03-2023

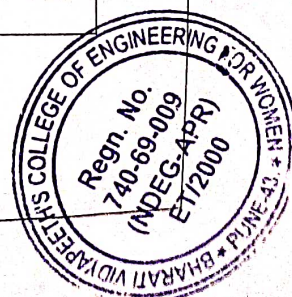


28. Participation of teachers in various academic activities as members of committees at University level, State level, National level, International level bodies. (give details)

Name of faculty	Achievement/Award/Recognitions	Year
Prof. Dr. Avinash M. Pawar	Worked as Reviewer for 2nd Asian Conference on Innovation in Technology (ASIANCON), 2022 Pune, India Organized by PCCOE, Ravet and sponsored by IEEE, Bombay section. Conference Date- Aug. 26-28, 2022.	2022-23
Prof. Dr. Avinash M. Pawar	Contributing as a Reviewer for the 10th National Conference on Recent Developments in Mechanical Engineering [RDME 2022] on 15th and 16th September 2022 in association with AIP Publisher, USA.	2022-23
Prof. Dr. Avinash M. Pawar	Presenting paper titled "Diabetes Prediction and Drug Administration using Knowledge Engineering Approach "in 10th National Conference on Recent Developments in Mechanical Engineering [RDME 2022] in association with AIP Publisher, USA	2022-23
Prof. Dr. Avinash M. Pawar	Worked as Reviewer 'International Journal of Engineering and Advanced Technology (IJEAT): 1. Multi-Response Optimization of Electro Chemical Discharge Machining Performances during Micro-Machining Operation of Silicon-wafer sponsored by Blue Eyes Intelligence Engineering and Sciences Publication.	2022-23
Prof. Dr. Avinash M. Pawar	Recognition as a Ph.D. Research Guide of Savitribai Phule Pune University w. e. f. 25.03.2022 to 21.06.2039(To Superannuation). For 4 students.	2022-23
Prof. Dr. Avinash M. Pawar	Worked as a Session Chair (Scientific Committee member) for online International Conference on Advanced and Creation in Mechanical Engineering conducted on 20/12/2022 to 22/12/2022 in online mode.	2022-23
Prof. Dr. Avinash M. Pawar	Worked as Reviewer 'International Journal of Engineering and Advanced Technology (IJEAT): 1. Defect Remedy Procedures Using Cold Method on Super heater Header (SA335P11) sponsored by Blue Eyes Intelligence Engineering and Sciences Publication.	2022-23
Prof. Dr. Avinash M.	Appreciated on the consistent contribution to the field of Education; and for inspiring children to learn presented by	2022-23



Pawar	the Trans Globe Pune on 17/02/2023.	
Prof. Dr. Avinash M. Pawar	Appointed & contributed as Session chair at the International Conference	
Prof. Dr. Avinash M. Pawar	Worked as Reviewer for 2nd Asian Conference on Innovation in Technology (ASIANCON), 2022 Pune, India Organized by PCCOE, Ravet and sponsored by IEEE, Bombay section. Conference Date- Aug. 26-28, 2022.	2022-23
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Prof. Dr. Avinash M. Pawar	Presenting paper titled "Diabetes Prediction and Drug Administration using Knowledge Engineering Approach "in 10th National Conference on Recent Developments in Mechanical Engineering [RDME 2022] in association with AIP Publisher, USA	2022-23
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Prof. Dr. Avinash M. Pawar	Recognition as a Ph.D. Research Guide of Savitribai Phule Pune University w. e. f. 25.03.2022 to 21.06.2039(To Superannuation). For 4 students.	2022-23
Prof. Dr. Avinash M. Pawar	Worked as a Session Chair (Scientific Committee member) for online International Conference on Advanced and Creation in Mechanical Engineering conducted on 20/12/2022 to 22/12/2022 in online mode.	2022-23
Prof. Dr. Avinash M. Pawar	Worked as Reviewer 'International Journal of Engineering and Advanced Technology (IJEAT): 1. Defect Remedy Procedures Using Cold Method on Super heater Header (SA335P11) sponsored by Blue Eyes Intelligence Engineering and Sciences Publication.	2022-23
Prof. Dr. Avinash M.	Appreciated on the consistent contribution to the field of	2022-23



Pawar	Education; and for inspiring children to learn presented by the Trans Globe Pune on 17/02/2023.	
Prof. Dr. Avinash M. Pawar	Appointed & contributed as Session chair at the International Conference	

29. Details of teachers appointed/nominated on Editorial Boards at university, state, national and international levels.

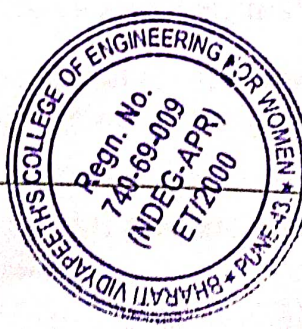
- Nil

30. Awards / Prizes and recognitions received by teachers at university, state, national and international level:

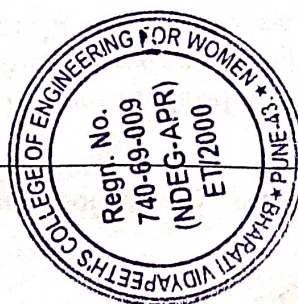
31. Awards and Prizes at university received by students, state, national and international level:

A.Y. 2022-23 Achievement: Scholarship

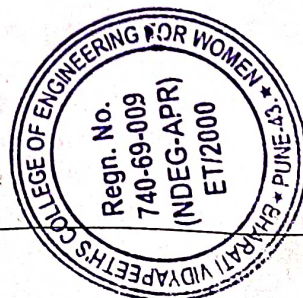
SR. NO.	NAME OF THE STUDENT	SCHOLARSHIP RECEIVED IN RS.	ORGANISED BY
1	Akshada Vilas Bombe	60,000	Lila Poonawala foundation Scholarship
2	Anuja Santosh Adhav	60,000	Lila Poonawala foundation Scholarship
3	Asha Chandrakant Kandrup	60,000	Lila Poonawala foundation Scholarship
4	Shaikh Ayesha Bashirul Haque	55,000	Lila Poonawala foundation Scholarship
5	Chaitali Bhushan Deshmukh	60,000	Lila Poonawala foundation Scholarship
6	Harshali Sanjay Shewale	60,000	Lila Poonawala foundation Scholarship
7	Janhvec Sharad Jagtap	60,000	Lila Poonawala foundation Scholarship
8	Kajal Shivaji Rokade	60,000	Lila Poonawala foundation Scholarship



9	Khushi Dattatery Deshmukh	60,000	Lila Poonawala foundation Scholarship
10	Nakshatra Navnath Shinde	55,000	Lila Poonawala foundation Scholarship
11	Nishtha Shrirang Parande	60,000	Lila Poonawala foundation Scholarship
12	Payal Sanjay Jadhav	60,000	Lila Poonawala foundation Scholarship
13	Pranali Santosh Barge	60,000	Lila Poonawala foundation Scholarship
14	Purva Chandrakant Kharche	50,000	Lila Poonawala foundation Scholarship
15	Ruchi Dhanjay Patil	55,000	Lila Poonawala foundation Scholarship
16	Saishri Niyanta Mane	60,000	Lila Poonawala foundation Scholarship
17	Sanika Prashant Vaidya	60,000	Lila Poonawala foundation Scholarship
18	Sanika Shebrao Deokar	60,000	Lila Poonawala foundation Scholarship
19	Sanjana Santosh Chavan	55,000	Lila Poonawala foundation Scholarship
20	Shravani Parbhat Chavan	60,000	Lila Poonawala foundation Scholarship
21	Shreyasee Suhas Patil	60,000	Lila Poonawala foundation Scholarship
22	Shweta Narayan Gogawale	40,000	Lila Poonawala foundation Scholarship
23	Siddhi Anil Bhujal	55,000	Lila Poonawala foundation Scholarship
24	Srushti Vyankat Sawant	60,000	Lila Poonawala foundation Scholarship
25	Tanvi Ramesh Patare	60,000	Lila Poonawala foundation Scholarship



26	Vaishnavi Balaji Mugale	60,000	Lila Poonawala foundation Scholarship
27	Farin Farooq Attar	55,000	Lila Poonawala foundation Scholarship
28	Eshani Ghanwat	40,000	Kiran scholarship of Persistent Foundation
29	Vaishnavi Patil	40,000	Kiran scholarship of Persistent Foundation
30	Vaishnavi Zagade	40,000	Kiran scholarship of Persistent Foundation
31	Dhanashri Kailas Nanekar	15,000	Katalyst Scholarship
32	Durgeshwari Bhaisade	15,000	Katalyst Scholarship
33	Janhvi Jaysing Kadam	15,000	Katalyst Scholarship
34	Namrata Gund	15,000	Katalyst Scholarship
35	Pranali Santosh Barge	15,000	Katalyst Scholarship
36	Pratiksha Laxman Kadam	15,000	Katalyst Scholarship
37	Sakshi Navnath Ighe	15,000	Katalyst Scholarship
38	Sakshi Shelke	15,000	Katalyst Scholarship
39	Sakshi Vitthal Sonawane	15,000	Katalyst Scholarship
40	Sanika Shebrao Deokar	15,000	Katalyst Scholarship
41	Shruti Chandrakant Khandagale	15,000	Katalyst Scholarship
42	Shweta mane Deshmukh	15,000	Katalyst Scholarship
43	Tanisha Nipunge	15,000	Katalyst Scholarship
44	Tanuja Sawant	15,000	Katalyst Scholarship
45	Vaishnavi Hambire	15,000	Katalyst Scholarship
46	Vaishnavi Mugale	15,000	Katalyst Scholarship
47	Vaishnavi Zagada	15,000	Katalyst Scholarship
48	Vijeta pawar	15,000	Katalyst Scholarship



32. Details of Seminars/ Conferences/Workshops organized at university, state, national and international level and the source of funding with details:

Name of Conference/ Seminars / Workshops	Funding agency	No. of Participants	University/State/National/ International	Dates
NIL				

33. Student profile programme-wise at UG and PG

UG	Applications Received	No. of students Admitted	Seats Available	Female	Year
UG	Not Applicable since admission processes is as per DTE norms.	253		253	2022-23

34. Year-wise results of students at UG and PG:

UG	Year	Appeared	Passed	Pass %	Grade %			
					I class with Dist.	I class	II class Higher II+II	Pass class
UG	2022-23	251	232	92.43	32.27	18.73	5.58	0

35. Information about M. Phil. programme:

- NIL

36. Information about Ph. D. programme :

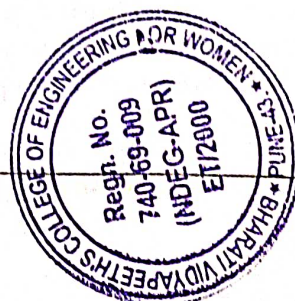
- NIL

37. Number of students awarded M.Phil., Ph.D. ,Degree :

- NIL

38. Diversity of Students : (Year-wise)

Name of the Programme	Year	% of students from the same University	% of students from other Universities within the State	% of students from Universities outside the State	% of students from other countries
UG	2022-23	253	30.43	1.19	00



39. Number of students cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give Category wise data.

Year	MPSC/UPSC	NET/ SET	GATE	Other Exams	Total
2022-23	NA	NA	NA	NA	NA

40. Student progression/ placement record: Number/ percentage of students proceeded for higher studies Number/percentage of students placed:

Year	% proceeded for higher studies		% of students placed
	UG to PG	PG to Ph.D./ M.Phil.	
2022-23	NA	NA	NA

41. Diversity of Faculty:

Teaching faculty	% 2022-23
from the same university	12.5
from other universities within the State	87.5
from other States	0.00
from outside the country	0.00

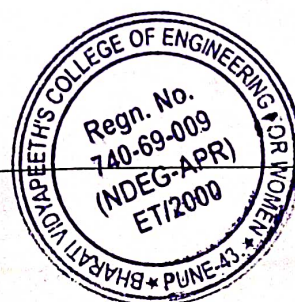
42. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. / D.Lit.:

Sr.No	Name of faculty	Degree Awarded	Awarding University	Year
	NIL			

43. Present details of departmental infrastructural & other facilities with regard to

a) Central Library Books and Journals, etc., relevant to Department:

Total No. of Books (Last Five Years)	3488
Journals-	0



Periodic	0
E-Journals	0

b) Departmental Library (books, journals etc.) :

No. Of Books	288
No Journals	Nil

c) Computers and Internet facilities for staff : 11

- A CADLAB is provided for students having internet speed of 16mbps. Computer laboratories have computers with internet connection.
- Wi-Fi facility and internet facility is also available in the department, it's access on the computer, laptop made available to the faculty and students in the campus.
- 32 Mbps (ISP: Tata TV service)
- Entire Department is Wi-Fi enabled.

d) Total number of class rooms : 3

e) Class rooms with ICT facility : 3

f) Students' laboratory :

06 + 01(Drawing Hall) + 01 (Workshop)

g) Research laboratories : 00

h) Seminar Hall : NA

i) Smart class room : 03

j) Any other facility LCDs : 03

44. List of post-doctoral students and Research Associates

a) Post-doctoral. Students-

- NIL

b) Research Associates

- NIL

45. Number of post graduate students getting financial assistance from the university/state / central government

- NA

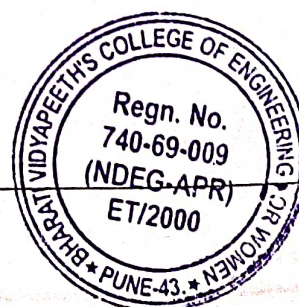
46. Curricular Aspects:

a) Does the faculty take initiative in curriculum development process?

- Yes.

The syllabus is designed by Savitribai Phule Pune University. The department faculties are involved in

1. Syllabus designing – Dr. A.M.Pawar, Dr. Smita S. Jadhav (For Bharati



Vidyapeeth, Pune)

2. Question paper setting – Dr. A.M. Pawar

3. Moderation/assessment – All faculties

b) Is curriculum suitable to make students globally competitive in the Subject?

If yes, substantiate.

- NA

Sr. No	Year	No. of students	Institution Name	Program Name
1	2022-23	NA	NA	NA

Competitive Exams

Year	Number of students selected/ qualifying								State government examinations
	NET	SLET	GATE	GMAT	CAT	GRE	TOFEL	Civil Services	
2022-23	NA	NA	NA	NA	NA	NA	NA	NA	NA

c) Does the department offer program with sufficient no. of electives options?

- Yes.

d) While framing curriculum, is feed-back taken from stakeholder's viz. Students/Alumni/Parents/Employers considered?

- College is affiliated to Savitribai Phule Pune University (SPPU) hence while framing the curriculum, analysis of the feedback taken from stakeholders, is forwarded to Board of Studies Members of Computer department, Savitribai Phule Pune University.

e) What is the frequency of curriculum revision? (3/4/5 years or more)

- 3 Years

f) Does the curriculum have emerging thrust areas, including interdisciplinary Areas? (If yes, elaborate).

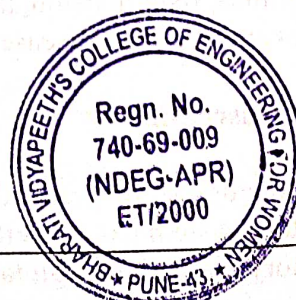
- Yes

47. Teaching-Learning, Evaluation.

1) Number of teachers preparing & following Academic Teaching plan

2022-23
08

2) How many teachers use the following teaching methods?



		2022-23
a.	Interactive lecture method using blackboard, Group discussions, Problem solving, Seminars	08
b.	Use ICT methods to support lectures.	08

3) Does the Department have Peer review processes? If yes, are the suggestions effectively used to improve the teaching quality?

- Yes, the department has effective student feedback system at the end of every semester. The analysis of this feedback is used to improve teaching quality.
- Yes. A mentor is assigned for each course. The mentor conducts meeting to guide and take review of the peer before and during the conduction of the course. The suggestions given by the mentor are implemented by the mentee to improve the teaching quality.

4) Does the department have any mechanism to ensure that entire syllabus is Completed?

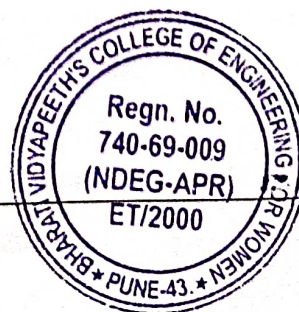
- Yes, the department implements the Academic monitoring system where the completion of syllabus is checked by the Mentor.

5) Do you offer Bridge/Remedial courses? If yes, Give details.

Sr. No	Name	Year	No. of students attended	Contact person name
	NIL			

6) What is the method for conducting internal evaluation?

- Unit Test I: It is conducted on Unit 1 and 2. The exam is conducted for students before INSEM examination of SPPU.
- Assignment 1: on Unit 3 is conducted.
- Unit Test II: This exam is conducted after INSEM Exam .It is conducted on Unit 4 and 5.
- Assignment 2: on Unit 6 is conducted.
- Practical Courses: Continuous progressive assessments are done through viva, presentation, report submission and laboratory quiz, etc.



- Various co-curricular activities: In this component, home assignments, tutorials, problem solving, group discussions, quiz etc. are conducted and evaluated regularly.

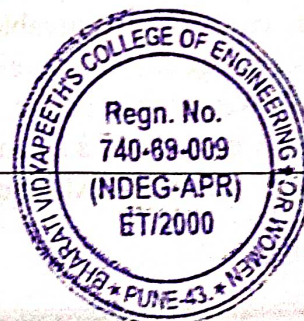
48. Teacher Performance:

- 1) Whether the performance of the teacher assessed by the students? If yes, are the feedback reports analysed and suggestions communicated to teachers?
 - Yes, A proper record of collected feedback is maintained and analysed Further for necessary actions.
- 2) Number of teacher's remarks from students.

Sr. No	Academic year	Semester	Excellent	Good	Satisfactory	Average
1	2022-23	SEM-I	8	-	-	-
		SEM-II	8	-	-	-

- 3) Whether suggestion boxes are kept in the department to get suggestions from Students on infrastructural facilities available in the department?
 - Yes
- 4) Are the suggestions received from students used for improvement of Facilities?
 - Yes
- 5) Do teachers submit Self-Appraisal Reports? Are these reports appraised by HOD and forwarded to the university with comments?
 - Yes
- 6) What is the individual faculty wise h index?

Sr. No	Name of Faculty	h Index
1	Prof. Dr. A.M. Pawar	3
2	Prof. S.R. Mitkari	-
3	Prof. M.A. Patwardhan	-
4	Prof. Y.D. Kute	-
5	Prof. D.P. Chopade	1
6	Prof. U.S. Zope	1



7	Prof. K.B.Naikwadi	-
8	Prof. Dr.S.S.Jadhav	2

7) Give details of "beyond syllabus scholarly activities" of the department.

Sr. No	Academic Year	Class	Name of Activity
1	2022-23	FE	NIL

49. List the distinguished alumni of the department (maximum 10)

Sr.No.	Name of Alumni	Distinguishing Details	Pass out Year
	NA		

50. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

Sr. No	Date	Type of Event	Name of Activity	Name and Address of resource person	Contact Details	Organized for
1	4/03/23	Workshop	Electric Vehicles.	Mr.Yogesh Mahaparle	9881466105	First Year students
2	31/05/2023	Seminar	Entrepreneurship Development	Mrs.Aishwarya Kulkarni	9881126111	First Year students

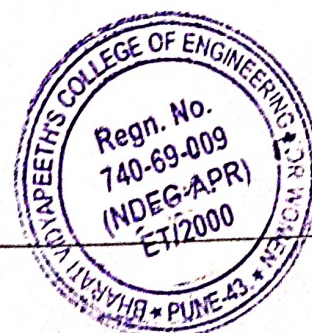
51. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The attainments levels are determined by direct (student performance) and indirect (surveys) assessment methods.

Direct Assessment:

Process for Direct Assessment Method is as follows:

Course Outcome (CO) Attainment:



- Attainment level is measured in terms of student performance in internal examinations with respect to Course Outcomes of a course and university examinations.
- Target is stated as the average marks in the corresponding examination for last three years.
- Attainment levels are defined as follows:
 Level 0: Less than 40% of students scoring more than set target marks.
 Level 1: 40% of students scoring more than set target marks.
 Level 2: 50% of students scoring more than set target marks.
 Level 3: 60% of students scoring more than set target marks.
- Attainment is measured in terms of actual percentage of students getting set percentage of marks.
- CO attainment is calculated by assigning 80% weightage to university examination and 20% weightage to internal assessment.

Program Outcome (PO) Attainment:

- A particular PO is mapped to all COs of a course by considering correlation levels 1, 2 and 3 as defined below:
 1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)
- Direct attainment level of PO is determined by considering all courses and hence CO attainment addressing that PO.

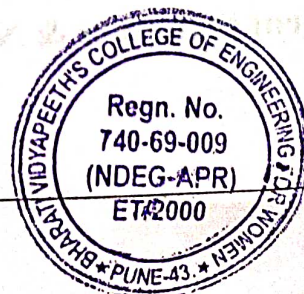
Indirect Assessment

Process for Indirect Assessment Method is as follows:

- Surveys such as Exit survey, Alumni survey, External examiner survey, Project examiner survey, Question paper survey, Employer survey and Parent survey are considered in the indirect method, which contributes to the attainment of POs.
- These give an idea about the strengths and weaknesses of program, thus providing a basis for revision of Pos.

Overall PO Attainment

- PO attainment level is based on attainment levels of direct assessment and indirect assessment.
- PO attainment level is determined by assigning 80% weightage to direct assessment and 20% weightage to indirect assessment.



52. Highlight the Special facilities (if, any) of the Department.

Sr. No.	Name of the Laboratory	Laboratory Equipment Details
1	Cadlab	Lenovo branded Pc-Model No. 1015G,CPU-i3-3240T29 HDD-500GB RAM-2GB. ODD- DUØR/WOS-DOS, HP Laser jet 1020 Plus Printer, Quick- Heal antivirus, , Hitachi LCD Projector Model No-CPX 308(2600 Lumens, XGA, PC Less, Wireless)
2	Electrical Lab	Single phase transformer and 3 phase induction motor, 3 phase synchronous motor, 3 phase alternator, D.C.motor
3	Mechanical Lab	Model of two stroke-four stroke petrol and diesel engine, Model of Cochran & Babcock wilcox boiler, Center lathe model, Drilling m/c model, Kaplan turbine model, Francis turbine model, Pelton wheel turbine model, House hold Refrigerator, Gear Sets(8 gear set), Centrifugal & reciprocating Pump, Four Bar Link Mechanism, Reciprocating Engine & Oscillating Cylinder Mechanism, Disc Break
4	Civil Lab	Hand Held GPS –Garmin -76, Pocket Laser Level, Laser Distance meter having range of 60mtr, Laser level wave of length 635 nm accuracy 90+30degree Horizontal line +1-1mm/10m, Compensating range + 1-4degree, Placom Digital Planometer KP 90N, Roller Type with user manual &carrying case, Dumpy Level DI-9, Laser Distance Meter
5	Mechanics Lab	Parallel Force Apparatus, Rope/ Belt Friction apparatus
6	Physics Lab	CRO (Aplab make), Ultrasonic Interferometer, e/m by Thomson's method, Diffraction Grating kit, Variable DC Power Supply, Spectrometer Delux Type, Fraunhoffer diffraction due to a single slit using a laser source, Characteristics of photo cell, Malu's Law Apparatus, Hall Effect Setup, Decibel meter (yfe)
7	Chemistry Lab	Digital Potentiometer, Conductivity Meter, PH Meter, Colorimeter, Electronic Digital Balance, IR Lamp, oven, muffle furnace, distillation plant
8	Workshop	Circular Saw Machine, C.I. Surface Plate, Power hacksaw, Gas welding set, Welding transformer 3 phase, Welding Transformer 1 phase, Wood turning lathe, Sheet cutting machine, Wood Turning Lathe Machine, Drilling Machine (screw,riveting facility)

53. Highlight the unique features of the department.

- Well experienced faculties with average teaching experience of more than 12 years.

Classrooms are specially designed to avail the benefits of ample sunlight in order to reduced electricity consumption.



54. State the Innovative practices adopted in the department.

Teaching innovation is the process of coming up with new ideas, theories, collaboration and solutions that can be shared in the classroom. Components of innovation are creative, diverse, collaborative, and perceptive learning. Creative efforts are followed by the teacher to bring out the innovation in classroom. Experienced faculties have come out from the traditional way of teaching and learning (chalk & talk) and adopted innovative and creative approach. Innovative methods used are as follows:

- **E-learning** :Faculty have created courses on Moodle, Myexamo, Android Apps for their respective subjects to implement flipped classroom activities which provides not only a huge E-learning repository at different cognitive levels like multiple choice question quizzes, assignments, practical write ups, question bank, animations, video lectures but also many platforms for interaction with students like discussion forum, chat forum.
- **Interactive learning**: Faculty have designed quizzes & crossword puzzles to test progress of students. Faculty facilitate methodologies such as group interactions and role plays among the students to make learning interactive. Faculty members show animations, videos, 3D models in classrooms, pose a question to visualise and think on the topic. Students are allowed to pair and share their answer. Faculty ask students to make use of clickers for MCQ question posed during the lecture or take vote from students about the correct answer, the aim of this activity is to correct the logic for problem solving approach.
- **Project based learning**: Faculty from Engineering sciences and Allied Engineering department guides students to carry out their projects.

55. Highlight the participation of students and faculty in extension activities.

- National Service Scheme (NSS)
- Tree Plantation
- Seminars and Workshops.

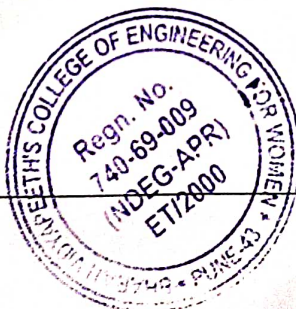
56. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

a. Strengths:

- i. Experienced & dedicated staff with good retention ratio.
- ii. Faculty involved in interdisciplinary research & book's publication.
- iii. Adaptive & effective Teaching Learning Process using continuous evaluation.
- iv. Faculty members are involved in design, development & implementation of curriculum in board of studies of affiliating University.

b. Weaknesses:

- i. No. of faculty with PhD is comparatively less.



- ii. Few research publications in peer reviewed international Journals having high impact factor.
- iii. Less number of university approved faculty.
- c. Opportunities:
 - i. To initiate interdisciplinary projects and utilisation of laboratories for such projects.
 - ii. To improve result of first year students.
- d. Challenges:
 - i. Cater to the need of students with diverse capabilities.

57. Future plans of the department:

a. Long term plans-

- Implementation of ERP.
- Online submission and assessment of assignment and unit test.

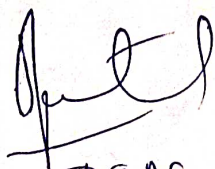
b. Short term plans

- To organize special sessions for students on Personality Development.
- To motivate staff members to practice flipped classroom.
- Encourage staff members to participate in STTPs and FDPs.

Declaration by the Head of the Department/Institution:

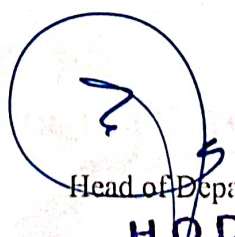
I am aware that the above information provided by the department will be validated by the AAA committee during the visit.

Date: 17/11/22



IQAC Coordinator

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Head of Department
H.O.D.
Engineering Sciences
B.V. College of Engineering
For Women
Durg - 43

